

## INDEX OF AUTHORS

- Agius, L. 1002, 1007  
 Ahmad, K. A. 1068  
 Aiton, J. F. 1022  
 Al-Ani, B. S. S. 997  
 Allen, D. 947  
 Alving, C. R. 921  
 Alwan, A. F. 965  
 Anderson, A. J. 1046  
 Anderson, N. G. 1025  
 Anner, B. M. 914  
 Ashall, F. 1067  
 Ashford, A. 1011, 1012  
 Atkinson, T. 975, 976
- Bagby, S. 958  
 Bailey, G. S. 1011, 1012  
 Barker, C. J. 984  
 Barker, P. D. 957, 958, 959  
 Barracough, R. 1061  
 Baty, J. D. 1024, 1071  
 Baydoun, E. 1042  
 Benkovic, S. J. 947  
 Berridge, M. J. 988, 995  
 Berry, D. R. 1079  
 Bestor, T. 944  
 Betley, S. 1002  
 Bickle, T. A. 942  
 Billett, M. A. 1058, 1059,  
     1060  
 Bird, I. M. 983  
 Bjaaland, T. 1017  
 Black, F. M. 990  
 Blanchard, A. D. 1059,  
     1060  
 Blundell, T. L. 927  
 Bonser, N. 1008  
 Booth, R. F. G. 966  
 Borlakoglu, J. T. 1072  
 Born, G. V. R. 1032, 1033  
 Botham, K. M. 1001  
 Bown, K. 975  
 Bradbury, J. M. 1019  
 Brain, A. I. J. 1020  
 Briggs, A. D. 1032, 1033  
 Brooksbank, R. A. 970  
 Brown, G. 985  
 Brown, P. D. 993  
 Bunce, C. M. 985  
 Burleigh, M. C. 1032,  
     1033  
 Burton, D. R. 953  
 Butterly, P. J. 1073
- Campbell, S. 927  
 Case, R. M. 993  
 Chambers, T. J. 1064  
 Chan, S. L. F. 1005  
 Chang, C. N. 1081  
 Charlier, P. 934  
 Chegwidden, W. R. 973,  
     974  
 Chen, C. Y. 1081  
 Chisholm, V. 1081  
 Christensen, J. R. 1040  
 Chu, L. 1046  
 Cockcroft, S. 994
- Coleman, G. 997, 999,  
     1000  
 Colyer, J. 967  
 Cook, G. A. 1010  
 Cooke, A. M. 992, 995  
 Cooper, E. H. 970  
 Cowart, M. 947  
 Cramb, G. 1022  
 Creba, J. A. 985  
 Cross, G. A. M. 996
- Davies, M. J. 1032, 1033  
 Davies, T. G. E. 1054  
 Dawes, E. A. 1046  
 Day, P. 939  
 De Gier, J. 912  
 Delgado, C. 968  
 Denton, R. M. 1065  
 Dickens, M. 1065  
 Dideberg, O. 934  
 Di Gleria, K. 958  
 Dils, R. R. 1072  
 Donohue, M. 993  
 Dowbenko, D. 1081  
 Duncan, C. J. 1050, 1052  
 Dunn, M. 1083
- Eady, R. R. 959  
 East, J. M. 967  
 Edwards, P. A. W. 1019  
 Edwards-Webb, J. D. 1072  
 Elliott, A. C. 993  
 El-Saleh, S. C. 1045  
 Etcheverry, T. 1081  
 Etherington, D. J. 1056
- Faruque, S. M. 1064  
 Fawcett, J. 1041  
 Feizi, T. 930  
 Fisher, D. 968  
 Fisher, M. J. 1057  
 Ford, G. C. 961  
 Fox, W. R. 1071  
 Francis, G. E. 968  
 French, P. J. 985  
 French, T. J. 1014  
 Frère, J.-M. 934
- Galione, A. G. 988  
 Garton, A. J. 1038  
 Ghysen, J.-M. 934  
 Gigg, R. 992  
 Gladwin, A. M. 966  
 Gleeson, M. A. 1081  
 Gore, M. 975, 976  
 Gower, D. B. 1003, 1004  
 Grant, D. 977, 1028,  
     1029, 1030  
 Green, A. K. 1057  
 Greenidge, E. 1021  
 Grütter, M. G. 949  
 Guo, L. H. 957
- Harrison, L. M. 1037  
 Hayman, A. R. 1064  
 Haynes, N. B. 1073  
 Hayre, M. D. 921  
 Haywood, G. W. 1046  
 Hermon-Taylor, J. 1018  
 Hewett-Emmett, D. 974  
 Higgins, J. A. 1036  
 Hill, H. A. O. 957, 958,  
     959  
 Hincliffe, E. 1077  
 Hitchin, B. W. 1036  
 Hitzeman, R. A. 1081  
 Hockmeyer, W. T. 921  
 Holness, M. J. 1014, 1015  
 Hong, H. 1045  
 Houslay, M. D. 1025  
 Hothi, S. K. 1075  
 Howell, S. L. 1017  
 Hughes, K. T. 991  
 Hunaiti, A.-R. 1042  
 Huntly, P. J. 999  
 Hurst, R. D. 1005  
 Hussain, A. A. 1074  
 Hussain, S. T. 1042
- Inayat, M. S. 976  
 Iwanejko, L. A. 1069
- Jackson, P. J. 970  
 Johnson, P. 1043, 1045  
 Jones, C. G. 1075  
 Jones, P. M. 1017  
 Jones, R. 1035  
 Jordan, P. M. 962, 963,  
     965  
 Joris, B. 934
- Kalsheker, N. 1055  
 Kashfi, K. 1010  
 Keen, J. N. 970  
 Kelly, D. E. 1086  
 Kelly, J. M. 1067  
 Kelly, S. L. 1086  
 Kendall, G. 1067  
 Kilgour, E., 1025  
 King, D. J. 1083  
 Kirk, C. J. 984  
 Kohr, W. 1081  
 Kowal, A. 1027, 1049  
 Kuchta, R. D. 947  
 Kwan, T. K. 1003, 1004
- Lancaster, R. T. 1035  
 Lau, K. R. 993  
 Leedeboer, A. M. 1081  
 Lee, A. G. 967  
 Lee, D. Y. 991  
 Legisa, M. 969  
 Lendon, C. L. 1032, 1033  
 Lewendon, A. 939  
 Lightly, E. R. T. 983  
 Lindsay, R. M. 1024, 1071  
 Logan, A. 987  
 Logan, S. D. 986, 987  
 Long, M. T. 1044
- Long, W. F. 977, 1028,  
     1029, 1030  
 Lowe, S. 969  
 Lowe, V. J. 958
- McCall, K. E. 1052  
 McDermott, E. E. 986  
 McLaren, A. M. 1024  
 MacLennan, P. A. 1015  
 Maciewicz, R. A. 1056  
 Marison, I. W. 1091  
 Marshall, J. H. A. 972  
 Martin, J. F. 966  
 Mattaj, I. W. 943  
 Mattey, M. 969, 976  
 Matthews, N. 1055  
 May, F. E. B. 1063  
 Mayor, S. 996  
 Meda, P. 914  
 Menon, A. K. 996  
 Mercer, E. I. 1044  
 Michelangeli, F. 967  
 Michell, R. H. 984, 985  
 Middleton, A. 1008  
 Middleton, B. 1008  
 Miles, M. A. 1067  
 Millburn, P. 1021  
 Milner, R. E. 1009  
 Morgan, N. G. 1005  
 Morris, A. J. 984  
 Mullins, C. J. 1069  
 Munro, A. L. S. 999  
 Murray, I. A. 939  
 Muwalla, M. 1042
- Nahorski, S. R. 992  
 Neale, M. L. 1055  
 Newton, R. P. 1069  
 Nicolau, C. 917  
 Noble, N. J. 992  
 Nock, L. P. 1053
- O'Brien, R. M. 1065  
 O'Connor, P. J. 1058, 1060
- Palmer, S. 991  
 Papahadjopoulos, D. 910  
 Patel, H. M. 909  
 Patrick, A. D. 1031  
 Perry, N. 976  
 Perumal, R. 1003, 1004  
 Peters, T. J. 1040, 1041  
 Pillay, T. S. 1065  
 Potter, B. V. L. 992, 995  
 Price, C. 942  
 Price, R. J. 1047  
 Priestle, J. P. 949
- Rapoza, A. 1027  
 Ratledge, C. 1088  
 Renz, M. 1081  
 Rey, H. G. 914  
 Richards, R. L. 921  
 Roberts, G. C. K. 925  
 Rogers, L. J. 1053, 1054  
 Rolfe, P. 978, 980

- Rugg, E. L. 1022  
Russell, N. J. 909  
Ryan, A. J. 1058, 1060  
Rye, P. D. 1026
- Sanghera, G. S. 957, 958,  
959  
Scawen, M. 975, 976  
Schär, H.-P. 949  
Scherly, D. 943  
Schwarz, R. T. 996  
Seymour, M. A. 1021  
Shamsadeen, N. 1050  
Shand, J. H. 1013  
Shaw, W. V. 939  
Siddle, K. 1065  
Singh, A. 1081  
Singh, J. 927  
Sinnett-Smith, P. A. 1037  
Skacel, P. O. 1034  
Skidmore, C. J. 1064  
Skilleter, D. N. 1047  
Small, C. A. 1038  
Smith, B. W. 1083  
Smith, C. J. 1069  
Smith, G. D. 1040, 1041
- Smith, T. A. 972  
Spencer, I. M. 973  
Spencer, P. 975, 976  
Sprandel, U. 1051  
Stebbing, A. 1018  
Steel, C. C. 1044  
Steele, G. 1027  
Stewart, G. S. A. B. 1068,  
1069  
Strupish, J. 992  
Stutchfield, J. 994  
Sudbery, P. E. 1081  
Sugden, M. C. 1014, 1015  
Sutherland, J. L. 1000  
Sutton, C. M. 1001  
Swann, I. D. 1011  
Swanson, T. 1055  
Symington, P. R. 1012
- Tait, G. H. 1021  
Tashian, R. E. 974  
Taylor, C. W. 995  
Taylor, D. S. 1057  
Tavaré, J. M. 1065  
Thomas, H. 1053, 1054  
Thomas, P. 1027, 1049
- Thomas, S. 1018  
Thorneley, R. N. F. 959  
Thorniley, M. S. 978, 980  
Thornton, J. M. 927  
Titheradge, M. A. 1075  
Tosh, D. 1007  
Toth, C. A. 1027, 1049  
Trayhurn, P. 1009  
Turner, R. 970
- Veale, R. A. 1081  
Vehar, G. 1081  
Voaden, M. J. 1074  
Von Stockar, U. 1091
- Wakelam, M. J. O. 990,  
991  
Wakeling, A. E. 1063  
Wali, F. A. 1020, 1021  
Walker, C. H. 1072  
Walker, R. A. 1026  
Walker, S. W. 983  
Walton, F. 1083  
Walton, T. J. 1069  
Walz, D. A. 974
- Warburton, M. J. 1064  
Ward, J. B. 966  
Wardale, R. J. 1056  
Warren, M. J. 962, 963  
Watkins, W. M. 1034  
Weakley, L. J. 1010  
West, D. W. 1013  
Westley, B. R. 1063  
Wickramasinghe,  
Y. A. B. D. 978, 980  
Willcocks, A. L. 992  
Williams, B. C. 983  
Williams, R. J. P. 923  
Williamson, F. B. 977,  
1028, 1029, 1030  
Willmott, N. J. 1074  
Winterbourne, D. J. 1018  
Wiseman, L. R. 1063  
Withers, R. M. 1073
- Yarranton, G. T. 1083  
Yeaman, S. J. 1038
- Zhang, H. 1043  
Zoetmulder, M. C. M.  
1081  
Zöllner, N. 1051

# AUTHOR INDEX

- Aaronson, P. I.** See Bolton, T. B.
- Abrahmsen, L.** See Uhlen, M.
- Ackrill, A. M.**
- ; Blair, G. E.  
Modulation of expression of major histocompatibility class I genes in highly oncogenic adenovirus-transformed rat cells. 605
- Adam, L. P.** See Hathaway, D. R.
- Adams, D. J.** See Othman, Y. H. S.
- Adams, R. L. P.** See Yesufu, H. M. I.
- Agathocleous, D. C.**
- ; Cosstick, R.; Galpin, I. J.; McLennan, A. G.; Page, P. C. B.; Prescott, M.  
Biological activity of (N<sup>6</sup>-N<sup>6</sup>)-bridged diadenosines. 756
- Agius, L.** See Betley, S.; Tosh, D.
- Ahkong, Q. F.**
- ; Lucy, J. A.  
Localized osmotic forces and membrane fusion. 882
- Ahmad, K. A.**
- ; Stewart, G. S. A. B.  
Cloning of the lux genes into *Lactobacillus casei* and *Streptococcus lactis*: phosphate-dependent light production. 1068
- Aitken, A.** See Evans, R. W.
- Aiton, J. F.** See Rugg, E. L.
- Al-Ani, B. S. S.**
- ; Coleman, G.  
Humoral antibody response to extracellular, intracellular and cell envelope proteins of *Staphylococcus aureus* in cases of staphylococcal endocarditis. 997
- Albrechtsen, M.** See Kerr, M. A.
- Ali, P.** See Scott, J. E.
- Ali, P. O.** See Simpson, A. J. G.
- Allan, G.**
- ; Dooley, M.; Gregory, B.; Clynes, M.; Headon, D. R.  
Hormonal regulation of epidermal growth factor receptor gene in T47D breast cancer cells. 173
- Allard, S. A.** See Horsfall, A. C.
- Allen, A.** See Hutton, D. A.; Mall, A. S.
- Allen, A. K.** See Rossell, R. J.  
The glycoconjugates of mammalian parasites with particular reference to *Trypanosoma cruzi*. 257
- Allen, D.** See Kuchta, R. D.
- Allen, M. J.**
- ; Johnson, P.  
Monoclonal antibodies as probes for exposed determinants on desmin intermediate filaments. 52
- Allis, J. L.** See Endre, Z. H.
- ; Endre, Z. H.; Radda, G. K.  
Differentiation between intra- and extra-cellular components of renal rubidium-87 nuclear magnetic resonance spectra by lineshape analysis. 806
- Allsopp, M. T. E. P.** See Day, I. N. M.; Hooper, C. M.
- Al-Mahdawi, S.** See Shallal, A.
- Almar, M. M.**
- ; Diaz-Mayans, J. J.; Ferrando, M. D.; Romero, F. J.  
Glutathione content, glutathione S-transferase and  $\gamma$ -glutamyltranspeptidase activities in mid-gut gland of *Procambarus clarkii*: time course in the presence of cadmium. 23
- Altinel, A.** See Wali, F. A.
- Alving, C. R.** See Richards, R. L.
- Alwan, A. F.**
- ; Jordan, P. M.  
Isolation of uroporphyrinogen III synthase from *E. coli*. 965
- Amirali, S.** See Saeed, S. A.
- Ancel, R.** See Urban, P. F.
- Anderson, A. J.** See Haywood, G. W.
- Anderson, E.** See Watson, D.
- Anderson, N. G.** See Kilgour, E.
- Andrews, S. C.**
- ; Guest, J. R.  
Structural comparison of the guanosine 5'-phosphate reductase and inosine 5'-phosphate dehydrogenase of *Escherichia coli*. 858
- ; Treffry, A.; Harrison, P. M.  
Studies on the subcellular processing of iron dextran by rat liver. 854
- Angal, S.** See Marston, F. A. O.
- Angel, J. F.** See Sohal, P. S.
- Anner, B. M.**
- ; Rey, H. G.; Meda, P.  
The use of liposomes in the study of sodium-potassium ATPase. 914
- Antoniou, M.** See Faruque, S. M.
- Antoniw, J.** See Piper, P. J.
- Arata, Y.** See Jefferis, R.
- Archard, L. C.** See Hayes, L. J.; Porter, C. D.
- Arden, G. B.**
- ; Carbrera, C.; Hardcastle, A. J.; Kundaiker, S.; Mitchell, C. H.; Voaden, M. J.  
Induction of photosensitivity in the *Xenopus* oocyte by injection of retinal mRNA. 299
- Armstrong, F. A.**
- ; Ellul, H.; Hanlon, S. E. B.; Lanxon, A. M.  
Cryokinetic studies of cytochrome c in aqueous alcohols. 846
- ; George, S. J.; Thomson, A. J.; Yates, M. G.  
Redox properties of Azotobacter 7-iron ferredoxin. 840
- ; Lannon, A. M.  
Towards macromolecular recognition at electrodes: fast interfacial electron transfer to cytochrome c peroxidase at graphite electrodes is promoted by aminoglycosides. 842
- Artymuk, P. J.** See Spiro, S.; Thomas, C. D.
- Arvin, B.** See Neville, L. F.
- Ase, K.** See Shearman, M. S.
- Ashall, F.** See Kendall, G.
- Ashford, A.** See Swann, I. D.; Symington, P. R.
- Ashton, A. C.**
- ; Edwards, K.; Dolly, J. O.  
Lack of detectable ADP-ribosylation in synaptosomes associated with inhibition of transmitter release by botulinum neurotoxin A and B. 883
- Action of botulinum neurotoxin A on protein phosphorylation in relation to blockade of transmitter release. 885
- Ashton, S.** See Scragg, A. H.
- Atkinson, T.** See Perry, N.; Spencer, P.
- Atta-ur-Rahman** See Saeed, S. A.
- Atwell, M. M.**
- ; Hanson, P. J.  
Effect of pertussis toxin on action of inhibitors of acid secretion by isolated parietal cells of the rat. 281
- Augood, S. J.**
- ; Emson, P. C.; Crossman, A. R.; Marsden, D.; Legon, S.  
Localization of enkephalin mRNA in the monkey. 313
- Austen, B.** See Malik, Z.; Meredith, C.
- Austen, B. M.** See Hurley, P. R.
- Austin, J. C.** See Chittock, R. S.
- Ayad, S.** See Grant, M. E.
- Ayling, C.** See Moreland, B. H.
- Aynsley-Green, A.** See Kozlowski, U. M.; Turnbull, D. M.
- Bachar, O.** See Michaelson, D. M.
- Backwell, F. R. C.**
- ; Elmore, D. T.; Williams, C. H.  
The use of neuropeptidases to release drug from peptide-based prodrugs. 214
- ; Williams, C. H.  
Photoaffinity labels for the active site of monoamine oxidase. 214
- Badawy, A. A. B.**  
Effects of alcohol on tryptophan metabolism. 254
- Bagby, S.**
- ; Barker, P. D.; Di Gleria, K.; Hill, H. A. O.; Lowe, V. J.  
The direct electrochemistry of cytochrome b<sub>5</sub> at peptide-modified gold electrodes. 958
- Bailey, C. J.** See Lockhart, B. P.
- Bailey, E.** See Barton, H. C.
- Bailey, G. S.** See Swann, I. D.; Symington, P. R.
- Baker, D. P.**
- ; Fewson, C. A.  
Purification and characterization of D-(–)-mandelate dehydrogenase from *Rhodotorula graminis* KGX 39. 865
- Baker, P. R.**
- ; Reid, A. D.; Slow, Y.; Baty, J. D.; Willis, R. G.  
Identification of bile acids in breast cyst fluid. 741
- Baldwin, S. A.** See Kasanicki, M. A.
- Ball, R.**
- ; Daly, M.; O'Meara, A.; Hallinan, F.  
Characterization by immunoblotting of an altered form of antithrombin III (ATIII). 374
- Ball, S. G.** See Ong, M. L.
- Balson, D. F.** See Thomas, C. D.
- Barber, J.** See Howard, T. D.
- Bardocz, S.** See Grant, G.
- Barker, C. J.**
- ; Morris, A. J.; Kirk, C. J.; Michell, R. H.  
Inositol tetrakisphosphates in WRK-1 cells. 984
- Barker, G. A.**
- ; Ellory, J. C.  
Sodium-dependent proline uptake in isolated chondrocytes. 894
- Barker, P. D.** See Bagby, S.
- ; Guo, L. H.; Hill, H. A. O.; Sanghera, G. S.  
The direct electrochemistry of protein-protein complexes. 957
- ; Hill, H. A. O.; Sanghera, G. S.; Eady, R. R.; Thorneley, R. N. F.  
The direct electrochemistry of flavodoxin from *Azotobacter chroococcum* at a graphite electrode promoted by aminoglycosides. 959

- Barlow, D. J.**  
—; Hider, R. C.; Singh, S.; Wibley, K. S.  
Computer-aided modelling of the structures and metal-ion affinities of chelating agents. 835
- Barnard, E. A.** See Marshall, J.
- Barnett, C. R.** See Snell, K.
- Barnwell, S. G.** See Hughes, W. M.
- Baron, A. J.** See Jones, K. M.
- Barracough, R.**  
Control of expression of the novel potential calcium-binding protein, p9Ka, in cultured rat mammary cells. 1061
- Barrie, A.**  
—; Nicholls, D. G.  
Presynaptic regulation of glutamate release from guinea pig cortical synaptosomes. 881
- Barry, F.** See Murphy, G.
- Barth, P. T.**  
—; Bust, C.; Hawkins, H. C.; Freedman, R. B.  
Protein disulfide-isomerase activity in bacterial osmotic shock preparations. 57
- Bartlett, K.** See Bhuiyan, A. K. M. J.; Kozlowski, U. M.  
—; Watmough, N. J.; Causey, A. G.  
Intermediates of  $\beta$ -oxidation. 410
- Barton, C. H.**  
—; Dickson, G.; Gower, H. J.; Walsh, F. S.  
Structure and expression of neural cell adhesion molecule complementary DNA clones in skeletal muscle. 457
- Barton, H. C.**  
—; Bailey, E.  
Changes in the specific activities of hepatic NADP-dependent dehydrogenases during development of the rat. 899
- Bashford, C. L.** See McSheehy, P. M. J.
- Bassett, J. H. D.**  
—; Vogel, U. S.; Thompson, R. J.  
Molecular analysis of human 2',3'—cyclic nucleotide 3'-phosphohydrolase. 304
- Basurko, M. J.** See Darriet, M.
- Batayneh, N.** See Hodgson, J. A.
- Bates, P. C.** See Yahya, Z. A. H.
- Baty, J. D.** See Baker, P. R.; Lindsay, R. M.
- Baum, H.** See Chelliah, J.; Monks, N. J.; O'Connell, M. J.  
The changing scene in the advanced biochemistry undergraduate curriculum. 513
- Bautista, J. M.**  
—; Garrido, A.; Soler, G.  
Effect of NADP<sup>+</sup> and NADPH on controlled tryptic cleavage of glucose-6-phosphate dehydrogenase from *Dicentrarchus labrax* (bass) liver. 903
- Baydoun, E.** See Hussain, S. T.
- Beattie, R. E.**  
—; Douglas, A. J.; Elmore, D. T.; Murphy, R. F.; Walker, B.; Williams, C. H.  
The behavior of leucine aminopeptidase towards N-methyl-L-leucine chloromethyl ketone. 186
- ; Williams, C. H.; Elmore, D. T.  
L-Leucine thioamide as an inhibitor of leucine aminopeptidase. 185
- Bedwell, J.** See Tam, R. C.
- Beesley, A. C. H.** See Lawrence, G. M.
- Behan, J.**  
—; Kelly, C. T.; Fogarty, W. M.  
Resolution of the  $\alpha$ -glucosidases of *Streptomyces tosaensis*. 180
- Bell, E.** See Janson, L.  
Modification of the ADP regulatory site of glutamate dehydrogenase by PLP-AMP. 861
- Bell, J. D.**  
—; Brown, J. C. C.; Kubal, G.; Sadler, P. J.  
Nuclear magnetic resonance studies on blood plasma and plasma proteins: the recognition system for anions. 714
- Bell, J. E.** See Goldstein, B. M.
- Benito, M.** See Lorenzo, M.
- Benkovic, S. J.** See Kuchta, R. D.
- Bennun, A.** See Casciano, C.; Vicario, P. P.
- Berchtold, M. W.** See Seto-Oshima, A.
- Beresford, J.** See Mangnall, D.
- Berridge, M. J.** See Galione, A. G.; Taylor, C. W.
- Berry, A.** See Perham, R. N.
- Berry, D. R.**  
Microbiological, biochemical and genetic aspects of distilling processes. 1079
- Berry, M.** See Johnson, A. R.
- Berry, R. M.**  
—; Punchard, N. A.; MacLachlan, N. A.; Thompson, R. P. H.  
Oxygen uptake in peroxide-stressed human red blood cells: a method for assessing antioxidant defenses. 284
- Best, L.** See Bone, E. A.; Tuersley, M. D.
- ; Bone, E. A.; Meats, J. E.; Tomlinson, S.  
Role of intracellular pH as a signal in the stimulation of pancreatic islets. 807
- Bestor, T.**  
Structure of mammalian DNA methyltransferase as deduced from the inferred amino acid sequence and direct studies of the protein. 944
- Betley, S.**  
—; Agius, L.  
Regulation of fatty acid metabolism by growth hormone and triiodothyronine in cultured rat hepatocytes. 1002
- Betteridge, A.** See Martin, B. T.
- Bevington, A.** See Kemp, G. J.
- Bhatti, A. R.**  
—; Burdon, J.; Williams, A. C.; Pall, H. S.; Ramsden, D. B.  
Synthesis and investigation of bovine plasma amine oxidase inhibitory properties of analogs of the neurotoxin N-methyl-4-phenyl-1,2,3,6-tetrahydropyridine. 335
- Bhuiyan, A. K. M. J.**  
—; Bartlett, K.  
Reverse-phase high-performance liquid chromatographic analysis of short-, medium- and long-chain acylcarnitines in urine and plasma. 796
- Bickle, T. A.** See Price, C.
- Biggins, J. A.** See McDermott, J. R.  
—; McDermott, J. R.; Lauffart, B.; Mantle, D.  
High M<sub>r</sub> multicatalytic peptidases in human and rat brain. 852
- Billett, M. A.** See Blanchard, A. D.; Ryan, A. J.
- Birch, N. J.** See Hughes, M. S.; Partridge, S.; Thomas, G. M. H.; Wilson, A. S.
- Birchall, J. D.** See Heywood, B. R.
- Bird, I. M.**  
—; Lightly, E. R. T.; Walker, S. W.; Williams, B. C.  
Adrenaline and angiotensin II stimulate steroidogenesis in cultured bovine adrenal zona fasciculata/reticularis cells through two independent second messenger systems. 983
- Bird, S. J.**  
—; Forster, S.; Lloyd, J. B.  
Mechanism of dipeptide translocation across the lysosome membrane. 42
- Bitensky, L.** See Roberts, J. A.
- Bittles, A. H.** See Monks, N. J.
- Bjaaland, T.**  
—; Jones, P. M.; Howell, S. L.  
Arginine-induced glucagon secretion from electrically permeabilized islets of Langerhans. 1017
- Black, D.**  
—; Robins, S. P.; Duncan, A.; Marabani, M.  
Analysis by high performance liquid chromatography of two hydroxypyridinium cross-links of collagen in urine as indexes of disease activity in rheumatoid arthritis. 817
- Black, F. M.**  
—; Wakelam, M. J. O.  
Desensitization of prostaglandin F<sub>2</sub><sub>a</sub>-stimulated inositol phosphate generation in ras-transformed cells. 990
- Blackburn, G. M.** See Taylor, G. E.
- Blair, G. E.** See Ackrill, A. M.; Griffiths, S. A.  
Analysis of recombinant plasmids containing cloned viral genes by agarose gel electrophoresis and restriction endonuclease digestion. 763
- ; Sawecka, J.; Griffiths, S. A.; Zajdel, M. E. B.  
Biosynthesis of 2',3'-cyclic nucleotide 3'-phosphodiesterase (Wolfgram proteins) in rat brain and glioma cells. 212
- Blake, N. W.** See Porter, C. D.
- Blanchard, A. D.** See Ryan, A. J.  
—; Billett, M. A.  
Analysis of ubiquitinylated nuclear proteins using specific antibodies. 1059
- Blundell, T. L.** See Thornton, J. M.
- Bolton, A. E.** See Fairclough, A. C.; Lea, R. G.; Pockley, A. G.
- Bolton, T. B.**  
—; MacKenzie, I.; Aaronson, P. I.; Lim, S. P.  
Calcium channels in smooth muscle cells. 492
- Bomford, A.** See Ward, R. J.
- Bond, P.** See Scragg, A. H.
- Bone, E. A.** See Best, L.  
—; Best, L.; Tomlinson, S.  
Nutrient stimuli enhance the turnover of GTP in rat pancreatic islet cells. 809
- Bonser, N.** See Middleton, A.
- Boobis, A. R.** See Freeman, A.; Murray, B. P.; Nasseri-Sina, P.; Rich, K. J.
- Booth, A. G.**  
—; Parish, J. H.; Smith, K. R.  
Use of computers for tutorial and simulation in teaching molecular biology. 764
- Booth, R. F. G.** See Gladwin, A. M.
- Bootman, M. D.** See Tones, M. A.
- Borlakoglu, J. T.**  
—; Dils, R. R.; Edwards-Webb, J. D.; Walker, C. H.  
Changes in fatty acid desaturase activity and of arachidonate in proliferating endoplasmic reticulum of pigeon and rat liver in response to polychlorinated biphenyls. 1072
- Born, G. V. R.** See Briggs, A. D.; Lenardon, C. L.

- Bosch, M.**  
—; Trombetta, S.; Parodi, A. J.  
Synthesis of dolichol derivatives and protein glycosylation in trypanosomatids. 268
- Botham, K. M.** See Sutton, C. M.
- Bottomley, R.** See Malik, Z.
- Bowen, D. M.** See Palmer, A. M.
- Bown, K.** See Spencer, P.
- Box, R. J.**  
—; Portenier, M.; Staehelin, M.  
Evidence that in S49 cells  $\beta$ -adrenergic receptor internalization is not directly involved in the desensitization of adenylate cyclase. 308
- Boyce, S. J.**  
—; Mantle, T. J.  
Immunocytochemical localization of glutathione S-transferase subunits in rat brain. 386
- Boyd, R. S.**  
—; Wallis, M.  
G-proteins and the control of prolactin and growth hormone secretion. 887
- Boyhan, A.**  
—; Brown, P.; Lydon, J.; Dobson, A. D. W.; Headon, D. R.  
A 65 kDa inhibin from bovine follicular fluid. 212
- Bradbury, J. M.**  
—; Edwards, P. A. W.  
Use of a retrovirus vector system to study the effect of v-fos on a mammary epithelial cell line. 1019
- Bradbury, N. A.** See Shori, D. K.
- Bradford, H. F.** See Watton, J.
- Bradley, B. A.** See Kumpel, B. M.
- Bradley, J. G. M.**  
—; Cotter, T. G.  
NB-1, a monoclonal antibody which inhibits [<sup>3</sup>H]thymidine uptake by stimulated lymphocytes. 383
- Brain, A. I. J.** See Wali, F. A.
- Brammer, M.**  
—; Sardiwal, S.; Weaver, K.  
Depolarization enhances carbachol-stimulated polyphosphoinositide breakdown in rat cortical synaptosomes. 320
- Brand, M. D.** See Quant, P. A.
- Brearley, C. A.**  
—; Lloyd, A. W.; Hodges, N. A.; Olliff, C. J.  
A comparative study of the cryopreservation of human erythrocytes, ghosts and liposomes. 354
- Breathnach, S. M.**  
Epidermal cytokines. 677
- Bremner, I.** See Morrison, J. N.
- Briggs, A. D.** See Lendon, C. L.  
—; Burleigh, M. C.; Lendon, C. L.; Born, G. V. R.; Davies, M. J.  
Biochemical analysis of individual atherosclerotic plaque caps to investigate susceptibility to rupture. 1033
- Brindley, D. N.**  
What factors control hepatic triacylglycerol accumulation in alcohol abuse? 251
- Bristow, H.**  
—; O'Neill, K.; Hannigan, B. M.; McKenna, P. G.  
Leakage of thymidine kinase from proliferating cells. 55
- Brojer, E.** See Merry, A. H.
- Brooks, S. T.**  
—; Garner, G. V.; Gordon, D. B.; Marsh, M. N.; Pearson, D. J.  
Application of preparative isoelectric focusing for the isolation of homogeneous  $\alpha$ -gliadins. 748
- Brooksbank, R. A.** See Jackson, P. J.
- Brown, G.** See French, P. J.
- Brown, J. C. C.** See Bell, J. D.
- Brown, J. T.** See Charlwood, B. V.
- Brown, M. C. S.**  
—; Lunt, G. G.; Stapleton, A.  
Further characterization of the binding site for [<sup>35</sup>S]t-butylbicyclicophosphorothionate in locust ganglia membranes. 475
- Brown, P.** See Boyhan, A.
- Brown, P. D.**  
—; Case, R. M.; Donohue, M.; Elliott, A. C.; Lau, K. R.  
A rise in intracellular calcium is not by itself sufficient signal to trigger the acetylcholine-induced intracellular acidosis in rabbit mandibular salivary gland acinar cells. 993
- Brown, S. J.**  
Adenosine and ATP: presynaptic effects at the cholinergic nerve terminal. 442
- Brozovich, F. V.** See Morgan, K. G.
- Bruckdorfer, K. R.** See Dunn, R. C.
- Brugge, M.** See Walker, M. R.
- Brunt, R. V.** See Sharif, M. A.
- Buchanan, C.** See Yahya, Z. A. H.
- Buehne, S.** See Kunau, W. H.
- Bunce, C. M.** See French, P. J.
- Bungard, S. J.** See Smith, L. D.
- Bunn, D. N.**  
—; Smith, P. E.  
Developments in biochemistry in applied biology degrees. 587
- Burch, A. M.**  
—; Rigby, S. E. J.; Funk, W.; Macgillivray, R. T. A.; Mauk, A. G.; Mauk, M.; Moore, G. R.  
A carbon-13 nuclear-magnetic-resonance investigation of the interaction between cytochrome c and cytochrome b<sub>5</sub>. 844
- Burchell, B.** See Coughtrie, M.
- Burdon, J.** See Bhatti, A. R.
- Burgess, A. J.**  
—; Norman, R. I.  
Characterization of calcium channel subunit. 452
- Burke, A. B.**  
—; Huckle, K. R.; Millburn, P.  
Comparative fate of 2-phenylododecane in rat and rainbow trout. 25
- Burke, M. D.** See Doostdar, H.
- Burleigh, M. C.** See Briggs, A. D.; Lendon, C. L.
- Burnet, F.** See Disney, G.; Spencer, S.
- Burton, D. R.** See Dransfield, I.; Walker, M. R.  
Molecular basis of antibody effector function. 953
- Bust, C.** See Barth, P. T.
- Butterworth, P. J.** See Jahan, M.; Nakagawa, T.  
—; Jahan, M.  
Adjustment to inorganic phosphate depletion of the sodium-inorganic phosphate co-transporter of mouse proximal tubule cells. 353
- Buttery, P. J.** See Withers, R. M.
- Byfield, P. G. H.**  
—; Coping, S.; Conway, E.  
Remazol Yellow GGL binding to prealbumin requires an anion. 603
- Byrne, D.**  
—; Hussey, C.; McLoughlin, A. J.  
The effect of reactor configuration on plasmid loss. 193
- Campbell, G.** See Hesketh, J.
- Campbell, I. C.** See Weaver, K.
- Campbell, I. D.** See King, G. F.; Odoom, J. E.
- Campbell, S.** See Thornton, J. M.
- Carafoli, E.**  
Calcium homeostasis in excitable cells. 519
- Carbonnelle, V.**  
—; Wattiaux, R.; Wattiaux-De Coninck, S.  
Plasma membrane of normal and ischemic rat liver. 537
- Carreira, C.** See Arden, G. B.
- Carey, E. M.**  
—; Reynolds, R.; Herschkowitz, N.  
Expression of 2',3'-cyclic nucleotide 3'-phosphohydrolase and myelin basic protein, and formation of oligodendrocytes in mixed glial cultures maintained in a defined medium. 900
- Carey, F.** See Creba, J. A.  
—; Das, A. M.; Haworth, D.; Heron, J. R. M.  
Activation of protein kinase C in the development of experimental hyperalgesia. 818
- Carr, G.**  
—; Ferguson, S. J.  
Nitric oxide reductase of *Paracoccus denitrificans*. 187
- Carr, V. J.** See Masters, D. J.
- Carroll, K.**  
—; O'Kennedy, R.  
Interference effects from Nonidet P-40 and urea in the Bradford protein assay. 382
- The use of Balb/c mice for the elimination of mycoplasma from infected hybridomas. 398
- Carson, M. A.** See Conneely, O. M.
- Carter, N.**  
—; Jeffery, S.; Nieminen, P.; Lindros, K.  
Expression of glutamine synthetase and carbonic anhydrase in isolated periportal and perivenous hepatocytes. 572
- Carville, D.** See Eason, S.
- Casciano, C.**  
—; Bennun, A.  
A characterization of two inhibitors of proton-potassium ATPase in gastric tissue. 27
- Case, R. M.** See Brown, P. D.
- Casella, L.**  
—; Gullotti, M.; Pallanza, G.  
Model mono-oxygenase reaction by binuclear copper(I) complexes involves an oxygen protonated intermediate. 821
- Casey, A. D.** See Corfield, A. P.
- Cassaigne, A.** See Darriet, M.
- Castell, J. V.**  
—; Guillen, M. I.; Marco, V.; Menendez, R.; Nauffal, D.; Gomez-Lechon, M. J.  
Presence of fibronectin fragments in bronchoalveolar lavages: an immunoblotting study. 378
- Castell, S. E.**  
—; Halford, S. E.  
The role of DNA supercoiling in site-specific recombination by Tn21 resolvase. 760
- Castro, J.** See Guzman, M.
- Causey, A. G.** See Bartlett, K.
- Cavill, I.** See Houston, T.
- Challiss, R. A. J.** See Leighton, B.
- Chalmers, R. A.** See Davies, S. E. C.; Mistry, J.; Tracey, B. M.
- Chalmers, R. M.**  
—; Fewson, C. A.  
Quantitative immunoblotting in the study of bacterial evolution. 153

- Chambers, T. J.** See Hayman, A. R.  
**Chan, M.** See Marston, F. A. O.  
**Chan, S. L. F.**  
 —; Hurst, R. D.; Morgan, N. G.  
   Effects of  $\alpha$ -adrenergic antagonists  
   on insulin secretion from rat pancreatic islets. 1005  
**Chandler, J.** See Lace, D.  
**Chang, C. N.** See Hitzeman, R. A.  
**Chantry, A.**  
 —; Glynn, P.  
   Characterization of a neural proteinase which may play a key role in demyelinating disease. 469  
**Chapman, J.** See Michaelson, D. M.  
**Chapman, J. A.** See Murphy, J. A.  
**Charalambous, B. M.** See McPherson, M. J.  
 —; McPherson, M. J.  
   Multimolecular organization of the bacterial enzyme pullulanase. 722  
**Charlier, P.** See Frere, J. M.  
**Charwood, B. V.**  
 —; Brown, J. T.  
   The accumulation of mono- and sesquiterpenes in plant cell cultures. 61  
**Chayen, J.** See Roberts, J. A.  
**Chazot, P. L.** See Williamson, R. A.  
**Chegwidden, W. R.** See Shelton, J. B.; Spencer, I. M.  
 —; Walz, D. A.; Hewett-Emmett, D.; Tashian, R. E.  
   Active-site modification of chicken carbonic anhydrase III. 974  
**Chelliah, J.**  
 —; Baum, H.  
   An improved immunoblotting protocol for the characterization of mitochondrial antigens. 53  
   Distinguishing antigenic and non-antigenic peptides by generating two different stains on the same immunoblot. 149  
   Immunoblot peptide mapping – a novel application to explore the relationship between mitochondrial antigens. 151  
**Chen, C. Y.** See Hitzeman, R. A.  
**Cheng, K. N.** See Tracey, B. M.  
**Cheng, S.** See Farooqui, A. A.  
**Chisholm, V.** See Hitzeman, R. A.  
**Chitnavis, B.** See Evans, R. W.  
**Chittcock, R. S.**  
 —; Wharton, C. W.; Austin, J. C.; Hester, R. E.  
   Resonance Raman studies of glyceraldehyde-3-phosphate dehydrogenase. 49  
**Cholewinski, A. J.**  
 —; Wilkin, G. P.  
   Peptide receptors on astrocytes: evidence for regional heterogeneity. 429  
**Christensen, J. R.**  
 —; Smith, G. D.; Peters, T. J.  
   Characterization of the inhibition of endosomal insulin degradation. 574  
   Effect of chloroquine on hepatic insulin-receptor interactions. 1040  
**Christou, G.** See Vincent, J. B.  
**Chu, L.** See Haywood, G. W.  
**Citi, S.** See Cross, R. A.  
**Clamp, J. R.** See Corfield, A. P.  
**Clare, K. A.** See Wessel, W. L.  
**Clark, T. R.**  
 —; Yon, R. J.  
   Partial inactivation of wheat-germ aspartate transcarbamoylase by tetratinomethane. 615  
**Clynes, M.** See Allan, G.  
**Coan, R. M.** See Mall, A. S.  
**Cockcroft, S.** See Stutchfield, J.  
**Cockle, S. M.**  
 —; Smyth, D. G.
- Processing of thyrotropin-releasing-hormone-related peptides in rabbit hypothalamus and prostate.** 784  
**Cohen, G. M.** See Stubberfield, C. R.  
**Coleman, G.** See Al-Ani, B. S. S.; Huntly, P. J.; Sutherland, J. L.  
**Collard, K. J.**  
   Further studies on the mechanism by which extracellular sodium depletion causes 5-hydroxytryptamine release from synaptosomes. 803  
**Collins, P.** See Devery, R.; Lewis, M. J.; Owens, D.  
**Collins, P. B.** See O'Meara, N.  
**Colyer, J.** See Mata, A. M.  
 —; Michelangeli, F.; Lee, A. G.; East, J. M.  
   The mechanism of inhibition of the calcium-magnesium-ATPase by monoclonal antibodies. 967  
**Connolly, O. M.**  
 —; Dobson, A. D. W.; Carson, M. A.; Maxwell, B. L.; Tsai, M. J.; Schrader, W. T.; O'Malley, B. W.  
   Structure-function relationships of the chicken progesterone receptor. 683  
**Converse, C. A.** See Gregory, C. Y.; Shallal, A.  
**Convery, C. M.** See Marshall, T.  
**Conway, E.** See Byfield, P. G. H.  
**Cook, A. J.** See Hurley, P. R.  
**Cook, E. E.** See Preece, J. A.  
**Cook, G. A.** See Kashfi, K.  
**Cook, M.**  
 —; Godenir, N.; Green, F. R.; Stirling, Y.; Meade, T. W.; Humphries, S. E.  
   Genetic variation at the fibrinogen locus is involved in determining fibrinogen levels: evidence from thirteen individuals sampled on repeated occasions. 541  
**Cooke, A. M.** See Taylor, C. W.  
 —; Noble, N. J.; Gigg, R.; Willcocks, A. L.; Strupish, J.; Nahorski, S. R.; Potter, B. V. L.  
   Myo-inositol 1,4-bisphosphate-5-phosphorothioate: chemical synthesis and biochemical properties. 992  
**Cooper, E. H.** See Jackson, P. J.  
**Cooper, P. J.**  
 —; Danpure, C. J.; Wise, P. J.; Guttridge, K. M.  
   Immunoelectron microscopic localization of alanine-glyoxylate aminotransferase in normal human liver and type 1 hyperoxaluric liver. 627  
**Cope, G.** See Divecha, N.  
**Copping, S.** See Byfield, P. G. H.  
**Corcoran, A. E.**  
 —; Smyth, P. P. A.  
   Polyamines as intracellular messengers in the human thyroid. 397  
**Corfield, A. P.**  
 —; Clamp, J. R.; Casey, A. D.; Paraskeva, C.  
   Abnormal secretion of mucus in pre-malignant and malignant human colonic cells. 581  
**Cornwell, T. L.** See Lincoln, T. M.  
**Corser, R.** See Coughtrie, M.  
**Cosstick, R.** See Agathocleous, D. C.  
**Cotes, P. M.** See Tam, R. C.  
**Cotter, T. G.** See Bradley, J. G. M.; Meagher, L. C.  
**Coughtrie, M.**  
 —; Jackson, M.; Harding, D.; Corser, R.; Hume, R.; Burchell, B.  
   Molecular probes for human UDP-glucuronosyltransferases. 157  
**Coward, M.** See Kuchta, R. D.  
**Cox, D. J.** See Preece, J. A.  
 —; Palmer, T. N.  
   The role of skin in glucose disposal on refeeding after starvation. 332
- ; Sugden, M. C.; Palmer, T. N.  
   Ethanol and glucose disposal in the rat. 247  
**Cramb, G.** See Rugg, E. L.  
**Cranmer, S.** See Jefferis, R.  
**Craven, R. P.** See Martin, B. T.  
**Creba, J. A.** See French, P. J.  
 —; Carey, F.; McCulloch, A.  
   Metabolism of inositol 1-phosphate in HL60 cells. 557  
**Crescenzi, K. L.**  
 —; Foster, K. A.; Williams, A. J.  
   The effect of corticosteroids on the incorporation and stimulated release of arachidonic acid in human leukocytes. 279  
**Cresswell, R. C.** See Scragg, A. H.  
**Crompton, M. R.** See Moss, S. E.  
**Cross, A. J.** See Stirling, J. M.  
**Cross, A. R.**  
 —; Yea, C. M.; Jones, O. T. G.  
   Inhibition of superoxide generation by phagocytic leukocytes. 888  
**Cross, G. A. M.** See Menon, A. K.  
**Cross, R. A.**  
 —; Citi, S.; Kendrick-Jones, J.  
   How phosphorylation controls the self-assembly of vertebrate smooth and non-muscle myosins. 501  
**Crossman, A. R.** See Augood, S. J.  
**Crouzet, M.** See Tuite, M. F.  
**Crumpton, M. J.** See Moss, S. E.  
**Cunha, G. R.** See Higgins, S. J.  
**Cunliffe, W. J.** See Holland, D. B.; Kluznik, A. R.; Raxworthy, M. J.  
**Curtis, C. G.** See Richards, S.  
**Curtis, R.** See Hussain, A. A.  
**Cuthill, S.** See Denis, M.  
**Cutler, Rob. L.** See Davies, A. M.  
**Czichos, J.**  
 —; Ehlers, B.; Overath, P.  
   Regulation of variant surface glycoprotein synthesis in Trypanosoma brucei. 261
- Dalgleish, R.**  
   Collagen gene structure. 661  
**Daly, M.** See Ball, R.  
 —; O'Meara, A.; Murphy, G.; Hallinan, F.  
   Plasma protein analysis by immunoblotting. 140  
**Daly, R. J.**  
 —; Manning, D. L.; Green, C. D.  
   Estrogen regulated mRNAs in the ZR-75-1 human breast cancer cell line. 169  
**Danpure, C. J.** See Cooper, P. J.; Mistry, J.  
**Danson, M. J.** See Smith, L. D.  
   Dihydrolipoamide dehydrogenase: a 'new' function for an old enzyme? 87  
**Dark, C. H.** See Wali, F. A.  
**Darlison, M. G.** See Marshall, J.  
**Darriet, M.** See Lacoste, A. M.  
 —; Basurko, M. J.; Cassaigne, A.  
   Interaction of phosphonic substrate analogs with aspartate aminotransferase. 611  
**D'Arrigo, C.** See Ferro, V.  
**Das, A. M.** See Carey, F.  
**Das, I.** See Janah, S.  
 —; De Belleruche, J.; Hirsch, S.  
   Thrombin-induced formation of inositol phosphates by human neutrophils. 280  
**Davies, A. M.**  
 —; Cutler, Rob. L.; Smith, M.; Mauk, A. G.; Thurgood, A. G. P.; Moore, G. R.  
   Structure of yeast iso-1-cytochrome c in which arginine-38 is replaced by alanine-38. 844

- Davies, D. S.** See Murray, B. P.; Nasser-Sina, P.; Rich, K. J.
- Davies, M. J.** See Briggs, A. D.; Lenardon, C. L.
- Davies, P.** See France, T. D.  
—; Rushmere, N. K.  
Regulatory regions of androgen-responsive genes. 695
- Davies, S. E. C.**  
—; Chalmers, R. A.; Woolf, D. A.; Iles, R. A.  
Betaine metabolism in the human neonate. 788
- Davies, T. G. E.**  
—; Thomas, H.; Rogers, L. J.  
Catabolism of cytochrome f in a senescence mutant of *Festuca pratensis*. 1054
- Davis, B.** See Fairclough, A. C.; Hughes, G. M.
- Davis, G.** See Ryan, J. P.
- Davis, J. R.**  
—; Lee, E. Y. C.; Palmer, T. N.  
Protein dephosphorylation and hepatic glycogen synthesis from gluconeogenic precursors. 579
- Davis, P. D.**  
—; Nixon, J. S.; Wilkinson, S. E.; Russell, M. G. N.  
Inhibition of phospholipase A<sub>2</sub> by some long chain alkylamines. 816
- Dawes, E. A.** See Haywood, G. W.
- Dawes, N. J.** See McCormack, J. G.
- Day, I. N. M.** See Hooper, C. M.  
Molecular analysis of two general markers of neurons and the diffuse neuroendocrine system: neuron-specific enolase and PGP9.5. 454  
—; Allsopp, M. T. E. P.; Moore, D. C. M.; Thompson, R. J.  
Aspects of the higher order structure of the human neuronal marker PGP9.5, and of its structural gene. 323
- Day, P.** See Shaw, W. V.
- Day, P. J.**  
—; Lewendon, A.; Shaw, W. V.  
Coenzyme-A-binding site of chloramphenicol acetyltransferase. 715
- Dean, C. J.** See Tuzi, N. L.
- De Belleroche, J.** See Das, I.; Rattray, M.; Reed, L. J.
- Deegan, J.** See King, G. F.
- De Gier, J.**  
The use of liposomes in the search for an understanding of the significance of membrane lipid diversity. 912
- De la Garza, M.** See Kunau, W. H.
- De la Torre, R.** See Murray, B. P.
- Delgado, C.**  
—; Francis, G. E.; Fisher, D.  
Immunoaffinity cell partitioning of erythrocytes. 968
- De Meester, I.** See Hendriks, D.
- Dempsey, T.** See Jones, S. A.
- Denis, M.**  
—; Wikstroem, A. C.; Cuthill, S.; Joernvall, H.; Gustafsson, J. A.  
Interaction of the glucocorticoid receptor with the M<sub>r</sub> ≈ 90 000 heat shock protein. 688
- Denton, R. M.** See McCormack, J. G.; Rutter, G. A.; Tavare, J. M.
- De Nucci, G.**  
Eicosanoids and skin. 680
- Depledge, M.**  
—; Rowling, P. J. E.; Raxworthy, M. J.  
The effect of mitomycin-C on dermal equivalent contraction by mouse 3T3 fibroblasts. 328
- Desai, K.**  
—; Owen, J. S.  
Human platelets bind the apolipoprotein E (apo-E)-rich subclass of plasma high-density lipoproteins, HDL-E. 154
- Devery, R.**  
—; Kesserwani, H.; O'Meara, N.; Owens, D.; Collins, P.; Johnson, A.; Tomkin, G.  
Effect of chemical sympathectomy on cholesterol metabolism in rabbits. 201
- Diaz-Mayans, J. J.** See Almar, M. M.
- Dickens, M.** See Tavare, J. M.
- Dickinson, F. M.** See Hill, J. P.
- Dickson, A. J.** See Fisher, M. J.
- Dickson, D. P. E.** See Ward, R. J.
- Dickson, G.** See Barton, C. H.
- Dideberg, O.** See Frere, J. M.
- Di Gleria, K.** See Bagby, S.
- Dils, R. R.** See Borlakoglu, J. T.
- Di Marzo, V.** See Garlick, P. B.
- Disney, G.**  
—; Tarbit, M. H.; Burnet, F.  
Rat ovarian and human placental aromatases display different sensitivities to inhibition by ketoconazole. 29
- Distefano, M.** See Walsh, C.
- Divecha, N.**  
—; Peat, D.; Mansouri, H.; Cope, G.; McDonald, C. J.  
Processing of tissue proline-rich proteins after secretion from mouse parotid glands. 798
- Dobson, A. D. W.** See Boyhan, A.; Conneely, O. M.
- Docherty, M.** See Watton, J.
- Dolly, J. O.** See Ashton, A. C.; Wadsworth, J. D. F.
- Donnelly, W.** See Mehra, R.
- Donohue, M.** See Brown, P. D.
- Dooley, M.** See Allan, G.
- Doostdar, H.**  
—; Melvin, W. T.; Burke, M. D.; Grant, M. H.  
Mixed function oxidation in human HEP G2 hepatoma cells. 801
- Doran, M.**  
—; Reen, D. J.  
Analysis of complement activation products in biological fluids using polyacrylamide gel electrophoresis. 160
- Dorey, C.**  
—; Simpson, R. J.; Willson, R.; Peters, T. J.  
Use of irradiation inactivation to investigate intestinal iron absorption by isolated brush-border vesicles in vitro. 832
- Dormer, R. L.** See Shori, D. K.
- Dorr, A. W.**  
—; Grob, R.; Nicholls, I.; Stace, B. C.; Winkler, M. A.; Wiseman, A.; Underwood, B.  
The effect of oxygen on the production of cytochrome P-450 by *Saccharomyces cerevisiae*. 370
- Doshi, M.** See Hussain, A. A.
- Douglas, A. J.** See Beattie, R. E.  
—; Mulholland, G.; Walker, B.; Guthrie, D. J. S.; Elmore, D. T.; Murphy, R. F.  
The preparation of a C-terminal gastrin peptide containing a synthetic B-bend mimetic. 175
- Doyle, E. M.**  
—; Yasui, A.; Walker, B.; Magee, D. F.; Murphy, R. F.  
Preparation and biological activity of indole-3-propionyl-L-leucyl-L-aspartyl-phenethylamide: a C-terminal gastrin analog. 628
- Dowbenko, D.** See Hitzeman, R. A.
- Doyle, E. M.**  
—; Kelly, C. T.; Fogarty, W. M.  
The amylolytic enzymes of *Penicillium amagasakiense*. 181
- Dransfield, I.**  
—; Moir, A. J. G.; Sheth, B.; Burton, D. R.; Partridge, L. J.  
Initial characterization of an anti-acitin monoclonal antibody (NH3). 163
- Drasar, B. S.** See Miller, C. J.
- Draye, J. P.** See Van Hoof, F.
- Drew, C.** See Fletcher, E. J.
- Drobiewski, F. A.**  
—; Ellar, D. J.  
Toxin-membrane interactions of *Bacillus thuringiensis* δ-endotoxins. 39
- Duane, P.** See Peters, T. J.
- Duane, P. D.** See Ward, R. J.
- Duffy, M. J.** See Simon, J. M.
- Dunbar, B.** See McAleese, S. M.
- Duncan, A.** See Black, D.
- Duncan, C. J.** See McCall, K. E.; Shamsadeen, N.
- Dunkley, P. R.** See Thorne, B.
- Dunlop, J.** See Grieve, A.
- Dunn, M.** See King, D. J.
- Dunn, P. P. J.** See Gray, J. C.
- Dunn, R. C.** See Miles, C. M. M.; Schachter, M.; Miles, C. M. M.; Feher, M. D.; Bruckdorfer, K. R.; Sever, P. S.  
Low density lipoproteins increase intracellular calcium in human platelets. 287
- Duty, S.**  
—; Weston, A. H.  
The biochemical regulation of potassium channels. 532
- Dwek, R. A.** See Ferguson, M. A. J.
- Dyer, T. A.** See Gray, J. C.
- Eady, R. R.** See Barker, P. D.
- Earl, C.** See Macdonald, A. G.
- Eason, S.**  
—; Carville, D.; Strain, J. J.; Hannigan, B. M.  
The influence of dietary carbohydrate on antibody-mediated immunity in copper deficiency. 54
- East, J. M.** See Colyer, J.; Mata, A. M.
- Eaton, C. L.** See France, T. D.
- Eaton, S. J.** See Tezapsidis, N.
- Eccles, C. J.** See Gray, J. C.
- Edwards, H. C.** See Moss, S. E.
- Edwards, K.** See Ashton, A. C.
- Edwards, P. A.** See Preedy, V. R.
- Edwards, P. A. W.** See Bradbury, J. M.
- Edwards-Webb, J. D.** See Borlakoglu, J. T.
- Ehlers, B.** See Czichos, J.
- Ekins, R. P.** See Ruiz de Elvira, M. C.
- Elder, G. H.** See Llewellyn, D. H.
- El Jamil, A. S.** See Salim, M. L.
- Ellar, D. J.** See Drobiewski, F. A.
- Elliott, A. C.** See Brown, P. D.
- Elliott, G. E. P.**  
The place of biochemistry in courses in physical sciences. 508
- Elliott, R. J.** See McGrath, L. T.
- Ellis, R. J.**  
—; Robinson, C.; Van der Vies, S. M.; Kirwin, P. M.  
Processing and assembly of chloroplast proteins. 703
- Ellory, J. C.** See Barker, G. A.; Hall, A. C.; Harvey, C. M.; Odoom, J. E.
- Ellul, H.** See Armstrong, F. A.
- Elmore, D. T.** See Backwell, F. R. C.; Beattie, R. E.; Douglas, A. J.
- Elmore, M.** See Lynskey, E.
- Elmore, M. A.**  
—; O'Cuinn, G.

- On the subcellular location of particulate luliberinase activity in guinea pig brain. 209
- El-Saleh, S. C.** See Hong, H.
- Emson, P. C.** See Augood, S. J.; Seto—Oshima, A.
- Endre, Z. H.** See Allis, J. L.
- ; Allis, J. L.; Ratcliffe, P. J.; Ledington, J. G. G.; Radda, G. K.
- Nuclear magnetic resonance studies of rubidium-87(+) transport in perfused rat kidney. 596
- Engel, P. C.** See Lilley, K. S.
- England, P. J.** See Murray, K. J.; Unitt, J. F.
- A comparison of the regulation of vascular and cardiac muscle. 503
- Etcheverry, T.** See Hitzeman, R. A.
- Etherington, D. J.** See Maciewicz, R. A.
- Evans, C. W.** See Ferro, V.
- Evans, R. W.** See Lindley, P. F.
- ; Meilak, A.; Aitken, A.; Patel, K. J.; Wong, C.; Garratt, R. C.; Chitnavis, B.
- Characterization of the amino acid change in a transferrin variant. 834
- ; Ogwang, W.
- Interaction of indium with transferrin. 833
- Evanson, J. M.** See Taylor, D. J.
- Evered, D. F.**
- Some landmarks in the history of transamination in animals. 600
- Fabregat, I.** See Lorenzo, M.
- Fagan, T.**
- ; Mayhew, S. G.
- Effects of mercurials on hydrogenase from *Desulfovibrio vulgaris* (Hildenborough). 178
- Fairbrother, W. J.**
- ; Hall, L.; Littlechild, J. A.; Walker, P. A.; Watson, H. C.; Williams, R. J. P.
- Probing the 3-phosphoglycerate-binding site of yeast phosphoglycerate kinase using site-specific mutants and proton nuclear magnetic resonance spectroscopy. 724
- Fairclough, A. C.**
- ; Davis, B.; Johnson, D.; Loxley, P.; Mills, J.; Bolton, A. E.
- Benekean natriogens as an ideal organism for teaching basic microbial physiology in schools. 767
- Fallowfield, C.**
- ; Lawrie, K. W. M.; Saunders, D.; Ife, R. J.; Keeling, D. J.
- Photoaffinity inactivation of the gastric (proton-potassium)-ATPase at a site involved in ion translocation. 823
- Farooqui, A. A.**
- ; Cheng, S.; Rammohan, K.; Kolatkudury, P.; Horrocks, L. A.
- Purification, characterization and cDNA cloning of bovine brain diacylglycerol lipase. 293
- Farouque, S. M.**
- ; Antoniou, M.; Skidmore, C. J.
- The fine structure of the mouse  $\alpha_1$ -casein gene. 624
- ; Skidmore, C. J.
- Transcription unit of the mouse  $\alpha_1$ -casein gene. 1064
- Faulkner, A.**
- ; Pollock, H. T.
- Interregulation of volatile and long-chain fatty acid metabolism in ovine hepatocytes. 203
- Pathways of propionate metabolism to glucose in ovine hepatocytes. 204
- Faure, F.** See Pauplin, Y.
- Fawcett, J.**
- ; Smith, G. D.; Peters, T. J.
- Ethanol inhibits endocytosis of insulin in perfused rat liver. 573
- Effect of fasting on the hepatic processing of insulin. 1041
- Feher, M. D.** See Dunn, R. C.
- Feizi, T.**
- Oligosaccharides in molecular recognition. 930
- Fennelly, J.** See Lannon, B.
- Ferguson, M. A. J.**
- ; Homans, S. W.; Dwek, R. A.; Rademacher, T. W.
- The glycosylphosphatidylinositol membrane anchor of *Trypanosoma brucei* variant surface glycoprotein. 265
- Ferguson, S. J.** See Carr, G.; McEwan, A. G.
- Ferguson-Smith, M. A.** See Stefani, L. A. J.
- Ferrando, M. D.** See Almar, M. M.
- Ferrero, M. E.**
- ; Marni, A.; Gaja, G.
- Possible enhancement of endothelial cell function induced by defibrotide 540
- Ferrie, R. M.**
- ; Skidmore, C. J.
- Structure and expression of the rabbit  $\beta$ -casein gene. 623
- Ferro, V.**
- ; D'Arrigo, C.; Ogden, D.; Evans, C. W.
- Blotting analysis of adhesive proteins: an evaluation of the technique using B16F 10 malignant melanoma cells. 144
- Fewson, C. A.** See Baker, D. P.; Chalmers, R. M.
- Figueiredo, H.** See Malcolm, A. D. B.
- Fincham, D. A.**
- ; Mason, D. K.; Kwong, F. Y. P.; Young, J. D.
- Harmaline inhibition of amino acid transport in human and in horse erythrocytes. 567
- Fish, N. M.**
- ; Hoare, M.
- Recovery of protein inclusion bodies. 102
- Fisher, D.** See Delgado, C.
- Fisher, M. J.** See Taylor, D. S.
- ; Dickson, A. J.
- Epidermal growth factor mimics the effects of insulin on phenylalanine hydroxylation in isolated liver cells. 897
- Fisher, P. A.**
- ; Smith, D. E.
- Affinity purification of antibodies using antigens immobilized on solid supports. 134
- Fitton, J. E.** See Wilson, M. J.
- Fitzgerald, M. X.** See McIlgorm, E. A.; Power, C.
- Fitzpatrick, S. C.**
- ; McKenna, T. J.
- Dopamine inhibits aldosterone biosynthesis in vitro. 387
- Fitzsimons, E. J.** See Houston, T.
- Flavell, K. J.** See Hughes, M. S.
- Flecknell, P. A.** See Kozlowski, U. M.
- Fletcher, E. J.**
- ; O'Shaughnessy, C. T.; Drew, C.; Zeman, S.; Lodge, D.
- Effects of phenacyclidine-like drugs on rubidium-86 efflux from rat cortical synaptosomes. 200
- Fogarty, W. M.** See Behan, J.; Doyle, E. M.; Kelly, C. T.; McCarthy, J.; O'Mahony, M. R.
- Folting, K.** See Vincent, J. B.
- Ford, G. C.** See Hannon, R. A.; Smith, J. M. A.
- Forrow, S. M. A.** See Stubberfield, C. R.
- Forster, S.** See Bird, S. J.
- ; Scarlett, L.; Lloyd, J. B.
- Effects of a lysosomotropic detergent on cystinotic fibroblasts. 43
- Foster, J. R.** See Rich, K. J.
- Foster, K. A.** See Crescenzi, K. L.
- Fothergill-Gilmore, L. A.** See McAlleese, S. M.
- Foulds, W. S.** See Gregory, C. Y.
- Fowler, M. W.** See Scragg, A. H.
- Fox, W. R.** See Lindsay, R. M.
- Foxall, P. A.** See Miller, C. J.
- Fraher, J.** See Manning, J. M.
- France, T. D.**
- ; Phillips, M. E. A.; Eaton, C. L.; Davies, P.
- Regulation of prostatic growth. 389
- Francis, G. E.** See Delgado, C.
- Francis, P. T.** See Palmer, A. M.
- Freedman, R. B.** See Barth, P. T.; Paver, J. L.; Sugrue, R.; Wilson, M. J.
- ; Hawkins, H. C.; Murant, S. J.; Reid, L.
- Protein disulfide-isomerase: a homolog of thioredoxin implicated in the biosynthesis of secretory proteins. 96
- Freeman, A.**
- ; Boobis, A. R.; Gooderham, N. J.
- Hepatotoxicity of carbon tetrachloride: protection by pretreatment of mice with polyribonucleic acid-polyribocytidyl acid. 632
- French, P. J.**
- ; Bunce, C. M.; Brown, G.; Creba, J. A.; Michell, R. H.
- Inositol phosphates in growing and differentiating HL60 cells. 985
- French, R. C.**
- ; Herbert, K. E.; Scott, D. L.; Perrett, D.
- Effect of penicillamine on luminol-dependent chemiluminescence in human leukocytes. 891
- French, T. J.** See Sugden, M. C.
- Frere, J. M.**
- ; Joris, B.; Dideberg, O.; Charlier, P.; Ghysen, J. M.
- Penicillin-recognition enzymes. 934
- Frerman, F. E.**
- Acyl-CoA dehydrogenases, electron transfer flavoprotein and electron transfer flavoprotein dehydrogenase 416
- Freshney, R. I.** See Woods, M. D.
- Fuller, B. J.** See Horton, R. A.
- Funk, W.** See Burch, A. M.
- Gabbott, P. A.**
- Core biochemistry required for the biological sciences undergraduate. 511
- Gacesa, P.** See Lace, D.
- Gaja, G.** See Ferrero, M. E.
- Gallione, A. G.**
- ; Berridge, M. J.
- Pharmacological modulation of oscillations in the blowfly salivary gland 988
- Gallagher, T. F.** See Harmey, J.
- Galpin, I. J.** See Agathocleous, D. C.
- Galt, J.** See Stefani, L. A. J.
- Gang, K. A.**
- ; Huggins, J. P.
- Characterization of membrane fractions produced from pulmonary artery by two methods which separate sarcolemma from sarcoplasmic reticulum. 356

- Gannon, F.** See Keaveney, M.; Nestor, P.
- Garcia, M. L.** See Kaczorowski, G. J.
- Garcia Martinez, P.** See Livingstone, D. R.
- Gardiner, R. M.** See Kasanicki, M. A.
- Gariani, L. S.**
- ; Malthouse, J. P. G.
- Biosynthesis of isotopically enriched L-serine. 179
- Garlick, P. B.**
- ; Mashiter, G. D.; Di Marzo, V.; Tippins, J. R.; Morris, H. R.; Maisley, M. N.
- Synthesis, release and action of leu-kotrienes in the isolated rat heart. 361
- Garlick, P. J.** See Preedy, V. R.
- Garner, G. V.** See Brooks, S. T.
- Garratt, R. C.** See Evans, R. W.; Lindley, P. F.
- Garrido, A.** See Bautista, J. M.
- Garton, A. J.** See Small, C. A.
- Gaston, S. J. S.** See Marshall, T.
- Gehl, K. A.** See Hall, A. C.
- George, S. J.** See Armstrong, F. A.
- Gerhart, M. J.** See Reed, B. Y.
- Gershoni, J. M.**
- Protein-blot analysis of receptor-ligand interactions. 138
- Guhyes, J. M.** See Frere, J. M.
- Gibbons, W. A.** See Wessel, W. L.
- Gibbs, P. J.** See Preedy, V. R.
- Gibson, A.** See Lauffart, B.
- Gibson, A. M.** See McDermott, J. R.
- Gigg, R.** See Cooke, A. M.
- Gilani, A. H.** See Saeed, S. A.
- Gillies, D. R. B.**
- ; Marshall, R. D.
- Renal osmormodulin: the likely physiological role of Tamm-Horsfall glycoprotein. 547
- Gilliland, D.** See Marshall, T.
- Gitomer, W. L.**
- ; Veech, R. L.
- Effect of acetate on hepatic inorganic ion content. 577
- Gladwin, A. M.**
- ; Ward, J. B.; Martin, J. F.; Booth, R. F. G.
- Inhibition of monocyte chemotaxis by monoclonal antibodies recognizing cell surface differentiation antigens. 966
- Gleeson, M. A.** See Sudbery, P. E.
- Glynn, P.** See Chantry, A.
- Godenir, N.** See Cook, M.
- Godson, C.**
- ; Ryan, M. P.
- Effects of gentamicin on the calcium and polyphosphoinositide metabolism of rat renal brush border membrane vesicles. 213
- Goldberg, A.** See Houston, T.
- Goldfarb, P.** See Jafelice, L. R. S.
- Goldstein, B. M.**
- ; Bell, J. E.; Marquez, V. E.
- Dehydrogenase binding by cofactor analogs. 862
- Gomez-Lechon, M. J.** See Castell, J. V.
- Goodchild, M. G.** See Shori, D. K.
- Goode, A. W.** See Jin, D. Y.; Sugden, M. C.
- Gooderham, N. J.** See Freeman, A.; Watson, H. A.; Woodman, A. C.
- Goodwin, T. W.**
- The origins and development of biochemistry in the U.K. 507
- Gordon, D. B.** See Brooks, S. T.
- Gordon-Weeks, P. R.** See Taylor, J.
- Gore, M.** See Perry, N.; Spencer, P.
- Gorinsky, B.** See Lindley, P. F.
- Goss-Sampson, M. A.**
- ; Muller, D. P. R.
- Studies on the neurochemistry and neurophysiology of experimental vitamin E deficiency. 466
- Goulding, N. J.**
- ; Guyre, P. M.
- Impairment of erythrocyte-antibody rosette formation by human lipocortin 1 on human leukocytes. 730
- Gower, D. B.** See Kwan, T. K.; Renne, P. J.; Watson, D.
- Gower, H. J.** See Barton, C. H.
- Graham, A. M.** See Herrick, A. L.
- Graham, C. A.** See McLean, W. H. I.
- Graham, M. N.**
- ; Mantle, T. J.
- Kinetic properties of a derepressed  $\beta$ -lactamase from Enterobacter cloacae. 404
- Grand, R. J. A.**
- Intracellular calcium receptor mechanisms in muscle and nerve. 520
- Grant, C. M.** See Tuite, M. F.
- Grant, D.**
- ; Long, W. F.; Williamson, F. B.
- Heparans as pericellular antioxidants 977
- A model of calcium-heparin interaction. 1028
- Polystyrene surfaces may require structured water for effective cell adhesion. 1029
- Effect of heparin on dismutation of superoxide ions. 1030
- Grant, D. A. W.** See Sharma, R. J.
- Grant, G.** See Santoro, L. G.
- ; Watt, W. B.; Stewart, J. C.; Bardeoz, S.; Pusztai, A.
- Intestinal and pancreatic responses to dietary soybean (Glycine max) proteins. 610
- Grant, M. E.**
- ; Ayad, S.
- The collagens of skin: structure and assembly. 663
- Grant, M. H.** See Doostdar, H.
- Gray, J. C.**
- ; Dunn, P. P. J.; Eccles, C. J.; Green, R. M.; Hird, S. M.; Hoglund, A. S.; Webber, A. N.; Willey, D. L.; Dyer, T. A.
- The chloroplast genome and the biogenesis of the chloroplast thylakoid membrane. 704
- Green, A. K.** See Taylor, D. S.
- Green, A. R.** See Stirling, J. M.
- Green, C. D.** See Daly, R. J.
- Green, F. R.** See Cook, M.
- Green, R. M.** See Gray, J. C.
- Green, S. R.** See Prescott, C. D.
- Greenidge, E.** See Wali, F. A.
- Gregory, B.** See Allan, G.
- Gregory, C. Y.**
- ; Converse, C. A.; Foulds, W. S.
- Effect of glycosaminoglycans on rod outer segment phagocytosis by retinal pigment epithelium explants 319
- Gregson, N. A.** See Johnson, A. R.
- Greiling, H.** See Stoecker, G.
- Grieve, A.**
- ; Dunlop, J.; Griffiths, R.
- Inhibition of high-affinity synaptosomal uptake of D-aspartate in rat brain by L- and D-enantiomers of excitatory sulfur-containing amino acids. 302
- Griffin, M. M.** See Steven, F. S.
- Griffiths, J. R.** See Stubbs, M.
- Griffiths, R.** See Grieve, A.
- Griffiths, S. A.** See Blair, G. E.
- ; Blair, G. E.
- Immunochemical analysis of myelin proteins of the rat central nervous system. 614
- Grob, R.** See Dorr, A. W.
- Gruetter, M. G.** See Priestle, J. P.
- Guern, J.** See Renaudin, J. P.
- Guest, J. R.** See Andrews, S. C.; Spiro, S.
- Guillen, M. I.** See Castell, J. V.
- Gullick, W. J.** See Tuji, N. L.
- Gullotti, M.** See Casella, L.
- Guo, L. H.** See Barker, P. D.
- Gustafsson, J. A.** See Denis, M.
- Guthrie, D. J. S.** See Douglas, A. J.
- Guttridge, K. M.** See Cooper, P. J.
- Guyre, P. M.** See Goulding, N. J.
- Guzman, M.**
- ; Castro, J.; Maquedaño, A.
- Alteration of hepatic carnitine palmitoyltransferase I activity and sensitivity to malonyl-CoA in adaptation to ethanol consumption. 649
- Haase-Pettingell, C.** See King, J.
- Hadley, A. G.** See Merry, A. H.
- Hahne, S.** See Nilsson, O.
- Haigh, J. R.**
- ; Phillips, J. H.
- Demonstration of a sodium/hydrogen exchange activity in the bovine adrenal chromaffin granule membrane. 595
- Haigh, M.** See Scott, J. E.
- Halestrap, A. P.** See Poole, R. C.
- Halford, S. E.** See Castell, S. E.; Parker, C. N.
- Hall, A. C.**
- ; Gehl, K. A.; Urban, J. P. G.; Ellory, J. C.
- Potassium transport in isolated bovine articular chondrocytes. 637
- Hall, L.** See Fairbrother, W. J.
- Hall, N. A.**
- ; Patrick, A. D.
- Analysis of dolichol-linked oligosaccharides in brains from patients with Batten's disease. 1031
- Hall, R. D.** See Holden, M. A.
- Hallett, M. B.** See Zhang, L.
- Hallinan, F.** See Ball, R.; Daly, M.
- Halpin, C.** See Lord, J. M.
- Hamm, J.**
- ; Scherly, D.; Mattaj, I. W.
- Small nuclear RNA-protein complexes. 943
- Hammer, J. L.** See Zhang, H.
- Han, K. K.** See Pauplin, Y.
- Hanlon, S. E. B.** See Armstrong, F. A.
- Hann, A. C.** See Lace, D.
- Hannigan, B. M.** See Bristow, H.; Eason, S.
- Hannon, R. A.**
- ; Ford, G. C.
- Analysis of lattice contacts in protein crystals. 961
- Hanson, P. J.** See Atwell, M. M.; Hatt, J. F.
- Hardcastle, A. J.** See Arden, G. B.
- Harding, C. R.** See Richards, S.
- Harding, D.** See Coughtrie, M.
- Hargreaves, I.** See Spencer, I. M.
- Harkness, R. A.** See Wajner, M.
- Harmer, I.**
- ; Jefferis, R.
- Structural and idiotypic relationships between monoclonal antibodies specific for IgG1 Fc epitopes. 747
- Harmey, J.**
- ; McLoughlin, K.; Gallagher, T. F.
- Photoregulation of transcription of chloroplast genes. 711
- Harmey, M. A.** See Stuart, R. A.
- Harpur, E. S.** See Lazenby, C. M.
- Harrington, M. C.**
- ; Henehan, G. T. M.; Tipton, K. F.
- The interrelationships of alcohol

- dehydrogenase and the aldehyde dehydrogenases in the metabolism of ethanol in liver. 239
- Harrington, M. G.** See Salim, M. L.
- Harrison, L. M.**  
—; Sinnett-Smith, P. A.  
Circulating insulin concentrations and lipogenesis in inbred lines of mice differing in fatness. 1037
- Harrison, P. M.** See Andrews, S. C.; Smith, J. M. A.; Thomas, C. D.
- Harrison, P. R.** See Llewellyn, D. H.
- Harrison, T. J.** See Miller, C. J.
- Hartley, D. L.**  
—; Kane, J. F.  
Properties of inclusion bodies from recombinant Escherichia coli. 101
- Harvey, C. M.**  
—; Ellory, J. C.  
Stoichiometry of taurine transport by the B-system in pigeon erythrocytes. 555
- Harwood, J. L.** See Jones, A. L.; Lewis, R. W.; Walker, K. A.
- Hasnain, S. S.** See Lindley, P. F.
- Hassman, R.** See Stott, D. I.
- Hathaway, D. R.**  
—; Adam, L. P.; Turner, R. C.; Lash, J. A.  
Myosin light chain and heavy chain phosphorylation in smooth muscle: potential regulatory roles for calcium, phospholipids and cyclic nucleotides. 499
- Hatt, J. F.**  
—; Hanson, P. J.  
Novel pathways inhibiting histamine stimulation of the cyclic AMP content of rat isolated parietal cells. 808
- Hawkins, H. C.** See Barth, P. T.; Freedman, R. B.
- Hawsworth, G. M.** See Pennington, J.
- Haworth, D.** See Carey, F.
- Hawthorne, J. N.**  
Phosphoinositides and metabolic control: how many messengers. 657
- Hayashi, M.** See Hunt, A.
- Hayes, L. J.**  
—; Wright, D. J. M.; Archard, L. C.  
Segmented genome of *Borrelia dutomii*. 544
- Hayman, A. R.**  
—; Warburton, M. J.; Chambers, T. J.  
Characterization of an acid collagenase from human osteoclastomas. 1064
- ; Warburton, M. J.; Pringle, J. A. S.; Chambers, T. J.  
Tartrate-resistant acid phosphatase. Purification and characterization of the human osteoclastoma enzyme. 895
- Haynes, N. B.** See Withers, R. M.
- Hayre, M. D.** See Richards, R. L.
- Hayter, A. P.** See Wali, F. A.
- Haywood, G. W.**  
—; Anderson, A. J.; Chu, L.; Dawes, E. A.  
Accumulation of polyhydroxyalcanoates by bacteria and the substrate specificities of the biosynthetic enzymes. 1046
- Headon, D. R.** See Allan, G.; Boyhan, A.; Power, R. F.
- Heffron, J. J. A.**  
Monitoring and assessment of a research student's project. 118
- Heizmann, C. W.** See Seto-Oshima, A.
- Hendriks, D.**  
—; De Meester, I.; Umiel, T.; Van= hoof, G.; Scharpe, S.; Yaron, A.  
Dipeptidyl peptidase IV activity in stimulated T lymphocytes. 365
- ; Verkerk, R.; Vanhoof, G.; De Meester, I.; Van Sande, M.; Scharpe, S.  
Release of the carboxyterminal arginine from atropetin II by human plasma carboxypeptidase N. 359
- Henehan, G. T. M.** See Harrington, M. C.
- Hepp, E.** See Kempen, H. J.
- Herbert, K. E.** See French, R. C.
- Hermon-Taylor, J.** See Hurley, P. R.; Winterbourne, D. J.
- Heron, J. R. M.** See Carey, F.
- Herrick, A.** See Houston, T.
- Herrick, A. L.**  
—; Thompson, G. G.; Graham, A. M.; McColl, K. E. L.; Medley, I.; Moore, M. R.  
Effects of some antidepressant drugs on rat hepatic 5-aminolevulinate synthase. 847
- Herschkowitz, N.** See Carey, E. M.
- Hesketh, J.**  
—; Campbell, G.; McKenzie, N.  
Both insulin and cholera toxin increase 1,2-diacylglycerol synthesis in 3T3 fibroblasts. 283
- Hester, R. E.** See Chittock, R. S.
- Hewett-Emmett, D.** See Chegwidden, W. R.
- Heywood, B. R.**  
—; Rajam, S. R.; Birchall, J. D.; Mann, S.  
Crystallochemical recognition at organized inorganic-organic interfaces. 824
- Heywood-Waddington, D.**  
—; Sutherland, I. A.; Peters, T. J.  
Sub-fractionation of rat liver microsomes by two-polymer phase partition in a toroidal coil centrifuge. 34
- Hickman, J. A.** See Thompson, M. G.
- Hider, R. C.** See Barlow, D. J.
- Higgins, J. A.** See Hitchin, B. W.
- Higgins, S. J.**  
—; Young, P.; Cunha, G. R.  
Tissue-specific gene expression during reprogramming of reproductive tract epithelium. 810
- Higgs, E. A.** See Moncada, S.
- Hill, C. R.** See Marston, F. A. O.
- Hill, H. A. O.** See Bagby, S.; Barker, P. D.
- Hill, J. P.**  
—; Dickinson, F. M.  
Pre-steady-state kinetics of aldehyde oxidation by pig liver cytosolic aldehyde dehydrogenase. 856
- Steady-state kinetics of aldehyde oxidation by pig liver cytosolic aldehyde dehydrogenase. 857
- Hill, M. J.** See Wait, R.
- Hill, P. M.**  
Postgraduate education in biomedical sciences: a New Zealand perspective. 120
- Hinchliffe, E.**  
The genetic improvement of brewing yeast. 1077
- Hipkiss, A. R.** See Monks, N. J.
- Hipps, D. S.**  
—; Murphy, G.  
Studies on human fibroblast gelatinase. 893
- Hirata, M.** See Ito, T.
- Hird, S. M.** See Gray, J. C.
- Hirsch, S.** See Das, I.
- Hitchcock, C. A.** See Othman, Y. H. S.
- Hitchin, B. W.**  
—; Higgins, J. A.
- Metabolic channelling of phospholipids formed through serine base exchange for secretion by rat hepatocytes. 1036
- Hitzeman, R. A.**  
—; Chang, C. N.; Chen, C. Y.; Singh, A.; Etcheverry, T.; Chisholm, V.; Kohr, W.; Vehar, G.; Renz, M.; Dowbenko, D.  
Protein products from yeast. 1081
- Hoare, M.** See Fish, N. M.
- Hockmeyer, W. T.** See Richards, R. L.
- Hodges, N. A.** See Bearley, C. A.
- Hodgins, M. B.**  
—; Rowney, D. A.  
Regulation of the human skin fibroblast androgen receptor by androgens. 172
- Hodgson, I.**  
—; Malcolm, A. D. B.  
Distribution of the ATT sequence in the 3'-untranslated region of human and mouse genes. 366
- Hodgson, J. A.**  
—; James, G.; Batayneh, N.; Lindsay, J. G.  
Biosynthesis of precursor forms of the pyruvate dehydrogenase complex and mitochondrial phosphate transporter in *Saccharomyces cerevisiae*. 776
- ; Torrance, M. R.; Neagle, J.; Lindsay, J. G.  
Lipooyl groups in mammalian pyruvate dehydrogenase complex: time-dependent desensitization towards N-ethylmaleimide. 775
- Hoeoeg, J. O.** See Joernvall, H.
- Hoglund, A. S.** See Gray, J. C.
- Holan, G.** See Lummis, S. C. R.
- Holden, M. A.**  
—; Hall, R. D.; Yeoman, M. M.  
Limitations to product yield in rapidly growing cultures of *Capsicum frutescens*. 66
- Holland, D. B.** See Raxworthy, M. J.; Wood, E. J.
- ; Cunliffe, W. J.; Wood, E. J.; Turner, D. M.  
Effect of 1- $\alpha$ -hydroxyvitamin D<sub>3</sub> on epidermal keratins in psoriasis. 331
- Holland, K. T.** See Rennie, P. J.
- Holmgren, A.**  
Thioredoxin and glutaredoxin: small multi-functional redox proteins with active-site disulfide bonds. 95
- Holness, M. J.** See Sugden, M. C.
- ; Sugden, M. C.  
Hyperthyroidism impairs skeletal muscle glycogen repletion after refeeding. 554  
Is there a role for pyruvate dehydrogenase in the re-activation of hepatic pyruvate dehydrogenase complex after re-feeding? 773
- Homans, S. W.** See Ferguson, M. A. J.
- Hombados, I.** See Pauplin, Y.
- Hong, H.**  
—; El-Saleh, S. C.; Johnson, P.  
Effects of calcium on the fluorescence properties of chicken gizzard calpain II. 1045
- Hooper, C. M.**  
—; Allsopp, M. T. E. P.; Day, I. N. M.  
Derivation and application of complementary DNA probes for human neuron specific and muscle specific enolase: epitope prediction and genomic structure. 305
- Hooper, N. M.**  
—; Turner, A. J.

- Detergent solubilization of phosphatidylinositol-anchored ectoenzymes. 583
- Hornby, D. P.** See Lilley, K. S.
- Horrocks, L. A.** See Farooqui, A. A.
- Horsfall, A. C.**
- ; Venables, P. J. W.; Mumford, P. A.; Allard, S. A.; Maini, R. N. Distribution of idiotypes in human autoimmune disease. 341
- Horton, R. A.**
- ; Rice-Evans, C.; Fuller, B. J. Temperature-mediated suppression of oxidant stress in kidney cell membranes. 20
- Hortsch, M.** See Paver, J. L.
- Hothi, S. K.** See Jones, C. G.
- Hough, D. W.** See Smith, L. D.
- Houslay, M. D.** See Kilgour, E.
- Houston, T.**
- ; Fitzsimons, E. J.; Cavill, I.; McColl, K. E. L.; Thompson, G. G.; Herrick, A.; Moore, M. R.; Goldberg, A. Biochemical investigation of hepatotoxic porphyria-homozygous porphyria cutanea tarda. 829
- ; Fitzsimons, E. J.; Moore, M. R. A simple reversed phase high performance liquid chromatographic method for the separation of heme, protoporphyrin and iron. 831
- Hovik, R.** See Osmundsen, H.
- Howard, T. D.**
- ; Barber, J.; Lian, L. Y.; Tebb, G. Inhibition of elongation factor Tu by the antibiotic kirromycin. 761
- Howell, R. M.** See Williams, R.
- Howell, S. L.** See Bjaaland, T.
- Hsu, L. C.** See Yoshida, A.
- Huckle, K. R.** See Burke, A. B.
- Huffman, J. C.** See Vincent, J. B.
- Huggins, J. P.** See Gang, K. A.
- Hughes, A. E.** See McLean, W. H. I.
- Hughes, G. M.**
- ; Davis, B.; Spencer, I. M. Lipase and esterase activity during microcycle growth of *Aspergillus niger*. 790
- Utilization of carbon substrates during microcycle growth of *Aspergillus niger*. 791
- Hughes, K. T.** See Palmer, S.
- Hughes, M. S.** See Partridge, S.; Thomas, G. M. H.
- ; Flavell, K. J.; Birch, N. J. Transport of lithium into human erythrocytes as studied by lithium-7 nuclear magnetic resonance and atomic absorption spectroscopy. 827
- ; Thomas, G. M. H.; Partridge, S.; Birch, N. J. An investigation into the use of a dysprosium shift reagent in the nuclear magnetic resonance spectroscopy of biological systems. 207
- Hughes, W. M.**
- ; Paul, F. E.; Matthews, I. T. W.; Barnwell, S. G.; Keogh-Bennett, J.; Taylor, P. W. Quantification of low density lipoprotein receptors on HepG2 cells by fluorescence activated cell sorting. 363
- Hughes-Jones, N. C.** See Merry, A. H.
- Hume, R.** See Coughtrie, M.
- Humphries, S. E.** See Cook, M.
- Hunaiti, A. R.** See Hussain, S. T.
- Hunt, A.** See Seaton, P.
- ; Hayashi, M.; Seaton, P.; Patel, A. J. Influence of nerve cells on the development of astrocytes. 295
- Hunty, P. J.**
- ; Coleman, G.; Munro, A. L. S. A comparative study of the sera of brown trout (*Salmo trutta*) and Atlantic salmon (*Salmo salar* L.) by Western blotting against *Aeromonas salmonicida* exoproteins. 999
- Hurley, P. R.**
- ; Cook, A. J.; Austen, B. M.; Hermon-Taylor, J. Antibodies to trypsinogen activation peptides recognize both calcium-dependent and calcium-independent epitopes. 337
- Hurst, R. D.** See Chan, S. L. F.
- Hussain, O. A. N.** See Roberts, J. A.
- Hussain, A. A.** See Willmott, N. J.
- ; Doshi, M.; Curtis, R.; Voaden, M. J. Progressive retinal atrophy in the Tibetan terrier: studies on cyclic GMP and taurine homeostasis. 317
- Hussain, S. T.**
- ; Muwalla, M.; Hunaiti, A. R.; Baydoun, E. Histochemical localization of 5'-nucleotidase activity in Awassi sheep (*Ovis asiatica*) placenta. 1042
- Hussey, C.** See Byrne, D.; Licken, B.; Newell, M.
- Hutton, D. A.** See Mall, A. S.
- ; Allen, A.; Slayter, H. S. Studies on pig gastric mucins by electron microscopy. 584
- Ife, R. J.** See Fallowfield, C.
- Ikuta, T.** See Yoshida, A.
- Illes, R. A.** See Davies, S. E. C.
- Illidge, T. M.** See Moreland, B. H.
- Imanaka, T.** See Lazarow, P. B.
- Inayat, M. S.**
- ; Matthey, M. Regulation of NADP+-specific glycerol dehydrogenase in *Aspergillus niger* by bicarbonate ions. 976
- Irons, J.** See Thorne, B.
- Islam, K.** ATP-induced fluorescence decline and phosphorylation of the light-chain harvesting chlorophyll a/b binding protein complex (LHC-II) protein at low and high ATP concentrations. 46
- Ito, T.**
- ; Hirata, M.; Kitamura, K.; Kuriyama, H. Roles of myo-inositol 1,4,5-trisphosphate and myo-diacylglycerol in vascular smooth muscles as second messengers: in relation to actions of acetylcholine. 488
- Iwanejko, L. A.**
- ; Stewart, G. S. A. B. Cloning in *Escherichia coli* of a DNA sequence with translational fidelity to the known protein sequence for *Clostridium perfringens* sporulation specific enterotoxin. 1069
- Izgu, F.** See Tuite, M. F.
- Jackson, J. B.** See McEwan, A. G.
- Jackson, M.** See Coughtrie, M.
- Jackson, P. J.**
- ; Turner, R.; Keen, J. N.; Brooksbank, R. A.; Cooper, E. H. Evidence for a human uteroglobin-like protein occurring in the urine of patients with renal failure. 970
- Jacobs, V. N.** See Masters, D. J.
- Jafelice, L. R. S.**
- ; Wiseman, A.; Goldfarb, P. Sequential appearance of  $\beta$ -glucosidase and lignin peroxidase in the extracellular fluid of a stationary phase culture of *Phanerochaete chrysosporium*. 369
- Jahan, M.** See Butterworth, P. J.
- ; Pollard, J. W.; Butterworth, P. J. Hormonal regulation of mouse uterine alkaline phosphatase. 848
- James, G.** See Hodgson, J. A.
- James, H. M.**
- ; Nicholas, G. A.; Smith, C. A.; Sweetman, A. J. A colorimetric microvolume assay for nucleoside diphosphatase activity in Golgi membrane preparations. 561
- Janah, S.**
- ; Das, I. Variations in phagocyte chemiluminescence. 289
- Janson, L.**
- ; Bell, E. Involvement of an arginine residue in glutamate dehydrogenase with the 1-position carboxyl of glutamate. 860
- Jarvis, S. M.** See Williams, T. C.
- Jefferis, R.** See Harmer, I.; Walker, M. R.
- ; Cranmer, S.; Arata, Y.; Takahashi, N. Glycosylation heterogeneity in human IgG subclass proteins. 340
- Jeffery, D.** See Rutherford, D. M.
- Jeffery, S.** See Carter, N.
- Jenkins, S. A.** See Preedy, V. R.
- Jenkins, T. M.**
- ; Weitzman, P. D. J. Metabolic roles of succinate thiokinase. 795
- Jepson, M. A.** See Lawrence, G. M.
- Jhoti, H.** See Lindley, P. F.
- Jiang, M. J.** See Morgan, K. G.
- Jin, D. Y.** See Sugden, M. C.
- ; Goode, A. W.; MacLennan, P. A.; Sugden, M. C. Delayed inactivation of tissue pyruvate dehydrogenase complex in response to increased fatty acid availability in the fed state. 553
- Joernvall, H.** See Denis, M.
- ; Hoeoeg, J. O.; Von Bahr-Lindstroem, H.; Johansson, J.; Kaiser, R.; Persson, B. Alcohol dehydrogenases and aldehyde dehydrogenases. 223
- Johansson, J.** See Joernvall, H.
- Johnson, A.** See Devery, R.; Owens, D.
- Johnson, A. H.** See O'Meara, N.
- Johnson, A. R.**
- ; Gregson, N. A.; Wigley, C. B.; Berry, M. The regeneration of adult rat retinal ganglion cell axons in vitro. 440
- Johnson, D.** See Fairclough, A. C.
- Johnson, M.** See Mitchell, R.
- Johnson, P.** See Allen, M. J.; Hong, H.; Zhang, H.
- Johnson, R. M.** See Lincoln, T. M.
- Johnston, G. A. R.** See Lummis, S. C. R.
- Johnstone, A.** See Whitley, G.
- ; Whitley, G.; Nussey, S. Immortalization of human thyrocytes by transfection. 197
- Jones, A. L.**
- ; Harwood, J. L. Effects of heavy metals on lipid metabolism in marine algae. 275
- Jones, C. G.**
- ; Hothi, S. K.; Titheradge, M. A. Effect of dexamethasone on pyruvate carboxylation and decarboxylation in isolated hepatocytes from starved rats. 1075

- Jones, J.** See Patel, B. N.  
**Jones, J. G.** See Jones, S. A.  
**Jones, K. M.**  
 —; Baron, A. J.; Wootton, J. C.; McPherson, M. J.  
 Site-directed mutagenesis studies of *Escherichia coli* glutamate dehydrogenase. 874  
**Jones, O. T. G.** See Cross, A. R.  
**Jones, P.** See Lauffart, B.  
**Jones, P. M.** See Bjaaland, T.  
**Jones, R.**  
 —; Lancaster, R. T.  
 Carbohydrate-binding activity of mammalian sperm proacrosin; an unusual property of a serine proteinase. 1035  
**Jones, S. A.**  
 —; Dempsey, T.; Jones, J. G.; Rice—Evans, C.  
 Oxygen radicals, iron and erythrocyte filterability. 292  
**Jordan, P. M.** See Alwan, A. F.; Warren, M. J.  
**Joris, B.** See Frere, J. M.  
**Joseph, S.** See Krishnamurthi, S.  
**Jutha, J.** See Ward, R. J.
- Kaczorowski, G. J.**  
 —; Slaughter, R. S.; Garcia, M. L.; King, V. F.  
 The role of sodium-calcium exchange in excitable cells. 529  
**Kaiser, R.** See Joernvall, H.  
**Kakkar, V. V.** See Krishnamurthi, S.  
**Kalsheker, N.** See Swanson, T.  
**Kalsheker, N. A.** See Llewellyn, D. H.  
**Kane, J. F.** See Hartley, D. L.  
**Kardasz, A. M.** See Langlands, J. M.  
**Karimi, S. J.** See Saeed, S. A.  
**Karplus, P. A.** See Schulz, G. E.  
**Karr, G.** See Moran, E.  
**Kasanicki, M. A.**  
 —; Gardiner, R. M.; Baldwin, S. A.  
 Reconstitution of the bovine brain microvessel glucose transport protein into large unilamellar vesicles by a rapid extrusion technique. 352  
**Kashfi, K.**  
 —; Weakley, L. J.; Cook, G. A.  
 Effects of diabetes on the carnitine palmitoyltransferase of isolated hepatic mitochondrial outer membranes. 1010  
**Kauppinen, R.** See McMahon, H. T.  
**Kavanagh, K. A.**  
 —; Whittaker, P. A.  
 The effect of cell recycle batch fermentation on ethanol production by *Pachysolen tannophilus* and *Candida shehatae*. 198  
**Kay, I.** See McAleese, S. M.  
**Kearney, J. N.** See Rowling, P. J. E.  
**Keaveney, M.**  
 —; Neilan, J.; Gannon, F.  
 An analysis of the genomic structure of the 3' untranslated region of the human estrogen receptor gene. 388  
**Keeling, D. J.** See Fallowfield, C.  
**Keen, J. N.** See Jackson, P. J.  
**Keen, P.** See Nielsch, U.  
**Kekwick, R. G. O.** See Sheldon, P. S.  
**Kelly, C. T.** See Behan, J.; Doyle, E. M.; McCarthy, J.; O'Mahony, M. R.  
 —; Fogarty, W. M.  
 Bacterial  $\alpha$ -glucosidases – a reclassification. 184  
**Kelly, D. E.** See Kelly, S. L.  
**Kelly, J. M.** See Kendall, G.  
**Kelly, S. L.**  
 —; Kelly, D. E.  
 Analysis and exploitation of cytochrome P-450 in yeast. 1086  
**Kemp, G. J.**  
 —; Khodja, D.; Bevington, A.; Russell, R. G.  
 Functional compartmentation of cellular orthophosphate in human erythrocytes revealed by phosphorus-32 labeling. 781  
**Kempen, H. J.**  
 —; Lommerse, E.; Van Schie, R.; Hepp, E.; Meyer, P.; Princen, H.  
 Bile acid synthesis by human hepatoma cell line Hep-G2 is stimulated by low density lipoprotein. 566  
**Kendall, G.**  
 —; Ashall, F.; Miles, M. A.; Kelly, J. M.  
 Genes encoding glyceraldehyde-3-phosphate dehydrogenase in *Trypanosoma cruzi*. 1067  
**Kendrick-Jones, J.** See Cross, R. A.  
**Keogh-Bennett, J.** See Hughes, W. M.  
**Kerr, M. A.**  
 —; Albrechtsen, M.; Yeaman, G. R.  
 Characterization of the IgA receptor from human neutrophils. 731  
**Kessewani, H.** See Deverey, R.  
**Khan, J. A.** See Salih, S. G.  
**Khandelwal, R. L.** See Sohal, P. S.  
**Khodja, D.** See Kemp, G. J.  
**Khodr, H.**  
 —; Moore, G. R.; Strike, A. J.; Williamson, D. J.  
 Solid-state and solution-state phosphorus-31 nuclear-magnetic-resonance studies of the hemoglobin-inositol hexaphosphate complex. 839  
**Kikkawa, U.** See Shearman, M. S.  
**Kikuchi, I.** See Yoshida, A.  
**Kilgour, E.**  
 —; Anderson, N. G.; Houslay, M. D.  
 Activation of the 'dense-vesicle' cyclic AMP-phosphodiesterase from rat liver by cyclic AMP-dependent protein kinase. 1025  
**King, D. J.**  
 —; Walton, F.; Smith, B. W.; Dunn, M.; Yarranton, G. T.  
 Recovery of recombinant proteins from yeast. 1083  
**King, G. F.** See Odoom, J. E.  
 —; Deegan, J.; Smith, R.; Matousek, A.; Campbell, I. D.  
 A nuclear magnetic resonance study of alamethicin-,  $\delta$ -hemolysin-, and melittin-induced sodium leakage from large unilamellar vesicles. 594  
**King, J.**  
 —; Haase-Pettingell, C.  
 Aggregate formation from thermolabile intermediates in the maturation of the thermostable P22 tailspike. 105  
**King, M. T.** See Reed, B. Y.  
**King, V. F.** See Kaczorowski, G. J.  
**Kionka, C.** See Kunau, W. H.  
**Kirk, C. J.** See Barker, C. J.  
**Kirwin, P. M.** See Ellis, R. J.  
**Kitamura, K.** See Ito, T.  
**Kluznik, A. R.**  
 —; Cunliffe, W. J.  
 Keratin biosynthesis in the pilosebaceous ducts in acne patients. 330  
**Knox, P.** See Rigg, H.; Tanner, V.  
**Kohr, W.** See Hitzeman, R. A.  
**Kolatukudy, P.** See Farooqui, A. A.  
**Korcyn, A. D.** See Michaelson, D. M.  
**Kosaka, Y.** See Shearman, M. S.  
**Kowal, A.** See Toth, C. A.  
**Kozlowski, U. M.**  
 —; Aynsley-Green, A.; Flecknell, P. A.; Bartlett, K.  
 Two independent methods using radioactive and stable isotopically labelled substrates for the measurement of ketone body turnover in the same experimental animal. 736  
**Krishnamurthi, S.**  
 —; Patel, Y.; Joseph, S.; Kakkar, V. V.  
 Selective desensitization of protein-C-mediated platelet granule secretion with prolonged incubation of protein kinase C activators despite sustained 45 kDa phosphorylation. 804  
**Kubal, G.** See Bell, J. D.  
**Kuchta, R. D.**  
 —; Cowart, M.; Allen, D.; Benkovic, S. J.  
 Kinetic and structural investigations of the replicative fidelity of the Klenow fragment. 947  
**Kumpel, B. M.** See Merry, A. H.  
 —; Leader, K. A.; Bradley, B. A.  
 The relationship between IgG subclass and Gm allotype of monoclonal anti-Rh(D) antibodies and their functional activity. 733  
**Kunau, W. H.**  
 —; Buehne, S.; De la Garza, M.; Kionka, C.; Mateblowski, M.; Schultz-Borchard, U.; Thieringer, R.  
 Comparative enzymology of  $\beta$ -oxidation. 418  
**Kundaiker, S.** See Arden, G. B.  
**Kuo, Y. M.** See Yesufu, H. M. I.  
**Kuonen, D. R.**  
 —; Roberts, P. J.  
 Solubilization of a glutamate-binding protein from brain membranes. 446  
**Kuriyama, H.** See Ito, T.  
**Kwan, T. K.**  
 —; Perumal, R.; Gower, D. B.  
 Pregnenolone metabolism in testicular preparations of *Macaca fascicularis*. 1003  
 Effect of oxytocin on testicular steroidogenesis in the macaque (*Macaca fascicularis*). 1004  
**Kwong, F. Y. P.** See Fincham, D. A.
- Lace, D.**  
 —; Chandler, J.; Hann, A. C.; Olavesen, A. H.; Gacesa, P.  
 Immunocytochemical labeling of hyaluronidase in bovine sperm. 643  
**Lackey, D.**  
 —; Malcolm, A. D. B.  
 Role of human T-cell ribonuclease in lymphokine gene expression. 367  
**Lacoste, A. M.**  
 —; Darriet, M.; Neuzil, E.; Le Goffic, F.  
 Inhibition of alanine racemase by vinylglycine and its phosphonic analog: a proton nuclear magnetic resonance spectroscopy study. 606  
**Lamb, J.** See Mehler, A.  
**Lambert, P. H.** See Stott, D. I.  
**Lancaster, R. T.** See Jones, R.  
**Lane, A. C.** See Lynn, A. G.  
**Lang, D.** See Lewis, M. J.  
**Langlands, J. M.**  
 —; Kardasz, A. M.; Rodger, I. W.; Watson, J.  
 Lack of turnover of inositol phosphates in guinea pig and rat lung parenchyma may be due to its dependence on extracellular calcium during contraction. 35

- Lannon, A. M.** See Armstrong, F. A.
- Lannon, B.**
- ; O'Kennedy, R.; Fennelly, J. The production and characterization of monoclonal antibodies to leukemic cells. 376
- Larkin, S.** See Martin, F.
- Lash, J. A.** See Hathaway, D. R.
- Lau, K. R.** See Brown, P. D.
- Lauffart, B.** See Biggins, J. A.
- ; McDermott, J.; Gibson, A.; Mantle, D. Purification and characterization of leucine aminopeptidase from human cerebral cortex. 850
- ; McDermott, J.; Jones, P.; Mantle, D. Amino acid inhibition of aminopeptidases purified from human cerebral cortex. 849
- Laurent, G. J.** See Mays, P. K.
- Lavandero, S.**
- ; Puente, J.; Sapag-Hagar, M. Enzymic activities in rat lactating mammary gland after pre-gestation-al sialoadenectomy. 778
- Lawrence, G. M.**
- ; Beesley, A. C. H.; Jepson, M. A.; Matthews, J. B. Endogenous 6-phosphogluconate dehydrogenase and the biochemical and histochemical quantification of hexokinase. 867
- Lawrie, K. W. M.** See Fallowfield, C.
- Lawson, D. M.** See Thomas, C. D.
- Lazarow, P. B.**
- ; Small, G. M.; Imanaka, T. Biogenesis of enzymes of peroxisomal  $\beta$ -oxidation. 410
- Lazenby, C. M.**
- ; Harpur, E. S. Effects of neomycin on potassium transport into inside-out erythrocyte membrane vesicles. 598
- Lea, R. G.**
- ; Bolton, A. E. An immunosuppressive factor from equine placental tissue. 793
- Leach, S. A.** See Wait, R.
- Leader, K. A.** See Kumpel, B. M.
- Ledeboer, A. M.** See Sudbery, P. E.
- Ledingham, J. G. G.** See Endre, Z. H.
- Lee, A. G.** See Colyer, J.; Mata, A. M.; Michelangeli, F.; Munkonge, F. M.
- Lee, D. Y.** See Palmer, S.
- Lee, E. Y. C.** See Davis, J. R.
- Legisa, M.** See Mattey, M.
- Le Goffic, F.** See Lacoste, A. M.
- Legon, S.** See Augood, S. J.
- Leighton, B.**
- ; Lozman, F. J.; Challiss, R. A. J.; Newsholme, E. A. Effects of glucocorticoid treatment of rats *in vivo* on insulin sensitivity of soleus and extensor digitorum longus muscles *in vitro*. 174
- Lendon, C. L.** See Briggs, A. D.
- ; Briggs, A. D.; Born, G. V. R.; Burleigh, M. C.; Davies, M. J. Mechanical testing of connective tissue in the search for determinants of arteriosclerotic plaque cap rupture. 1032
- Lewendon, A.** See Day, P. J.; Shaw, W. V.
- Lewis, G. P.** See O'Neill, L. A. J.
- Lewis, M. J.**
- ; Collins, P.; Lang, D. Endothelium-derived relaxing factor, calcium and inositol phosphates. 486
- Lewis, R. W.**
- ; Richards, R. J.; Harwood, J. L. Surfactant metabolism: the role of specific apoproteins. 276
- Lian, L. Y.** See Howard, T. D.
- Licken, B.**
- ; McLoughlin, A. J.; Hussey, C. Factors influencing the expression and maintenance of recombinant plasmids in *Bacillus subtilis*. 194
- Lieber, C. S.**
- The microsomal ethanol oxidizing system: its role in ethanol and xenobiotic metabolism. 232
- Metabolic effects of acetaldehyde. 241
- Lighty, E. R. T.** See Bird, I. M.
- Lilley, K. S.**
- ; Engel, P. C. Identification of three essential lysine residues probably involved in substrate binding of the NAD<sup>+</sup>-dependent glutamate dehydrogenase of *Clostridium symbiosum*. 875
- ; Hornby, D. P.; Engel, P. C. Purification, chemical modification and analysis of pH-dependence of the NADP<sup>+</sup>-dependent glutamate dehydrogenase of *Escherichia coli*. 876
- Lim, S. P.** See Bolton, T. B.
- Lima, V. L. M.**
- ; McIntyre, N.; Owen, J. S. Secretion of lecithin:cholesterol acyltransferase (LCAT) by the human hepatoma cell line, HepG-2. 155
- Lincoln, T. M.**
- ; Cornwell, T. L.; Rashatwar, S. S.; Johnson, R. M. Mechanism of cyclic-GMP-dependent relaxation in vascular smooth muscle. 497
- Lindley, P. F.**
- ; Evans, R. W.; Garratt, R. C.; Gorinsky, B.; Hasnain, S. S.; Jhoti, H.; Sarra, R.; Walton, A. R. Structural studies on transferrins: the anion-binding sites. 825
- Lindros, K.** See Carter, N.
- Lindsay, J. G.** See Hodgson, J. A.
- Lindsay, R. M.**
- ; Baty, J. D. A comparison of the acetylation of sulfamethazine *in vitro* by whole blood and washed red blood cells from healthy and diabetic human subjects. 786
- ; Baty, J. D.; Fox, W. R.; Willis, R. G. The use of gas chromatography-mass spectrometry to study transacetylation by human whole blood *in vitro*. 742
- Use of gas chromatography-mass spectrometry to study deacetylation-reacetylation of arylamides by whole blood *in vitro*. 743
- ; Fox, W. R.; Baty, J. D. Acetylation of aniline and phenetidine *in vitro* by human whole blood. 1071
- ; McLaren, A. M.; Baty, J. D. Effect of hemolysis on the acetylation of p-aminobenzoic acid by human whole blood and washed erythrocytes *in vitro*. 1024
- Littlechild, J. A.** See Fairbrother, W. J.
- Littleton, J. M.** Alcohol-induced alterations in calcium handling. 527
- Livingstone, D. R.**
- ; Garcia Martinez, P.; Stegeman, J. J.; Winston, G. W. Benzo[ $\alpha$ ]pyrene metabolism and aspects of oxygen radical generation in the common mussel (*Mytilus edulis* L.). 779
- Llewellyn, D. H.**
- ; Urquhart, A.; Scobie, G.; Elder, G. H.; Kalsheker, N. A.; Harrison, P. R. Molecular analysis of acute intermittent porphyria. 799
- Llewelyn, J. G.** See Patel, N. J.
- Lloyd, A. J.**
- ; Weitzman, P. D. J. Purification and characterization of NAD-linked isocitrate dehydrogenase from *Methylophilus methylo trophus*. 871
- Lloyd, A. W.** See Brearley, C. A.
- Lloyd, J. B.** See Bird, S. J.; Forster, S.
- Lo, W. W. Y.** Receptor activation, G-protein and second-messenger cross-talk in human pituitary clonal cells. 437
- Lockhart, B. P.**
- ; Smith, T. P.; Bailey, C. J. The binding of epidermolytic toxin to epidermal cells. 334
- Lodge, D.** See Fletcher, E. J.
- Logan, A.**
- ; Logan, S. D. Fibroblast growth factor stimulates phosphoinositide hydrolysis in Balb/c 3T3 fibroblasts *in vitro*. 987
- Logan, S. D.** See Logan, A.; McDermott, E. E.
- Lommense, E.** See Kempen, H. J.
- Long, M. T.**
- ; Steel, C. C.; Mercer, E. I. Location of squalene accumulation and physiological effects of ergosterol depletion in naftifine-grown yeast. 1044
- Long, W. F.** See Grant, D.
- Lord, J. M.**
- ; Halpin, C. Formation of protein bodies and glyoxysomes. 706
- Lorenzo, M.**
- ; Fabregat, I.; Roncero, C.; Benito, M. Fetal rat brown adipocyte primary cultures: characterization of a system for lipid synthesis studies. 274
- Low, M. G.** Glycosylphosphatidylinositol: an anchor for eukaryotic membrane proteins. 271
- Lowe, P. A.** See Marston, F. A. O.; Sugrue, R.
- Lowe, S.** See Mattey, M.
- Lowe, S. L.** See Palmer, A. M.
- Lowe, V. J.** See Bagby, S.
- Loxley, P.** See Fairclough, A. C.
- Lozman, F. J.** See Leighton, B.
- Lucy, J. A.** See Ahkong, Q. F.
- Luisi, B. F.** See Nagai, K.
- Lummis, S. C. R.**
- ; Sattelle, D. B.; Johnston, G. A. R.; Holan, G. Insecticide action on GABAergic chloride flux in insect central nervous system. 303
- Lundqvist, T.** See Nilsson, O.
- Lunt, G. G.** See Brown, M. C. S.; Marshall, J.; Rutherford, D. M.; Thorne, B.
- Lydon, J.** See Boyhan, A.
- Lynch, C.** See Martin, F.
- Lynham, J. A.** See Murray, K. J.
- Lynn, A. G.**
- ; Lane, A. C.; Smeaton, L. A. A semiautomated method for the determination of pepsin activity in gastric juice using the Tecan liquid-handling system. 26
- Lynskey, E.**
- ; Elmore, M.; O'Cuinn, G.; O'Con-

- nor, B.  
Studies on an angiotensin-converting enzyme of guinea pig brain. 191
- Lyons, P. A.**  
—; Wise, P. H.; Palmer, T. N.  
The polyol pathway in the human erythrocyte and its response to diabetes. 363
- McAleese, S. M.**  
—; Dunbar, B.; Kay, I.; Fothergill-Gilmore, L. A.  
Cofactor-independent monophosphoglycerate mutase. 558
- McAnulty, R. J.** See Mays, P. K.
- McCall, K. E.**  
—; Duncan, C. J.  
Factors affecting creatine kinase release in soleus muscle. 1052
- McCarthy, J.**  
—; Kelly, C. T.; Fogarty, W. M.  
Preliminary studies on the amylolytic system of the anaerobe Clostridium butyricum. 184
- McColl, K. E. L.** See Herrick, A. L.; Houston, T.
- McConnell, D. J.** See Shields, D.
- McCormack, J. G.** See Unitt, J. F.  
—; Dawes, N. J.  
Effects of barium(2+) ions on the intramitochondrial calcium-sensitive dehydrogenases of rat heart and liver mitochondria. 590  
—; Denton, R. M.  
The regulation of mitochondrial function in mammalian cells by calcium ions. 523
- McCulloch, A.** See Creba, J. A.
- McDermott, E. E.**  
—; Logan, S. D.  
The anticonvulsant carbamazepine and inositol lipid hydrolysis in rat hippocampus. 986
- McDermott, J.** See Lauffart, B.
- McDermott, J. R.** See Biggins, J. A.  
—; Gibson, A. M.; Biggins, J. A.  
Peptidases involved in the degradation of neuropeptides by human brain synaptic membranes. 851
- Macdonald, A. G.**  
—; Earl, C.  
Preliminary measurements of the phase transition in liposomes of di-(n-methyl-)-hexadecanoylphosphatidylcholine ( $n = 3,4$ ) using dilatometry and fluorescence polarisation. 348  
—; Wahle, K. W. J.  
Use of the fluorescent probe pyrene to measure the effects of exogenous fatty acids on the fluidity of microsomes. 349
- McDonald, C. J.** See Divecha, N.
- McEnroe, M.** See Mehra, R.
- McEwan, A. G.**  
—; Richardson, D. J.; Jackson, J. B.; Ferguson, S. J.  
The periplasmic nitrate reductase and trimethylamine-N-oxide reductase of the photosynthetic bacterium Rhodobacter capsulatus. 182
- Macey, M.** See Veys, P. A.
- Macgillivray, R. T. A.** See Burch, A. M.
- McGrath, L. T.**  
—; Elliott, R. J.  
Lipid distribution in the media of the human thoracic aorta. 164
- McGregor, A. M.** See Stott, D. I.
- McGuinness, M.**  
—; Smyth, H.  
Trypsin effect on the lipid bilayer: characterization of released vesicles 189
- Maciewicz, R. A.**  
—; Etherington, D. J.  
Enzyme immunoassay for cathepsins B and L in synovial fluids from patients with arthritis. 812  
—; Wardale, R. J.; Etherington, D. J.  
Studies on the activation mechanism for the precursor to cathepsin L. 1056
- McIlgorm, E. A.**  
—; Power, C.; O'Connor, C. M.; Fitzgerald, M. X.  
Elastase and collagenase in the bronchoalveolar lavage fluid of sarcoid patients. 390
- McIlwain, H.**  
The Biochemical Journal and the Journal of Neurochemistry as agents exemplifying and fostering biochemistry and neurochemistry during their initial years of publication. 599
- MacIntyre, D. E.** See Rossi, A. G.
- MacIntyre, N.** See Lima, V. L. M.
- McKenna, P. G.** See Bristow, H.
- McKenna, T. J.** See Fitzpatrick, S. C.
- McKenzie, F. R.**  
—; Mullaney, I.; Unson, C. G.; Spiegel, A. M.; Milligan, G.  
The use of anti-peptide antisera to probe interactions between receptors and guanine nucleotide binding proteins. 434
- MacKenzie, I.** See Bolton, T. B.
- McKenzie, N.** See Hesketh, J.
- MacKenzie, S. M.** See Morris, G. E.
- MacLachlan, N. A.** See Berry, R. M.
- McLaren, A. M.** See Lindsay, R. M.
- McLean, W. H. I.**  
—; Graham, C. A.; Hughes, A. E.; Nevin, N. C.  
Rabbit antiserum against proteins secreted by human fibroblasts. 375
- McLennan, A. G.** See Agathocleous, D. C.; Taylor, G. E.
- MacLennan, P. A.** See Jin, D. Y.; Sugden, M. C.
- McLoughlin, A. J.** See Byrne, D.; Licken, B.; Newell, M.
- McLoughlin, K.** See Harmey, J.
- McMahon, H. T.**  
—; Kauppinen, R.; Nicholls, D. G.  
Energetics of calcium-dependent glutamate release from synaptosomes and the effect of experimental anoxia, hypoglycemia and ischemia. 880
- McMillan, R. M.** See Masters, D. J.; Rossi, A. G.
- McPherson, M. A.** See Shori, D. K.
- McPherson, M. J.** See Charalambous, B. M.; Jones, K. M.  
—; Charalambous, B. M.  
Functional analysis of the starch debranching enzyme pullulanase. 723
- McSheehy, P. M. J.**  
—; Bashford, C. L.  
Gossypol, a cytotoxic agent, may uncouple respiration of Ehrlich ascites tumor cells. 616
- Maddy, A. H.** See Wu, Z.
- Magee, D. F.** See Douglas, A. J.
- Maier, H.** See Steven, F. S.
- Maini, R. N.** See Horsfall, A. C.
- Maisey, M. N.** See Garlick, P. B.
- Makinde, V.**  
—; Wali, F. A.  
Toxicity of atracurium measured by lactate dehydrogenase assay in rat isolated hepatocytes. 614
- Makoff, A. J.**  
—; Smallwood, A. E.  
Heterologous expression in Escherichia coli: effects of alterations in
- the sequence 5' to the initiation codon. 48
- Malcolm, A. D. B.** See Hodgson, I.; Lackey, D.; Rahman, K.; Voss, U. B.  
—; Figueiredo, H.  
Non-radioactive probes in Southern blots. 139
- Malhotra, R.**  
—; Reid, K. B. M.; Sim, R. B.  
Studies on the isolation of human C1q-receptor. 735
- Mall, B.**  
—; Nicholas, P. C.  
Jaffe's reaction for creatinine: spectrophotometric characteristics of the production of the reaction between glucose and alkaline picrate. 393
- Jaffe's reaction for creatinine: spectrophotometric study of the product of the reaction of creatinine, glucose and alkaline picrate. 394
- Jaffe's reaction for creatinine: kinetic study of the reactions of creatinine, glucose and creatinine and glucose with alkaline picrate. 395
- Jaffes' reaction for creatinine: kinetic study and spectrophotometric characteristics of the product of the reactions of creatinine, acetoacetate and creatinine and acetoacetate with alkaline picrate. 549
- A spectrophotometric study of the behavior of bilirubin in solutions of sodium hydroxide. 550
- Jaffes' reaction for creatinine: spectrophotometric and kinetic study of bilirubin in the reaction. 551
- Malik, Z.**  
—; Bottomley, R.; Austen, B.  
Allergenicity of the major genetic variants of bovine  $\beta$ -lactoglobulin. 338
- Mall, A. S.**  
—; Hutton, D. A.; Coan, R. M.; Sellers, L. A.; Allen, A.  
Gastric mucins: different size of subunit according to reducing conditions. 585
- Mallet, A. I.** See Rennie, P. J.
- Malthouse, J. P. G.** See Gariani, L. S.
- Mangnall, D.**  
—; Beresford, J.; Prescott, A.  
Partial purification of a tyrosyl protein kinase from rat liver cytosol by affinity chromatography on poly(Glu:Tyr)-linked Sepharose 4B. 780
- Mann, S.** See Heywood, B. R.; Ward, R. J.
- Manning, D. L.** See Daly, R. J.
- Manning, J. M.**  
—; Fraher, J.  
Effects of heating on the extracellular matrix in muscle. 169
- Mansouri, H.** See Divecha, N.
- Mantle, D.** See Biggins, J. A.; Laufart, B.
- Mantle, T. J.** See Boyce, S. J.; Graham, M. N.; Rigney, E. M.
- Maquedano, A.** See Guzman, M.
- Marabani, M.** See Black, D.
- Marco, V.** See Castell, J. V.
- Marison, I. W.**  
—; Von Stockar, U.  
Fermentation control and the use of calorimetry. 1091
- Marni, A.** See Ferrero, M. E.
- Marquez, V. E.** See Goldstein, B. M.
- Marr, G.** See Thomas, G. M. H.
- Marsden, D.** See Augood, S. J.
- Marsh, M. N.** See Brooks, S. T.
- Marshall, J.**  
—; Darlison, M. G.; Lunt, G. G.; Bar-

- nard, E. A.  
Cloning of putative nicotinic acetyl-choline receptor genes from the locust. 463
- Marshall, J. H. A.** See Smith, T. A.
- Marshall, R. D.** See Gillies, D. R. B.
- Marshall, T.**  
—; Convery, C. M.; Williams, K. M. Electrophoresis and silver staining of the proteins of wool and specialty fibers. 639  
—; Gaston, S. J. S.; Williams, K. M. Electrophoresis and silver staining of the proteins of unconcentrated beer. 167  
—; Gilliland, D.; Williams, K. M. Sodium dodecyl sulfate/polyacrylamide gel electrophoresis of milk proteins: application to cheese. 165  
—; Williams, K. M. Turbidimetric response of aqueous protein and detergent to trichloroacetic acid. 640
- Marston, F. A. O.** See Sugrue, R.  
—; Angal, S.; Lowe, P. A.; Chan, M.; Hill, C. R. Scale-up of the recovery and reactivation of recombinant proteins. 112
- Marston, S.**  
—; Pritchard, K.; Redwood, C.; Taggart, M. Calcium regulation of the thin filaments: biochemical mechanism and physiological role. 494
- Marston, S. B.** See Pritchard, K.; Taggart, M. J.
- Martin, B. T.**  
—; Betteridge, A.; Craven, R. P. Regulation of gonadotropin biosynthesis in the rat anterior pituitary by gonadotropin and androgens. 170
- Martin, F.**  
—; Treacy, M.; Schuster, W.; Lynch, C.; Larkin, S.; Tait, S.; Whelan, J. Hormonal and tissue-specific control of rat prolactin and rat growth hormone gene expression. 699
- Martin, J. F.** See Gladwin, A. M.
- Mashiter, G. D.** See Garlick, P. B.
- Mason, A. N.** Biochemistry required for the physical science undergraduate. 515
- Mason, D. K.** See Fincham, D. A.
- Mason, R. M.** See Williams, S. P.
- Mason, R. W.** See Wilcox, D.
- Masters, D. J.**  
—; Jacobs, V. N.; Carr, V. J.; McMillan, R. M. Kinetics of 5-lipoxygenase: influence of substrate solubility and product inactivation. 38
- Masterson, B.** See Witts, H.
- Masterson, B. F.** See Sagar, K. A.; Scaife, C.
- Mata, A. M.**  
—; Colyer, J.; Tunwell, R. E. A.; Lee, A. G.; East, J. M. Effect of monoclonal antibodies raised against calcium-magnesium ATPase from rabbit skeletal muscle sarcoplasmic reticulum on ATPase activity and its correlation with epitope location. 771
- Mateblowski, M.** See Kunau, W. H.
- Matouschek, A.** See King, G. F.
- Mattaj, I. W.** See Hamm, J.
- Mattey, M.** See Inayat, M. S.  
—; Legisa, M.; Lowe, S. Effect of lectins and inhibitors on membrane transport in *Aspergillus niger*. 969
- Matthews, I. T. W.** See Hughes, W. M.
- Matthews, J. B.** See Lawrence, G. M.
- Matthews, N.** See Swanson, T.
- Mauk, A. G.** See Burch, A. M.; Davies, A. M.
- Mauk, M.** See Burch, A. M.
- Maxwell, B. L.** See Connely, O. M.
- May, F. E. B.** See Wiseman, L. R.
- Mayes, P. A.** See Mindham, M. A.
- Mayhew, S. G.** See Fagan, T.
- Mayor, S.** See Menon, A. K.
- Mays, P. K.**  
—; McAnulty, R. J.; Laurent, G. J. Age-related changes in heart collagen metabolism. 749
- Meade, T. W.** See Cook, M.
- Meagher, L.**  
Development of the neutrophil degranulation response. 128
- Meagher, L. C.**  
—; Cotter, T. G. HL-60 cells as model myeloid progenitors. 400
- Meats, J. E.** See Best, L.
- Meda, P.** See Anner, B. M.
- Medley, I.** See Herrick, A. L.
- Mehlert, A.**  
—; Lamb, J.; Young, D. Analysis of stress-related proteins involved in the immune response to mycobacterial infection. 721
- Mehra, R.**  
—; McEnroe, M.; Donnelly, W. Quantification of lactoferrin in bovine milk fractions. 215
- Meilak, A.** See Evans, R. W.
- Melling, J.** See Wadsworth, J. D. F.
- Melvin, W. T.** See Doostdar, H.
- Menendez, R.** See Castell, J. V.
- Menon, A. K.**  
—; Schwarz, R. T.; Mayor, S.; Cross, G. A. M. Glycolipid precursor of *Trypanosoma brucei* variant surface glycoproteins: incorporation of radiolabeled mannose and myristic acid in a cell-free system. 996
- Mercer, E. I.** See Long, M. T.; Steel, C. C.
- Meredith, C.**  
—; Austen, B. Antibody probes to the signal sequence of ovalbumin. 36
- Merino, J.** See Stott, D. I.
- Merlevede, W.** See Vanden Abeele, C.
- Merry, A. H.**  
—; Brojer, E.; Zupanska, B.; Hadley, A. G.; Kumpel, B. M.; Hughes-Jones, N. C. Comparison of the ability of monoclonal and polyclonal anti-D antibodies to promote the binding of erythrocytes to lymphocytes, granulocytes and monocytes. 727
- Meyer, D.** See Paver, J. L.
- Meyer, P.** See Kempen, H. J.
- Michaelson, D. M.**  
—; Chapman, J.; Bachar, O.; Korczyn, A. D.; Wertman, E. Antibodies to a 200 kDa cholinergic antigen in Alzheimer's disease. 855
- Michelangeli, F.** See Colyer, J.; Munkonge, F. M.  
—; Rooney, E. K.; Lee, A. G. The effects of oleic acid on the activity of the reconstituted calcium-magnesium-ATPase. 347
- Michell, R. H.** See Barker, C. J.; French, P. J.
- Middleton, A.**  
—; Bonser, N.; Middleton, B. Modulation of low-density lipoprotein binding by cyclic AMP in human vascular smooth muscle cells and skin fibroblasts. 1008
- Middleton, B.** See Middleton, A.
- Miles, C. M. M.** See Dunn, R. C.  
—; Schachter, M.; Dunn, R. C.; Sever, P. S. Oleic acid stimulates phosphoinositide turnover in human platelets. 288
- Miles, M. A.** See Kendall, G.; Rossell, R. J.
- Millburn, P.** See Burke, A. B.; Seymour, M. A.
- Miller, C. J.**  
—; Foxall, P. A.; Harrison, T. J.; Drasar, B. S. Vibrio cholerae hemolysin: genetic constitution and biotype. 638
- Miller, N. E.** See Mindham, M. A.
- Miller, P. G. G.** Courseware for teaching computer-based sequence analysis to undergraduate molecular biologists. 764
- Milligan, G.** See McKenzie, F. R.
- Mills, D.** See Murray, K. J.
- Mills, J.** See Fairclough, A. C.
- Millward, D. J.** See Yahya, Z. A. H.
- Milner, R. E.**  
—; Trayhurn, P. Acute effects of cold on GDP binding and uncoupling protein concentration in brown adipose tissue mitochondria of genetically obese (ob/ob) mice. 1009
- Milner-White, E. J.**  $\gamma$ -Turns as loop motifs in proteins. 50
- Mindham, M. A.**  
—; Mayes, P. A.; Miller, N. E. Evaluation of reverse cholesterol transport in the isolated perfused rat spleen. 282
- Mistry, J.**  
—; Danpure, C. J.; Chalmers, R. A. Hepatic D-glycerate dehydrogenase and glyoxylate reductase deficiency in primary hyperoxaluria type 2. 626
- Mitchell, C. H.** See Arden, G. B.
- Mitchell, R.**  
—; Johnson, M.; Ogier, S. A. Regulation of receptor-operated calcium influx by protein kinase C. 597
- Mohandas, T. K.** See Yoshida, A.
- Moir, A. J. G.** See Dransfield, I.
- Moks, T.** See Uhlen, M.
- Moncada, S.**  
—; Higgs, E. A.; Palmer, R. M. J. Characterization and biological significance of endothelium-derived relaxing factor. 484
- Monks, N. J.**  
—; Baum, H.; Hipkiss, A. R.; Bittles, A. H. Age-dependent growth inhibition of human diploid fibroblasts by 2-deoxyglucose. 617
- Moore, D. C. M.** See Day, I. N. M.
- Moore, G. R.** See Burch, A. M.; Davies, A. M.; Khodr, H.
- Moore, G. W.** A student's view of postgraduate education. 125
- Moore, M.** See Walsh, C.
- Moore, M. R.** See Herrick, A. L.; Houston, T.
- Moran, E.**  
—; O'Kennedy, R.; Phillips, J.; Karr, G. Production and characterization of monoclonal antibodies to human brain tumor cells. 373
- Moreland, B. H.**  
—; Illidge, T. M. Effect of dihydroxy-bile salts on the interaction of trypsin and trypsin inhibitors. 168

- ; Sheerin, N.; Wood, D.; Ayling, C.; Schulster, D.  
Effects of human growth hormone on rat skeletal muscle: increased collagen production. 177
- Morgan, K. G.**  
—; Brozovich, F. V.; Jiang, M. J.  
Measurements of intracellular calcium concentration in mammalian vascular smooth muscle cells during agonist-induced contractions. 493
- Morgan, N. G.** See Chan, S. L. F.
- Morrell, D.** See Yahya, Z. A. H.
- Morris, A. J.** See Barker, C. J.
- Morris, G. E.**  
—; Mackenzie, S. M.; Nguyen Thi Man  
Identification of C-terminal epitopes on creatinine kinase using monoclonal antibodies. 717
- Morris, H. R.** See Garlick, P. B.
- Morris, P.** See Scragg, A. H.
- Morrison, J. N.**  
—; Wood, A. M.; Bremner, I.  
Effects of inflammatory stress on metallothionein-I concentrations in blood cells and plasma of rats. 820
- Moss, S. E.**  
—; Crompton, M. R.; Edwards, H. C.; Crompton, M. J.  
p68: A new protein of the lipocortin family. 813
- Mueller, G.**  
—; Schlenstedt, G.; Wiech, H.; Zimmermann, R.  
Import of proteins into the endoplasmic reticulum. 708
- Muhlemann, M. F.** See Williams, D. G.
- Mulholland, G.** See Douglas, A. J.
- Mullaney, I.** See McKenzie, F. R.
- Muller, D. P. R.** See Goss-Sampson, M. A.
- Mullins, C. J.** See Smith, C. J.
- Mumford, P. A.** See Horsfall, A. C.
- Munkonge, F. M.**  
—; Michelangeli, F.; Lee, A. G.  
Dependence of protein-protein interactions on the lipid-to-protein ratio in reconstituted calcium-magnesium ATPase. 346
- Munro, A. L. S.** See Huntly, P. J.
- Murad, F.**  
Role of cyclic GMP in the mechanism of action of nitrovasodilators, endothelium-dependent agents and atrial natriuretic peptide. 490
- Murant, S. J.** See Freedman, R. B.
- Murphy, G.** See Daly, M.; Hippis, D. S.
- ; Barry, F.  
Fragmentation of cartilage proteoglycans. 188
- Murphy, J. A.**  
—; Chapman, J. A.; Rumsby, M. G.  
Protein kinase C in astrocyte- and oligodendrocyte-enriched brain cell primary cultures: their phorbol ester response. 294
- Murphy, R. F.** See Beattie, R. E.; Douglas, A. J.
- Murray, B. P.**  
—; Boobis, A. R.; De la Torre, R.; Segura, J.; Davies, D. S.  
Inhibition of dietary mutagen activation by methylxanthines. 620
- Murray, I. A.** See Shaw, W. V.
- Murray, K. J.**  
—; England, P. J.; Lynham, J. A.; Mills, D.; Reeves, M. L.  
Measurement of cyclic-AMP-dependent protein kinase activity ratio in heart by use of a synthetic peptide. 355
- Murray, S.** See Watson, D.
- Muwalla, M.** See Hussain, S. T.
- Nagai, K.**  
—; Thoegersen, H. C.; Luisi, B. F.  
Refolding and crystallographic studies of eukaryotic proteins produced in *Escherichia coli*. 108
- Nahorski, S. R.** See Cooke, A. M.
- Nakagawa, T.**  
—; Butterworth, P. J.  
Metabolic changes accompanying phosphate depletion. 785
- Nasreen, R.** See Saeed, S. A.
- Nasseri-Sina, P.**  
—; Seddon, C. E.; Boobis, A. R.; Davies, D. S.  
Cytoprotective effects of 16,16-dimethyl prostaglandin E<sub>2</sub> on paracetamol toxicity in isolated hepatocytes. 641
- Nauffal, D.** See Castell, J. V.
- Neagle, J.** See Hodgson, J. A.
- Neale, M. L.** See Swanson, T.
- Neilan, J.** See Keaveney, M.; Nestor, P.
- Neilson, L.** See Stott, D. I.
- Nestor, P.**  
—; Neilan, J.; Gannon, F.  
The isolation of chicken and African green monkey genomic clones for the estrogen receptor. 388
- Neupert, W.** See Stuart, R. A.
- Neuzil, E.** See Lacoste, A. M.; Pauplin, Y.
- Neville, L. F.**  
—; Arvin, B.; Roberts, P. J.  
Is D-[<sup>3</sup>H]aspartate a useful tool for assessing excitatory amino acid neurotransmitter function? 315
- Nevin, N. C.** See McLean, W. H. I.; Stefani, L. A. J.
- New, M.**  
Congenital adrenal hyperplasia. 691
- Newby, A. C.**  
Metabolic vasodilatation: the role of adenosine. 479
- Newell, M.**  
—; McLoughlin, A. J.; Hussey, C.  
Effect of gene expression on copy number and heritable stability of recombinant plasmids in *Bacillus subtilis*. 192
- Newland, A. C.** See Veys, P. A.
- Newsholme, E. A.** See Leighton, B.
- Newton, R. P.** See Salih, S. G.; Smith, C. J.
- Nguyen Thi Man** See Morris, G. E.
- Nicholas, G. A.** See James, H. M.
- Nicholas, P. C.** See Mali, B.  
Detection of fructose-1,6-diphosphate aldolase after starch gel electrophoresis: theoretical and practical considerations. 750
- Effects of buffer concentrations, pH, triose phosphate isomerase and glycerol-3-phosphate dehydrogenase on the measurement of the activity of aldolase and glyceraldehyde-3-phosphate dehydrogenase. 752
- Determination of fructose-1,6-diphosphate aldolase activity with glyceraldehyde-3-phosphate dehydrogenase and diformazan formation. 753
- Nicholl, D. S. T.** See Urwin, N. A. R.  
Models and simulations in molecular biology. 765
- Mapping and sequencing the human genome: a model for the future. 766
- Nicholls, D.** See Wilkinson, R.
- Nicholls, D. G.** See Barrie, A.; McMahon, H. T.
- Nicholls, I.** See Dorr, A. W.
- Nicholls, P. J.** See Rahman, K.
- Nicholson, D. W.** See Stuart, R. A.
- Nicolau, C.**  
Liposomes and erythrocytes as drug carriers in vivo. 917
- Nielsch, U.**  
—; Keen, P.  
Changes in tachykinin and actin gene expression in rat sensory neurons after cutting or crushing the sciatic nerve. 465
- Nieminen, P.** See Carter, N.
- Nilsson, O.**  
—; Lundqvist, T.; Hahne, S.; Sjöberg, B. M.  
Structure-function studies of the large subunit of ribonucleotide reductase from *Escherichia coli*. 91
- Nishizuka, Y.** See Shearman, M. S.
- Nixon, J. S.** See Davis, P. D.
- Noble, N. J.** See Cooke, A. M.
- Nock, L. P.**  
—; Thomas, H.; Rogers, L. J.  
Mechanisms of chloroplast assembly and disassembly in *Festuca pratensis*. 1053
- Norman, R. I.** See Burgess, A. J.
- Nott, D. M.** See Preedy, V. R.
- Nunn, J. D.**  
—; Walker, B.; Williams, C. H.  
Peptidase activity in mammalian cerebral cortex. 405
- Nussey, S.** See Johnstone, A.; Whitley, G.
- Nuttall, M. E.**  
—; Wallace, H. M.  
Uptake of methylglyoxal bis(guanylhydrazone) by BHK-21/C13 cells. 210
- Oakey, R. E.** See Othman, Y. H. S.
- O'Brien, R. M.** See Tavare, J. M.
- O'Connell, M. J.** See Ward, R. J.
- ; Ward, R. J.; Baum, H.; Treffry, A.; Peters, T. J.  
Evidence of a biosynthetic link between ferritin and hemosiderin. 828
- O'Connor, B.** See Lynskey, E.
- O'Connor, C. M.** See McIlgorm, E. A.; Power, C.
- O'Connor, D.**  
—; Wilton, D.  
Expression of the mature form of yeast citrate synthase in *Escherichia coli*. 718
- O'Connor, P. J.** See Ryan, A. J.
- O'Cuinn, G.** See Elmore, M. A.; Lynskey, E.
- O'Donnell, L.** See O'Meara, N.
- Odoom, J. E.**  
—; Campbell, I. D.; Ellory, J. C.; King, G. F.  
Measurement of peptide transport using proton nuclear magnetic resonance spectroscopy. 635
- Ogden, D.** See Ferro, V.
- Ogier, S. A.** See Mitchell, R.
- Ogita, K.** See Shearman, M. S.
- Ogwang, W.** See Evans, R. W.
- Ohldeick, K.**  
—; Ryan, N. M.  
Immunocytochemical localization of calsequestrin in rabbit skeletal muscle. 380
- Immunocytochemical localization of acetylcholinesterase in human skeletal muscle. 770
- O'Kennedy, R.** See Carroll, K.; Lanigan, B.; Moran, E.
- Olavesen, A. H.** See Lace, D.
- Oldfield, E.**  
Spectroscopic studies of lipids and biological membranes. 1

- Olliff, C. J.** See Brearley, C. A.
- Olufemi, O. S.**  
—; Talwar, D.; Robb, D. A.; Williams, D.  
Identification of two glycated components present in urine. 29
- Olufunwa, R. I.** See Thomas, G. M. H.
- O'Mahony, M. R.**  
—; Kelly, C. T.; Fogarty, W. M.  
Extracellular  $\beta$ -galactosidase of *Pae-* ciomyces varioti. 183
- O'Malley, B. W.** See Conneely, O. M.
- O'Meara, A.** See Ball, R.; Daly, M.
- O'Meara, N.** See Devery, R.  
—; O'Donnell, L.; Owens, D.; Collins, P. B.; Johnson, A. H.; Tomkin, G. H.  
Lipoprotein cholesterol levels in hypercholesterolemic rabbits. 200
- O'Neill, S.**  
—; Weitzman, P. D. J.  
*Acinetobacter calcoaceticus* isocitrate dehydrogenase — fractionation, AMP stimulation and hysteretic behavior. 870
- O'Neill, K.** See Bristow, H.
- O'Neill, L. A. J.**  
—; Lewis, G. P.  
Effect of interleukin-1 on free arachidonic acid levels in human synovial cells. 286  
Effect of antirheumatic drugs on interleukin 1 activity in human synovial cells. 892
- Ong, M. L.**  
—; Ball, S. G.; Vaughan, P. F. T.  
The effect of cyclic AMP on the inhibition of noradrenaline release, from rat occipital cortex tissue chops, by clonidine. 311
- O'Shaughnessy, C. T.** See Fletcher, E. J.
- Osmundsen, H.**  
—; Hovik, R.  
 $\beta$ -Oxidation of polyunsaturated fatty acids. 420
- Othman, Y. H. S.**  
—; Adams, D. J.; Hitchcock, C. A.; Oakey, R. E.  
Estradiol-binding protein in *Candida albicans*. 789
- Overath, P.** See Czichos, J.
- Owen, J. S.** See Desai, K.; Lima, V. L. M.
- Owens, D.** See Devery, R.; O'Meara, N.  
—; Collins, P.; Johnson, A.; Tomkin, G.  
Regulation of mitogen-induced lymphocyte transformation by low density lipoprotein. 202
- Owusu, S.**  
—; Wood, E. J.  
Ornithine decarboxylase levels in normal and psoriatic skin. 329
- Packard, C. J.** See Shallal, A.
- Page, M. G. P.**  
NAD(P)H-cytochrome reductase from *Escherichia coli*. 872
- Page, P. C. B.** See Agathocleous, D. C.
- Pall, H. S.** See Bhatti, A. R.
- Pallanza, G.** See Casella, L.
- Palmer, A. M.**  
—; Lowe, S. L.; Francis, P. T.; Bowen, D. M.  
Are post-mortem biochemical studies of human brain worthwhile? 472
- Palmer, A. V.** See Stefani, L. A. J.
- Palmer, R. M. J.** See Moncada, S.
- Palmer, S.**  
—; Hughes, K. T.; Lee, D. Y.; Wakelam, M. J. O.  
Measurement of intracellular inositol 1,4,5-trisphosphate concentrations in unstimulated and vasopressin-stimulated rat hepatocytes using a novel inositol 1,4,5-trisphosphate-specific binding assay. 991
- Palmer, T. N.** See Cox, D. J.; Davis, J. R.; Lyons, P. A.; Preece, J. A.
- Papahadjopoulos, D.**  
Liposome formation and properties: an evolutionary profile. 910
- Paraskeva, C.** See Corfield, A. P.
- Parish, D. C.** See Tezapsidis, N.
- Parish, J. H.** See Booth, A. G.
- Parker, C. N.**  
—; Halford, S. E.  
How does resolvase sense the orientation of res sites that are distantly spaced? 754
- Parker, J. R.**  
—; Wheeler, K. P.  
Proteins present in proteoliposomes containing a sodium-dependent alanine transporter. 344
- Parkhouse, R. M. E.** See Paver, J. L.
- Parodi, A. J.** See Bosch, M.
- Parr, A. J.** See Robins, R. J.
- Partridge, L. J.** See Dransfield, I.
- Partridge, S.** See Hughes, M. S.; Thomas, G. M. H.  
—; Hughes, M. S.; Thomas, G. M. H.; Birch, N. J.  
Lithium transport in erythrocytes. 205
- Patel, A. J.** See Hunt, A.; Seaton, P.
- Patel, B. N.**  
—; Jones, J.; Skidmore, C. J.  
Effect of inhibitors of ADP-ribosylation on NAD<sup>+</sup> metabolism in leukemic cells. 869
- Patel, H. M.**  
—; Russell, N. J.  
Liposomes: from membrane model to therapeutic applications. Introductory remarks. 909
- Patel, K. J.** See Evans, R. W.
- Patel, N. J.**  
—; Llewelyn, J. G.; Thomas, P. K.  
Sodium/potassium ATPase activity in peripheral nervous tissue of galactosemic and diabetic rats. 306
- Patel, Y.** See Krishnamurthi, S.
- Patestos, N. P.**  
—; Radola, B. J.  
Native protein blotting after isoelectric focusing in fabric-reinforced polyacrylamide gels. 154
- Patrick, A. D.** See Hall, N. A.
- Paul, F. E.** See Hughes, W. M.
- Pauplin, Y.**  
—; Hombrados, I.; Faure, F.; Han, K. K.; Neuzil, E.  
The primary structure of the  $\beta$ -chain of the hemoglobins of the ferret (*Mustela putorius furo*). 608
- Paver, J. L.**  
—; Freedman, R. B.; Hortsch, M.; Meyer, D.  
Specific release of protein disulfide-isomerase from pancreatic microsomal membranes. 58
- Patton, M.** See Box, R. J.
- Porter, C. D.**  
—; Blake, N. W.; Archard, L. C.  
Structure and activity of epidermal growth factor-like peptides: induction of basal cell proliferation by a poxvirus gene product? 671
- Potter, B. V. L.** See Cooke, A. M.; Taylor, C. W.
- Powell, G. M.** See Richards, S.
- Power, C.** See McIlgorm, E. A.  
—; O'Connor, C. M.; Fitzgerald, M. X.  
Characteristics of human alveolar macrophage collagenase. 391
- Pay, G. F.** See Tones, M. A.
- Peacock, L. I. L.**  
—; Wahle, K. W. J.  
Isomeric cis and trans fatty acids and porcine platelet reactivity to collagen in vitro. 291
- Pearson, D. J.** See Brooks, S. T.
- Pearson, J. D.**  
Purine nucleotides as regulators of vessel tone. 480
- Peat, D.** See Divecha, N.
- Pennington, J.**  
—; Scott, A. K.; Reid, I. W.; Hawksworth, G. M.  
Changes in rat hepatic UDP-glucuronosyltransferase activity after induction of hyper- or hypothyroidism, are substrate dependent. 892
- Perham, R. N.**  
—; Berry, A.; Scrutton, N. S.  
Flavoprotein disulfide oxidoreductases: protein engineering of glutathione reductase from *Escherichia coli*. 84
- Perrett, D.** See French, R. C.
- Perry, B. N.**  
—; Savva, D.; Skidmore, C. J.  
Are all growth hormone genes glucocorticoid responsive? 176
- Perry, N.**  
—; Spencer, P.; Gore, M.; Scawen, M.; Atkinson, T.  
Presence of residues in the glycerol dehydrogenase from *Bacillus stearothermophilus* reactive to the reagent pyridoxal 5-phosphate. 976
- Persson, B.** See Joernvall, H.
- Perumal, R.** See Kwan, T. K.
- Peters, T.** See Preedy, V. R.
- Peters, T. J.** See Christensen, J. R.; Dorey, C.; Fawcett, J.; Heywood, D.; Waddington, D.; O'Connell, M. J.; Preedy, V. R.; Simpson, K. J.; Ward, R. J.  
—; Ward, R. J.; Duane, P.; Preedy, V. R.  
Clinical and experimental skeletal muscle alcoholic myopathy. 250
- Phillips, J.** See Moran, E.
- Phillips, J. D.** See Wilson, A. S.
- Phillips, J. H.** See Haigh, J. R.
- Phillips, M. E. A.** See France, T. D.
- Pilkington, G.** See Woods, M. D.
- Pillay, T. S.** See Tavare, J. M.
- Piper, P. J.**  
—; Stanton, A. W. B.; Yaacob, H. B.; Antoniw, J.  
Leukotrienes in the cardiovascular system. 482
- Pockley, A. G.**  
—; Bolton, A. E.  
Effect of decidual placental protein 14 on interleukin-2-lymphocyte interactions. 794
- Pollard, J. W.** See Jahan, M.
- Pollock, H. T.** See Faulkner, A.
- Poole, R. C.**  
—; Halestrap, A. P.  
Purification of a 55 kDa mitochondrial protein by  $\alpha$ -cyanocinnamate affinity chromatography. 602
- Portenier, M.** See Box, R. J.
- Porter, C. D.**  
—; Blake, N. W.; Archard, L. C.  
Structure and activity of epidermal growth factor-like peptides: induction of basal cell proliferation by a poxvirus gene product? 671
- Potter, B. V. L.** See Cooke, A. M.; Taylor, C. W.
- Powell, G. M.** See Richards, S.
- Power, C.** See McIlgorm, E. A.  
—; O'Connor, C. M.; Fitzgerald, M. X.  
Characteristics of human alveolar macrophage collagenase. 391

- Power, R. F.**  
—; Headon, D. R.  
The molecular cloning and expression of the human gene for heat shock protein 108. 174
- Preece, J. A.**  
—; Cook, E. E.; Cox, D. J.; Palmer, T. N.  
Increased muscle glycogen-glucose-1-phosphate cycling in acute uremia in the rat. 578
- Preedy, V. R.** See Peters, T. J.
- ; Edwards, P. A.; Gibbs, P. J.; Peters, T.  
Response of cardiac muscle protein synthesis to chronic ethanol exposure. 783
- ; Garlick, P. J.  
Effects of parenterally administered glucose and amino acid solutions for 6 h on cardiac muscle protein synthesis in fasted rats. 782
- ; Peters, T. J.  
Effect of chronic ethanol ingestion on protein turnover in soleus and plantaris muscles of the rat. 571
- ; Venkatesan, S.; Peters, T. J.; Nott, D. M.; Yates, J.; Jenkins, S. A.  
Effect of chronic ethanol administration on musculo-skeletal blood flow in the rat. 576
- Prescott, A.** See Mangnall, D.
- Prescott, A. R.** See Woodley, J. F.
- Prescott, C. D.**  
—; Green, S. R.; Tuite, M. F.  
Molecular analysis of the eukaryotic initiation factor eIF-2 from yeast. 45
- Prescott, M.** See Agathocleous, D. C.; Taylor, G. E.
- Price, C.**  
—; Bickle, T. A.  
Evolution of DNA sequence specificity in type I restriction enzymes. 942
- Price, R. J.** See Skilleter, D. N.
- Priestle, J. P.**  
—; Schaer, H. P.; Gruetter, M. G.  
The three-dimensional structure of interleukin-1 $\beta$ . 949
- Princen, H.** See Kempen, H. J.
- Pringle, J. A. S.** See Hayman, A. R.
- Pritchard, K.** See Marston, S.
- ; Marston, S. B.  
The control of calcium-regulated thin filaments from vascular smooth muscle by calmodulin and other calcium-binding proteins. 355
- Puente, J.** See Lavandero, S.
- Punchard, N. A.** See Berry, R. M.
- Pusztais, A.** See Grant, G.; Santoro, L. G.
- Quant, P. A.**  
—; Tubbs, P. K.; Brand, M. D.  
Mannoheptulose and glucagon treatment of fed rats stimulates 3-hydroxy-3-methylglutaryl-CoA synthase activity in rat liver mitochondria by desuccinylation of the enzyme. 633
- Qureshi, H.** See Rahman, M. A.
- Radda, G. K.** See Allis, J. L.; Endre, Z. H.
- Rademacher, T. W.** See Ferguson, M. A. J.
- Radola, B. J.** See Patestos, N. P.
- Rahman, K.**  
—; Voss, U.; Nicholls, P. J.; Malcolm, A. D. B.  
Nucleic acid purification by fast protein liquid chromatography. 368
- Rahman, M. A.**  
—; Qureshi, H.  
Nonenzymically glycated proteins in human blood and lenticular tissue. 648
- Rajan, S. R.** See Heywood, B. R.
- Rammohan, K.** See Farooqui, A. A.
- Ramsden, D. B.** See Bhatti, A. R.
- Rapoza, A.** See Toth, C. A.
- Rashatwar, S. S.** See Lincoln, T. M.
- Ratcliffe, P. J.** See Endre, Z. H.
- Ratledge, C.**  
Yeasts for lipid production. 1088
- Rattray, M.**  
—; De Belleroche, J.  
Evidence for time dependence of morphine effects on cholecystokinin release from rat periaqueductal grey. 538
- Raxworthy, M. J.** See Depledge, M.; Rowling, P. J. E.; Wood, E. J.
- ; Holland, D. B.; Cunliffe, W. J.; Wood, E. J.  
Vitamin A and calcium ions have distinct effects on keratin expression in epithelial cells. 327
- Redwood, C.** See Marston, S.
- Reed, B. Y.**  
—; King, M. T.; Gerhart, M. J.; Veech, R. L.  
Effects of angiotensin in the liver of the rat *in vivo*. 636
- Reed, L. J.**  
—; De Belleroche, J.  
Elevated polyphosphoinositide responsiveness and increased ornithine decarboxylase activity in the cerebral cortex induced by cholinergic denervation. 467
- Reed, P. J.** See Tam, R. C.
- Reen, D. J.** See Doran, M.  
Assessment of immunoblotting in the investigation of specific immune responses during infection. 132
- Reeves, M. L.** See Murray, K. J.
- Reid, A. D.** See Baker, P. R.
- Reid, G. A.**  
—; Walker, M. E.  
Mitochondrial protein targeting signals. 709
- Reid, I. W.** See Pennington, J.
- Reid, K. B. M.** See Malhotra, R.
- Reid, L.** See Freedman, R. B.
- Reid, N.** See Ward, R. J.
- Reidlinger, J. A.** See Tuzi, N. L.
- Renaudin, J. P.**  
—; Guern, J.  
Compartmentation of ajmalicine in the vacuoles from *Catharanthus roseus*. 63
- Rennie, P. J.**  
—; Holland, K. T.; Mallet, A. I.; Watson, W. J.; Gower, D. B.  
Use of capillary gas chromatography-mass spectrometry in the elucidation of odorous 16-androstene metabolism in human axillary bacteria. 738
- Renz, M.** See Hitzeman, R. A.
- Rey, H. G.** See Anner, B. M.
- Reynolds, R.** See Carey, E. M.
- Rhodes, M. J. C.** See Robins, R. J.
- Rice-Evans, C.** See Horton, R. A.; Jones, S. A.
- Rich, K. J.**  
—; Boobis, A. R.; Foster, J. R.; Sesardic, D.; Davies, D. S.  
Immunohistochemical localization of cytochrome P-450 b/e in hepatic and extrahepatic rat tissues. 642
- Richards, R. J.** See Lewis, R. W.
- Richards, R. L.**  
—; Hayre, M. D.; Hockmeyer, W. T.; Alving, C. R.  
Liposomes as carriers for a human malaria sporozoite vaccine. 921
- Richards, S.**  
—; Scott, I. R.; Harding, C. R.; Powell, G. M.; Curtis, C. G.  
Filaggrin: a novel component of the cornified envelope of the newborn rat. 324
- Richardson, D. J.** See McEwan, A. G.
- Ridley, S. M.** See Walker, K. A.
- Rigby, S. E. J.** See Burch, A. M.
- Rigg, H.**  
—; Knox, P.  
Low density lipoprotein inhibits the cell adhesion stimulating properties of human serum. 560
- Rigney, E. M.**  
—; Mantle, T. J.  
Chloride abolishes flux through the 'substrate inhibition' pathway of biliverdin reductase. 403
- Rivett, A. J.**  
A complex high molecular mass non-lysosomal proteinase of mammalian cells. 629
- Robb, D. A.** See Olufemi, O. S.
- Roberts, G. A.**  
—; Tombs, M. P.  
Surface properties of Chromobacter viscosum lipase at a heptane-water interface. 273
- Roberts, G. C. K.**  
Molecular recognition by dihydrofolate reductase: NMR studies of protein-ligand interactions. 925
- Roberts, G. M.** See Zhang, L.
- Roberts, J. A.**  
—; Husain, O. A. N.; Chayen, J.; Bitensky, L.  
The need for examining enzymic activity in intact cells to discriminate bladder malignancy. 555
- Roberts, P. J.** See Kuonen, D. R.; Neville, L. F.; Sharpe, J. A.
- Robins, R. J.**  
—; Parr, A. J.; Rhodes, M. J. C.  
The use of continuous product removal to influence the distribution and net production of alkaloids by cell cultures. 67
- Robins, S. P.** See Black, D.
- Robinson, C.** See Ellis, R. J.
- Robinson, D.**  
Shedding light on lysosomes – applications of fluorescence techniques to cell biology and diagnosis of lysosomal disorders. 11
- Rodger, I. W.** See Langlands, J. M.
- Rodrigues, L. M.** See Stubbs, M.
- Roesler, W. J.** See Sohal, P. S.
- Rogers, L. J.** See Davies, T. G. E.; Nock, L. P.
- Rolfe, P.** See Thorniley, M. S.
- Rombauts, W. A. J. A.**  
A European perspective on postgraduate education. 122
- Romero, F. J.** See Almar, M. M.
- Roncero, C.** See Lorenzo, M.
- Rooney, E. K.** See Michelangeli, F.
- Rossell, R. J.**  
—; Stevens, A. F.; Miles, M. A.; Allen, A. K.  
Interaction of lectins with the parasitic protozoans *Trypanosoma cruzi* and *Leishmania*. 586
- Rossi, A. G.**  
—; MacIntyre, D. E.; McMillan, R. M.  
Human neutrophil activation: cytosolic free calcium – thresholds for aggregation, degranulation, leukotriene B<sub>4</sub> synthesis and phosphatidate formation. 37
- Rowatt, E.**  
—; Williams, R. J. P.  
Specificity of cation binding by a dye and a lipopolysaccharide. 716

- Rowling, P. J. E.** See Depledge, M.  
 —; Raxworthy, M. J.; Kearney, J. N.  
 Collagenase activity during the re= modeling of a dermal equivalent. 326
- Rowney, D. A.** See Hodgins, M. B.
- Rugg, E. L.**  
 —; Cramb, G.; Aiton, J. F.  
 Characterization of atrial natriuretic peptide receptors in rat cardiac sarcolemma. 1022
- Ruiz de Elvira, M. C.**  
 —; Sinha, A. K.; Ekins, R. P.  
 Development of an enzyme assay for the measurement of calmodulin-de= pendent phosphatase in brain tis= sue. 297
- Rumsby, M. G.** See Murphy, J. A.
- Ruparelia, B.** See Watson, D.
- Rushmere, N. K.** See Davies, P.
- Russell, M. G. N.** See Davis, P. D.
- Russell, N. J.** See Patel, H. M.
- Russell, R. G. G.** See Kemp, G. J.
- Rutherford, D. M.**  
 —; Jeffery, D.; Lunt, G. G.; Weitz= man, P. D. J.  
 Benzodiazepine receptors in locust (*Schistocerca gregaria*) ganglia: binding of Ro15-1788. 310
- Rutter, G. A.**  
 —; Denton, R. M.  
 Rapid purification and properties of pig heart NAD<sup>+</sup>-isocitrate dehydro= genase. 873
- Ryan, A. J.**  
 —; Blanchard, A. D.; O'Connor, P. J.; Billett, M. A.  
 Micrococcal nuclease digests intranu= cleosomal DNA of inactive genes more rapidly than active genes. 1060
- ; O'Connor, P. J.; Billett, M. A.  
 Increased oncogene expression in livers of rats after exposure to dime= thylnitrosamine. 1058
- Ryan, J. P.**  
 —; Davis, G.  
 Inhibition of prostaglandin synthase by some low molecular mass fatty acids. 398
- Ryan, M. P.** See Godson, C.
- Ryan, N. M.** See Ohlendieck, K.
- Rye, P. D.**  
 —; Walker, R. A.  
 Altered expression in vitro of human breast tumor associated glycopro= teins by hormone additives. 1026
- Sadler, P. J.** See Bell, J. D.
- Saeed, S. A.**  
 Purification of human lactate dehy= drogenase isoenzymes by preparative gel electrophoresis, gel chromatogra= phy and ion-exchange chromatogra= phy. 18  
 Tissue-specific regulation of platelet aggregation: inhibition of rat liver cytosol. 898
- ; Gilani, A. H.  
 Differential effects of anticholinergic drugs on platelet aggregation in= duced by platelet-activating factor and other agents. 815
- ; Karimi, S. J.; Atta-ur-Rahman; Suria, A.  
 Inhibitors of human platelet aggrega= tion in barley extracts. 19
- ; Nasreen, R.; Amirali, S.; Suria, A.  
 Inhibition of arachidonate lipoxyge= nase by ketotifen. 814
- Safford, R.** See Sheldon, P. S.
- Sagar, K. A.**  
 —; Masterson, B. F.  
 Stability of the heme of oxyhemoglo= bin denatured by alkali. 386
- Saito, N.** See Shearman, M. S.
- Saih, S. G.**  
 —; Khan, J. A.; Newton, R. P.  
 Cytidine 3',5'-cyclic monophosphate phosphodiesterase: immunoreactivi= ty and differential sensitivity to endogenous effectors. 774
- Salim, M. L.**  
 —; El Jamil, A. S.; Harrington, M. G.  
 Effects of dietary supplementation with pyridoxal 5'-phosphate and polyunsaturated fatty acids on rat platelet aggregation. 385
- Sanghera, G. S.** See Barker, P. D.
- Santoro, L. G.**  
 —; Grant, G.; Puszta, A.  
 Differences in the degradation in vivo and in vitro of phaseolin, the major storage protein of *Phaseolus vulgaris* seeds. 612
- Sapag-Hagar, M.** See Lavandero, S.
- Saperstein, R.** See Vicario, P. P.
- Sardiwal, S.** See Brammer, M.
- Sarra, R.** See Lindley, P. F.
- Sattelle, D. B.** See Lummis, S. C. R.
- Saunders, D.** See Fallowfield, C.
- Savva, D.** See Perry, B. N.
- Sawecka, J.** See Blair, G. E.
- Scaife, C.**  
 —; Masterson, B. F.  
 Proton dissociations of metal com= plexes of naturally occurring carbox= ylic acids. 406
- Scarlett, L.** See Forster, S.
- Scawen, M.** See Perry, N.; Spencer, P.
- Schachter, M.** See Dunn, R. C.; Miles, C. M. M.
- Schaer, H. P.** See Priestle, J. P.
- Scharpe, S.** See Hendriks, D.
- Scherly, D.** See Hamm, J.
- Schiffmann, Y.**  
 Hormone action as an explosive reac= tion. 562  
 Bifurcation in phosphorylation. 645
- Schlundstedt, G.** See Mueller, G.
- Schmidt, H.**  
 —; Wegener, G.  
 Glycogen phosphorylase in fish brain (*Carassius carassius*) during hypo= xia. 621
- Schrader, W. T.** See Conneely, O. M.
- Schulster, D.** See Moreland, B. H.
- Schultz-Borchard, U.** See Kunau, W. H.
- Schulz, G. E.**  
 —; Karplus, P. A.  
 High resolution structure and catalyt= ic action of human glutathione reductase. 81
- Schurmanns, S.** See Stott, D. I.
- Schuster, W.** See Martin, F.
- Schwarz, R. T.** See Menon, A. K.
- Scobie, G.** See Llewellyn, D. H.
- Scott, A. K.** See Pennington, J.
- Scott, D. L.** See French, R. C.
- Scott, I. R.** See Richards, S.
- Scott, J. E.**  
 —; Haigh, M.; Ali, P.  
 Keratan sulfate is unevenly distribut= ed from back to front of bovine cornea. 333
- Scrapp, A. H.**  
 —; Morris, P.; Bond, P.; Ashton, S.; Cresswell, R. C.; Fowler, M. W.  
 Production of alkaloids in large-scale cultures of *Catharanthus roseus*. 65
- Scrutton, N. S.** See Perham, R. N.
- Seaton, P.** See Hunt, A.
- ; Hunt, A.; Patel, A. J.  
 Production by astrocytes of a tropic factor for cholinergic neurons. 296
- Seddon, C. E.** See Nasseri-Sina, P.
- Segura, J.** See Murray, B. P.
- Sekiguchi, K.** See Shearman, M. S.
- Sellers, L. A.** See Mall, A. S.
- Sesardic, D.** See Rich, K. J.
- Seto-Oshima, A.**  
 —; Emson, P. C.; Berchtold, M. W.; Heizmann, C. W.  
 Localization of sites of parvalbumin gene expression. 313
- Sever, P. S.** See Dunn, R. C.; Miles, C. M. M.
- Seymour, M. A.**  
 —; Millburn, P.; Tait, G. H.  
 Comparative enzymology of hippu= rate, ornithurate and benzoyl glucu= ronide synthesis. 1021
- Shallal, A.**  
 —; Al-Mahdawi, S.; Converse, C. A.; Packard, C. J.; Shepherd, J.  
 Cross-reactivity between anti-apoli= poprotein E antisera and retinal interphotoreceptor retinoid-binding protein. 318
- Shamsadeen, N.**  
 —; Duncan, C. J.  
 Action of lysosomotropic agents on mammalian skeletal muscle. 786  
 Is there an oxygen paradox in skeletal muscle? 1050
- Shand, J. H.**  
 —; West, D. W.  
 Cholesterol ester synthesis in the rat mammary gland. 1013
- Sharif, M. A.**  
 —; Whish, W. J. D.; White, C. J. B.; Brunt, R. V.  
 Identification of an adenosine-de= pendent trifluoperazine (Stelazine)-= sensitive system in the tegumental membrane of the rat tapeworm *Hymenolepis diminuta*. 868
- Sharma, R. J.**  
 —; Grant, D. A. W.  
 Does ethanol have a biphasic effect on iron uptake from transferrin by isolated hepatocytes? 575  
 The uptake of iron by hepatocytes is not coincident with transferrin endocytosis. 618
- Sharpe, J. A.**  
 —; Roberts, P. J.  
 Solubilization of L-[<sup>3</sup>H]-glutamate binding sites sensitive to N-methy= laspartate and quisqualate. 314
- Shaw, W. V.** See Day, P. J.; Thomas, C. D.
- ; Day, P.; Lewendon, A.; Murray, I. A.  
 Tinkering with antibiotic resistance: chloramphenicol acetyltransferase and its substrates. 939
- Shearman, M. S.**  
 —; Ase, K.; Saito, N.; Sekiguchi, K.; Ogita, K.; Kikkawa, U.; Tanaka, C.; Nishizuka, Y.  
 Molecular heterogeneity and differen= tial expression of multiple protein kinase C subspecies in central nerv= ous tissue. 460
- ; Kosaka, Y.; Ase, K.; Kikkawa, U.; Nishizuka, Y.  
 Type I (γ) protein kinase C subspe= cies appears to be located exclusively in central nervous tissues. 307
- Sheerin, N.** See Moreland, B. H.
- Sheldon, P. S.**  
 —; Safford, R.; Slabas, A. R.; Kek= wick, R. G. O.  
 2-Oxoacyl-[acyl carrier protein] reductase: a component of plant fatty acid synthase. 392
- Shelton, J. B.**  
 —; Chegwidden, W. R.  
 Activation of carbonic anhydrase III by phosphate. 853

- Shepherd, I. M.** See Turnbull, D. M.  
**Shepherd, J.** See Shallal, A.  
**Sheridan, M.**  
 —; Wilton, D.  
 Dansylaminodecyl agarose – a novel affinity column for rat liver fatty acid binding protein. 719  
**Sherratt, H. S. A.**  
 The enzymology of  $\beta$ -oxidation. 409  
**Sheth, B.** See Dransfield, I.  
**Shibuya, A.** See Yoshida, A.  
**Shields, D.**  
 —; McConnell, D. J.; Winder, F. G.  
 Cloning of part of the gene for bovine deoxyribonuclease I. 195  
**Shone, C. C.** See Wadsworth, J. D. F.  
**Shori, D. K.**  
 —; Bradbury, N. A.; Goodchild, M. G.; Dormer, R. L.; McPherson, M. A.  
 Altered calmodulin function in cystic fibrosis. 345  
**Short, K. C.**  
 A public sector viewpoint of research 128  
**Siddall, R. M.**  
 Career opportunity for postgraduate students. 128  
**Siddle, K.** See Tavare, J. M.  
**Sim, R. B.** See Malhotra, R.  
**Simon, J. M.**  
 —; Duffy, M. J.  
 Distribution, characterization and clinical significance of a cathepsin B-like enzyme in breast cancer. 192  
**Simpson, A. J. G.**  
 —; Ali, P. O.; Yi, X.; Smithers, S. R.  
 Schistosome glycoconjugates as antigens and their relevance in experimental and human schistosomiasis. 264  
**Simpson, K. J.**  
 —; Venkatesan, S.; Peters, T. J.  
 Effect of acute alcohol dosage on hepatic acetyl-CoA carboxylase and fatty acid synthase activities. 580  
**Simpson, R. J.** See Dorey, C.  
**Singh, A.** See Hitzeman, R. A.  
**Singh, J.** See Thornton, J. M.  
**Singh, S.** See Barlow, D. J.  
**Sinha, A. K.** See Ruiz de Elvira, M. C.  
**Sinnett-Smith, P. A.** See Harrison, L. M.  
**Sjoeberg, B. M.** See Nilsson, O.  
**Skacel, P. O.**  
 —; Watkins, W. M.  
 $\alpha$ -3-Fucosyltransferase expression in leukemia. 1034  
**Skidmore, C. J.** See Farouque, S. M.; Ferrie, R. M.; Patel, B. N.; Perry, B. N.  
**Skillet, D. N.**  
 —; Price, R. J.  
 Effects of beryllium ions on tyrosine phosphorylation. 1047  
**Slabas, A. R.** See Sheldon, P. S.  
**Slaughter, R. S.** See Kaczorowski, G. J.  
**Slayer, H. S.** See Hutton, D. A.  
**Slow, Y.** See Baker, P. R.  
**Small, C. A.**  
 —; Garton, A. J.; Yeaman, S. J.  
 Evidence for the presence of hormone-sensitive lipase in heart muscle. 1038  
**Small, G. M.** See Lazarow, P. B.  
**Smallwood, A. E.** See Makoff, A. J.  
**Smeaton, L. A.** See Lynn, A. G.  
**Smith, B. W.** See King, D. J.  
**Smith, C. A.** See James, H. M.  
**Smith, C. J.**  
 —; Newton, R. P.; Mullins, C. J.; Walton, T. J.  
**Plant host-pathogen interaction:**  
 elicitation of phenylalanine ammonia lyase activity and its mediation by calcium. 1069  
**Smith, D. E.** See Fisher, P. A.  
**Smith, G. D.** See Christensen, J. R.; Fawcett, J.  
**Smith, J. M. A.**  
 —; Ford, G. C.; Harrison, P. M.  
 Very-low-resolution structure of a bacterioferritin. 836  
**Smith, K. R.** See Booth, A. G.  
**Smith, L. D.**  
 —; Bungard, S. J.; Danson, M. J.; Hough, D. W.  
 Archaeabacterial dehydrogenases with dual cofactor specificity: glucose dehydrogenase from *Thermoplasma acidophilum*. 864  
**Smith, M.** See Davies, A. M.  
 Molecular genetic studies on alcohol and aldehyde dehydrogenase: individual variation, gene mapping and analysis of regulation. 227  
**Smith, P. E.** See Bunn, D. N.  
**Smith, R.** See King, G. F.  
**Smith, T. A.**  
 —; Marshall, J. H. A.  
 Oxidative decarboxylation of amino acids by plant extracts. 972  
**Smith, T. P.** See Lockhart, B. P.  
**Smithers, S. R.** See Simpson, A. J. G.  
**Smyth, D. G.** See Cockle, S. M.  
**Smyth, H.** See McGuinness, M.  
**Smyth, P. P. A.** See Corcoran, A. E.  
**Snell, K.**  
 —; Barnett, C. R.  
 Sere metabolism in lectin-activated human lymphocytes. 622  
**Sohal, P. S.**  
 —; Roesler, W. J.; Khandelwal, R. L.; Angel, J. F.  
 Age-related changes in hepatic malic enzyme activity and plasma thyroid hormone levels in the genetically diabetic (db/db) mouse. 31  
 Hormonal regulation of malic enzyme and glucose-6-phosphate dehydrogenase in adult rat liver. 33  
**Soler, G.** See Bautista, J. M.  
**Spencer, I. M.** See Hughes, G. M.  
 —; Hargreaves, I.; Chegwidden, W. R.  
 Effect of the carbonic anhydrase inhibitor acetazolamide on lipid synthesis in the locust. 973  
**Spencer, P.** See Perry, N.  
 —; Bown, K.; Scawen, M.; Atkinson, T.; Gore, M.  
 Interaction between the apo-glycerol dehydrogenase from *Bacillus stearothermophilus* and zinc ions. 975  
**Spencer, S.**  
 —; Burnet, F.  
 Developmental changes in avian hepatic testosterone metabolism. 22  
**Spiegel, A. M.** See McKenzie, F. R.  
**Spiro, S.**  
 —; Todd, M. H.; Artymiuk, P. J.; Guest, J. R.  
 A proposal for the DNA-binding specificity of the FNR protein of *Escherichia coli*. 755  
**Sprandel, U.**  
 —; Zoellner, N.  
 Biochemical studies of glucosidase encapsulated in erythrocytes. 1051  
**Stace, B. C.** See Dorr, A. W.  
**Staelelin, M.** See Box, R. J.  
**Stanton, A. W. B.** See Piper, P. J.  
**Stapleton, A.** See Brown, M. C. S.  
**Stebbing, A.** See Winterbourne, D. J.  
**Steel, C. C.** See Long, M. T.  
 —; Mercer, E. I.  
 Glucose permeability of liposome vesicles prepared with sterol extracts from fenpropimorph-grown fungi. 350  
**Steele, G.** See Toth, C. A.  
**Stefani, L. A. J.**  
 —; Palmer, A. V.; Galt, J.; Ferguson—  
 Smith, M. A.; Nevin, N. C.  
 The expression of sequences which map to chromosome 21 in normal and Down's syndrome tissues. 171  
**Stegeman, J. J.** See Livingstone, D. R.  
**Steven, F. S.**  
 —; Griffin, M. M.; Maier, H.  
 Inhibition of a tumor-associated protease. 556  
**Stevens, A. F.** See Rossell, R. J.  
**Stewart, G. S. A. B.** See Ahmad, K. A.; Iwanejko, L. A.  
**Stewart, J. C.** See Grant, G.  
**Stirling, J. M.**  
 —; Cross, A. J.; Green, A. R.  
 [ $^3\text{H}$ ]1-[1-(2-Thienyl)-cyclohexyl]picridine binding to the N-methyl-D-aspartic acid receptor complex. 300  
**Stirling, Y.** See Cook, M.  
**Stoecker, G.**  
 —; Greiling, H.; Wagener, C.  
 Rapid identification of biotinylated proteoglycans from human aorta by enzymic digestion and Western blots. 159  
**Stott, D. I.**  
 —; Hassman, R.; Neilson, L.; McGregor, A. M.  
 Isoelectric focusing spectrotypes of anti-thyroglobulin autoantibodies in autoimmune thyroiditis: an AUG rat model. 728  
 Isoelectric focusing spectrotypes of anti-thyroglobulin autoantibodies in autoimmune thyroiditis: a PVG rat model. 729  
 —; Merino, J.; Schurmans, S.; Lambert, P. H.  
 Analysis of the autoimmune response to DNA in tolerant mice by isoelectric focusing and reverse immunoblotting. 1: Clonal restriction and time course. 147  
 Analysis of the autoimmune response to DNA in tolerant mice by isoelectric focusing and reverse immunoblotting. 2: The role of helper T-cells and major histocompatibility complex antigens. 148  
**Strain, J. J.** See Eason, S.  
**Strange, P. G.** See Williamson, R. A.  
**Street, G.**  
 The impingement of biochemistry on chemical engineering. 516  
**Strike, A. J.** See Khodr, H.  
**Strupish, J.** See Cooke, A. M.  
**Stuart, R. A.**  
 —; Nicholson, D. W.; Harmey, M. A.; Neupert, W.  
 Biogenesis of mitochondrial proteins. 701  
**Stubberfield, C. R.**  
 —; Forrow, S. M. A.; Zaera, E.; Cohen, G. M.  
 Redox cycling quinones induce an interconversion of hepatocyte pyridine nucleotides. 866  
**Stubbs, M.**  
 —; Vanstapel, F.; Rodrigues, L. M.; Griffiths, J. R.  
 Phosphate metabolites in rat skin. 324  
**Stutchfield, J.**  
 —; Cockcroft, S.  
 Effects of phorbol ester on inositol trisphosphate production and secretion in permeabilized HL 60 cells. 994

- Sudbery, P. E.**  
—; Gleeson, M. A.; Veale, R. A.; Ledesma, A. M.; Zoetmulder, M. C. M. Hansenula polymorpha as a novel yeast system for the expression of heterologous genes. 1081
- Suer, A. H.** See Wali, F. A.
- Sugden, M. C.** See Cox, D. J.; Holness, M. J.; Jin, D. Y.  
—; French, T. J.; Holness, M. J. Insulin affects hepatic carnitine metabolism after the administration of glucose to 48-h-starved rats. 1014  
—; Holness, M. J.; Jin, D. Y.; MacLennan, P. A.; Goode, A. W. Cardiac pyruvate dehydrogenase complex activity after aortic constriction. 772  
—; MacLennan, P. A.; Holness, M. J. Effects of substrate supply on hepatic fructose 2,6-bisphosphate concentrations in vivo. 1015
- Sugrue, R.**  
—; Freedman, R. B.; Lowe, P. A.; Marston, F. A. O. Reversible and irreversible denaturation: rationale for a process for recovery of recombinant prochymosin. 59
- Suleiman, M. S.** Towards understanding the role of the sodium-calcium exchanger in cardiovascular activities: utilization of harmaline. 539
- Effect of variation in external sodium concentration on ileal smooth muscle of the rabbit, guinea pig and the rat. 588
- Sodium-calcium exchanger and the origin of spontaneous contractions in intestinal smooth muscle: utilization of harmaline. 589
- Suria, A.** See Saeed, S. A.
- Sutherland, I. A.** See Heywood-Waddington, D.
- Sutherland, J. L.**  
—; Coleman, G. A comparison of exotoxin patterns of *Staphylococcus aureus* strains isolated from osteomyelitic lesions with those from topical infections. 1000
- Sutton, C. M.**  
—; Botham, K. M. Comparison of the effect of dietary cholesterol on bile acid synthesis in isolated hepatocytes in suspension and in culture. 1001
- Swann, I. D.**  
—; Ashford, A.; Bailey, G. S. An investigation of the kallikrein-kinin system in normal and ischemic rat hearts. 1011
- Swanson, T.**  
—; Kalsheker, N.; Neale, M. L.; Matthews, N.  $\alpha_1$ -Antitrypsin messenger RNA production is stimulated by tumor necrosis factor and an additional transcript is produced. 1055
- Sweetman, A. J.** See James, H. M.
- Symington, P. R.**  
—; Ashford, A.; Bailey, G. S. Effect of bradykinin and insulin on glucose oxidation in adipocytes from normal and streptozotocin diabetic rats. 1012
- Szabo, E. F. P.** Dimethylaminoethyl acetate – the hormone of the adrenal gland with parasympathetic effects and the neurovegetative transmitter. 565
- Taggart, M. J.**  
—; Marston, S. B. Caldesmon can relax 'desensitized' skeletal muscle fibers. 360
- Tait, G. H.** See Seymour, M. A.
- Tait, S.** See Martin, F.
- Takahashi, N.** See Jefferis, R.
- Talwar, D.** See Olufemi, O. S.
- Tam, R. C.**  
—; Bedwell, J.; Reed, P. J.; Cotes, P. M. Anomalous radioimmunoassay estimates of submaxillary gland erythropoietin. 564
- Tanaka, C.** See Shearman, M. S.
- Tanner, V.**  
—; Knox, P. Fibronectin does not enhance the endocytosis of fibrin breakdown peptides. 559
- Tarbit, M. H.** See Disney, G.
- Tashian, R. E.** See Chegwidden, W. R.
- Tavare, J. M.**  
—; O'Brien, R. M.; Pillay, T. S.; Dickens, M.; Siddle, K.; Denton, R. M. Analysis of the sites of phosphorylation of the insulin receptor in vitro and in vivo. 1065
- Tax, W. J. M.** See Van de Winkel, J. G. J.
- Taylor, C. W.**  
—; Berridge, M. J.; Cooke, A. M.; Potter, B. V. L. A stable analog of inositol trisphosphate which mobilizes intracellular calcium. 995
- Taylor, D. J.**  
—; Evanson, J. M.; Woolley, D. E. Comparison of the mechanistic effects of cytokines and a phorbol ester on synovial cell and chondrocyte glycosylation. 889
- Taylor, D. S.**  
—; Green, A. K.; Fisher, M. J. Impact of experimental diabetes on phenylalanine hydroxylase expression in rat liver. 1057
- Taylor, G. E.**  
—; Blackburn, G. M.; Prescott, M.; McLennan, A. G. Phosphonate analogs of bis(5'-adenosyl)tetraphosphate. 713
- Taylor, G. W.** See Watson, D.
- Taylor, J.**  
—; Gordon-Weeks, P. R. An investigation into the development of calcium-dependent neurotransmitter release from isolated growth cones. 444
- Taylor, P. W.** See Hughes, W. M.
- Tebb, G.** See Howard, T. D.
- Tezapsidis, N.**  
—; Eaton, S. J.; Parish, D. C. Purification of secretory vesicles from ovine adrenal medulla and neurointermediate pituitary. 51
- Thieret, R. L.** See Zhang, H.
- Thieringer, R.** See Kunau, W. H.
- Thoegersen, H. C.** See Nagai, K.
- Thomas, C. D.**  
—; Balson, D. F.; Shaw, W. V. Identification of the tyrosine residue involved in bond formation between replication origin and initiator protein of plasmid pC221. 758
- ; Shaw, W. V.; Lawson, D. M.; Trefry, A.; Artymiuk, P. J.; Harrison, P. M.** Expression and purification of the rat liver ferritin light chain after cloning in *Escherichia coli*. 838
- Thomas, G. M. H.** See Hughes, M. S.; Partridge, S.
- Taggart, M.** See Marston, S.
- ; Hughes, M. S.; Partridge, S.; Oluwalana, R. I.; Marr, G.; Birch, N. J.** Nuclear magnetic resonance studies of lithium ion transport in isolated rat hepatocytes. 208
- Thomas, H.** See Davies, T. G. E.; Nock, L. P.
- Thomas, J. H.** The 'R. H. A. Plimmer Collection' at St. Thomas's Hospital. 601
- Thomas, P.** See Toth, C. A.
- Thomas, P. K.** See Patel, N. J.
- Thomas, S.** See Winterbourne, D. J.
- Thompson, G. G.** See Herrick, A. L.; Houston, T.
- Thompson, M. G.**  
—; Hickman, J. A. Elevation of HL-60 cell intracellular calcium by the cytotoxic ether lipid SRI 62-834 and antagonism by 12-O-tetradecanoylphorbol 13-acetate. 278
- Thompson, M. H.** See Wait, R.
- Thompson, R. J.** See Bassett, J. H. D.; Day, I. N. M.
- Thompson, R. P. H.** See Berry, R. M.
- Thomson, A. J.** See Armstrong, F. A.
- Thorne, B.**  
—; Irons, J.; Lunt, G. G.; Wonnacott, S.; Dunkley, P. R. Comparison of methods for rapid isolation of synaptosomes from brain regions, for uptake and release studies. 309
- Thorneley, R. N. F.** See Barker, P. D.
- Thorniley, M. S.**  
—; Wickramasinghe, Y. A. B. D.; Rolfe, P. Near infra-red spectroscopy: a new technique for the non-invasive monitoring of tissue and blood oxygenation in vivo. 978
- Near infra-red spectroscopy: monitoring cerebral tissue oxygenation non-destructively in the rat and rabbit brain. 980
- Thornton, J. M.**  
—; Singh, J.; Campbell, S.; Blundell, T. L. Protein-protein recognition via side-chain interactions. 927
- Threlfall, D. R.**  
—; Whitehead, I. M. The use of biotic and abiotic elicitors to induce the formation of secondary plant products in cell suspension cultures of solanaceous plants. 71
- Thurgood, A. G. P.** See Davies, A. M.
- Tippins, J. R.** See Garlick, P. B.
- Tipton, K. F.** See Harrington, M. C.
- Tirapegui, J. O.** See Yahya, Z. A. H.
- Titheradge, M. A.** See Jones, C. G.
- Todd, M. H.** See Spiro, S.
- Tombs, M. P.** See Roberts, G. A.
- Tomkin, G.** See Devery, R.; Owens, D.
- Tomkin, G. H.** See O'Meara, N.
- Tomlinson, S.** See Best, L.; Bone, E. A.; Tuersley, M. D.
- Tones, M. A.**  
—; Bootman, M. D.; Pay, G. F. Effect of inositol tetrakisphosphates on inositol 1,4,5-trisphosphate binding to rat liver microsomes. 593
- Torrance, M. R.** See Hodgson, J. A.
- Tosh, D.**  
—; Agius, L. Heterogeneity of fatty acid metabolism and glucagon action in hepatocytes from different acinar zones of rat liver. 1007
- Toth, C. A.**  
—; Kowal, A.; Thomas, P. Interferon-induced modulation of cellular growth and antigen expression by human colon tumor cells. 1049

- ; Rapoza, A.; Kowal, A.; Steele, G.; Thomas, P.  
Receptor-mediated endocytosis by human Kupffer cells. 1027
- Towbin, H.**  
Immunoblotting – an update. 131
- Tracey, B. M.**  
—; Cheng, K. N.; Chalmers, R. A.  
Mass spectrometric identification of dicarboxylic acid glucuronide esters in patients with dicarboxylic aciduria. 744
- Trautmann, A.**  
Functions of gap junction channels in the open and closed states. 534
- Trayhurn, P.** See Milner, R. E.
- Treacy, M.** See Martin, F.
- Treffry, A.** See Andrews, S. C.; O'Connell, M. J.; Thomas, C. D.
- Trombett, S.** See Bosch, M.
- Tsai, M. J.** See Conneely, O. M.
- Tubbs, P. K.** See Quant, P. A.
- Tuersley, M. D.**  
—; Best, L.; Tomlinson, S.  
Inositol uptake and metabolism in molluscan neuronal tissue. 316
- Tuite, M. F.** See Prescott, C. D.  
—; Izgu, F.; Grant, C. M.; Crouzet, M.  
Allosuppressor genes and the control of translational fidelity in yeast. 30
- Tunwell, R. E. A.** See Mata, A. M.
- Turco, S. J.**  
Proposal for a function of the Leishmania donovani lipophosphoglycan. 259
- Turnbull, D. M.**  
—; Shepherd, I. M.; Aynsley-Green, A.  
Inherited defects of mitochondrial fatty acid oxidation. 424
- Turner, A. J.** See Hooper, N. M.
- Turner, D. M.** See Holland, D. B.
- Turner, R.** See Jackson, P. J.
- Turner, R. C.** See Hathaway, D. R.
- Tuzi, N. L.**  
—; Venter, D. J.; Reidlinger, J. A.; Dean, C. J.; Gullick, W. J.  
Production and characterization of monoclonal antibodies to the c-erbB-2 proto-oncogene protein using a synthetic peptide immunogen. 675
- Uhlen, M.**  
—; Moks, T.; Abrahmsen, L.  
Protein engineering to optimize recombinant protein purification. 111
- Umiel, T.** See Hendriks, D.
- Underwood, B.** See Dorr, A. W.
- Unitt, J. F.**  
—; McCormack, J. G.; England, P. J.  
Effects of ruthenium red on oxygen uptake and lactate and carbon dioxide production by the perfused rat heart in the absence and presence of isoprenaline. 591
- Unson, C. G.** See McKenzie, F. R.
- Urban, J. P. G.** See Hall, A. C.
- Urban, P. F.**  
—; Ancel, R.; Virmaux, N.  
A soluble protein in rod outer segments stained blue by Stains-all. 299
- Urquhart, A.** See Llewellyn, D. H.
- Urwin, N. A. R.**  
—; Nicholl, D. S. T.  
Analysis and cloning of Chlorella fusca DNA: the effects of methylation and repetitive sequences. 759
- Vamecq, J.** See Van Hoof, F.
- Vanden Abeele, C.**  
—; Vandenheede, J. R.; Merlevede, W.  
Polyclonal antibodies to the modulator protein of the ATP,magnesium-dependent protein phosphatase. 720
- Vandenheede, J. R.** See Vanden Abeele, C.
- Vanderkerckhove, J.**  
Amino acid analysis and sequencing of blotted proteins. 140
- Van der Vies, S. M.** See Ellis, R. J.
- Van de Winkel, J. G. J.**  
—; Van Duijnhoven, H. L. P.; Van Ommen, R.; Tax, W. J. M.  
Characteristics and inter-relation of two types of immunoglobulin G Fc receptors on human monocytes. 734
- Van Duijnhoven, H. L. P.** See Van de Winkel, J. G. J.
- Van Hoof, F.**  
—; Vamecq, J.; Draye, J. P.; Veitch, K.  
The catabolism of medium- and long-chain dicarboxylic acids. 423
- Vanhoof, G.** See Hendriks, D.
- Van Ommen, R.** See Van de Winkel, J. G. J.
- Van Sande, M.** See Hendriks, D.
- Van Schie, R.** See Kempen, H. J.
- Vanstapel, F.** See Stubbs, M.
- Vaughan, P. F. T.** See Ong, M. L.; Woods, M. D.
- Veale, R. A.** See Sudbery, P. E.
- Veech, R. L.** See Gitomer, W. L.; Reed, B. Y.
- Varhar, G.** See Hitzeman, R. A.
- Veitch, K.** See Van Hoof, F.
- Venables, P. J. W.** See Horsfall, A. C.
- Venkatesan, S.** See Preedy, V. R.; Simpson, K. J.
- Venter, D. J.** See Tuzi, N. L.
- Verkerk, R.** See Hendriks, D.
- Veys, P. A.**  
—; Macey, M.; Newland, A. C.  
Autoimmune neutropenia and the neutrophil FcR. 732
- Vicario, P. P.**  
—; Saperstein, R.; Bennun, A.  
Regulation of insulin receptor tyrosine kinase by divalent metal cat ions, metal-ATP substrate and free ATP. 40  
Interactions of insulin receptor tyrosine kinase with heavy metals. 896
- Vincent, J. B.**  
—; Folting, K.; Huffman, J. C.; Christou, G.  
Dinuclear manganese-oxide complexes as models for manganese catalase. 822
- Vinson, G. P.** See Watson, D.
- Virmaux, N.** See Urban, P. F.
- Voaden, M. J.** See Arden, G. B.; Husain, A. A.; Willmott, N. J.
- Vogel, U. S.** See Bassett, J. H. D.
- Von Bahr-Lindstroem, H.** See Joenvall, H.
- Von Stockar, U.** See Marison, I. W.
- Voss, U.** See Rahman, K.
- Voss, U. B.**  
—; Malcolm, A. D. B.  
The immobilization of oligonucleotides and their hybridization properties. 216  
A simple and efficient method for covalently attaching oligonucleotides to a cellulose support matrix. 367
- Wade, V.** See Ward, R. J.
- Wadsworth, J. D. F.**  
—; Shone, C. C.; Melling, J.; Dolly, J.
- O.**  
Roles of the constituent chains of botulinum neurotoxin type A in the blockade of neuromuscular transmission in mice. 886
- Wagner, C.** See Stoeker, G.
- Wahle, K. W. J.** See Macdonald, A. G.; Peacock, L. I. L.
- Wait, R.**  
—; Leach, S. A.; Hill, M. J.; Thompson, M. H.  
Fast atom bombardment mass spectrometry of some N-nitroso peptides. 740
- Wajner, M.**  
—; Harkness, R. A.  
Distribution of xanthine dehydrogenase and oxidase activities in human and rabbit tissues. 358
- Wakelam, M. J. O.** See Black, F. M.; Palmer, S.
- Wakeling, A. E.** See Wiseman, L. R.
- Wali, F. A.** See Makinde, V.
- Comparative neuromuscular blocking effects due to prolonged intermittent nerve stimulation and to d-tubocurarine in the rat diaphragm preparation. 747  
—; Brain, A. I. J.  
Conduction block in frog isolated sciatic nerve-gastrocnemius muscle preparation due to electromagnetic stimulation. 1020  
—; Greenidge, E.  
Comparative effects of phenylephrine, clonidine and potassium chloride on tone and contractility of rat isolated seminal vesicle. 1021  
—; Hayter, A. P.; Suer, A. H.  
Interaction of ethanol with calcium channel blockers: nimodipine, nitrendipine, nifedipine in isolated vas deferens preparation of the rat. 381  
—; Suer, A. H.  
Use of glycopyrrolate, atropine, in mixtures with neostigmine, to reverse neuromuscular blockade produced by atracurium in man. 746  
—; Suer, A. H.; Altinel, A.  
Fatigue of the adductor pollicis muscle and the effect of a skeletal muscle relaxant, atracurium. 336  
Effects of laudanosine and atracurium at the rat neuromuscular junction. 336  
—; Suer, A. H.; Hayter, A. P.; Greenidge, E.; Dark, C. H.  
Twitch and tetanic fatigue in the rat diaphragm preparation stimulated indirectly at 1-100 Hz. 382
- Walker, B.** See Beattie, R. E.; Douglas, A. J.; Nunn, J. D.
- Walker, C. H.** See Borlakoglu, J. T.
- Walker, J. H.**  
Inexpensive equipment for polyacrylamide-slab-gel electrophoresis and flat-bed electroblotting. 762
- Walker, K. A.**  
—; Ridley, S. M.; Harwood, J. L.  
Inhibition of fatty acid synthesis in plants by a selective herbicide, fluazifop. 277
- Walker, M. E.** See Reid, G. A.
- Walker, M. R.**  
—; Woof, J. M.; Burton, D. R.; Brugeman, M.; Jefferis, R.  
Immunoglobulin G subclass specificity of human Fc receptor II determined using human chimeric anti-5-iodo-4-hydroxy-3-nitrophenacetyl monoclonal antibodies. 725
- Walker, P. A.** See Fairbrother, W. J.
- Walker, R. A.** See Rye, P. D.

- Walker, S. W.** See Bird, I. M.
- Wallace, H. M.** See Nuttall, M. E.  
Effect of NSD-1055 on BHK-21/C13 cells. 211
- Wallis, M.** See Boyd, R. S.
- Walsh, C.**  
—; Distefano, M.; Moore, M.  
Mutagenesis of paired cysteine residues in the disulfide-containing flavoprotein mercuric ion reductase from mercury-resistant bacteria. 90
- Walsh, F. S.** See Barton, C. H.
- Walton, A. R.** See Lindley, P. F.
- Walton, F.** See King, D. J.
- Walton, T. J.** See Smith, C. J.
- Walz, D. A.** See Chegwidden, W. R.
- Waqar, M. A.**  
Simian virus 40 DNA replication in vitro. 545  
Separation of replicating simian virus 40 chromosomes according to extent of replication. 546  
Replicating simian virus 40 chromosome structure. 604
- Warburton, M. J.** See Hayman, A. R.
- Ward, J. B.** See Gladwin, A. M.
- Ward, R. J.** See O'Connell, M. J.; Peters, T. J.  
—; Jutla, J.; Duane, P. D.; Peters, T. J.  
Reduced antioxidant status in patients with chronic alcoholic myopathy. 581  
—; O'Connell, M. J.; Mann, S.; Wade, V.; Dickson, D. P. E.; Reid, N.; Bomford, A.; Peters, T. J.  
Heterogeneity of the iron cores in hepatic hemosiderins from primary and secondary hemochromatosis. 830
- Wardlaw, A. C.**  
A science and engineering research council perspective on the supervision of research students and on completion rates for Ph.D. thesis. 117
- Warren, M. J.**  
—; Jordan, P. M.  
An absolute requirement for 5-aminoevolinic acid in the formation of catalytically active porphobilinogen deaminase. 962  
Further evidence for the involvement of a dipyrrromethane cofactor at the active site of porphobilinogen deaminases. 963
- Watkins, W. J.** See Rennie, P. J.
- Watkins, W. M.** See Skacel, P. O.
- Watmough, N. J.** See Bartlett, K.
- Watson, D.**  
—; Murray, S.; Taylor, G. W.; Gower, D. B.; Ruparelia, B.; Vinson, G. P.; Anderson, E.  
Gas chromatography-electron capture mass spectrometry of steroids of human origin. 737
- Watson, H. A.**  
—; Gooderham, N. J.  
Polyribonucleic acid-polyribocytidyl acid depresses mouse extrahepatic cytochrome P-450 systems and alleviates chloroform nephrotoxicity. 631
- Watson, H. C.** See Fairbrother, W. J.
- Watson, J.** See Langlands, J. M.
- Watt, F. M.**  
Proliferation and terminal differentiation of human epidermal keratinocytes in culture. 666
- Watt, W. B.** See Grant, G.
- Watters, C. D.**  
—; West, D. W.  
Phosphorylation of Golgi membranes from mammary glands of the lactating rat. 285
- Wattiaux, R.** See Carbonnelle, V.
- Wattiaux-De Coninck, S.** See Carbonnelle, V.
- Watton, J.**  
—; Docherty, M.; Bradford, H. F.  
Membrane-bound glutamate decarboxylase may be present in synaptic plasma membranes as an integral membrane protein. 321
- Weakley, L. J.** See Kashfi, K.
- Weaver, K.** See Brammer, M.  
—; Campbell, I. C.  
β-Adrenoceptor desensitization studies in rat lung. 569
- Webber, A. N.** See Gray, J. C.
- Wegener, G.** See Schmidt, H.
- Weitzman, P. D. J.** See Jenkins, T. M.; Lloyd, A. J.; O'Neil, S.; Rutherford, D. M.
- Wertman, E.** See Michaelson, D. M.
- Wessel, W. L.**  
—; Clare, K. A.; Gibbons, W. A.  
Purification and characterization of Hc toxin synthetase from *Helminthosporium carbonum*. 401  
Biosynthesis of L-Aeo, the toxic determinant of the phytotoxin produced by *Helminthosporium carbonum*. 402
- West, D. W.** See Shand, J. H.; Watters, C. D.  
Fast atom bombardment-mass spectroscopy in the structural analysis of acidic peptides derived from bovine caseins. 745
- Westley, B. R.** See Wiseman, L. R.
- Weston, A. H.** See Duty, S.
- Wharton, C. W.** See Chittock, R. S.
- Wheeler, K. P.** See Parker, J. R.
- Whelan, J.** See Martin, F.
- Whish, W. J. D.** See Sharif, M. A.
- White, C. J. B.** See Sharif, M. A.
- Whitehead, I. M.** See Threlfall, D. R.
- Whitley, G.** See Johnstone, A.  
—; Johnstone, A.; Nussey, S.  
An immortalized human thyroid cell line, SGHTL-34, responsive to thyrotropin and autoantibodies. 196
- Whittaker, P. A.** See Kavanagh, K. A.
- Wibley, K. S.** See Barlow, D. J.
- Wickramasinghe, Y. A. B. D.** See Thorniley, M. S.
- Wiech, H.** See Mueller, G.
- Wigley, C. B.** See Johnson, A. R.
- Wikstroem, A. C.** See Denis, M.
- Wilcox, D.**  
—; Mason, R. W.  
Identification of active cysteine proteinases in cellular systems. 811
- Wilkin, G. P.** See Cholewinski, A. J.
- Wilkinson, R.**  
—; Nicholls, D.  
Compartmentation of calcium-dependent pools of glutamate and aspartate in isolated cerebral cortical nerve terminals by isotopic exchange and fractionation. 879
- Wilkinson, S. E.** See Davis, P. D.
- Willcocks, A. L.** See Cooke, A. M.
- Willey, D. L.** See Gray, J. C.
- Williams, A. C.** See Bhatti, A. R.
- Williams, A. J.** See Crescenzi, K. L.
- Williams, B. C.** See Bird, I. M.
- Williams, C. H.** See Backwell, F. R. C.; Beattie, R. E.; Nunn, J. D.
- Williams, D.** See Olufemi, O. S.
- Williams, D. G.**  
The immunoblot in autoimmune connective tissue disease. 162
- Williams, M. F.** See Muhlemann, M. F.; Wright, D. J. M.
- Anti-Borrelia antibody in human Lyme disease.** 161
- Williams, K. M.** See Marshall, T.
- Williams, R.**  
—; Howell, R. M.  
Improved procedure for the purification of thromboplastin apoprotein from porcine brain. 570
- Williams, R. J. P.** See Fairbrother, W. J.; Rowatt, E.  
The principles of molecular recognition. 923
- Williams, S. P.**  
—; Mason, R. M.  
Effect of heparin on proteoglycan synthesis by proliferating vascular smooth muscle cells. 17
- Williams, T. C.**  
—; Jarvis, S. M.  
Further characterization of sodium-dependent uridine transport in rabbit renal cortex. 768
- Williamson, D. J.** See Khodr, H.
- Williamson, F. B.** See Grant, D.
- Williamson, R. A.**  
—; Worrall, S.; Chazot, P. L.; Strange, P. G.  
Partial purification of the D<sub>2</sub> dopamine receptor from bovine caudate nucleus. 450
- Willis, R. G.** See Baker, P. R.; Lindsay, R. M.
- Willmott, N. J.**  
—; Hussain, A. A.; Voaden, M. J.  
Biochemical and electrophysiological abnormalities in the photoreceptors of mice heterozygous for the rd gene. 1074
- Willson, R.** See Dorey, C.
- Wilson, A. S.**  
—; Phillips, J. D.; Birch, N. J.  
Effects of lithium on mouse osteoclasts and on the biomechanical properties of long bone in the rat. 826
- Wilson, M. J.**  
—; Freedman, R. B.; Fitton, J. E.  
Recovery, refolding and purification of recombinant α<sub>2</sub>-interferon. 58
- Wilton, D.** See O'Connor, D.; Sheridan, M.
- Winder, F. G.** See Shields, D.
- Winkler, M. A.** See Dorr, A. W.
- Winston, G. W.** See Livingstone, D. R.
- Winter, P. C.**  
—; Wisdom, G. B.  
Detection of galactosyltransferase isoenzymes by immunoblotting. 158
- Winterbourne, D. J.**  
—; Thomas, S.; Stebbing, A.; Hermon-Taylor, J.  
A procedure for selection of cells with suppressed growth in suspension after gene transfection. 1018  
Electroporation or electro-injection? 1018
- Wisdom, G. B.** See Winter, P. C.  
The determination of antibody clonality using biotinylated antigen. 158
- Wise, P. H.** See Lyons, P. A.
- Wise, P. J.** See Cooper, P. J.
- Wiseman, A.** See Dorr, A. W.; Jafelice, L. R. S.
- Wiseman, L. R.**  
—; Wakeling, A. E.; May, F. E. B.; Westley, B. R.  
Effects of the antiestrogen ICI 164,384 on estrogen-induced RNAs in MCF-7 cells. 1063
- Withers, R. M.**  
—; Buttery, P. J.; Haynes, N. B.  
Evidence for the involvement of

- glucocorticoids in the action of  $\beta$ -agonists in sheep skeletal muscle. 1073
- Witts, H.**  
—; Masterson, B.  
Library-user education at the second=ary literature level for biochemistry undergraduates. 379
- Wong, C.** See Evans, R. W.
- Wonnacott, S.** See Thorne, B.
- Wood, A. M.** See Morrison, J. N.
- Wood, D.** See Moreland, B. H.
- Wood, E. J.** See Holland, D. B.; Owusu, S.; Raxworthy, M. J.  
Biochemistry in the biological sci=ences undergraduate curriculum. 509
- ; Raxworthy, M. J.; Holland, D. B.  
Retinoids and the epidermis. 668
- Woodley, J. F.**  
—; Prescott, A. R.  
Effect of brain glycolipids and size on the uptake of distearylphosphati=dylcholine/cholesterol liposomes by rat intestine in vitro. 342
- Body distribution of liposome-en=trapped iodine-125-labeled insulin after oral administration to rats. 343
- Woodman, A. C.**  
—; Gooderham, N. J.  
Effects of polyribonucleic acid-polyri=bocytidyl acid administration on mouse hepatic flavin-containing mono-oxygenase activity. 630
- Woods, M. D.**  
—; Freshney, R. I.; Pilkington, G.; Vaughan, P. F. T.  
Expression of receptors, linked to cyclic AMP formation by cultures of human fetal astrocytes. 432
- Woof, J. M.** See Walker, M. R.
- Woolf, D. A.** See Davies, S. E. C.
- Woolley, D. E.** See Taylor, D. J.
- Wootton, J. C.** See Jones, K. M.
- Worrall, S.** See Williamson, R. A.
- Wright, D. J. M.** See Hayes, L. J.; Williams, D. G.
- Wright, D. W.** See Patel, N. J.
- Wu, Z.**  
—; Maddy, A. H.  
Identification of antigens by high-= performance liquid chromatography 769
- Yaacob, H. B.** See Piper, P. J.
- Yahya, Z. A. H.**  
—; Bates, P. C.; Tirapegui, J. O.; Morrell, D.; Buchanan, C.; Millward, D. J.  
IGF-1 concentrations in protein deficient rat plasma and tissues in relation to protein and proteoglycan synthesis rates. 624
- Yaron, A.** See Hendriks, D.
- Yarranton, G. T.** See King, D. J.
- Yasui, A.** See Douglas, A. J.
- Yates, J.** See Preedy, V. R.
- Yates, M. G.** See Armstrong, F. A.
- Yea, C. M.** See Cross, A. R.
- Yeaman, G. R.** See Kerr, M. A.
- Yeaman, S. J.** See Small, C. A.
- Yeoman, M. M.** See Holden, M. A.
- Yesufu, H. M. I.**  
—; Kuo, Y. M.; Adams, R. L. P.  
Nuclear DNA methylase from *Pisum sativum*. 757
- Yi, X.** See Simpson, A. J. G.
- Yon, R. J.** See Clark, T. R.  
Computer modeling of multivalent affinity partitioning. 542  
A reexamination of the interaction between aldolase and phosphocellulose. 543
- Yoshida, A.**  
—; Hsu, L. C.; Ikuta, T.; Kikuchi, I.; Shibuya, A.; Mohandas, T. K.  
Molecular genetics of alcohol-metab=olizing enzymes. 230
- Young, D.** See Mehlert, A.
- Young, D. B.**  
Immunoblotting and the immune response to leprosy. 143
- Young, J. D.** See Fincham, D. A.
- Young, P.** See Higgins, S. J.
- Zaera, E.** See Stubberfield, C. R.
- Zajdel, M. E. B.** See Blair, G. E.
- Zeman, S.** See Fletcher, E. J.
- Zhang, H.**  
—; Hammer, J. L.; Thieret, R. L.; Johnson, P.  
Effects of calmidazolium on calpain activity and the calpain-calpastatin interaction. 44
- ; Johnson, P.  
Effects of trifluoperazine, compounds W-7 and W-13 on chicken gizzard calpain II. 1043
- Zhang, L.**  
—; Roberts, G. M.; Hallett, M. B.  
Diphenyliodonium-sensitive killing of K562 tumor cells by blood mono=nuclear cells. 902
- Zimmermann, R.** See Mueller, G.
- Zoellner, N.** See Sprandel, U.
- Zoetmulder, M. C. M.** See Sudbery, P. E.
- Zupanska, B.** See Merry, A. H.

# KEYWORD INDEX

- Abnormal**  
 antithrombin III plasma 374
- Acetaldehyde**  
 toxicity liver review 241
- Acetate**  
 inorg ion liver 577
- Acetoacetate**  
 creatinine detn Jaffe reaction 549
- Acetyl**  
 CoA carboxylase liver alc 580  
 CoA chloramphenicol acetyltransferase binding site 715
- Acetylation**  
 aminobenzoate blood erythrocyte hemolysis 1024  
 aniline phenetidine blood 1071  
 sulfamethazine blood erythrocyte health diabetes 786
- Acetylbenzoquinoneimine**  
 toxicity hepatocyte dimethyl PGE2 641
- Acetylcholine**  
 acidosis calcium salivary gland 993  
 blood vessel inositol trisphosphate 488  
 receptor gene cloning locust 463  
 synapse brain adenosine ATP 442
- Acetylcholinesterase**  
 immunocytochem localization sarclemma muscle 770
- Acetyltransferase**  
 blood erythrocyte health diabetes 786  
 blood hemolysis 1024  
 chloramphenicol active site review 939  
 chloramphenicol CoA binding site 715
- Acid**  
 collagenase osteoclastoma 1064  
 phosphatase tartrate resistant osteoclastoma 895  
 secretion stomach pertussis toxin 281
- Acidosis**  
 acetylcholine calcium salivary gland 993
- Aciduria**  
 dicarboxylic glucuronide ester urine 744
- Acinetobacter**  
 isocitrate dehydrogenase isoenzyme AMP hysteresis 870  
 metabolic pathway evolution 153
- Acne**  
 keratin formation pilosebaceous duct 330
- Acrosome**  
 sperm hyaluronidase staining 643
- Actin**  
 monoclonal antibody 163  
 substance P neuron nerve injury 465
- Active**  
 site carbonic anhydrase III chicken 974  
 site chloramphenicol acetyltransferase review 939  
 site dipyrromethane cofactor porphobilinogen deaminase 963  
 site Klenow fragment replication fidelity 947  
 site monoamine oxidase photoaffinity label 214
- Acute**  
 intermittent porphyria porphobilinogen deaminase mRNA 799
- Acyl**  
 carnitine detn urine plasma 796  
 CoA dehydrogenase review 416  
 CoA detn review 416
- Acyltransferase**  
 cholesterol mammary pregnancy lactation 1013  
 lecithin cholesterol secretion hepatocyte 155
- Adductor**  
 pollicis muscle fatigue atracurium 336
- Adenine**  
 nucleotide analog glutamate dehydrogenase 861
- Adenoma**  
 colon mucus glycoprotein carcinoma 581
- Adenosine**  
 cholinergic nerve terminal 442  
 kinase inhibitor cytotoxicity structure 756  
 vasodilation review 479
- Adenovirus**  
 transformation antigen gene transcription 605
- Adenylate**  
 cyclase desensitization adrenergic receptor internalization 308
- Adhesion**  
 cell polystyrene surface hydration 1029  
 cell serum lipoprotein atherosclerosis 560
- Adhesive**  
 protein blotting analysis 144
- Adipocyte**  
 fetus brown culture lipogenesis 274  
 glucose oxidn bradykinin 1012
- Adipose**  
 brown mitochondria biochem cold obesity 1009
- ADP**  
 ribose poly formation inhibitor 869  
 ribose transferase tegument tapeworm 868  
 ribosylation inhibitor NAD metab 869  
 ribosylation protein botulin 883
- Adrenal**  
 aldosterone formation dopamine 387  
 chromaffin granule sodium proton exchange 595  
 congenital hyperplasia review 691  
 medulla secretory vesicle purif 51  
 methylaminoethyl acetate neuroactive transmitter 565  
 steroidogenesis adrenaline angiotensin 983
- Adrenaline**  
 adrenal steroidogenesis 983
- Adrenergic**  
 agonist glucocorticoid muscle 1073  
 antagonist insulin secretion 1005  
 receptor astrocyte cell 432  
 receptor desensitization lung 569  
 receptor internalization adenylate cyclase desensitization 308
- Adsorption**  
 Chromobacter lipase heptane water interface 273  
 cytochrome c peroxidase electrode aminoglycoside 842
- Aeromonas**  
 exoprotein antibody salmon brown trout 999
- Affinity**  
 chromatog dansylaminodecyl agarose protein 719  
 chromatog dopamine D2 receptor 450  
 chromatog glutamate binding protein 446
- chromatog protein engineering purifn**  
 111
- chromatog protein mitochondria liver**  
 602
- chromatog tyrosine protein kinase liver**  
 780
- partition protein computer simulation**  
 542
- Agarose**  
 dansylaminodecyl affinity chromatog protein 719
- Age**  
 collagen metab heart 749  
 genetic diabetes enzyme thyroid hormone 31
- Aging**  
 cell glycolysis growth 617
- Ajmalicine**  
 compartmentation vacuole Catharanthus thus 63
- Alamethicin**  
 sodium efflux liposome 594
- Alanine**  
 glyoxylate aminotransferase liver hyperoxaluria 1 627  
 racemase inhibition vinylglycine phosphonate analog 606  
 transport erythrocyte horse 567  
 transporter sodium protein proteoliposome 344
- Alc**  
 acetyl CoA carboxylase liver 580  
 aldehyde dehydrogenase human genetics review 227  
 aldehyde dehydrogenase human review 230  
 antioxidant plasma myopathy 581  
 calcium channel blocker vas deferens 381  
 calcium channel review 527  
 carnitine palmitoyltransferase I liver 649  
 cytochrome c oxidn kinetics cold 846  
 dehydrogenase ethanol metab liver 239  
 dehydrogenase isoenzyme review 223  
 dehydrogenase NAD cofactor analog binding 862  
 dependence glyceride liver review 251  
 glucose metab review 247  
 insulin endocytosis liver 573  
 liver toxicity acetaldehyde review 241  
 manuf review 1079  
 metab microsome review 232  
 metabolizing enzyme genetics review 230  
 muscle bone circulation 576  
 protein muscle 571  
 toxicity cardiac muscle 783  
 toxicity muscle review 250  
 transferrin iron uptake hepatocyte 575  
 tryptophan metab review 254
- Alcaligenes**  
 polyhydroxybutyrate polyhydroxyalcanoate formation enzyme 1046
- Aldehyde**  
 alc dehydrogenase human genetics review 227  
 alc dehydrogenase human review 230  
 dehydrogenase ethanol metab liver 239  
 dehydrogenase isoenzyme review 223

- dehydrogenase liver cytosol kinetics mechanism 856 857
- Aldolase**  
detection tetrazolium salt electrophoresis 750  
detn tetrazolium salt 753  
glyceraldehyde phosphate dehydrogenase reaction coupling 752  
phosphocellulose interaction model 543
- Aldosterone**  
formation dopamine adrenal 387
- Alfalfa**  
medicarpin elicitation calcium 1069
- Algae**  
lipid heavy metal 275
- Aliph**  
substrate aldehyde dehydrogenase 856
- Alk**  
phosphatase uterus pregnancy 848  
picrate creatinine glucose spectra 394  
picrate glucose creatinine 395  
picrate glucose spectra 393  
soln bilirubin spectrophotometry 550
- Alkali**  
oxyHb heme stability 386
- Alkaloid**  
recovery plant cell culture review 67
- Alkylamine**  
long chain phospholipase A2 inhibition 816
- Allergenicity**  
milk lactoglobulin rat 338
- Allosuppressor**  
gene SAL3 SAL4 Saccharomyces 30
- Alpaca**  
detn wool fiber mixt 639
- Alveolar**  
macrophage collagenase 391
- Alzheimer**  
disease antibody neurofilament antigen 855  
disease brain analysis death 472  
polyphosphoinositide ornithine decarboxylase cholinergic denervation 467
- Amine**  
oxidase plasma MPTP analog 335
- Amino**  
acid decarboxylase detn plant ext 972  
acid inhibition aminopeptidase brain 849  
acid metab transamination history 600  
acid neurotransmitter function aspartate 315  
acid parenteral heart protein formation 782  
acid replacement transferrin variant 834  
acid sequencing blotted protein 140  
acid sulfur aspartate uptake brain 302  
acid transport erythrocyte harmaline 567
- Aminobenzoate**  
acetylation blood erythrocyte hemolysis 1024
- Aminoepoxyxodecanoate**  
formation *Helminthosporium* synthetase 402
- Aminoglycoside**  
Azotobacter flavodoxin electrochemistry graphite electrode 959  
cytochrome c peroxidase graphite electrode 842
- Aminoimidazoarene**  
mutagen microsome activation inhibition methylxanthine 620
- Aminolevulinic acid**  
requirement porphobilinogen deaminase formation 962  
synthase liver antidepressant 847
- Aminopeptidase**  
brain inhibition amino acid 849  
dipeptidyl IV T lymphocyte stimulation 365  
leucine brain cortex human 850  
leucine inhibition leucine thioamide 185  
leucine inhibition methylleucine chloromethyl ketone 186
- Aminotransferase**  
alanine glyoxylate liver hyperoxaluria 1 627  
aspartate phosphonate substrate analog 611
- Ammonia**  
lyase phenylalanine calcium phytoalexin 1069
- Ammonium**  
transport Aspergillus 969
- AMP**  
isocitrate dehydrogenase hysteresis Acinetobacter 870  
nucleotidase adenosine vasodilation review 479
- Amylase**  
alpha Penicillium fermn property 181  
fermn Clostridium 184
- Amyloglucosidase**  
Penicillium fermn 181
- Amyolytic**  
enzyme Penicillium fermn 181
- Anchor**  
phosphatidylinositol membrane enzyme detergent solubilization 583
- Androgen**  
gonadotropin pituitary LHRH 170  
receptor regulation fibroblast skin 172  
responsive gene 695
- Androstene**  
metabolite bacteria axilla 738
- Androstenone**  
detn electron capture mass spectroscopy 737
- Angiotensin**  
adrenal steroidogenesis 983  
converting enzyme brain synaptosome 191  
liver metab 636
- Anhydrase**  
carbonic expression liver region 572  
carbonic III activation phosphate 853  
carbonic III active site chicken 974  
carbonic lipogenesis grasshopper 973
- Aniline**  
acetylation blood 1071  
transacetylation phenacetin blood 742
- Animal**  
cell polyphosphoinositide phosphodiesterase PMA 994  
cell selection suppressed growth 1018  
species sodium ileum muscle contraction 588
- Anion**  
binding blood plasma NMR 714  
prealbumin interaction Remazol Yellow GGL 603
- Anoxia**  
calcium glutamate synaptosome 880
- Antibody**  
Aeromonas exoprotein salmon brown trout 999  
antigen detn gel chromatog 769  
apolipoprotein E glycoprotein IRBP 318  
auto clonality thyroglobulin autoimmune thyroiditis 728 729  
auto DNA clonality time course 147
- auto DNA helper T lymphocyte** 148
- auto immunoblotting** connective tissue disease 162
- auto thyroid cell line** 196
- Borrelia protein detection immunoblotting** 161
- calsequestrin prepn** 380
- differentiation antigen monocyte chemotaxis inhibition** 966
- E allergenicity lactoglobulin rat** 338
- Fc region effector function review** 953
- G protein receptor review** 434
- monoclonal actin** 163
- monoclonal ATPase inhibition** sarcoplasmic reticulum 967
- monoclonal ATPase sarcoplasmic reticulum** 771
- monoclonal brain tumor cell** 373
- monoclonal cerbB2 oncogene protein** 675
- monoclonal creatinine kinase epitope localization** 717
- monoclonal idiotype IgG1 Fc region** 747
- monoclonal leukemia cell** 376
- neurofilament antigen Alzheimer disease** 855
- ovalbumin signal peptide** 36
- phosphoprotein phosphatase modulator** 720
- protein mitochondria biliary cirrhosis** 151
- purif immunoblotting Sepharose chromatog** 134
- repertoire detn biotinylated antigen** 158
- response infection immunoblotting** 132
- Staphylococcus protein endocarditis** 997
- ubiquitin protein detection nucleus** 1059
- Anticholinergic**  
drug platelet aggregation factor 815
- Anticonvulsant**  
carbamazepine inositol lipid hydrolysis hippocampus 986
- Antidepressant**  
aminolevulinate synthase liver 847
- Antigen**  
biotinylated antibody repertoire detn 158
- carcinoembryonic colon tumor interferon** 1049
- carcinoembryonic receptor endocytosis Kupffer cell** 1027
- class I gene transcription transformation** 605
- detn gel chromatog antibody** 769
- differentiation antibody monocyte chemotaxis inhibition** 966
- histocompatibility DNA autoantibody formation** 148
- leprosy immunoblotting review** 143
- lymphocyte activation assocd protein** 383
- mitochondria peptide mapping immunoblotting** 151
- neurofilament Alzheimer disease antibody** 855
- protein immunolectroblotting mitochondria heart** 53
- protein staining immunoblotting single gel** 149
- Rh monoclonal IgG leukocyte rosette** 727
- Schistosoma carbohydrate immunity** 264
- Sm nRNP autoantibody detection immunoblotting** 162
- Antioxidant**  
cell oxygen uptake detn 284
- heparan extracellular matrix disease** 977
- plasma ethanol myopathy** 581

- Antirheumatic** drug interleukin 1 synovial cell 892
- Antiserum** fibroblast extracellular protein 375 G protein receptor review 434
- Antithrombin** III Dublin 2 variant plasma 374
- Antitrypsin** mRNA monocyte tumor necrosis factor 1055
- Aorta** constriction pyruvate dehydrogenase heart 772 media lipid distribution senescence 164 proteoglycan detection 159
- Apoglycerol** dehydrogenase reactivation zinc Baillus 975
- Apolipoprotein** E antibody glycoprotein IRBP 318 E rich lipoprotein receptor platelet 154 surfactant lung metab 276
- Apoprotein** thromboplastin purifn brain 570
- Applied** biol education biochem 587
- Arachidonate** lipoxigenase inhibition ketotifen 814 metab corticosteroid leukocyte 279 synovium interleukin 1 286
- Arginine** active site carbonic anhydrase III 974 cleavage atriopeptin carboxypeptidase N 359 glucagon secretion pancreas 1017 iso 1 cytochrome c structure 844
- Arom** substrate aldehyde dehydrogenase 856
- Aromatase** ovary placenta inhibition ketoconazole 29
- Arsenazo** III lipopolysaccharide cation binding 716
- Artery** contraction calcium phenylephrine 493 endothelium derived relaxing factor 486 pulmonary sarcoplasmic reticulum sarcolemma sepn 356
- Arthritis** cathepsin B L synovial fluid 812 rheumatoid collagen hydroxypyridinium crosslink urine 817
- Arylamide** deacetylation reacetylation blood 743
- Arylamine** transacetylation blood 742
- Aspartate** amino acid neurotransmitter function 315 aminotransferase phosphonate substrate analog 611 brain nerve terminal 879 essential glutamate dehydrogenase Escherichia 874 glycated urine 29 transcarbamoylase essential tyrosine wheat germ 615 uptake brain sulfur amino acid 302
- Aspergillus** carbon metab 791 growth lipase esterase 790 NADP glycerol dehydrogenase bicarbonate 976 proton ammonium transport 969
- Assembly** self myosin phosphorylation filament regulation 501
- Assessment** monitoring research student project 118
- Astrocyte** cell receptor adrenergic purinergic 432 development nerve cell 295 peptide receptor 429 trophic factor cholinergic neuron 296
- Atherosclerosis** hypercholesterolemia diabetes rabbit lipoprotein blood 200 lipoprotein serum cell adhesion 560 plaque collagen glycosaminoglycan rupture 1033
- Atherosclerotic** plaque cap connective tissue 1032
- Atomic** absorption spectroscopy lithium transport erythrocyte 827
- ATP** adenosine cholinergic nerve terminal 442 cation insulin receptor kinase regulation 40 synthase phosphorylation bifurcation hysteresis 645 synthase presequence mitochondrial targeting 709 thylakoid protein phosphorylation fluorescence 46
- ATPase** Aspergillus proton ammonium transport 969 inhibition thiocyanate methylphenylmethoxyimidazopyridineacetonitrile stomach 27 peripheral nervous tissue galactosemia diabetes 306 potassium site photoaffinity labeling stomach 823 sarcoplasmic reticulum inhibition monoclonal antibody 967 sarcoplasmic reticulum monoclonal antibody 771 sarcoplasmic reticulum oleate 347 self assoc lipid membrane 346 structure function liposome 914 transport nerve diabetes mellitus 878
- Atracurium** adductor pollicis muscle fatigue 336 neuromuscular blockade glycopyrrolate atropine neostigmine 746 neuromuscular junction laudanosine 336 toxicity liver 614
- Atrial** natriuretic peptide receptor heart 1022
- Atriopeptin** arginine cleavage carboxypeptidase N 359 cGMP review 490 receptor heart sarcolemma 1022
- Atrophy** retina cGMP taurine Tibetan terrier 317
- Atropine** neostigmine neuromuscular blockade atracurium 746
- ATT** consensus sequence gene human mouse 366
- Autoantibody** clonality thyroglobulin autoimmune thyroiditis 728 729 DNA clonality time course 147 DNA helper T lymphocyte 148 Sm nRNP antigen detection immunoblotting 162 thyroid cell line 196
- Autoimmune** disease human idiotype distribution 341 neutropenia neutrophil FcR 732 thyroiditis thyroglobulin autoantibody clonality 728 729
- Autophosphorylation** site insulin receptor kinase 1065
- Autoreceptor** glutamate brain synaptosome 881
- Autoxidn** oxyHb alkali heme stability 386
- Avocado** oxoacyl acyl carrier protein reductase 392
- Axilla** bacteria androstene metabolite 738
- Axon** retina ganglion cell regeneration laminin 440
- Azotobacter** ferredoxin I redox potential 840 flavodoxin electrochem graphite electrode aminoglycoside 959
- Bacillus** apoglycerol dehydrogenase reactivation zinc 975 endotoxin interaction liposome 39 plasmid maintenance expression 194 plasmid stability gene expression 192
- Bacteria** alpha glucosidase specificity reclassification 184 androstene metabolite axilla 738 evolution immunolectroblotting 153 protein disulfide isomerase 57 protein inclusion body purifn 102
- Bacterioferritin** structure Escherichia 836
- Barium** calcium sensitive dehydrogenase mitochondria 590
- Barley** inhibitor human platelet aggregation 19
- Base** exchange pathway phospholipid formation channelling 1036
- Bass** liver glucose phosphate dehydrogenase inactivation 903
- Batten** disease dolichol linked oligosaccharide brain 1031
- Beer** protein electrophoresis 167
- Benecke** microbiol education 767
- Benzamide** ADP ribosylation inhibition 869
- Benzoate** metab fish 24 metab metabolite review 1021
- Benzodiazepine** receptor ganglion grasshopper 310
- Benzopyrene** metab Mytilus microsome oxygen radical 779
- Beryllium** tyrosine phosphorylation 1047
- Beta** bend pyrrolidinone gastrin peptide 175 oxidn fatty acid intermediate review 410 oxidn fatty acid review 418
- Betaine** urine newborn development 788
- Bethanechol** pepsin gastric juice 26
- Beverage** alc manuf review 1079
- Bicarbonate** iron binding transferrin review 825 NADP glycerol dehydrogenase Asperillus 976

- secretion stomach thiocyanate methylphenylmethoxyimidazopyridine dianacetone 27
- Bifurcation ATP synthase phosphorylation hypothesis 645
- Bile acid breast cyst fluid 741 acid hepatocyte culture cholesterol diet 1001 acid liver low density lipoprotein 566 salt dihydroxy trypsinogen trypsin inhibitor 168
- Biliary cirrhosis antibody mitochondria protein 151
- Bilirubin creatinine detn Jaffe reaction 551 spectrophotometry alk soln 550
- Biliverdin reductase chloride substrate inhibition 403
- Binding protein gene receptor androgen prostate 695
- Biochem applied biol education 587 education biol science undergraduate 509 511 education undergraduate curriculum 513 engineering education 516 example phys science education 508 history UK 507 neurochem periodical 599 phys science education 515
- Biog Plimmer 601
- Biol applied education biochem 587 mol education computer 764 mol education model simulation 765 science undergraduate biochem education 509 511
- Bioluminescence phosphate dependence lux gene Streptococcus 1068
- Biomedical science postgraduate education New Zealand 120
- Biotinylated antigen antibody repertoire detn 158
- Biotinylation proteoglycan detection 159
- Bird erythrocyte taurine transport stoichiometry 555 hydroxy steroid dehydrogenase liver microsome 22
- Bisadenosyl tetraphosphatase interaction substrate analog 713
- Bladder neoplasm diagnosis glucose phosphate dehydrogenase 555
- Blood aminobenzoate acetylation hemolysis 1024 aniline phenetidine acetylation 1071 arylamide deacetylation reacetylation 743 arylamine transacetylation 742 cell plasma metallothionein I inflammation 820 erythrocyte sulfamethazine acetylation health diabetes 786 fibrinogen human genetics 541 fucosyltransferase leukemia chemotherapy substrate 1034 IgG copper deficiency diet lactose 54 lipoprotein hypercholesterolemia diabetes atherosclerosis rabbit 200
- nonenzymic glycated protein cataract 648 oxygenation detn spectrometry 978 plasma anion binding NMR 714 platelet aggregation pyridoxal phosphate 385 platelet calcium lipoprotein 287 serum galactosyltransferase isoenzyme detection 158 vessel inositol trisphosphate acetylcholine 488 vessel purine nucleotide review 480 vessel relaxation cGMP 497 vessel smooth muscle proteoglycan heparin 17
- Blotting analysis adhesive protein 144 protein gel isoelectric focusing 154 protein receptor ligand interaction 138 Southern DNA detection probe 139 Western proteoglycan detection 159
- Bone long osteoclast development newborn lithium 826 muscle circulation ethanol 576
- Borrelia protein antibody detection immunoblotting 161 segmented DNA genome 544
- Botulin A light chain heavy chain 886 A protein phosphorylation nerve 885 ADP ribosylation protein 883
- Bradford membrane protein detn detergent 382
- Bradykinin glucose oxidn adipocyte 1012
- Brain acetylcholine synapse adenosine ATP 442 aminopeptidase inhibition amino acid 849 angiotensin converting enzyme synaptosome 191 aspartate uptake sulfur amino acid 302 calmodulin dependent phosphoprotein phosphatase detn 297 cortex leucine aminopeptidase human 850 cyclic nucleotide phosphodiesterase formation 212 cytosol microsome luliberinase 209 diacylglycerol lipase 293 dolichol linked oligosaccharide Batten disease 1031 dopamine D2 receptor purin 450 enkephalin mRNA 313 glutamate binding protein sepn 446 glutamate release presynaptic regulation 881 glutathione transferase subunit 386 glycogen phosphorylase hypoxia fish 621 growth cone neurotransmitter calcium 444 high mol wt multicatalytic protease 852 methyleaspartate receptor thienylcyclohexylpiperidine 300 nerve terminal glutamate aspartate 879 neurochem detn postmortem 472 neurotensin degrdn metalloendopeptidase 851 oxygenation detn IR spectrometry 980 parvalbumin mRNA localization 313 periaqueductal grey morphine cholecystokinin 538 polyphosphoinositide ornithine decarboxylase cholinergic denervation 467
- potassium channel phencyclidine analog 200 protein reconstitution liposome extraction 352 succinate thiokinase metabolic role 795 synaptosome polyphosphoinositide carbachol depolarization 320 synaptosome sepn centrifugation neurotransmitter 309 thromboplastin apoprotein purin 570 tumor cell monoclonal antibody 373
- Branches chain phospholipid liposome phase transition 348
- Breast cancer cathepsin B like enzyme 192 cancer EGF receptor hormone 173 cancer human estrogen mRNA cDNA 169 cyst fluid bile acid 741 tumor glycoprotein hormone 1026
- Bromodeoxyuridine neg selection CHO cell 1018
- Bronchoalveolar fluid collagenase elastase sarcoidosis 390 fluid fibronectin tobacco smoke 378
- Brown adipocyte fetus culture lipogenesis 274 adipose mitochondria biochem cold obesity 1009 trout Aeromonas exoprotein antibody 999
- Brush border iron uptake carrier size 832 border kidney calcium metab gentamicin 213 border kidney lipid peroxidin iron 20 border membrane protein proteoliposome 344 border uridine transport kidney sodium 768
- Butylbicyclophosphorothionate GABA receptor ganglion insect 475
- B16F10 cell adhesive protein blotting 144
- Cadmium glutathione midgut gland Procambarus 23 insulin receptor kinase 896
- Calcitonin recombinant secretion yeast review 1083
- Calcium acetylcholine acidosis salivary gland 993 activation nucleoside diphosphatase Golgi 561 artery contraction phenylephrine 493 binding protein p9Ka gene rat 1061 binding protein rod outer segment 299 binding protein thin filament 355 calpain II conformation calmodulin 1045 carbonate crystn membrane interface 824 channel alpha2 subunit carbohydrate 452 channel blocker ethanol vas deferens 381
- channel ethanol review 527 channel smooth muscle review 492 creatine kinase muscle hypoxia ultrastructure 1052 epidermis keratin 327 erythrocyte membrane potassium transport neomycin 598 glutamate synaptosome brain 879 glutamate synaptosome ischemia anoxia hypoglycemia 880

- heparin interaction model 1028  
 homeostasis excitable cell review 519  
 hormone vascular relaxation cGMP 497  
 hydroxytryptamine synaptosome sodium 803  
 isoprenaline heart respiration glycolysis 591  
 leukemia cell SRI 62 834 278  
 LHRH protein kinase C 597  
 lung parenchyma 35  
 metab kidney brush border gentamicin 213  
 mitochondria function review 523  
 mobilization cell inositol trisphospho-rothioate 995  
 neurotransmitter growth cone brain 444  
 neutrophil cytosol activation threshold 37  
 phytoalexin phenylalanine ammonia lyase 1069  
 platelet low density lipoprotein 287  
 pump phosphoprotein Golgi mammary 285  
 receptor muscle nerve review 520  
 release myoinositol diphosphate phosphothioate 992  
 sensitive dehydrogenase barium mitochondria 590  
 sodium exchange cardiovascular harmaline review 539  
 sodium exchange excitable cell review 529  
 sodium exchange intestine contraction 589  
 thin filament review 494  
 transport endothelium derived relaxing factor 486  
 transport salivary inositol phosphate fly 988  
 trypsinogen activation immunoassay 337  
**Caldesmon**  
 muscle contraction regulation 360  
**Calliphora**  
 salivary potential oscillation inositol phosphate 988  
**Calmidazolium**  
 calpain calpastatin 44  
**Calmodulin**  
 antagonist calpain II 1043  
 calpain II conformation calcium 1045  
 dependent phosphoprotein phosphatase detn fluorometry 297  
 function cystic fibrosis 345  
 NAD metab tegument tapeworm 868  
 thin filament calcium sensitivity 355  
**Calpain**  
 calpastatin calmidazolium 44  
 II calmodulin antagonist 1043  
 II conformation calcium calmodulin 1045  
**Calpastatin**  
 calpain calmidazolium 44  
**Calsequestrin**  
 muscle sarcoplasmic reticulum 380  
**cAMP**  
 astrocyte peptide receptor 429  
 histamine stomach parietal cell 808  
 lipoprotein receptor fibroblast vein 1008  
 noradrenaline occipital cortex 311  
 platelet calcium lipoprotein 287  
 protein kinase activity ratio detn 355  
 thyroid polyamine 397  
**Cancer**  
 breast cathepsin B like enzyme 192  
 breast EGF receptor hormone 173  
 human breast estrogen mRNA cDNA 169  
 skin retinoid review 668  
**Candida**  
 estradiol binding protein 789  
 recycle xylose fermn ethanol 198  
**Capsaicin**  
 prodn Capsicum culture 66  
**Capsicum**  
 culture capsaicin prodn 66  
**Carbachol**  
 polyphosphoinositide depolarization brain synaptosome 320  
**Carbamazepine**  
 inositol lipid hydrolysis hippocampus 986  
**Carbohydrate**  
 antigen Schistosoma immunity 264  
 binding proacrosin sperm 1035  
 calcium channel alpha2 subunit 452  
 diet glucose phosphate dehydrogenase 899  
**Carbon**  
 metab Aspergillus 791  
 tetrachloride toxicity liver interferon 632  
 13 serine enzymic prep 179  
**Carbonic**  
 anhydrase expression liver region 572  
 anhydrase III activation phosphate 853  
 anhydrase III active site chicken 974  
 anhydrase lipogenesis grasshopper 973  
**Carboxykinase**  
 phosphoenolpyruvate hepatocyte gluconeogenesis propionate sheep 204  
**Carboxyl**  
 group binding site glutamate dehydrogenase 860  
**Carboxylase**  
 acetyl CoA liver alc 580  
**Carboxylate**  
 transition metal ion complex deprotonation 406  
**Carboxylation**  
 pyruvate dexamethasone vasopressin liver 1075  
**Carboxypeptidase**  
 N atriopeptin arginine cleavage 359  
**Carcinoembryonic**  
 antigen colon tumor interferon 1049  
 antigen receptor endocytosis Kupffer cell 1027  
**Carcinoma**  
 mucus glycoprotein colon adenoma 581  
**Cardiac**  
 vascular muscle regulation 503  
**Cardiovascular**  
 sodium calcium exchange harmaline review 539  
 system leukotriene review 482  
**Career**  
 opportunity postgraduate student 128  
**Carnitine**  
 acyl detn urine plasma 796  
 metab insulin liver starvation 1014  
 palmitoyltransferase I liver ethanol 649  
 palmitoyltransferase liver mitochondrial membrane diabetes 1010  
**Cartilage**  
 proteoglycan hyaluronate binding fragment 188  
**Casein**  
 alpha gene mapping mouse 624  
 beta gene rabbit 623  
 bound lactoferrin milk 215  
 gene sequence mouse 1064  
 sequence phosphoserine localization 745  
**Catalase**  
 model dinuclear manganese oxide complex 822  
**Cataract**  
 nonenzymic glycated protein blood lens 648  
**Catharanthus**  
 ajmalicine compartmentation vacuole 63  
 cell culture serpentine 65  
**Cathepsin**  
 B L synovial fluid arthritis 812  
 B like enzyme breast cancer 192  
 L B detection cell culture 811  
 L precursor activation 1056  
**Cation**  
 ATP insulin receptor kinase regulation 40  
 binding arsenaizo III lipopolysaccharide 716  
 exchange intestine contraction hamline 589  
**Cattle**  
 DNase gene cloning 195  
**Caudate**  
 nucleus enkephalin mRNA 313  
**cCMP**  
 phosphodiesterase effector sensitivity liver 774  
**cDNA**  
 citrate synthase yeast cloning Escherichia 718  
 NCAM glycoprotein sequence human 457  
 nicotinic acetylcholine receptor cloning locust 463  
 probe epitope enolase human 305  
 protein PGP95 enolase human neuron 454  
**Cefotaxime**  
 resistance Enterobacter beta lactamase kinetics 404  
**Cell**  
 adhesion polystyrene surface hydration 1029  
 aging glycolysis growth 617  
 calcium mobilization inositol trisphosphothioate 995  
 culture Catharanthus serpentine 65  
 culture cathepsin L B detection 811  
 culture plant product recovery review 67  
 differentiation inositol phosphate 985  
 division plasmid loss 193  
 envelope filaggrin skin newborn 324  
 epithelium transformation oncogene fos 1019  
 growth polyamine NSD 1055 211  
 immunoaffinity partition 968  
 membrane ischemia protein lipid 537  
 nerve astrocyte development 295  
 proliferation thymidine kinase leakage 55  
 selection suppressed growth 1018  
 transformation electroporation electroporation 1018  
**Cellulose**  
 immobilization oligonucleotide 367  
**Central**  
 nervous system myelin protein immunochem 614  
 nervous system protein kinase C 307  
**Centrifugation**  
 chromosome replication sepn 546  
 endoplasmic reticulum liver 34  
 protein inclusion body 102  
 sucrose secretory vesicle purifn 51  
 synaptosome sepn brain neurotransmitter 309  
**CerbB2**  
 oncogene protein monoclonal antibody 675

- Cerebral cortex enkephalin degrading metallopeptidase 405
- cGMP blood vessel relaxation 497 calcium hormone vascular relaxation 497 nitrovasodilator review 490 retina atrophy Tibetan terrier 317
- Channel blocker calcium ethanol vas deferens 381 calcium alpha2 subunit carbohydrate 452 calcium smooth muscle review 492 gap junction function review 534 potassium regulation review 532
- Channelling phospholipid endoplasmic reticulum 1036
- Cheese protein electrophoresis 165
- Chelator metal computer modeling 835
- Chemiluminescence assay modulating factor phagocyte 289
- Chemotaxis monocyte inhibition antibody differentiation antigen 966
- Chemotherapy leukemia fucosyltransferase 1034
- Chicken monkey estrogen receptor gene cloning 388 progesterone receptor gene 683
- Chloramphenicol acetyltransferase active site review 939 acetyltransferase CoA binding site 715
- Chlorella DNA cloning mapping 759
- Chloride biliverdin reductase substrate inhibition 403 channel butylbicyclophosphorothionate ganglion insect 475 flux GABAergic inhibition insecticide 303
- Chloroform kidney toxicity polyribonucleic polyribocytidylic acid 631
- Chloromethyl methyleucine ketone inhibition leucine aminopeptidase 186
- Chloroplast assembly disassembly mechanism *Festuca* 1053 cytochrome f senescence *Festuca* 1054 gene transcription photoregulation review 711 membrane protein gene review 704 protein processing assembly review 703
- Chloroquine insulin receptor liver 1040
- CHO cell transformant selection 1018
- Cholecystokinin morphine brain periaqueductal grey 538
- Cholera toxin diacylglycerol insulin fibroblast 283
- Cholesterol acyltransferase mammary pregnancy lactation 1013 diet hepatocyte culture bile acid 1001 lecithin acyltransferase secretion hepatocyte 155 lymphocyte mitogenesis 202 metab sympathetic nervous system
- 201 reverse transport spleen 282 serum copper deficiency lactose diet 54
- Cholinergic denervation polyphosphoinositide ornithine decarboxylase brain 467 nerve terminal adenosine ATP 442 neuron antigen Alzheimer disease 855 neuron astrocyte trophic factor 296
- Chondrocyte potassium transport 637 proline transport sodium 894
- Chorionic gonadotropin immunosuppression horse 793
- Chromaffin granule sodium proton exchange adrenal 595
- Chromatog affinity dansylaminodecyl agarose protein 719 affinity dopamine D2 receptor 450 affinity glutamate binding protein 446 affinity protein computer model 542 affinity protein engineering purifn 111 affinity protein mitochondria liver 602 affinity tyrosine protein kinase liver 780 gel antigen detn antibody 769 liq acyl carnitine 796 liq fast protein DNA 368 liq iron heme protoporphyrin 831 liq thromboplastin apoprotein 570 Sepharose antibody purifn immunoblotting 134
- Chromobacter lipase adsorption heptane water interface 273
- Chromosome human 766 replication sepn centrifugation 546 21 Down syndrome gene 171
- Cimaterol glucocorticoid muscle 1073
- Circulation muscle bone ethanol 576
- Cirrhosis biliary antibody mitochondria protein 151 primary biliary antigen mitochondria 53
- Citrate synthase cDNA yeast cloning Escherichia 718
- Class I antigen gene transcription transformation 605
- Clonidine noradrenaline cAMP occipital cortex 311 seminal vesicle contraction phenylephrine potassium 1021
- Cloning citrate synthase cDNA yeast Escherichia 718 DNase gene cattle 195 enterotoxin gene *Clostridium* 1069 estrogen receptor gene chicken monkey 388 lux gene *Vibrio* *Lactobacillus* *Streptococcus* 1068 mapping DNA Chlorella 759 mol eukaryote protein Escherichia review 108 nicotinic acetylcholine receptor cDNA locust 463 restriction mapping casein gene mouse 624
- Clostridium* amylase fermn 184
- enterotoxin gene cloning 1069 glutamate dehydrogenase substrate site lysine 875
- CoA acyl detn review 410 binding site chloramphenicol acetyltransferase 715
- Codon initiation interferon gene mutation *Escherichia* 48
- Coenzyme site glycerol dehydrogenase *Bacillus* 976
- Cold cytochrome c oxidn kinetics alc 846 protein GDP mitochondria obesity 1009
- Collagen gene structure review 661 glycosaminoglycan atherosclerosis plaque rupture 1033 hydroxypyridinium crosslink urine rheumatoid arthritis 817 lattice contraction fibroblast metab 328 like quaternary structure pullulanase *Klebsiella* 722 meat cooking 169 metab heart age 749 muscle growth hormone 177 platelet aggregation fatty acid isomer 291 structure assembly skin review 663
- Collagenase acid osteoclastoma 1064 alveolar macrophage 391 dermis equiv remodeling 326 elastase bronchoalveolar fluid sarcoidosis 390
- Colon adenoma mucus glycoprotein carcinoma 581 tumor growth inhibition interferon 1049
- Colorimetry nucleoside diphosphatase detn Golgi 561
- Compartmentation ajmalicine vacuole *Catharanthus* 63
- Complement C1q receptor purifn monocyte 735 C3 fragment biol fluid PAGE 160
- Completion rate PhD research student supervision 117
- Computer education mol biol 764 modeling metal chelator 835 protein sequence analysis education 764 simulation protein affinity partition 542
- Conduction block frog electromagnetic stimulation 1020
- Conformation calpain II calcium calmodulin 1045 glucose phosphate dehydrogenase NADP NADPH 903 protein gamma turn review 50 protein PGP95 nerve review 323
- Congenital adrenal hyperplasia review 691
- Connective tissue atherosclerotic plaque cap 1032 tissue disease autoantibody immunoblotting 162
- Consensus sequence ATT gene human mouse 366
- Contraction muscle myosin phosphorylation regulation review 499

- Cooking  
meat collagen elastin 169
- Copper  
binuclear complex monooxygenase model 821  
deficiency lactose diet immunity 54  
insulin receptor kinase 896
- Cornea  
eye keratan sulfate distribution 333
- Corticosteroid  
arachidonate metab leukocyte 279
- Cortisol  
prostate growth 389
- Cotransport  
sodium phosphate proximal tubule 353
- Coumarin  
deriv lysosome disease diagnosis review 11
- Creatine  
kinase muscle hypoxia ultrastructure calcium 1052
- Creatinine  
detn Jaffe reaction 393 395  
detn Jaffe reaction acetoacetate 549  
detn Jaffe reaction bilirubin 550 551  
glucose alk picrate spectra 394  
kinase epitope localization monoclonal antibody 717
- Cryokinetics  
cytochrome c oxidn alc 846
- Cryoprotectant  
erythrocyte liposome 354
- Crystal  
structure bacterioferritin Escherichia 836  
structure ferritin light chain mutant 838  
structure refinement glutathione reductase review 81
- Cystein  
calcium carbonate membrane interface 824  
protein lattice contact 961
- Culture  
axon regeneration substratum compn 440  
fetus brown adipocyte lipogenesis 274  
hepatocyte bile acid cholesterol diet 1001  
oligodendrocyte differentiation cyclic nucleotide phosphohydrolase 900  
plant terpene formation review 61
- Curriculum  
undergraduate biochem education 513
- Cyanocinnamate  
affinity chromatog protein liver 602
- Cyclase  
adenylate desensitization adrenergic receptor internalization 308
- Cyclic  
nucleotide phosphodiesterase formation brain neuroglia 212  
nucleotide phosphohydrolase oligodendrocyte differentiation culture 900  
nucleotide phosphohydrolase sequence homol mammal 304
- Cyst  
breast fluid bile acid 741
- Cysteine  
essential mercuric reductase site mutation 90  
proteinase active form detection cell 811
- Cystic  
fibrosis calmodulin function 345
- Cystine  
fibroblast dodecylimidazole 43
- Cytochrome  
b1 structure Escherichia 836  
b5 electrochem peptide gold electrode 958  
c b5 interaction NMR 844  
c b5 plastocyanin complex electrochem 957  
c iso 1 structure arginine 844  
c oxidn kinetics alc cold 846  
c peroxidase graphite electrode amide n-glycoside 842  
f chloroplast senescence *Festuca* 1054  
NADPH reductase *Escherichia* 872  
oxidase IR spectrometry brain 980  
oxidase IR spectrometry organ 978  
P 450 liver organ 642  
P 450 yeast genotoxicity review 1086  
P450 mutagen activation inhibition methylxanthine 620  
P450 *Saccharomyces* oxygen 370  
P450 tissue polyribonucleic polyribocytidylic acid 631
- Cytokine  
skin immunoregulation review 677  
synovial cell glycolysis 889
- Cytoprotection  
dimethyl PGE2 hepatocyte 641
- Cytosol  
brain liliberinase 209  
calcium neutrophil activation threshold 37  
liver aldehyde dehydrogenase kinetics mechanism 856 857  
liver platelet aggregation inhibitor 898
- Cytotoxicity  
adenosine kinase inhibitor structure 756
- Dairy  
product protein electrophoresis 165
- Dansylaminodecyl agarose affinity chromatog protein 719
- Deacetylation  
reacetylation arylamide blood 743
- Deaminase  
porphobilinogen dipyrromethane cofactor active site 963  
porphobilinogen formation aminolevulinate requirement 962  
porphobilinogen mRNA acute intermittent porphyria 799
- Death  
brain analysis Alzheimer disease 472
- Decarboxylase  
amino acid detn plant ext 972  
glutamate synaptic membrane bound 321  
ornithine brain cholinergic denervation 467  
ornithine epidermis psoriasis 329
- Decarboxylation  
pyruvate dexamethasone vasopressin liver 1075
- Defibrotide  
endothelium function 540
- Deglycosylation  
dihydropyridine receptor calcium channel subunit 452
- Degranulation  
response neutrophil development 128
- Dehydrogenase  
acyl CoA deficiency 796  
acyl CoA flavoprotein review 416  
alc aldehyde human review 230  
alc aldehyde isoenzyme review 223  
alc ethanol metab liver 239  
aldehyde alc human genetics review 227  
aldehyde liver cytosol kinetics mechanism 856 857  
binding NAD cofactor analog 862  
binding theazolecarboxamide adenine dinucleotide 862  
calcium mitochondria review 523  
calcium sensitive barium mitochondria 590  
dihydrolipoamide membrane transport function review 87  
glucose phosphate detn urine neoplasm 555  
glucose phosphate hormone liver 33  
glucose phosphate NADP NADPH conformation 903  
glucose Thermoplasma 864  
glutamate carboxyl group binding site 860  
glutamate *Escherichia* lysine 876  
glutamate essential lysine *Escherichia* 874  
glutamate pyridoxal phosphoadenine nucleotide 861  
glutamate substrate site lysine Clos= tridium 875  
glyceraldehyde phosphate aldolase reaction coupling 752  
glyceraldehyde phosphate gene retroposon *Trypanosoma* 1067  
glyceraldehyde phosphate resonance Raman 49  
glycerate liver hyperoxaluria 2 626  
glycerol apo reactivation zinc *Bacillus* 975  
hydroxy steroid liver microsome bird 22
- IMP GMP reductase homol *Escherichia* 858
- isocitrate heart mitochondria 873  
isocitrate isoenzyme AMP hysteresis Acinetobacter 870  
isocitrate NAD *Methylophilus* 871  
lactate fibroblast dodecylimidazole 43  
lactate isoenzyme purifn heart liver 18  
liver development 899  
mandelate *Rhodotorula* 865  
NADP glycerol bicarbonate *Aspergillus* 976  
phosphogluconate interference hexokinase detn 867  
pyruvate fatty acid plasma 553  
pyruvate heart aorta constriction 772  
pyruvate lipoyl group desensitization ethylmaleimide 775  
pyruvate liver starvation refeeding 773  
pyruvate *Saccharomyces* 776  
sorbitol erythrocyte diabetes mellitus 363  
xanthine tissue ischemia 358
- Demyelinating  
disease metalloproteinase myelin 469
- Denaturation  
prochymosin reversibility purifn 59
- Dense  
vesicle phosphodiesterase activation protein kinase 1025
- Dephosphorylation  
enzyme glycogen formation liver 579
- Depolarization  
carbachol polyphosphoinositide brain synaptosome 320
- Deprotonation  
carboxylate transition metal ion complex 406
- Dermis  
equiv contraction fibroblast metab 328  
equiv remodeling collagenase 326
- Desaturase  
linoleate liver PCB species 1072
- Desensitization  
adenylate cyclase adrenergic receptor internalization 308
- Desmin  
intermediate filament monoclonal antibody 52

- Desuccinylation**  
hydroxymethylglutarylCoA synthase  
glucagon mannoheptulose 633
- Desulfovibrio**  
hydrogenase inactivation mercurial  
178
- Detergent**  
membrane protein detn Bradford  
382
- protein detn turbidimetry 640
- solubilization membrane enzyme  
phosphoatidylinositol anchor 583
- Development**  
betaine urine 788
- liver dehydrogenase 899
- osteoclast long bone newborn lithium  
826
- testosterone metab liver bird 22
- Dexamethasone**  
glutamine synthetase liver region  
572
- pyruvate metab liver 1075
- Dextran**  
iron liver subcellular processing 854
- PEG phase microsome partition 34
- DATPase**  
ATPase peripheral nervous tissue  
galactosemia 306
- carnitine palmitoyltransferase liver  
mitochondria membrane 1010
- genetic malic enzyme thyroid hor=  
mone 31
- health sulfamethazine acetylation  
blood erythrocyte 786
- hypercholesterolemia rabbit lipopro=  
tein blood atherosclerosis 200
- mellitus ATPase transport nerve  
878
- mellitus complication polyol pathway  
363
- phenylalanine hydroxylase liver  
mRNA 1057
- succinate thiokinase insulin 795
- Diacylglycerol**  
acetylcholine blood vessel 488
- insulin cholera toxin fibroblast 283
- lipase brain 293
- Diagnosis**  
disease DNA Southern blotting 139
- disease lysosome fluorescence review  
11
- Diaphragm**  
neuromuscular transmission tubocu=  
larine 747
- rat twitch tetanic fatigue 382
- Dicarboxylate**  
metab mitochondria peroxisome 423
- Dicarboxylic**  
aciduria glucuronide ester urine 744
- Dienoyl**  
CoA reductase review 420
- Differentiation**  
antigen antibody monocyte chemotax=  
is inhibition 966
- keratinocyte review 666
- oligodendrocyte culture cyclic nucleo=  
tide phosphohydrolase 900
- Digestion**  
phaseolin peptidase 612
- Dihydrofolate**  
reductase mutation mol recognition  
ligand 925
- Dihydrolipoamide**  
dehydrogenase membrane transport  
function review 87
- Dihydropyridine**  
receptor calcium channel subunit  
deglycosylation 452
- Dihydroxy**  
bile salt trypsinogen trypsin inhibitor  
168
- Dimethylhexadecanoylphosphatidylchol=**  
ine  
liposome phase transition 348
- Dinuclear**  
manganese oxide complex model  
catalase 822
- Dipeptide**  
uptake lysosome mechanism 42
- Dipeptidyl**  
aminopeptidase IV T lymphocyte  
stimulation 365
- Diphenyleneiodonium**  
superoxide oxidase inhibition phago=
- cyte 888
- Diphosphatase**  
nucleoside detn calcium activation  
Golgi 561
- Dipyrrromethane**  
cofactor active site porphobilinogen  
deaminase 963
- cofactor formation aminolevulinate  
porphobilinogen deaminase 962
- Disease**  
diagnosis DNA Southern blotting  
139
- heparan extracellular matrix antioxi=
- dant 977
- lysosome diagnosis fluorescence review  
11
- skin eicosanoid review 680
- Dismutation**  
superoxide heparin 1030
- Disulfide**  
bond glutathione reductase review  
81
- isomerase protein mechanism function  
review 96
- isomerase protein solubilization mi=
- cromosome 58
- protein isomerase lymphocyte matu=
- ration 56
- redo mechanism thioredoxin glutare=
- doxin 95
- Dithothreitol**  
protein mitochondria solubilization  
53
- DMN**  
oncogene expression liver 1058
- DNA**  
autoantibody clonality time course  
147
- autoantibody helper T lymphocyte  
148
- binding specificity FNR protein Es=
- cherichia 755
- cloning mapping Chlorella 759
- detection Southern blotting probe  
139
- fast protein liq chromatog 368
- hybridization oligodeoxyribonucleo=
- tide immobilization 216
- initiator protein REP D tyrosine  
758
- methylase pea 757
- methylase type I evolution review  
942
- methyltransferase structure mammal  
944
- polymerase Klenow fragment replica=
- tion fidelity 947
- replication SV40 virus 545
- resolvase mechanism substrate super=
- coiling 760
- resolvase mechanism transposon Tn3  
754
- segmented genome Borrelia 544
- SV40 virus replication structure 604
- DNase**  
gene cattle cloning 195
- Dodecylimidazole**  
cystine lactate dehydrogenase fibrob=
- last 43
- Dolichol**  
formation Trypanosoma review 268
- linked oligosaccharide brain Batten  
disease 1031
- Dopamine**  
aldosterone formation adrenal 387
- D2 receptor purifn brain** 450
- prolactin secretion G protein 887
- Down**  
syndrome chromosome 21 gene 171
- Drug**  
carrier liposome erythrocyte review  
917
- delivery liposome review 910
- design protein blotting 138
- Dysplasia**  
rod hereditary photoreceptor biochem  
electrophysiolog 1074
- Dysprosium**  
shift reagent lithium NMR biochem  
207
- D2**  
dopamine receptor purifn brain 450
- Ectonucleotidase**  
acetylcholine synapse brain 442
- Education**  
postgraduate biomedical science New  
Zealand 120
- postgraduate Europe 122
- postgraduate student view 125
- Efflux**  
sodium liposome alamethicin hemoly=
- sin melittin 594
- EFTu**  
elongation factor kirromycin interac=
- tion 761
- EGF**  
enzyme mammary gland lactation  
778
- histamine cAMP parietal cell 808
- peptide structure activity review 671
- phenylalanine hydroxylation liver  
insulin 897
- prostate growth 389
- receptor breast cancer hormone 173
- Eicosanoid**  
lipoxygenase substrate inhibition 38
- skin review 680
- Elastase**  
collagenase bronchoalveolar fluid  
sarcoidosis 390
- Elastin**  
meat cooking 169
- Electroblotting**  
adhesive protein 144
- IgG lab expt 762
- Electrochem**  
Azotobacter flavodoxin graphite  
electrode aminoglycoside 959
- cytochrome b5 peptide gold electrode  
958
- protein complex graphite electrode  
957
- Electrode**  
gold peptide cytochrome b5 electro=
- chem 958
- graphite Azotobacter flavodoxin  
electrochem aminoglycoside 959
- graphite cytochrome c peroxidase  
aminoglycoside 842
- graphite protein complex electrochem  
957
- Electroinjection**  
cell transformation 1018
- Electromagnetic**  
stimulation conduction block frog  
1020
- Electron**  
capture mass spectroscopy steroid  
detn 737
- transport flavoprotein review 416
- Electrophoresis**  
aldolase detection tetrazolium salt  
750
- gel adhesive protein 144
- IgG lab expt 762
- milk protein 165
- protein beer 167
- wool silver staining 639
- Electroporation**  
cell transformation 1018

- Elongation factor EFTu kirromycin interaction 761
- Encapsulation glucosidase erythrocyte 1051
- Endocarditis Staphylococcus protein antibody 997
- Endocytosis carcinoembryonic antigen receptor Kupffer cell 1027 fibrinopeptide macrophage fibronectin 559 insulin liver ethanol 573 transferrin iron transport hepatocyte 618
- Endonuclease restriction type I evolution review 942
- Endoplasmic reticulum liver partition centrifugation 34 reticulum phospholipid formation channelling 1036 reticulum protein import review 708
- Endosome insulin degrdn liver 574
- Endothelium derived relaxing factor cGMP review 490 derived relaxing factor inositol phosphate 486 derived relaxing factor review 484 function defibrotide 540 vascular acetylcholine inositol diacylglycerol 488
- Endotoxin Bacillus interaction liposome 39
- Engineering biochem education 516 protein purifn affinity chromatog 111
- Enkephalin degrading metallopeptidase cerebral cortex 405 mRNA brain 313
- Enolase cDNA probe epitope human 305 protein PGP95 cDNA human neuron 454
- Enterobacter beta lactamase kinetics cefotaxime resistance 404
- Enterotoxin gene Clostridium cloning 1069
- Enzyme alc metabolizing genetics review 230 amylolytic Penicillium fermn 181 benzoate metab review 1021 dephosphorylation glycogen formation liver 579 exotoxin Staphylococcus osteomyelitis 1000 fatty acid beta oxidn review 418 hysteretic hormone action explosion 562 lipogenic liver hormone 33 malic genetic diabetes 31 mammary gland lactation EGF 778 plasma immunoblotting review 140 polyhydroxybutyrate polyhydroxyalcanoate formation Alcaligenes 1046 proteoglycan detection 159 reactor biochem engineering education 516
- Enzymic prep carbon 13 serine 179
- Enzymol oxidn 409
- Epidermis epidermolytic toxin binding 334 keratin calcium vitamin A 327 keratin hydroxyvitamin D3 psoriasis 331
- ornithine decarboxylase psoriasis 329 retinoid review 668
- Epidermolytic toxin binding epidermis 334
- Epithelium cell transformation oncogene fos 1019 rat mammary p9Ka gene mRNA 1061 reproductive tract reprogramming gene expression 810
- Epitope enolase cDNA probe human 305 localization creatinine kinase mono= clonal antibody 717
- Erythrocyte amino acid transport harmaline 567 aminobenzoate acetylation hemolysis 1024 blood sulfamethazine acetylation health diabetes 786 cryoprotectant 354 drug carrier review 917 glucosidase encapsulation 1051 immunoaffinity partition 968 iron oxygen radical 292 lithium transport 205 lithium transport NMR 827 membrane potassium transport calcium neomycin 598 peptide transport detn NMR 635 peroxide oxygen uptake detn 284 phosphate compartmentation 781 sorbitol dehydrogenase diabetes mellitus 363 taurine transport stoichiometry pigeon 555
- Erythropoietin RIA submaxillary gland 564
- Escherichia bacterioferritin structure 836 citrate synthase cDNA yeast cloning 718 eukaryote protein expression solubilization refolding 108 FNR protein DNA binding specificity 755 glutamate dehydrogenase essential lysine 874 glutathione reductase mechanism 84 GMP reductase IMP dehydrogenase homol 858 inclusion body 101 interferon gene expression 48 NADP glutamate dehydrogenase lysine 876 NADPH cytochrome reductase 872 protein inclusion body recovery 102 recombinant prochymosin purifn 112 ribonucleotide reductase large subunit review 91 uroporphyrinogen III synthase 965
- Esterase lipase growth Aspergillus 790
- Estradiol binding protein Candida 789
- Estrogen detn electron capture mass spectros= copy 737 mRNA cDNA human breast cancer 169 receptor gene cloning chicken monkey 388 receptor gene human 388 RNA ICI 164384 mammary neoplasm 1063
- Ethanol antioxidant plasma myopathy 581 calcium channel blocker vas deferens 381 calcium channel review 527 carnitine palmitoyltransferase I liver 649
- dependence glyceride liver review 251 fatty acid synthase liver 580 glucose metab review 247 heart muscle protein formation 783 insulin endocytosis liver 573 liver toxicity acetaldehyde review 241 metab liver alc dehydrogenase 239 metab microsome review 232 muscle bone circulation 576 protein muscle 571 toxicity muscle review 250 transferrin iron uptake hepatocyte 575 tryptophan metab review 254 xylose fermn Pachysolen Candida recycle 198
- Ethylmaleimide pyruvate dehydrogenase lipoyl group desensitization 775
- Etomoxir ketone body metab 797
- Eukaryote protein expression solubilization refolding Escherichia 108
- Evolution bacteria immunoelectroblotting 153 ferret mammal Hb sequence 608 GMP reductase IMP dehydrogenase Escherichia 858 mandelate dehydrogenase microorganism 865 type I restriction enzyme review 942
- Exchange sodium proton adrenal chromaffin granule 595
- Excitable cell calcium homeostasis review 519 cell sodium calcium exchange review 529
- Exoprotein Aeromonas antibody salmon brown trout 999
- Exotoxin enzyme Staphylococcus osteomyelitis 1000
- Explosion enzyme hysteretic hormone action 562
- Explosive reaction hormone action 562
- Expt IgG electrophoresis electroblotting 762
- Extension Capsicum culture capsaicin prodn 66
- Extracellular matrix heparan antioxidant disease 977 protein fibroblast antiserum 375
- Extrusion brain protein reconstitution liposome 352
- Eye cornea keratan sulfate distribution 333 retina calcium binding protein 299
- Factor EFTu kirromycin interaction 761 III apoprotein ppn 570
- Fast protein liq chromatog DNA 368
- Fasting insulin processing liver 1041
- Fatigue twitch tetanic rat diaphragm 382
- Fatness genetics insulin lipogenesis 1037
- Fatty acid beta oxidn enzyme review 410 acid beta oxidn intermediate review 410 acid beta oxidn review 418

- acid binding protein purified liver 719  
 acid fluidity microsome pyrene 349  
 acid formation Fusilade inhibition mechanism 277  
 acid isomer platelet aggregation collagen 291  
 acid liver fructose bisphosphate 1015  
 acid metab hepatocyte glucagon 1007  
 acid metab hepatocyte sheep 203  
 acid metab liver hormone 1002  
 acid oxidn defect mitochondria review 424  
 acid plasma pyruvate dehydrogenase 553  
 acid polyunsatd blood platelet aggregation 385  
 acid polyunsatd oxidn mechanism review 420  
 acid short chain prostaglandin synthase 398  
 acid substrate inhibition lipoxygenase 38  
 acid synthase component plant 392  
 acid synthase liver ethanol 580
- Fc receptor function leukocyte lipocortin 1 730  
 receptor IgG subtype monocyte 734  
 receptor monoclonal IgG Rh antigen 733  
 receptor subtype IgG isotype binding 725  
 region antibody effector function review 953  
 region IgG1 monoclonal antibody idiotypic 747
- FcR neutrophil autoimmune neutropenia 732
- Fenpropimorph fungicidal activity membrane permeability 350
- Fermenter biochem engineering education 516
- Fermn amylolytic enzyme Penicillium 181  
 beta galactosidase Paecilomyces 183
- Ferredoxin I redox potential Azotobacter 840
- Ferret Hb beta chain sequence 608
- Ferritin hemosiderin 828  
 iron liver hemochromatosis hemosiderin 830
- Ferrochelatase detn HPLC 831
- Festuca chloroplast assembly disassembly mechanism 1053  
 cytochrome f chloroplast senescence 1054
- Fetus astrocyte receptor adrenergic purinergic 432  
 brown adipocyte culture lipogenesis 274
- Fibrinogen blood human genetics 541
- Fibrinopeptide endocytosis macrophage fibronectin 559
- Fibroblast androgen receptor regulation skin 172  
 cell aging glycolysis 617  
 cystine lactate dehydrogenase dodecylimidazole 43  
 diacylglycerol insulin cholera toxin 283  
 extracellular protein antiserum 375  
 gingiva gelatinase 893  
 growth factor phosphoinositide hydrolysis 987  
 lipoprotein receptor cAMP 1008  
 metab collagen lattice contraction 328
- Fibronectin bronchoalveolar fluid tobacco smoke 378  
 fibrinopeptide endocytosis macrophage 559
- Fibrosis cystic calmodulin function 345
- Filaggrin cell envelope skin newborn 324
- Filament intermediate desmin monoclonal antibody 52  
 myosin phosphorylation self assembly regulation 501  
 thin calcium binding protein 355
- Fish glycogen phosphorylase brain hypoxia 621  
 phenoxybenzoate metab 24
- Flavodoxin Azotobacter electrochem graphite electrode aminoglycoside 959
- Flavoprotein electron transport review 416  
 superoxide oxidase inhibition diphenyleneiodonium 888
- Fluid complement C3 fragment biol 160
- Fluorescence activated cell sorting receptor 363  
 lysosome disease diagnosis review 11  
 thylakoid ATP protein phosphorylation 46
- Fluorescent probe pyrene fluidity microsome 349
- Fluorometry calmodulin dependent phosphoprotein phosphatase detn 297
- Fly salivary potential oscillation inositol phosphate 988
- FNR protein DNA binding specificity Escherichia 755
- Folding tailspike maturation aggregation phage P22 105
- Follicle fluid ovary inhibin 212
- Fos oncogene epithelium cell transformation 1019
- Frog conduction block electromagnetic stimulation 1020
- Fructose bisphosphate liver substrate 1015
- Fucosyltransferase blood leukemia cell chemotherapy substrate 1034
- Fungi fatty acid beta oxidn review 418  
 Hc toxin synthetase 401
- Fungicidal activity fenpropimorph membrane permeability 350
- Fusilade inhibition mechanism fatty acid formation 277
- Fusion membrane osmotic force 882
- G protein hormone receptor review 434 437  
 protein prolactin growth hormone 887
- GABA calcium growth cone brain 444  
 receptor butylbicyclophosphorothionate ganglion insect 475  
 receptor grasshopper 310
- GABAergic chloride flux inhibition insecticide 303
- Galactosemia ATPase peripheral nervous tissue diabetes 306
- Galactoside beta extracellular Paecilomyces 183
- Galactosyltransferase isoenzyme detection immunoblotting 158
- Gamma turn review protein conformation 50
- Ganglion benzodiazepine receptor grasshopper 310  
 butylbicyclophosphorothionate GABA receptor insect 475  
 cell retina axon regeneration laminin 440
- Gap junction channel function review 534
- Gastric acid secretion gastrin analog 628  
 juice pepsin pentagastrin bethanechol 26  
 mucin subunit size 585
- Gastrin analog gastric acid secretion 628  
 peptide pyrrolidinone beta bend 175
- Gastromyotonia muscle conduction block frog 1020
- GDP binding mitochondria cold obesity 1009
- Gel chromatog antigen detn antibody 769  
 electrophoresis adhesive protein 144  
 electrophoresis app 762  
 isoelectric focusing blotting protein 154
- Gelatinase gingiva fibroblast 893
- Gene acetylcholine receptor locust cloning 463  
 active inactive nucleosome micrococcal nuclease 1060  
 aldehyde alc dehydrogenase human review 227  
 alpha casein mapping mouse 624  
 androgen responsive 695  
 ATTT consensus sequence human mouse 366  
 beta casein rabbit 623  
 calcium binding protein p9Ka 1061  
 casein mouse sequence 1064  
 cerbB2 protein monoclonal antibody 675  
 chloroplast transcription photoregulation review 711  
 chromosome 21 Down syndrome 171  
 class I antigen transcription translocation 605  
 collagen structure review 661  
 DNase cattle cloning 195  
 EGF receptor hormone cancer 173  
 enterotoxin Clostridium cloning 1069  
 estrogen receptor cloning chicken monkey 388  
 estrogen receptor human 388  
 expression plasmid stability Bacillus 192  
 expression reproductive tract epithelium reprogramming 810  
 glyceraldehyde phosphate dehydrogenase retrosposon Trypanosoma 1067  
 growth hormone glucocorticoid response 176  
 hemolysin Vibrio 638  
 heterologous expression Hansenula review 1081

- hsp108 protein human 174  
 interferon expression Escherichia 48  
 lux Vibrio cloning Lactobacillus  
 Streptococcus 1068  
 lymphokine expression human RNase 367  
 parvalbumin expression brain 313  
 progesterone receptor chicken 683  
 prolactin growth hormone regulation rat 699  
 protein PGP95 structure review 323  
 protein p68 sequence lipocortin 813  
 SAL3 SAL4 allosuppressor Saccharomyces 30  
 UDP glucuronosyltransferase isoenzyme human liver 157
- Genetic**  
 diabetes malic enzyme thyroid hormone 31  
 recombination mechanism resolvase 754  
 recombination resolvase DNA supercoiling 760  
 transformation cell selection 1018
- Genetics**  
 alc metabolizing enzyme review 230  
 aldehyde alc dehydrogenase human review 227  
 antithrombin III Dublin 2 374  
 fibrinogen blood human 541  
 insulin lipogenesis fatness 1037
- Genome**  
 human sequence mapping 766  
 segmented DNA Borrelia 544
- Genotoxicity**  
 yeast cytochrome P 450 review 1086
- Gentamicin**  
 calcium metab kidney brush border 213
- Gingiva**  
 fibroblast gelatinase 893
- Gland**  
 midgut Procambarus glutathione cadmium 23
- Glia**  
 protein kinase C TPA 294
- Gliadin**  
 alpha wheat gluten isoelec focusing 748
- Glucagon**  
 fatty acid metab hepatocyte 1007  
 hydroxymethylglutarylCoA synthase liver 633  
 phenylalanine hydroxylation EGF liver 897  
 secretion arginine pancreas 1017  
 triiodothyronine lipogenic enzyme liver 33
- Glucocorticoid**  
 adrenergic agonist muscle 1073  
 insulin sensitivity muscle 174  
 receptor heat shock protein review 688  
 response growth hormone gene 176
- Gluconeogenesis**  
 liver angiotensin 636  
 propionate hepatocyte sheep phosphoenolpyruvate carboxykinase 204
- Glucose**  
 precursor glycogen formation liver 579
- Glucose**  
 alk picrate creatinine 395  
 alk picrate spectra 393  
 creatinine alk picrate spectra 394  
 dehydrogenase Thermoplasma 864  
 insulin carnitine liver starvation 1014  
 liver fructose bisphosphate 1015  
 metab ethanol review 247  
 oxid bradykinin adipocyte 1012  
 pancreas GTP insulin 809  
 parenteral heart protein formation 782
- phosphate dehydrogenase detn urine neoplasm 555  
 phosphate dehydrogenase hormone liver 33  
 phosphate dehydrogenase Leuconostoc hexokinase detn 867  
 phosphate dehydrogenase liver development 899  
 phosphate dehydrogenase NADP NADPH conformation 903  
 phosphate glycogen cycling muscle uremia 578  
 refeeding starvation liver glycogen 579  
 refeeding starvation skin glycogen 332  
 transporting protein microvessel liposome 352
- Glucosidase**  
 alpha specificity reclassification bacteria 184  
 alpha Streptomyces maltase sepn specificity 180  
 encapsulation erythrocyte 1051  
 Phanerochaete 369
- Glucuronicide**  
 ester dicarboxylic aciduria urine 744
- Glucuronosyltransferase**  
 UDP isozyme gene human liver 157  
 UDP liver hypothyroidism substrate 802
- Glutamate**  
 binding protein sepn brain 446  
 brain nerve terminal 879  
 decarboxylase synaptic membrane bound 321  
 dehydrogenase carboxyl group binding site 860  
 dehydrogenase Escherichia lysine 876  
 dehydrogenase essential lysine Escherichia 874  
 dehydrogenase NAD cofactor analog binding 862  
 dehydrogenase pyridoxal phosphoadenine nucleotide 861  
 dehydrogenase substrate site lysine Clostridium 875  
 receptor solubilization methylaspartate quisqualate 314  
 release brain presynaptic regulation 881  
 synaptosome calcium ischemia anoxia hypoglycemia 880
- Glutamine**  
 synthetase expression liver region 572
- Glutamyltranspeptidase**  
 midgut gland Procambarus cadmium 23
- Glutaredoxin**  
 redox mechanism property review 95
- Glutathione**  
 midgut gland Procambarus cadmium 23  
 reductase mechanism Escherichia 84  
 reductase structure mechanism review 81  
 transferase subunit brain 386
- Gluten**  
 wheat alpha gliadin isoelec focusing 748
- Glycated**  
 aspartate lysine urine 29  
 protein blood lens cataract 648
- Glyceraldehyde**  
 pancreas GTP insulin 809  
 phosphate dehydrogenase aldolase reaction coupling 752  
 phosphate dehydrogenase gene retroposon Trypanosoma 1067  
 phosphate dehydrogenase resonance Raman 49
- Glycerate**  
 dehydrogenase liver hyperoxaluria 2 626
- Glyceride**  
 liver ethanol dependence review 251
- Glycerol**  
 dehydrogenase apo reactivation zinc Bacillus 975  
 NADP dehydrogenase bicarbonate Aspergillus 976
- Glycinebetaine**  
 cryoprotectant erythrocyte liposome 354
- Glycoconjugate**  
 parasite mammal review 257
- Glycodeoxycholate**  
 trypsinogen trypsin inhibitor 168
- Glycogen**  
 formation liver gluconeogenic precursor 579  
 glucose phosphate cycling muscle uremia 578  
 muscle hyperthyroidism starvation refeeding rat 554  
 phosphorylase brain hypoxia fish 621  
 skin glucose refeeding starvation 332
- Glycolipid**  
 anchor VSG protein membrane 996  
 liposome uptake intestine 342
- Glycolipoprotein**  
 VSG formation Trypanosoma 996
- Glycolysis**  
 cell aging growth 617  
 heart isoprenaline calcium 591  
 synovial cell lymphokine cytokine 889
- Glycoprotein**  
 breast tumor hormone 1026  
 formation Trypanosoma review 268  
 IRBP apolipoprotein E antibody 318  
 mucus colon adenoma carcinoma 581  
 NCAM sequence human 457  
 Tamm Horsfall kidney review 547
- Trypanosoma**  
 review 257  
 variant surface formation Trypanosoma review 261  
 variant surface glycolipid formation Trypanosoma 996  
 variant surface membrane anchor review 265  
 VSG eukaryote phospholipase review 271
- Glycopyrrolate**  
 neostigmine neuromuscular blockade atracurium 746
- Glycosaminoglycan**  
 collagen atherosclerosis plaque rupture 1033  
 rod outer segment phagocytosis 319
- Glycosylation**  
 IgG heterogeneity 340  
 lecithin cholesterol acyltransferase secretion hepatocyte 155
- Glycosylphosphatidylinositol**  
 eukaryote membrane protein review 271  
 membrane anchor Trypanosoma review 265
- Glyoxylate**  
 reductase liver hyperoxaluria 2 626
- Glyoxysome**  
 formation protein body review 706
- GMP**  
 reductase IMP dehydrogenase homolog Escherichia 858
- Gold**  
 electrode peptide cytochrome b5 electrochem 958
- Golgi**  
 membrane protein phosphorylation mammary lactation 285  
 nucleoside diphosphatase detn calcium activation 561

- Gonadoliberin  
pituitary gonadotropin androgen 170
- Gonadotropin  
chorionic immunosuppression horse 793  
pituitary LHRH androgen 170
- Gossypol  
tumor cell respiration uncoupler 616
- Granule  
secretion platelet protein phosphorylation 804
- Granulocyte  
model HL60 cell biochem 400
- Graphite  
electrode Azotobacter flavodoxin  
electrochem aminoglycoside 959  
electrode cytochrome c peroxidase  
aminoglycoside 842  
electrode protein complex electrochem 957
- Grasshopper  
benzodiazepine receptor ganglion 310  
lipogenesis carbonic anhydrase 973
- Growth  
cell NSD 1055 211  
cone neurotransmitter calcium brain 444  
hormone G protein 887  
hormone gene glucocorticoid response 176  
hormone muscle collagen 177  
hormone prolactin gene regulation rat 699  
lipase esterase Aspergillus 790
- GTP  
pancreas insulin nutrient 809
- Guanidinobenzoatase  
inhibitor tumor 556
- Guinea  
pig ileum contraction sodium 588
- Hansenula  
heterologous gene expression review 1081
- Harmaline  
amino acid transport erythrocyte 567  
cardiovascular sodium calcium exchange review 539  
intestine contraction cation exchange 589
- Hb  
beta chain sequence ferret 608  
inositol hexaphosphate phosphorus 31 NMR 839
- Hc  
toxin synthetase *Helminthosporium* 401
- Health  
hazard antidepressant porphyria 847
- Heart  
calcium sensitive dehydrogenase barium mitochondria 590  
collagen metab age 749  
hormone sensitive lipase 1038  
kallikrein kinin system ischemia 1011  
lactate dehydrogenase isoenzyme purifn 18  
leukotriene vasoconstriction 361  
mitochondria isocitrate dehydrogenase 873  
mitochondria protein antigen immuno-electrophoresis 53  
muscle protein formation ethanol 783  
muscle regulation 503  
protein formation parenteral amino acid 782  
pyruvate dehydrogenase aorta constriction 772  
pyruvate dehydrogenase fatty acid 553  
respiration glycolysis calcium isoprenaline 591
- sarcolemma atriopeptin receptor 1022
- Heat  
shock protein cDNA human 174  
shock protein glucocorticoid receptor review 688
- Heavy  
metal insulin receptor protein kinase 896  
metal lipid algae 275
- Helminthosporium*  
aminoepoxyxodecanoate formation synthetase 402  
Hc toxin synthetase 401
- Helper  
T lymphocyte DNA autoantibody 148
- Heme  
iron protoporphyrin HPLC 831  
stability oxyHb alkali 386
- Hemochromatosis  
iron hemosiderin ferritin liver 830
- Hemolysin  
delta sodium efflux liposome 594  
gene Vibrio 638
- Hemolysis  
aminobenzoate acetylation blood erythrocyte 1024
- Hemosiderin  
ferritin 828  
iron liver hemochromatosis ferritin 830
- HEP  
G2 hepatoma mixed function oxidase 801
- Heparan  
extracellular matrix antioxidant disease 977
- Heparin  
calcium interaction model 1028  
superoxide dismutation 1030
- Hepatocyte  
culture bile acid cholesterol diet 1001  
fatty acid metab sheep 203  
gluconeogenesis propionate sheep phosphoenolpyruvate carboxykinase 204  
inositol trisphosphate detn 991  
iron transport transferrin endocytosis 618  
lecithin cholesterol acyltransferase secretion 155  
paracetamol toxicity methylprostaglandin E2 641  
transferrin iron uptake ethanol 575
- Hepatoerythropoietic  
porphyria biochem pathophysiol 829
- Hepatoma  
HEP G2 mixed function oxidase 801
- HepG2  
cell lipoprotein receptor detn 363
- Heptane  
water interface Chromobacter lipase adsorption 273
- Hereditary  
rod dysplasia photoreceptor biochem electrophysiolog 1074
- Hexokinase  
detn phosphogluconate dehydrogenase interference 867
- High  
mol wt multicatalytic protease brain 852  
mol wt nonlysosomal proteinase liver 629
- Hippocampus  
inositol lipid hydrolysis anticonvulsant carbamazepine 986
- Histamine  
cAMP stomach parietal cell 808
- Histochem  
hexokinase phosphogluconate dehydrogenase interference 867
- Histocompatibility  
antigen DNA autoantibody formation 148
- HL60  
cell biochem granulocyte model 400
- HOE32258  
neg selection CHO cell 1018
- Hormone  
action explosive reaction 562  
calcium mitochondria function review 523  
glycoprotein breast tumor 1026  
growth gene glucocorticoid response 176  
growth prolactin gene regulation rat 699  
lipogenic enzyme liver 33  
protooncogene prostate growth 389  
receptor activation review 437  
receptor G protein review 434  
sensitive lipase heart 1038  
thyroid genetic diabetes 31  
vascular relaxation calcium cGMP 497
- Horse  
alanine transport erythrocyte 567  
placenta immunosuppressive factor 793
- HPLC  
ion exchange oligodeoxyribonucleotide 368  
iron heme protoporphyrin 831  
reversed phase acyl carnitine 796
- HSP90  
protein interaction glucocorticoid receptor review 688
- Human  
acute intermittent porphyria 799  
alc aldehyde dehydrogenase review 230  
aldehyde alc dehydrogenase genetics review 227  
autoimmune disease idiotypic distribution 341  
breast cancer estrogen mRNA cDNA 169  
enolase cDNA probe epitope 305  
estrogen receptor gene 388  
genetics fibrinogen blood 541  
genome sequence mapping 766  
leucine aminopeptidase brain cortex 850  
lymphokine gene expression RNase 367  
mouse gene ATTT consensus sequence 366  
NCAM glycoprotein sequence 457  
neuron protein PGP95 enolase cDNA 454  
platelet aggregation inhibitor barley 19  
protein hsp108 gene 174
- Hyaluronate  
binding proteoglycan fragment cartilage 188
- Hyaluronidase  
sperm acrosome staining 643
- Hybridization  
DNA oligodeoxyribonucleotide immobilization 216
- Hybridoma  
infected mycoplasma elimination mouse 398
- Hydration  
polystyrene surface cell adhesion 1029
- Hydrogenase  
inactivation mercurial Desulfovibrio 178
- Hydrogenated  
oil platelet aggregation collagen 291
- Hydroxy  
steroid dehydrogenase liver microsome bird 22

- Hydroxylase**  
phenylalanine liver mRNA diabetes 1057
- Hydroxylation**  
phenylalanine liver EGF insulin 897
- Hydroxymethylase**  
serine prepn 179
- Hydroxymethylglutaryl**  
CoA reductase sympathetic system 201
- HydroxymethylglutarylCoA**  
synthase glucagon mannoheptulose liver 633
- Hydroxytryptamine**  
synaptosome sodium calcium 803
- Hydroxyvitamin**  
D3 psoriasis epidermis keratin 331
- Hymenolepis**  
tegument NAD metab calmodulin 868
- Hyperalgesia**  
protein kinase C prostaglandin 818
- Hypercholesterolemia**  
diabetes rabbit lipoprotein blood atherosclerosis 200
- Hyperoxaluria**  
1 alanine glyoxylate aminotransferase liver 627  
2 liver enzyme 626
- Hyperplasia**  
adrenal congenital review 691
- Hyperthyroidism**  
glycogen muscle starvation refeeding rat 554
- Hypoglycemia**  
calcium glutamate synaptosome 880
- Hypothalamus**  
TRH processing prostate 784
- Hypothyroidism**  
UDP glucuronosyltransferase liver substrate 802
- Hypoxia**  
glycogen phosphorylase brain fish 621  
muscle creatine kinase ultrastructure calcium 1052
- Hysteresis**  
ATP synthase phosphorylation bifurcation 645  
isocitrate dehydrogenase AMP Acinetobacter 870
- Hysteric**  
enzyme hormone action explosion 562
- ICI**  
164384 estrogen RNA mammary neoplasm 1063
- Idiotype**  
distribution human autoimmune disease 341
- Idiotyp**  
monoclonal antibody IgG1 Fc region 747
- IgA**  
receptor neutrophil opsonization 731
- IGF1**  
insulin plasma tissue protein proteoglycan 624
- IgG**  
blood copper deficiency diet lactose 54  
electrophoresis electroblotting lab expt 762  
Fc receptor subtype monocyte 734  
isotype Fc receptor subtype binding 725  
monoclonal Rh antigen Fc receptor 733  
monoclonal Rh antigen leukocyte rosette 727  
Fc region monoclonal antibody idiotyp 747
- IgG4**  
glycosylation heterogeneity 340
- Ileum**  
muscle contraction sodium animal species 588
- Immobilization**  
oligodeoxyribonucleotide DNA hybridization 216  
oligonucleotide cellulose 367
- Immunity**  
copper deficiency lactose diet 54  
Mycobacterium stress protein 721  
Schistosoma carbohydrate antigen 264
- Immunoaffinity**  
partition erythrocyte 968
- Immunoassay**  
trypsinogen activation calcium 337
- Immunoblotting**  
antibody purifn Sepharose chromatog 134  
antibody response infection 132  
antigen protein staining single gel 149  
autoantibody Sm nRNP antigen detection 162  
Borrelia protein antibody detection 161  
enzyme protein plasma review 140  
galactosyltransferase isoenzyme detection 158  
leprosy antigen review 143  
peptide antigen mitochondria 151  
protein review 131
- Immunocytochem**  
localization acetylcholinesterase sarclemma muscle 770
- Immunoelectroblotting**  
evolution bacteria 153  
protein antigen mitochondria heart 53
- Immunoregulation**  
skin cytokine review 677
- Immunosuppression**  
factor placenta horse 793
- IMP**  
dehydrogenase GMP reductase homol Escherichia 858
- Import**  
protein endoplasmic reticulum review 708
- Inclusion**  
body Escherichia 101  
body protein purifn bacteria 102
- Indium**  
interaction transferrin ovotransferrin 833
- Indolepropionylleucylaspartylphenethylamide**  
stomach acid secretion 628
- Infection**  
antibody response immunoblotting 132
- Inflammation**  
metallothionein I 820
- Inherited**  
defect fatty acid oxidn review 424
- Inhibin**  
ovary follicle fluid 212
- Inhibition**  
substrate biliverdin reductase chloride 403
- Inhibitor**  
human platelet aggregation barley 19  
platelet aggregation liver cytosol 898
- Initiation**  
codon interferon gene mutation Escherichia 48  
factor eIF2 Saccharomyces 45
- Initiator**  
protein REP D DNA tyrosine 758
- Injury**  
nerve actin substance P neuron 465
- optic nerve axon regeneration laminin**  
440
- Inorg**  
ion liver acetate 577
- Inositol**  
hexaphosphate Hb phosphorus 31  
NMR 839
- lipid hydrolysis hippocampus carbamazepine anticonvulsant** 986
- metab nerve mollusk** 316
- phosphatase myelocyte** 557
- phosphate cell differentiation** 985
- phosphate endothelium derived relax=** ing factor 486
- phosphate formation neutrophil**  
thrombin 280
- phosphate lung parenchyma contrac=** tion 35
- phosphate PGF2alpha ras neoplastic**  
transformation 990
- phosphate salivary potential oscillation** Calliphora 988
- tetrakisphosphate vasopressin** 984
- trisphosphate acetylcholine blood**  
vessel 488
- trisphosphate detn hepatocyte** 991
- trisphosphate tetrakisphosphate**  
microsome liver 593
- trisphosphorothioate calcium mobili=** zation cell 995
- Insect**  
ganglion butylbicyclophosphorothionate GABA receptor 475
- Insecticide**  
GABAergic chloride flux inhibition 303
- Insulin**  
bradykinin glucose adipocyte 1012  
carnitine metab liver starvation 1014  
degrdn endosome liver 574  
diacylglycerol cholera toxin fibroblast 283  
endocytosis liver ethanol 573  
fatty acid metab liver 1002  
IGF1 plasma tissue protein proteoglycan 624  
lipogenesis genetics fatness 1037  
liposome oral distribution 343  
pancreas GTP nutrient 809  
phenylalanine hydroxylation liver EGF 897  
processing liver fasting 1041  
pyruvate dehydrogenase refeeding 773  
receptor chloroquine liver 1040  
receptor kinase autophosphorylation site 1065  
receptor kinase zinc cadmium copper 896  
receptor tyrosine kinase regulation liver 40  
secretion adrenergic antagonist 1005  
secretion intracellular pH 807  
sensitivity glucocorticoid muscle 174  
succinate thiokinase diabetes 795
- Interface**  
heptane water Chromobacter lipase adsorption 273
- Interferon**  
alpha 2 recombinant purifn refolding 58  
antigen class I gene transcription 605  
carbon tetrachloride toxicity liver 632  
colon tumor growth inhibition 1049  
gene expression Escherichia 48
- Interleukin**  
1 beta three dimension structure 949  
1 synovium arachidonate 286  
2 placenta protein 14 immunosup=
- pression 794

**Interleukin1** synovial cell antirheumatic drug 892  
**Internalization** adrenergic receptor adenylate cyclase desensitization 308  
**Interphotoreceptor** retinoid binding protein apolipoprotein E 318  
**Intestine** brush border iron transport 832 contraction sodium calcium exchange 589 liposome uptake glycolipid 342 pancreas enlargement diet soybean protein 610  
**Intracellular** messenger polyamine thyroid 397 pH insulin secretion 807  
**Ion** affinity metal complex 835 exchange HPLC oligodeoxyribonucleotide 368 inorg liver acetate 577 transport stomach mucosa thiocyanate methylphenylmethoxyimidazole pyridineacetonitrile 27  
**IR** spectrometry brain oxygenation detn 980 spectrometry tissue oxygenation 978  
**Iron** binding ferritin light chain mutant 838 binding transferrin bicarbonate review 825 dextran liver subcellular processing 854 erythrocyte oxygen radical 292 heme protoporphyrin HPLC 831 hemosiderin ferritin liver hemochromatosis 830 lipid peroxidation kidney brush border 20 transferrin uptake hepatocyte ethanol 575 transport hepatocyte transferrin endocytosis 618 uptake carrier size brush border 832  
**Ischemia** calcium glutamate synaptosome 880 cell membrane protein lipid 537 heart kallikrein kinin system 1011 xanthine dehydrogenase oxidase tissue 358  
**Iso** 1 cytochrome c structure arginine 844  
**Isocitrate** dehydrogenase heart mitochondria 873 dehydrogenase isoenzyme AMP hysteresis *Acinetobacter* 870 dehydrogenase NAD *Methylophilus* 871  
**Isoelec** focusing gel blotting protein 154 focusing wheat gluten alpha gliadin 748  
**Isoenzyme** alc aldehyde dehydrogenase review 223 galactosyltransferase detection immuno blotting 158 isocitrate dehydrogenase *Acinetobacter* AMP hysteresis 870 lactate dehydrogenase purifn heart liver 18 UDP glucuronosyltransferase gene human liver 157  
**Isomerase** protein disulfide bacteria 57 protein disulfide lymphocyte maturation 56 protein disulfide mechanism function review 96

protein disulfide solubilization microsome 58  
**Isoprenaline** heart respiration glycolysis calcium 591  
**Isotope** stable ketone body turnover 736  
**Jaffe** reaction creatinine detn 393 394 395 reaction creatinine detn acetoacetate 549 reaction creatinine detn bilirubin 550 551  
**Kallikrein** kinin system heart ischemia 1011  
**Keratan** sulfate eye cornea distribution 333  
**Keratin** epidermis calcium vitamin A 327 epidermis hydroxyvitamin D3 psoriasis 331 formation pilosebaceous duct acne 330  
**Keratinocyte** proliferation differentiation review 666  
**Ketoconazole** inhibition aromatase ovary placenta 29  
**Ketoisocaproate** pancreas GTP insulin 809  
**Ketone** body metab etomoxir 797 body succinate thiokinase metabolic role 795 body turnover detn 736  
**Ketotifen** arachidonate lipoxygenase inhibition 814  
**Kidney** brush border calcium metab gentamicin 213 brush border lipid peroxidation iron 20 cortex membrane uridine transport 768 failure uteroglobin like protein urine 970 rubidium transport detn NMR 596 rubidium 87 NMR lineshape analysis 806 Tamm Horsfall glycoprotein review 547 toxicity chloroform polyribonucleic acid polyribocytidylic acid 631 tubule resorption phosphate depletion 785 tubule sodium phosphate cotransport 353  
**Kinase** adenosine inhibitor cytotoxicity structure 756 creatine muscle hypoxia ultrastructure calcium 1052 creatinine epitope localization monoclonal antibody 717 insulin receptor autophosphorylation site 1065 insulin receptor zinc cadmium copper 896 myosin light chain regulation review 499 phosphoglycerate substrate binding site NMR 724 protein activation dense vesicle phosphodiesterase 1025 protein C activator platelet secretion 804 protein C glia TPA 294 protein C hyperalgesia prostaglandin 818 protein C nervous system review 460 protein C subspecies organ 307 protein cAMP activity ratio detn 355  
**thymidine leakage** cell proliferation 55  
**tyrosine insulin receptor regulation** liver 40  
**tyrosine protein affinity chromatography** liver 780  
**Kinin** kallikrein system heart ischemia 1011  
**Kirromycin** elongation factor EF-Tu interaction 761  
**Klebsiella** pullulanase collagen like quaternary structure 722 pullulanase core structure function 723  
**Klenow** fragment DNA polymerase replication fidelity 947  
**Kluyveromyces** ferment control calorimetry 1091  
**Kupffer** cell carcinoembryonic antigen receptor endocytosis 1027  
**Lab** expt IgG electrophoresis electroblotting 762 expt recombinant plasmid 763  
**Label** photoaffinity monoamine oxidase active site 214  
**Lactamase** beta kinetics *Enterobacter* cefotaxime resistance 404 beta structure kinetics review 934  
**Lactate** dehydrogenase fibroblast dodecylimidazole 43 dehydrogenase isoenzyme purifn heart liver 18 formation heart isoprenaline calcium 591  
**Lactation** cholesterol acyltransferase mammary 1013 Golgi membrane mammary protein phosphorylation 285 mammary gland enzyme EGF 778  
**Lactobacillus** bioluminescence phosphate dependence lux gene 1068  
**Lactoferrin** casein bound milk 215  
**Lactoglobulin** milk allergenicity rat 338  
**Lactose** diet copper deficiency immunity 54  
**Laminin** axon retina ganglion cell regeneration 440  
**Lattice** contact protein crystn 961  
**Laudanosine** neuromuscular junction atracurium 336  
**Lecithin** cholesterol acyltransferase secretion hepatocyte 155  
**Lectin** activity serine proteinase 1035 interaction *Leishmania* *Trypanosoma* 586  
**Leishmania** lectin interaction 586 lipophosphoglycan function review 259  
**Lens** nonenzymic glycated protein cataract 648  
**Leprosy** antigen immunoblotting review 143  
**Leucine** aminopeptidase brain cortex human 850

- aminopeptidase inhibition leucine thioamide 185  
 aminopeptidase inhibition methylleucine chloromethyl ketone 186  
**Leuconostoc**  
 glucose phosphate dehydrogenase hexokinase detn 867  
**Leukemia**  
 cell calcium SRI 62 834 278  
 cell monoclonal antibody 376  
 fucosyltransferase blood cell chemo= therapy substrate 1034  
**Leukocyte**  
 arachidonate metab corticosteroid 279  
 Fc receptor function lipocortin 1 730  
 oxygen radical formation penicillamine 891  
 Rh antigen rosette monoclonal IgG 727  
**Leukotriene**  
 cardiovascular system review 482  
 heart vasoconstriction 361  
**LHRH**  
 calcium protein kinase C 597  
 gonadotropin pituitary androgen 170  
**Ligand**  
 mol recognition dihydrofolate reduc=tase mutation 925  
 protein mol recognition review 927  
 receptor interaction protein blotting 138  
**Lignin**  
 Capsicum culture capsaicin prodn 66  
 peroxidase Phanerochaete 369  
**Linoleate**  
 desaturase liver PCB species 1072  
**Lipase**  
 Chromobacter adsorption heptane water interface 273  
 diacylglycerol brain 293  
 esterase growth Aspergillus 790  
 hormone sensitive heart 1038  
**Lipid**  
 algae heavy metal 275  
 aorta media distribution senescence 164  
 cell membrane ischemia 537  
 diversity membrane liposome model review 912  
 inositol hydrolysis hippocampus carbamazepine anticonvulsant 986  
 manuf yeast review 1088  
 membrane ATPase self assocn 346  
 NMR spectrometry 1  
 peroxid iron kidney brush border 20  
**Lipocortin**  
 protein p68 sequence 813  
 1 leukocyte Fc receptor function 730  
**Lipogenesis**  
 carbonic anhydrase grasshopper 973  
 fetus brown adipocyte culture 274  
 insulin genetics fatness 1037  
**Lipogenic**  
 enzyme liver hormone 33  
**Lipophosphoglycan**  
 function Leishmania review 259  
**Lipopoly saccharide**  
 arsenazo III cation binding 716  
**Lipoprotein**  
 apolipoprotein E rich receptor platelet 154  
 blood hypercholesterolemia diabetes atherosclerosis rabbit 200  
 low density bile acid liver 566  
 low density lymphocyte mitogenesis 202  
 low density platelet calcium 287  
 receptor detn HepG2 cell 363  
 receptor fibroblast vein cAMP 1008  
 serum cell adhesion atherosclerosis 560  
**Liposome**  
 ATPase structure function 914  
 Bacillus endotoxin interaction 39  
 cryoprotectant 354  
 drug carrier review 917  
 insulin oral distribution 343  
 lithium transport NMR 207  
 malaria sporozoite vaccine review 921  
 membrane model therapeutic applica=tion 909  
 model membrane lipid diversity review 912  
 phosphatidylcholine phase transition 348  
 prepn property drug delivery review 910  
 protein brain reconstitution extrusion 352  
 sodium efflux alamethicin hemolysin melittin 594  
 uptake intestine glycolipid 342  
**Lipoxygenase**  
 arachidonate inhibition ketotifen 814  
 fatty acid substrate inhibition 38  
**Lipoyl**  
 group pyruvate dehydrogenase desensitization ethylmaleimide 775  
**Liq**  
 chromatog acyl carnitine 796  
 chromatog fast protein DNA 368  
 chromatog iron heme protoporphyrin 831  
 chromatog thromboplastin apoprotein 570  
**Literature**  
 retrieval vol education 379  
**Lithium**  
 NMR biochem dysprosium shift reagent 207  
 osteoclast long bone development newborn 826  
 transport erythrocyte 205  
 transport erythrocyte NMR 827  
 transport liver 208  
**Liver**  
 acetaldehyde toxicity review 241  
 acini fatty acid glucagon 1007  
 alanine glyoxylate aminotransferase hyperoxaluria 1 627  
 aminolevulinic synthase antidepressant 847  
 atracurium toxicity 614  
 bass glucose phosphate dehydrogenase inactivation 903  
 bile acid low density lipoprotein 566  
 calcium sensitive dehydrogenase barium mitochondria 590  
 carbon tetrachloride toxicity interferon 632  
 carnitine metab insulin starvation 1014  
 carnitine palmitoyltransferase I ethanol 649  
 carnitine palmitoyltransferase mitochondria membrane diabetes 1010  
 cCMP phosphodiesterase effector sensitivity 774  
 cytochrome P 450 642  
 cytosol aldehyde dehydrogenase kinetics mechanism 856 857  
 cytosol platelet aggregation inhibitor 898  
 dehydrogenase development 899  
 endoplasmic reticulum partition centrifugation 34  
 enzyme hyperoxaluria 2 626  
 ethanol metab alc dehydrogenase 239  
 fatty acid binding protein purifn 719  
 fatty acid metab hormone 1002  
 fatty acid metab sheep 203  
**fatty acid synthase** ethanol 580  
**fructose bisphosphate substrate** 1015  
**gluconeogenesis** propionate sheep phosphoenolpyruvate carboxyki=nase 204  
**glyceride** ethanol dependence review 251  
**glycogen formation** gluconeogenic precursor 579  
**high mol wt nonlysosomal proteinase** 629  
**human UDP glucuronosyltransferase** isoenzyme gene 157  
**hydroxymethylglutarylCoA synthase** glucagon mannoheptulose 633  
**inorg ion acetate** 577  
**insulin degrdn** endosome 574  
**insulin endocytosis** ethanol 573  
**insulin processing** fasting 1041  
**insulin receptor** chloroquine 1040  
**insulin receptor tyrosine kinase regulation** 40  
**iron dextran** subcellular processing 854  
**iron hemosiderin ferritin hemochromatosis** 830  
**lactate dehydrogenase** isoenzyme purifn 18  
**lecithin cholesterol acyltransferase** secretion 155  
**linoleate desaturase** PCB species 1072  
**lipogenic enzyme** hormone 33  
**lithium transport** 208  
**malic enzyme** genetic diabetes 31  
**metab angiotensin** 636  
**microsome hydroxy steroid dehydrogenase** bird 22  
**microsome inositol trisphosphate** tetrakisphosphate 593  
**mitochondria protein affinity chromato** 602  
**mixed function oxidase** 801  
**monoxygenase** polyriboinosinic polyribocytidylic acid 630  
**oncogene expression** DMN 1058  
**phenylalanine hydroxylase mRNA** diabetes 1057  
**phenylalanine hydroxylation** EGF insulin 897  
**polyunsatd fatty acid oxidn** review 420  
**protein isoelec focusing** blotting 154  
**pyruvate dehydrogenase** fatty acid 553  
**pyruvate dehydrogenase** starvation refeeding 773  
**pyruvate metab** dexamethasone 1075  
**quinone redox cycle** pyridine nucleotide 866  
**recombinant ferritin light chain mu** tant 838  
**region glutamine synthetase expres** sion 572  
**tyrosine protein kinase** affinity chro= matog 780  
**UDP glucuronosyltransferase** hypo= thyroidism substrate 802  
**Locust**  
 acetylcholine receptor gene cloning 463  
**Long**  
 chain alkylamine phospholipase A2 inhibition 816  
**Low**  
 density lipoprotein lymphocyte mito= genesis 202  
 density lipoprotein platelet calcium 287  
 density lipoprotein receptor detn 363  
**Luliberinase**  
 brain cytosol microsome 209

- Lung**  
 adrenergic receptor desensitization 569  
 metab apolipoprotein surfactant 276  
 parenchyma contraction inositol phosphate 35
- Lux**  
 gene *Vibrio* cloning *Lactobacillus* *Streptococcus* 1068
- Lyase**  
 phenylalanine ammonia calcium phytoalexin 1069
- Lyme**  
 disease diagnosis antibody *Borrelia* protein 161
- Lymphoblast**  
 iron transport transferrin endocytosis 618
- Lymphocyte**  
 activation assocd antigen protein 383  
 activation serine metab 622  
 helper T DNA autoantibody 148  
*IgG* Fc receptor Rh antigen 733  
 maturation protein disulfide isomerase 56  
 mitogenesis cholesterol low density lipoprotein 202  
 T stimulation dipeptidyl aminopeptidase IV 365
- Lymphokine**  
 gene expression human RNase 367  
 synovial cell glycolysis 889
- Lysine**  
 essential glutamate dehydrogenase *Escherichia* 874  
 glycated urine 29  
 NADP glutamate dehydrogenase *Escherichia* 876  
 substrate site glutamate dehydrogenase *Clostridium* 875
- Lysosome**  
 dipeptide uptake mechanism 42  
 fluorescence disease diagnosis review 11  
 sarcoplasmic reticulum muscle 786
- Lysosomotropic**  
 agent muscle 786
- Macaca**  
 pregnenolone metab testis 1003  
 testis steroidogenesis oxytocin 1004
- Macaque**  
 pregnenolone metab testis 1003  
 testis steroidogenesis oxytocin 1004
- Macrophage**  
 alveolar collagenase 391  
 fibrinopeptide endocytosis fibronectin 559
- Major**  
 histocompatibility complex detn 769
- Malantide**  
 cAMP protein kinase activity ratio 355
- Malaria**  
 sporozoite vaccine liposome review 921
- Malic**  
 enzyme genetic diabetes 31  
 enzyme hormone liver 33
- Malignant**  
 effusion galactosyltransferase isozyme detection 158
- Maltase**  
*Streptomyces* alpha glucosidase sepn specificity 180
- Mammal**  
 calcium mitochondria function review 523  
 cyclic nucleotide phosphohydrolase sequence homol 304  
 DNA methyltransferase structure 944  
 Hb sequence evolution 608
- Mammary**  
 cell transformation oncogene retrovirus 1019
- cholesterol acyltransferase pregnancy**  
 lactation 1013
- epithelium rat p9Ka gene mRNA**  
 1061
- gland enzyme lactation EGF** 778  
 lactation Golgi membrane protein phosphorylation 285  
 neoplasm estrogen RNA ICI 164384 1063
- Mandelate**  
 dehydrogenase *Rhodotorula* 865
- Manganese**  
 oxide complex dinuclear model catalase 822
- Mannoheptulose**  
 hydroxymethylglutarylCoA synthase liver 633
- Mannose**  
 VSG glycolipid formation Trypanosoma 996
- Mapping**  
 cloning DNA *Chlorella* 759  
 peptide antigen mitochondria 151  
 restriction cloning casein gene mouse 624  
 restriction expression casein gene rabbit 623  
 sequence human genome 766
- Mass**  
 spectrometry peptide nitrosation detn 740  
 spectroscopy electron capture steroid detn 737
- Maturation**  
 lymphocyte protein disulfide isomerase 56
- Meat**  
 collagen elastin cooking 169
- Media**  
 aorta lipid distribution senescence 164
- Medicarpin**  
 elicitation alfalfa calcium 1069
- Melittin**  
 sodium efflux liposome 594
- Membrane**  
 anchor glycosylphosphatidylinositol *Trypanosoma* review 265  
 brush border protein proteoliposome 344  
 cell ischemia protein lipid 537  
 dihydroliopamide dehydrogenase transport function review 87  
 enzyme phosphatidylinositol anchor detergent solubilization 583  
 erythrocyte potassium transport calcium neomycin 598  
 fusion osmotic force 882  
 glutamate binding protein 446  
 glycolipid anchor VSG protein 996  
 Golgi protein phosphorylation mammary lactation 285  
 interface calcium carbonate crystn 824  
 lipid ATPase self assocn 346  
 lipid diversity liposome model review 912  
 lysosome dipeptide translocation mechanism 42  
 model therapeutic application liposome 909
- NMR spectrometry** 1
- permeability fenpropimorph fungicidal activity** 350
- permeability squalene *Saccharomyces***  
 naftifine 1044
- phospholipid ATPase oleate** 347
- prepns sarcoplasmic reticulum sarcolemma** 356
- protein detn Bradford detergent** 382
- protein gene chloroplast** review 704
- synapse peptidase neurotensin degrdn** 851
- synaptic bound glutamate decarboxylase** 321
- vesicle sialoglycoprotein release trypsin tumor** 189
- Mercurial**  
 hydrogenase inactivation Desulfovibrio 178
- Mercuric**  
 reductase essential cysteine site mutation 90
- Messenger**  
 metab control phosphoinositide review 657
- Metab**  
 control messenger phosphoinositide review 657
- Metabolic**  
 pathway evolution *Acinetobacter* 153
- Metal**  
 chelator computer modeling 835  
 heavy insulin receptor protein kinase 896  
 heavy lipid algae 275  
 ion carboxylate complex deprotonation 406
- Metalloendopeptidase**  
 neurotensin degrdn brain 851
- Metallopeptidase**  
 enkephalin degrading cerebral cortex 405
- Metalloproteinase**  
 myelin demyelinating disease 469
- Methallothionein**  
 I inflammation 820
- Methylaminoethyl**  
 acetate neurovegetative transmitter adrenal 565
- Methylase**  
 DNA pea 757  
 DNA type I evolution review 942
- Methylaspartate**  
 glutamate receptor solubilization 314  
 receptor thienylcyclohexylpiperidine brain 300
- Methylglyoxal**  
 guanylhydrazone cell uptake 210
- Methylleucine**  
 chloromethyl ketone inhibition leucine aminopeptidase 186
- Methylophilus**  
 NAD isocitrate dehydrogenase 871
- Methylphenylmethoxyimidazopyridineacetonitrile**  
 inhibition ATPase stomach 27
- Methylprostaglandin**  
 E2 paracetamol toxicity hepatocyte 641
- Methyltransferase**  
 DNA structure mammal 944
- Methylxanthine**  
 inhibition microsome activation amidinoimidazoarene mutagen 620
- Mevinolin**  
 lymphocyte mitogenesis cholesterol 202
- Microbiol**  
 education Benecke 767
- Micrococcal**  
 nuclease active inactive gene nucleosome 1060
- Microsome**  
 activation aminoimidazoarene mutagen inhibition methylxanthine 620
- brain luliberinase** 209
- fluidity fatty acid pyrene** 349
- inositol trisphosphate tetrakisphosphate** 593
- liver hydroxy steroid dehydrogenase bird** 22
- Mytilus oxygen radical benzopyrene metab** 779
- partition dextran PEG phase** 34
- polyunsatd fatty acid oxidn** review

- 420  
protein disulfide isomerase solubilization 58
- Microvessel**  
glucose transporting protein liposome 352
- Midgut**  
gland *Procambarus glutathione cadmium* 23
- Milk**  
casein bound lactoferrin 215  
galactosyltransferase isoenzyme detection 158  
lactoglobulin allergenicity rat 338  
protein electrophoresis 165
- Mineralization**  
stereochem stearate interface crystn 824
- Mitochondria**  
antigen peptide mapping immunoblotting 151  
brown adipose biochem cold obesity 1009  
calcium sensitive dehydrogenase barium 590  
dicarboxylate metab 423  
fatty acid oxidn defect review 424  
function calcium review 523  
heart protein antigen immunoelectroblotting 53  
isocitrate dehydrogenase heart 873  
liver protein affinity chromatog 602  
membrane carnitine palmitoyltransferase liver diabetes 1010  
phosphate transporter *Saccharomyces* 776  
protein targeting signal 709  
protein transport review 701
- Mitogen**  
prostate growth regulation 389
- Mixed**  
function oxidase HEP G2 hepatoma 801
- Model**  
aldolase phosphocellulose interaction 543  
calcium heparin interaction 1028  
catalase dinuclear manganese oxide complex 822  
mol recognition review 923  
monooxygenase binuclear copper complex 821  
simulation mol biol education 765
- Modulator**  
phosphoprotein phosphatase antibody 720
- Mohair**  
detn wool fiber mixt 639
- Mol**  
biol education computer 764  
biol education model simulation 765  
cloning eukaryote protein *Escherichia* review 108  
recognition ligand dihydrofolate reductase mutation 925  
recognition model review 923  
recognition oligosaccharide review 930  
recognition protein ligand review 927
- Mollusk**  
inositol metab nerve 316
- Monitoring**  
assessment research student project 118
- Monkey**  
chicken estrogen receptor gene cloning 388
- Monoamine**  
oxidase active site photoaffinity label 214
- Monoclonal**  
antibody actin 163  
antibody ATPase inhibition sarcoplasmic reticulum 967
- antibody ATPase sarcoplasmic reticulum 771  
antibody brain tumor cell 373  
antibody cerB2 oncogene protein 675  
antibody creatinine kinase epitope localization 717  
antibody desmin intermediate filament 52  
antibody idiotyp IgG1 Fc region 747  
antibody leukemia cell 376  
IgG Rh antigen Fc receptor 733  
IgG Rh antigen leukocyte rosette 727
- Monocyte**  
antitrypsin mRNA tumor necrosis factor 1055  
chemotaxis inhibition antibody differentiation antigen 966  
complement C1q receptor purifn 735  
IgG Fc receptor Rh antigen 733  
IgG Fc receptor subtype 734  
tumor killing reactive oxygen species 902
- Monooxygenase**  
liver polyribenosinic polyribocytidylc acid 630  
model binuclear copper complex 821
- Monophosphoglycerate**  
mutase *Neurospora* 558
- Morphine**  
cholecystokinin brain periaqueductal grey 538
- Mouse**  
casein gene sequence 1064  
cloning restriction mapping casein gene 624  
mycoplasma elimination infected hybridoma 398
- MPTP**  
analog amine oxidase plasma 335
- mRNA**  
antitrypsin monocyte tumor necrosis factor 1055  
deaminase porphobilinogen acute intermittent porphyria 799  
enkephalin brain 313  
estrogen cDNA human breast cancer 169  
parvalbumin brain localization 313  
phenylalanine hydroxylase liver diabetes 1057  
p9Ka gene rat mammary epithelium 1061  
retina oocyte photosensitivity Xenupus 299
- Mucin**  
gastric subunit size 585  
structure stomach 584
- Mucosa**  
stomach ion transport thiocyanate methylphenylmethoxyimidazopyridineacetonitrile 27
- Mucus**  
glycoprotein colon adenoma carcinoma 581
- Multicatalytic**  
high mol wt protease brain 852  
proteinase complex liver 629
- Muscle**  
adductor pollicis fatigue atracurium 336  
bone circulation ethanol 576  
calcium receptor review 520  
collagen growth hormone 177  
contraction regulation caldesmon 360  
ethanol toxicity review 250  
gastrocnemius conduction block frog 1020  
glucocorticoid adrenergic agonist 1073  
glycogen glucose phosphate cycling
- uremia 578  
glycogen hyperthyroidism starvation refeeding rat 554  
heart protein formation ethanol 783  
hypoxia creatine kinase ultrastructure calcium 1052  
ileum contraction sodium animal species 588  
insulin sensitivity glucocorticoid 174  
lysosomotropic agent 786  
myosin phosphorylation regulation contraction review 499  
protein ethanol 571  
relaxant adductor pollicis muscle fatigue 336  
sarcolemma acetylcholinesterase immunocytochem localization 770  
sarcoplasmic reticulum 380  
skeletal oxygen paradox 1050  
smooth blood vessel proteoglycan heparin 17  
smooth calcium channel review 492  
smooth myosin phosphorylation filament assembly 501  
smooth thin filament calcium review 494  
smooth thin filament regulation 355  
smooth vein lipoprotein receptor cAMP 1008  
vascular cardiac regulation 503  
vascular relaxation cGMP 497
- Mussel**  
benzopyrene metab microsome oxygen radical 779
- Mustela**  
Hb beta chain sequence 608
- Mutagen**  
aminoimidazoarene microsome activation inhibition methylxanthine 620
- Mutant**  
recombinant ferritin light chain liver 838
- Mutase**  
monophosphoglycerate *Neurospora* 558
- Mutation**  
dihydrofolate reductase mol recognition ligand 925  
site essential cysteine mercuric reductase 90
- Mycobacterium**  
stress protein immunity 721
- Mycoplasma**  
elimination infected hybridoma mouse 398
- Myelin**  
basic protein oligodendrocyte differentiation 900  
metalloproteinase demyelinating disease 469  
protein immunochem central nervous system 614
- Myelocyte**  
inositol phosphatase 557
- Myoinositol**  
diphosphate phosphorothioate 992
- Myopathy**  
ethanol antioxidant plasma 581
- Myosin**  
light chain kinase regulation review 499  
phosphorylation filament self assembly regulation 501
- Myristate**  
VSG glycolipid formation Trypanosoma 996
- Mytilus**  
microsome oxygen radical benzopyrene metab 779
- NAD**  
cofactor analog dehydrogenase binding 862  
isocitrate dehydrogenase *Methylophilus* 871

- metab ADP ribosylation inhibitor 869  
 metab calmodulin tegument tapeworm 868  
 NADP glucose dehydrogenase Thermoplasma 864  
**NADH**  
 site glycerol dehydrogenase Bacillus 976  
**NADP**  
 glutamate dehydrogenase Escherichia coli 876  
 glycerol dehydrogenase bicarbonate Aspergillus 976  
 NAD glucose dehydrogenase Thermoplasma 864  
 NADPH glucose phosphate dehydrogenase conformation 903  
**NADPH**  
 cytochrome reductase Escherichia coli 872  
 formation liver quinone 866  
 NADP glucose phosphate dehydrogenase conformation 903  
 oxidase flavoprotein inhibition diphenyleneiodonium 888  
**Naftifine**  
 Saccharomyces squalene membrane permeability 1044  
**NCAM**  
 glycoprotein sequence human 457  
**Near**  
 IR spectrometry brain oxygenation 980  
 IR spectrometry tissue oxygenation 978  
**NEM2**  
 cell receptor adrenergic purinergic 432  
**Neomycin**  
 Azotobacter flavodoxin electrochemistry graphite electrode 959  
 erythrocyte membrane potassium transport calcium 598  
**Neoplasm**  
 bladder diagnosis glucose phosphate dehydrogenase 555  
 mammary estrogen RNA ICI 164384 1063  
**Neoplastic**  
 transformation ras PGF2alpha inositol phosphate 990  
**Neostigmine**  
 glycopyrrolate atropine neuromuscular blockade atracurium 746  
**NEP2**  
 cell receptor adrenergic purinergic 432  
**Nerve**  
 ATPase transport diabetes mellitus 878  
 calcium receptor review 520  
 cell astrocyte development 295  
 injury actin substance P neuron 465  
 inositol metab mollusk 316  
 optic injury axon regeneration laminin 440  
 protein PGP95 conformation review 323  
 protein phosphorylation botulin A 885  
 sciatic conduction block frog 1020  
 terminal brain glutamate aspartate 879  
 terminal cholinergic adenosine ATP 442  
**Nervous**  
 system central myelin protein immunochem 614  
 system central protein kinase C 307  
 system protein kinase C review 460  
 system sympathetic cholesterol metab 201  
 system tocopherol deficiency 466  
**Neural**  
 proteinase demyelinating disease 469  
**Neurochem**  
 detn brain postmortem 472  
 periodical 599  
**Neurodegenerative**  
 disease postmortem brain analysis 472  
**Neurofilament**  
 antigen Alzheimer disease antibody 855  
**Neuroglia**  
 cyclic nucleotide phosphodiesterase formation 212  
**Neuromuscular**  
 blockade atracurium glycopyrrolate atropine neostigmine 746  
 junction laudanosine atracurium 336 transmission diaphragm tubocurarine 747  
**Neuron**  
 actin substance P nerve injury 465  
 cholinergic antigen Alzheimer disease 855  
 cholinergic astrocyte trophic factor 296  
 human protein PGP95 enolase cDNA 454  
**Neuroparalysis**  
 botulin A chain 886  
**Neuropeptidase**  
 drug release peptide prodrug 214  
**Neuropeptide**  
 degrdn leucine aminopeptidase brain 850  
**Neurospora**  
 monophosphoglycerate mutase 558  
**Neurotensin**  
 degrdn metalloendopeptidase brain 851  
**Neurotransmitter**  
 amino acid function aspartate 315  
 brain postmortem 472  
 brain synaptosome sepn centrifugation 309  
 calcium growth cone brain 444  
**Neurovegetative**  
 transmitter methylaminoethyl acetate adrenal 565  
**Neutropenia**  
 autoimmune neutrophil FcR 732  
**Neutrophil**  
 activation threshold calcium cytosol 37  
 degranulation response development 128  
 FcR autoimmune neutropenia 732  
 IgA receptor opsonization 731  
 inositol phosphate formation thrombin 280  
**Newborn**  
 betaine urine 788  
 filaggrin cell envelope skin 324  
 lithium osteoclast long bone development 826  
**Nicotinamide**  
 ADP ribosylation inhibition 869  
**Nicotinic**  
 acetylcholine receptor cDNA cloning locust 463  
**Nifedipine**  
 ethanol vas deferens 381  
**Nimodipine**  
 ethanol vas deferens 381  
**Nitrate**  
 reductase Rhodobacter periplasm 182  
**Nitrendipine**  
 ethanol vas deferens 381  
**Nitric**  
 oxide reductase Paracoccus review 187  
**Nitroprusside**  
 calcium inositol phosphate artery 486  
**Nitrosation**  
 peptide detn mass spectrometry 740  
**Nitrovasodilator**  
 cGMP review 490  
**NMR**  
 alanine racemase vinylglycine phosphonate analog 606  
 anion binding blood plasma 714  
 cytochrome c b5 interaction 844  
 erythrocyte peptide transport detn 635  
 lineshape analysis kidney rubidium 87 806  
 lithium biochem dysprosium shift reagent 207  
 lithium transport erythrocyte 827 phosphoglycerate kinase substrate binding site 724  
 phosphorus 31 Hb inositol hexaphosphate 839  
 rubidium transport detn kidney 596 spectrometry lipid membrane 1 spectrometry peptide induced ion transport 594  
**Nonenzymic**  
 glycated protein blood lens cataract 648  
**Nonidet**  
 P40 protein detn Bradford 382  
**Nonlysosomal**  
 high mol wt proteinase liver 629  
**Nonmuscle**  
 myosin phosphorylation filament assembly 501  
**Noradrenaline**  
 cAMP occipital cortex 311 phenylalanine hydroxylation EGF liver 897  
**nRNP**  
 antigen autoantibody detection immunoblotting 162  
**NSD**  
 1055 cell growth polyamine 211  
**Nuclease**  
 micrococcal active inactive gene nucleosome 1060  
**Nucleic**  
 acid sequence analysis education 764  
**Nucleoside**  
 diphosphatase detn calcium activation Golgi 561  
**Nucleosome**  
 active inactive gene micrococcal nuclelease 1060  
**Nucleotidase**  
 AMP adenosine vasodilation review 479 placenta trophoblast 1042  
**Nucleotide**  
 purine blood vessel review 480 pyridine quinone redox cycle liver 866  
**Nucleus**  
 ubiquitin protein detection antibody 1059  
**Nutrient**  
 insulin secretion intracellular pH 807 pancreas insulin GTP 809  
**Obesity**  
 brown adipose mitochondria biochem cold 1009 insulin lipogenesis genetics 1037  
**Occipital**  
 cortex noradrenaline cAMP 311  
**Oil**  
 hydrogenated platelet aggregation collagen 291  
**Oleate**  
 ATPase sarcoplasmic reticulum 347 platelet phosphoinositide metab 288  
**Oligodendrocyte**  
 differentiation culture cyclic nucleotide phosphohydrolase 900  
**Oligodeoxyribonucleotide**  
 immobilization DNA hybridization

- 216  
ion exchange HPLC 368
- Oligonucleotide  
immobilization cellulose 367
- Oligosaccharide  
dolichol linked brain Batten disease 1031  
mol recognition review 930
- Oncogene  
cerbB2 protein monoclonal antibody 675  
expression liver DMN 1058  
fos epithelial cell transformation 1019  
transfection thyroid cell 197
- Ontogeny  
reproductive tract epithelium reprogramming 810
- Oocyte  
photosensitivity retina mRNA Xenopus 299
- Opsonization  
IgA receptor neutrophil 731
- Optic  
nerve injury axon regeneration laminin 440
- Oral  
liposome insulin distribution 343
- Organ  
cytochrome oxidase IR spectrometry 978  
cytochrome P 450 642  
protein kinase C subspecies 307
- Origin  
replication interaction initiator protein tyrosine 758
- Ornithine  
decarboxylase brain cholinergic derivation 467  
decarboxylase epidermis psoriasis 329
- Osmolality  
potassium transport chondrocyte 637
- Osmotic  
force membrane fusion 882
- Osteoclast  
long bone development newborn lithium 826
- Osteoclastoma  
acid collagenase 1064  
tartrate resistant acid phosphatase 895
- Osteomyelitis  
Staphylococcus exotoxin enzyme 1000
- Ovalbumin  
signal peptide antibody 36
- Ovary  
aromatase inhibition ketoconazole 29  
follicle fluid inhibin 212
- Ovotransferrin  
interaction indium 833
- Oxidase  
amine plasma MPTP analog 335  
cytochrome IR spectrometry organ 978  
mixed function HEP G2 hepatoma 801  
monoamine active site photoaffinity label 214  
superoxide inhibition phagocyte diphenyleneiodonium 888  
xanthine tissue ischemia 358
- Oxidin  
beta enzyme formation peroxisome review 410  
beta fatty acid intermediate review 410  
beta fatty acid review 418  
enzymol 409  
fatty acid mitochondria defect review 424  
polyunsatd fatty acid mechanism review 420
- Oxoacyl  
acyl carrier protein reductase plant 392
- Oxygen  
paradox skeletal muscle 1050  
protonated intermediate monooxygenase model 821  
radical formation leukocyte penicillamine 891  
radical iron erythrocyte 292  
radical Mytilus microsome benzopyrene metab 779  
reactive species tumor killing monocyte 902  
Saccharomyces cytochrome P450 370  
uptake detn peroxide erythrocyte 284
- Oxygenation  
detn blood tissue spectrometry 978  
detn brain IR spectrometry 980
- OxyHb  
heme stability alkali 386
- Oxytocin  
steroidogenesis testis macaque 1004
- Pachysolen  
recycle xylose fermn ethanol 198
- Paecilomyces  
extracellular beta galactoside 183
- PAGE  
SDS protein wool 639
- Palmitoyltransferase  
carnitine I liver ethanol 649  
carnitine liver mitochondria membrane diabetes 1010
- Pancreas  
enlargement diet soybean protein 610  
glucagon secretion arginine 1017  
insulin adrenergic antagonist 1005  
insulin GTP nutrient 809
- Paracetamol  
toxicity hepatocyte methylprostaglandin E2 641
- Paracoccus  
nitric oxide reductase review 187
- Parasite  
mammal glycoconjugate review 257
- Parasympathetic  
dimethylaminoethyl acetate adrenal 565
- Parenchyma  
lung contraction inositol phosphate 35
- Parenteral  
amino acid heart protein formation 782
- Parietal  
cell stomach cAMP histamine 808
- Parotid  
proline rich protein processing 798
- Partition  
affinity protein computer simulation 542  
endoplasmic reticulum liver 34  
immunoaffinity erythrocyte 968
- Parvalbumin  
mRNA brain localization 313
- PCB  
linoleate desaturase liver species 1072
- Pea  
DNA methylase 757  
wheat chloroplast gene review 704
- PEG  
dextran phase microsome partition 34
- Penicillamine  
isomer leukocyte chemiluminescence 891
- Penicillin  
recognizing enzyme review 934
- Penicillium  
amyloytic enzyme fermn 181
- Pentagastrin  
pepsin gastric juice 26
- Pepsin  
detn semiautomated 26
- Peptidase  
DD structure kinetics review 934  
phaseolin digestion 612  
synapse membrane neurotensin degrdn 851
- Peptide  
antigen mitochondria mapping immuno blotting 151  
astrocyte receptor 429  
gold electrode cytochrome b5 electrochem 958  
induced ion transport NMR spectrometry 594  
nitrosation detn mass spectrometry 740  
prodrug neuropeptidase drug release 214  
signal ovalbumin antibody 36  
transport detn erythrocyte NMR 635
- Periaqueductal  
grey brain morphine cholecystokinin 538
- Periodical  
biochem neurochem 599
- Peripheral  
nervous tissue ATPase galactosemia diabetes 306
- Periplasm  
Rhodobacter nitrate trimethylamine oxide reductase 182
- Permeability  
membrane fenpropimorph fungicidal activity 350  
membrane lipid diversity review 912  
membrane squalene Saccharomyces naftifine 1044
- Peroxidase  
cytochrome c graphite electrode amnoglycoside 842  
cytochrome kinetics alc cold 846  
lignin Phanerochaete 369
- Peroxide  
erythrocyte oxygen uptake detn 284  
selective electrode cytochrome peroxidase amnoglycoside 842
- Peroxidin  
lipid iron kidney brush border 20
- Peroxisome  
beta oxidn enzyme formation review 410  
dicarboxylate metab 423  
polyunsatd fatty acid oxidn review 420
- Pertussis  
toxin acid secretion stomach 281
- PGE2  
synovial cell interleukin1 antirheumatic drug 892
- PGF2alpha  
inositol phosphate ras neoplastic transformation 990
- pH  
intracellular insulin secretion 807
- Phage  
P22 tailspike maturation folding aggregation 105
- Phagocyte  
chemiluminescence assay modulating factor 289  
diphenyleneiodonium superoxide oxidase inhibition 888
- Phagocytosis  
rod outer segment glycosaminoglycan 319
- Phanerochaete  
glucosidase lignin peroxidase 369
- Phase  
dextran PEG microsome partition 34  
transition phosphatidylcholine liposome 348

**Phaseolin**  
 digestion peptidase 612  
**PhD**  
 completion rate research student 117  
 supervision 117  
**Phenacetin**  
 aniline transacetylation blood 742  
**Phencyclidine**  
 analog potassium channel brain 200  
**Phenetidine**  
 acetylation blood 1071  
**Phenobarbital**  
 cytochrome P 450 induction 642  
**Phenoxybenzoate**  
 metab fish 24  
**Phenylalanine**  
 ammonia lyase calcium phytoalexin 1069  
 Capsicum culture capsaicin prodn 66  
 hydroxylase liver mRNA diabetes 1057  
 hydroxylation liver EGF insulin 897  
**Phenyldecanone**  
 metab species 25  
**Phenylephrine**  
 artery contraction calcium 493  
 seminal vesicle contraction clonidine potassium 1021  
**Phorbol**  
 ester polyphosphoinositide phosphodiesterase 994  
 ester protein kinase C glia 294  
 histamine cAMP parietal cell 808  
**Phosphatase**  
 acid tartrate resistant osteoclastoma 895  
 alk uterus pregnancy 848  
 inositol myelocyte 557  
 phosphoprotein calmodulin dependent detn fluorometry 297  
 phosphoprotein modulator antibody 720  
**Phosphate**  
 activation carbonic anhydrase III 853  
 compartmentation erythrocyte 781  
 dependence bioluminescence Streptococcus lux gene 1068  
 depletion kidney tubule resorption 785  
 metabolite skin 324  
 sodium cotransport proximal tubule 353  
 transporter mitochondria Saccharomyces 776  
**Phosphatidylcholine**  
 liposome phase transition 348  
**Phosphatidylinositol**  
 anchor membrane enzyme detergent solubilization 583  
**Phosphocellulose**  
 aldolase interaction model 543  
**Phosphodiesterase**  
 cCMP effector sensitivity liver 774  
 cyclic nucleotide formation brain neuroglia 212  
 dense vesicle activation protein kinase 1025  
 polyphosphoinositide animal cell PMA 994  
**Phosphoenolpyruvate**  
 carboxykinase hepatocyte gluconeogenesis propionate sheep 204  
**Phosphogluconate**  
 dehydrogenase interference hexokinase detn 867  
**Phosphoglycerate**  
 kinase substrate binding site NMR 724  
**Phosphohydrolase**  
 cyclic nucleotide oligodendrocyte differentiation culture 900  
 cyclic nucleotide sequence homolog mammal 304

**Phosphoinositide**  
 astrocyte peptide receptor 429  
 fibroblast growth factor hydrolysis 987  
 metab control messenger review 657  
 metab kidney brush border gentamicin 213  
 metab platelet oleate 288  
**Phospholipase**  
 A2 inhibition long chain alkylamine 816  
 VSG glycoprotein eukaryote review 271  
**Phospholipid**  
 branched chain liposome phase transition 348  
 formation channelling endoplasmic reticulum 1036  
 membrane ATPase oleate 347  
**Phosphonate**  
 analog bisadenosyl tetraphosphate interaction enzyme 713  
 substrate analog aspartate aminotransferase 611  
 vinylglycine analog alanine racemase inhibition 606  
**Phosphoprotein**  
 phosphatase calmodulin dependent detn fluorometry 297  
 phosphatase modulator antibody 720  
**Phosphorus**  
 31 NMR Hb inositol hexaphosphate 839  
**Phosphorylase**  
 glycogen brain hypoxia fish 621  
**Phosphorylation**  
 ATP synthase bifurcation hysteresis 645  
 myosin filament self assembly regulation 501  
 myosin regulation contraction muscle review 499  
 protein Golgi membrane mammary lactation 285  
 protein nerve botulin A 885  
 protein platelet secretion 804  
 thylakoid protein ATP fluorescence 46  
 tyrosine beryllium 1047  
**Phosphoserine**  
 localization casein sequence 745  
**Photoaffinity**  
 label monoamine oxidase active site 214  
 labeling ATPase potassium site stomach 823  
**Photoreceptor**  
 biochem electrophysiol hereditary rod dysplasia 1074  
**Photosensitivity**  
 oocyte retina mRNA Xenopus 299  
**Phys**  
 science biochem education 515  
 science education biochem example 508  
**Phytoalexin**  
 calcium phenylalanine ammonia lyase 1069  
 sesquiterpene elicitor Solanaceae 71  
**Picrate**  
 alk creatinine glucose spectra 394  
 alk glucose creatinine 395  
 alk glucose spectra 393  
**Pigeon**  
 erythrocyte taurine transport stoichiometry 555  
**Pilosebaceous**  
 duct keratin formation acne 330  
**Pisum**  
 DNA methylase 757  
**Pituitary**  
 calcium LHRH protein kinase 597  
 cell hormone receptor review 437  
 gland secretory vesicle purifn 51  
 gonadotropin LHRH androgen 170

**Placenta**  
 aromatase inhibition ketoconazole 29  
 immuno-suppressive factor horse 793  
 protein 14 immuno-suppression interferon 794  
 trophoblast nucleotidase 1042  
 uterus alk phosphatase 848  
**Plant**  
 cell culture product recovery review 67  
 ext amino acid decarboxylase detn 972  
 oxoacyl acyl carrier protein reductase 392  
**Plasma**  
 acyl carnitine detn 796  
 amine oxidase MPTP analog 335  
 antioxidant ethanol myopathy 581  
 antithrombin III Dublin 2 variant 374  
 enzyme protein immunoblotting review 140  
 fatty acid pyruvate dehydrogenase 553  
 insulin IGF1 tissue protein proteoglycan 624  
**Plasmid**  
 loss cell division 193  
 maintenance expression *Bacillus* 194  
 recombinant lab expt 763  
 stability gene expression *Bacillus* 192  
 transfection thyrocyte immortalization 197  
**Plastocyanin**  
 cytochrome c complex electrochem 957  
**Platelet**  
 aggregation collagen fatty acid isomer 291  
 aggregation factor anticholinergic drug 815  
 aggregation inhibitor liver cytosol 898  
 apolipoprotein E rich lipoprotein receptor 154  
 calcium low density lipoprotein 287  
 human aggregation inhibitor barley 19  
 phosphoinositide metab oleate 288  
 secretion protein kinase C activator 804  
**Plummer**  
 biog 601  
**PMA**  
 polyphosphoinositide phosphodiesterase animal cell 994  
**Poly**  
 ADP ribose formation inhibitor 869  
**Polyamine**  
 cell NSD 1055 211  
 intracellular messenger thyroid 397  
**Polyhydroxybutyrate**  
 polyhydroxyalkanoate formation enzyme *Alcaligenes* 1046  
**Polymerase**  
 DNA Klenow fragment replication fidelity 947  
**Polyol**  
 pathway diabetes mellitus complication 363  
**Polyphosphoinositide**  
 carbachol depolarization brain synaptosome 320  
 ornithine decarboxylase brain cholinergic denervation 467  
 phosphodiesterase animal cell PMA 994  
**Polyribocytidyllic**  
 polyriboinosinic acid liver monooxygenase 630  
 polyriboinosinic acid tissue cytochrome P450 631

- Polyriboinosinic  
polyribocytidyl acid liver monooxygenase 630  
polyribocytidyl acid tissue cytochrome P450 631
- Polystyrene**  
surface hydration cell adhesion 1029
- Polyunsatd**  
fatty acid blood platelet aggregation 385  
fatty acid oxidn mechanism review 420
- Porphobilinogen**  
deaminase dipyromethane cofactor active site 963  
deaminase formation aminolevulinate requirement 962  
deaminase mRNA acute intermittent porphyria 799
- Porphyria**  
acute intermittent porphobilinogen mRNA deaminase 799  
hepatoerythropoietic biochem pathophysiol 829
- Postgraduate**  
education biomedical science New Zealand 120  
education Europe 122  
education student view 125  
student career opportunity 128
- Potassium**  
artery contraction calcium 493  
channel brain phencyclidine analog 200  
channel regulation review 532  
seminal vesicle contraction phenylephrine clonidine 1021  
site ATPase photoaffinity labeling stomach 823  
transport chondrocyte osmolality 637  
transport erythrocyte membrane calcium neomycin 598
- Potential**  
oscillation salivary inositol phosphate Calliphora 988  
redox ferredoxin I Azotobacter 840
- Poxvirus**  
EGF skin tumor review 671
- Pptn**  
apoprotein factor III 570
- Prealbumin**  
interaction Remazol Yellow GGL anion 603
- Precursor**  
cathepsin L activation 1056
- Pregnancy**  
alk phosphatase uterus 848  
cholesterol acyltransferase mammary 1013  
immunosuppression placenta factor horse 793
- Pregnenolone**  
metab oxytocin testis macaque 1004  
metab testis macaque 1003
- Presequence**  
ATP synthase mitochondrial targeting 709
- Presynaptic**  
regulation glutamate release brain 881
- Primary**  
biliary cirrhosis antigen mitochondria 53
- Proacrosin**  
sperm carbohydrate binding 1035
- Procambarus**  
midgut gland glutathione cadmium 23
- Prochymosin**  
denaturation reversibility purifn 59  
recombinant purifn Escherichia 112
- Prodrug**  
peptide neuropeptidase drug release 214
- Progesterone**  
EGF receptor breast cancer 173  
receptor gene chicken 683
- Project**  
research student monitoring assessment 118
- Prolactin**  
G protein 887  
gene glucocorticoid response element 176  
growth hormone gene regulation rat 699
- Proline**  
rich protein processing parotid 798  
transport chondrocyte sodium 894
- Promyelocyte**  
iron transport transferrin endocytosis 618
- Propionate**  
gluconeogenesis hepatocyte sheep phosphoenolpyruvate carboxykinase 204
- Prostaglandin**  
protein kinase C hyperalgesia 818  
synthase short chain fatty acid 398
- Prostanoid**  
platelet calcium lipoprotein 287
- Prostate**  
binding protein gene androgen receptor 695  
growth regulation mitogen 389  
TRH processing hypothalamus 784
- Protease**  
high mol wt multicatalytic brain 852
- Protein**  
adhesive blotting analysis 144  
ADP ribosylation botulin 883  
affinity partition computer simulation 542  
antigen immunoelectroblotting mitochondria heart 53  
beer electrophoresis 167  
blotting receptor ligand interaction 138  
body formation glyoxysome review 706
- Borrelia antibody detection immunoblotting 161**
- brain reconstitution liposome extrusion 352**
- calcium binding p9Ka gene rat 1061**
- calcium binding rod outer segment 299**
- calcium binding thin filament 355**
- cell membrane ischemia 537**
- cerB2 oncogene monoclonal antibody 675**
- chloroplast processing assembly review 703**
- complex electrochem graphite electrode 957**
- conformation gamma turn review 50**
- crystall lattice contact 961**
- detc Bradford membrane detergent 382**
- detc turbidimetry detergent TCA 640**
- disulfide isomerase bacteria 57**
- disulfide isomerase lymphocyte maturation 56**
- disulfide isomerase mechanism function review 96**
- disulfide isomerase solubilization microsome 58**
- engineering purifn affinity chromatog 111**
- estradiol binding Candida 789**
- eukaryote expression solubilization refolding Escherichia 108**
- fatty acid binding purifn liver 719**
- fibroblast extracellular antiserum 375**
- FNR DNA binding specificity Escherichia 755**
- formation heart muscle ethanol 783**
- formation heart parenteral amino acid 782**
- formation initiation factor eIF2 Saccharomyces 45**
- G hormone receptor review 434 437**
- G prolactin growth hormone 887**
- gel isoelectric focusing blotting 154**
- glutamate binding sepn brain 446**
- hsp108 gene human 174**
- HSP90 interaction glucocorticoid receptor review 688**
- immunoblotting review 131**
- import endoplasmic reticulum review 708**
- inclusion body purifn bacteria 102**
- initiator REP D DNA tyrosine 758**
- interphotoreceptor retinoid binding apolipoprotein E 318**
- kinase activation dense vesicle phosphodiesterase 1025**
- kinase C activator platelet secretion 804**
- kinase C glia TPA 294**
- kinase C hyperalgesia prostaglandin 818**
- kinase C LHRH 597**
- kinase C nervous system review 460**
- kinase C subspecies organ 307**
- kinase cAMP activity ratio detn 355**
- kinase insulin receptor zinc 896**
- ligand mol recognition review 927**
- liver platelet aggregation inhibitor 898**
- lymphocyte activation assocd antigen 383**
- manuf yeast 1081**
- membrane anchor structure detergent solubilization 583**
- membrane eukaryote glycosylphosphatidylinositol review 271**
- membrane gene review chloroplast 704**
- milk electrophoresis 165**
- mitochondria antibody biliary cirrhosis 151**
- mitochondria liver affinity chromatog 602**
- muscle ethanol 571**
- myelin basic oligodendrocyte differentiation 900**
- myelin immunochem central nervous system 614**
- NMR membrane 1**
- nonenzymic glycated blood lens cataract 648**
- PGP95 conformation nerve review 323**
- PGP95 enolase cDNA human neuron 454**
- phosphorylation Golgi membrane mammary lactation 285**
- phosphorylation nerve botulin A 885**
- phosphorylation thylakoid ATP fluorescence 46**
- placenta 14 immunosuppression interleukin 2 794**
- plasma anion binding NMR 714**
- plasma immunoblotting review 140**
- proline rich processing parotid 798**
- proteoliposome sodium alanine transporter 344**
- p68 sequence lipocortin 813**
- recombinant secretion yeast review 1083**
- sequence analysis computer education 764**
- soybean diet intestine pancreas enlargement 610**
- staining antigen immunoblotting single gel 149**
- Staphylococcus endocarditis antibody 997**
- stress Mycobacterium immunity 721**
- targeting signal mitochondria 709**
- tissue plasma insulin IGF1 624**

- transport mitochondria review 701  
 tyrosine kinase affinity chromatog liver 780  
 ubiquitin detection antibody nucleus 1059  
 uncoupling mitochondria cold obesity 1009  
 VSG glycolipid anchor membrane 996  
 Wolfram formation brain neuroglia 212  
 wool SDS PAGE 639
- Proteinase**  
 cysteine active form detection cell 811  
 high mol wt nonlysosomal liver 629  
 neural demyelinating disease 469  
 serine lectin activity 1035
- Proteoglycan**  
 blood vessel smooth muscle heparin 17  
 detection enzyme Western blotting 159  
 hyaluronate binding fragment cartilage 188  
 tissue plasma insulin IGF1 624
- Proteolipid**  
 protein myelin immunochem analysis 614
- Proteoliposome**  
 protein sodium alanine transporter 344
- Proton**  
 sodium exchange adrenal chromaffin granule 595  
 transport Aspergillus 969
- Protooncogene**  
 prostate growth hormone 389
- Protoporphyrin**  
 iron heme HPLC 831
- Proximal**  
 tubule sodium phosphate cotransport 353
- Psoriasis**  
 hydroxyvitamin D3 epidermis keratin 331  
 ornithine decarboxylase epidermis 329
- Public**  
 sector viewpoint research 128
- Pullulanase**  
 core structure function Klebsiella 723  
 Klebsiella collagen like quaternary structure 722
- Pulmonary**  
 artery sarcoplasmic reticulum sarclemma sepn 356
- Pump**  
 calcium phosphoprotein Golgi mammary 285
- Purine**  
 nucleotide blood vessel review 480
- Purinergic**  
 receptor astrocyte cell 432
- Putamen**  
 enkephalin mRNA 313
- Pyrene**  
 fatty acid fluidity microsome 349
- Pyridine**  
 nucleotide quinone redox cycle liver 866
- Pyridinoline**  
 urine rheumatoid arthritis 817
- Pyridoxal**  
 phosphate blood platelet aggregation 385  
 phosphoadenine nucleotide glutamate dehydrogenase 861
- Pyrrolidinone**  
 gastrin peptide beta bend 175
- Pyruvate**  
 dehydrogenase fatty acid plasma 553  
 dehydrogenase heart aorta constrict<sup>tion</sup> 772
- dehydrogenase** lipoyl group desensitization ethylmaleimide 775  
 dehydrogenase liver starvation refeeding 773  
 dehydrogenase Saccharomyces 776  
 metab dexamethasone liver 1075
- Quaternary**  
 structure collagen like pullulanase Klebsiella 722
- Quinone**  
 redox cycle pyridine nucleotide liver 866
- Quisqualate**  
 glutamate receptor solubilization 314
- Rabbit**  
 beta casein gene 623  
 ileum contraction sodium 588  
 lipoprotein blood hypercholesterolemia diabetes atherosclerosis 200
- Racemase**  
 alanine inhibition vinylglycine phosphonate analog 606
- Radioligand**  
 binding assay inositol phosphate 991
- Rainbow**  
 trout phenyldecane metab 25
- Raman**  
 resonance glyceraldehyde phosphate dehydrogenase 49
- Rape**  
 oxoacyl acyl carrier protein reductase 392
- Ras**  
 neoplastic transformation PGF2alpha inositol phosphate 990
- Rat**  
 androgen receptor prostate protein gene 695  
 calcium binding protein p9Ka gene 1061  
 diaphragm twitch tetanic fatigue 382  
 glycogen muscle hyperthyroidism starvation refeeding 554  
 ileum contraction sodium 588  
 prolactin growth hormone gene regulation 699
- Reacetylation**  
 deacetylation arylamide blood 743
- Reactive**  
 oxygen species tumor killing monocyte 902
- Reactor**  
 enzyme biochem engineering education 516
- Receptor**  
 adrenergic desensitization lung 569  
 adrenergic internalization adenylate cyclase desensitization 308  
 androgen prostate binding protein gene 695  
 androgen regulation fibroblast skin 172  
 apolipoprotein E rich lipoprotein platelet 154  
 astrocyte cell adrenergic purinergic 432  
 atriopeptin heart sarcolemma 1022  
 benzodiazepine ganglion grasshopper 310  
 binding myoinositol diphosphate phosphorothioate 992  
 calcium LHRH protein kinase 597  
 calcium muscle nerve review 520  
 carcinoembryonic antigen endocytosis Kupffer cell 1027  
 complement C1q purifn monocyte 735  
 dihydropyridine calcium channel subunit deglycosylation 452  
 dopamine D2 purifn brain 450  
 EGF breast cancer hormone 173  
 estrogen gene cloning chicken monkey 388
- estrogen gene human** 388  
**Fc function** leukocyte lipocortin 1 730
- Fc monoclonal IgG Rh antigen** 733  
**Fc subtype IgG isotype binding** 725  
**GABA butylbicyclophosphorothionate** ganglion insect 475  
**glucocorticoid heat shock protein** review 688  
**glutamate solubilization methylaspartate quisqualate** 314  
**hormone activation** review 437  
**hormone G protein** review 434  
**IgA neutrophil opsonization** 731  
**IgG Fc subtype** monocyte 734  
**insulin autophosphorylation site** 1065  
**insulin chloroquine** liver 1040  
**insulin kinase zinc cadmium copper** 896  
**insulin tyrosine kinase regulation** liver 40  
**interleukin 2 placenta protein** 14 794  
**ligand interaction** protein blotting 138  
**lipoprotein detn** HepG2 cell 363  
**lipoprotein fibroblast vein cAMP** 1008  
**methylaspartate thienylcyclohexylpicolinic acid** brain 300  
**nicotinic acetylcholine cDNA cloning** locust 463  
**peptide astrocyte** 429  
**progesterone gene** chicken 683
- Recognition**  
 mol ligand dihydrofolate reductase mutation 925  
 mol model review 923  
 mol oligosaccharide review 930  
 mol protein ligand review 927
- Recombinant**  
 ferritin light chain mutant liver 838  
 plasmid lab expt 763  
 protein secretion yeast review 1083
- Recombination**  
 genetic mechanism resolvase 754  
 genetic resolvase DNA supercoiling 760  
 type I restriction enzyme review 942
- Redox**  
 mechanism thioredoxin glutaredoxin disulfide 95  
 potential ferredoxin I Azotobacter 840  
 state liver angiotensin 636
- Reductase**  
 biliverdin chloride substrate inhibition 403  
 dienoyl CoA review 420  
 dihydrofolate mutation mol recognition ligand 925  
 glutathione mechanism Escherichia 84  
 glutathione structure mechanism review 81  
 glyoxylate liver hyperoxaluria 2 626  
 GMP IMP dehydrogenase homolog Escherichia 858  
 mercuric essential cysteine site mutation 90  
 NADPH cytochrome Escherichia 872  
 nitrate trimethylamine oxide Rhodobacter periplasm 182  
 nitric oxide Paracoccus review 187  
 oxoacyl acyl carrier protein plant 392  
 ribonucleotide B1 sequence Escherichia 91  
 thioredoxin glutaredoxin redox mechanism 95
- Refeeding**  
 glucose starvation skin glycogen 332

- starvation liver pyruvate dehydrogenase 773
- Refolding eukaryote protein Escherichia 108
- Regeneration axon retina ganglion cell laminin 440
- Remazol Yellow GGL interaction prealbumin anion 603
- Replication DNA virus SV40 545 origin interaction initiator protein tyrosine 758 structure SV40 virus DNA 604
- Reproductive tract epithelium reprogramming gene expression 810
- Research public sector viewpoint 128 student project monitoring assessment 118 student supervision PhD completion rate 117
- Resolvase DNA mechanism substrate supercoiling 760 DNA mechanism transposon Tn3 754
- Resonance Raman glyceraldehyde phosphate dehydrogenase 49
- Resorption kidney tubule phosphate depletion 785
- Respiration heart isoprenaline calcium 591 tumor cell gossypol uncoupler 616
- Restriction enzyme type I evolution review 942 mapping cloning casein gene mouse 624 mapping expression casein gene rabbit 623
- Retina apolipoprotein E antibody plasma 318 atrophy cGMP taurine Tibetan terrier 317 calcium binding protein 299 cyclic nucleotide phosphohydrolase sequence 304 ganglion cell axon regeneration laminin 440 mRNA oocyte photosensitivity Xenopus 299 pigment epithelium phagocytosis glycosaminoglycan 319
- Retinoid binding protein interphotoreceptor apolipoprotein E 318 epidermis skin disease review 668
- Retrieval literature vol education 379
- Retroposon glyceraldehyde phosphate dehydrogenase gene Trypanosoma 1067
- Retrovirus oncogene mammary cell transformation 1019
- Reversed phase HPLC acyl carnitine 796
- Review acetaldehyde toxicity liver 241 acyl CoA flavoprotein dehydrogenase 416 adenosine vasodilation 479 alc aldehyde dehydrogenase isozyme 223 alc manuf 1079 alc metabolizing enzyme genetics 230 aldehyde alc dehydrogenase human genetics 227 antibody Fc region effector function 953 benzoate metab metabolite 1021 calcium channel smooth muscle 492 calcium homeostasis excitable cell 519 calcium mitochondria function 523 calcium receptor muscle nerve 520 catalase manganese oxide complex model 822 cGMP nitrovasodilator 490 chloramphenicol acetyltransferase active site 939 chloroplast gene transcription photoregulation 711 chloroplast membrane protein gene 704 chloroplast protein processing assembly 703 collagen gene structure 661 collagen structure assembly skin 663 congenital adrenal hyperplasia 691 dihydrofolate reductase mol recognition ligand 925 dihydrolipoamide dehydrogenase membrane transport function 87 EGF peptide structure activity 671 eicosanoid skin disease 680 endothelium derived relaxing factor 484 ethanol calcium channel 527 ethanol dependence glyceride liver 251 ethanol glucose metab 247 ethanol toxicity muscle 250 ethanol tryptophan metab 254 ethanol xenobiotic metab microsome 232 fatty acid beta oxidn 418 fatty acid beta oxidn intermediate 410 gap junction channel function 534 genetic engineering brewing yeast 1077 glucocorticoid receptor heat shock protein 688 glutathione reductase structure mechanism 81 glycoconjugate parasite mammal 257 glycosylphosphatidylinositol membrane anchor Trypanosoma 265 Hansenula heterologous gene expression 1081 harmaline cardiovascular sodium/calcium exchange 539 hormone receptor activation 437 hormone receptor G protein 434 keratinocyte proliferation differentiation 666 leprosy antigen immunoblotting 143 leukotriene cardiovascular system 482 lipid manuf yeast 1088 lipophosphoglycan function Leishmania 259 liposome erythrocyte drug carrier 917 liposome malaria sporozoite vaccine 921 liposome model membrane lipid diversity 912 liposome prepn property drug delivery 910 lysosome fluorescence disease diagnosis 11 mitochondria fatty acid oxidn defect 424 mol cloning eukaryote protein Escherichia 108 mol recognition model 923 mol recognition protein ligand 927 myosin light chain kinase regulation 499 nerve protein PGP95 conformation 323 nitric oxide reductase Paracoccus 187 NMR spectrometry lipid membrane 1 oligosaccharide mol recognition 930 penicillin recognizing enzyme 934 peroxisome beta oxidn enzyme formation 410 phosphoinositide metab control messenger 657 phospholipase VSG glycoprotein eukaryote 271 plasma enzyme protein immunoblotting 140 polyunsatd fatty acid oxidn mechanism 420 potassium channel regulation 532 product recovery plant cell culture 67 protein body glyoxysome formation 706 protein conformation gamma turn 50 protein disulfide isomerase mechanism function 96 protein immunoblotting 131 protein import endoplasmic reticulum 708 protein kinase C nervous system 460 protein transport mitochondria 701 purine nucleotide blood vessel 480 recombinant protein secretion yeast 1083 retinoid epidermis skin disease 668 ribonucleotide reductase large subunit Escherichia 91 skin immunoregulation cytokine 677 small nuclear ribonucleoprotein 943 sodium calcium exchange excitable cell 529 Tamm Horsfall glycoprotein kidney 547 terpene formation plant cell culture 61 thin filament calcium 494 thioredoxin glutaredoxin redox mechanism property 95 transferrin iron binding bicarbonate 825 Trypanosoma dolichol glycoprotein formation 268 type I restriction enzyme evolution 942 variant surface glycoprotein formation Trypanosoma 261 yeast cytochrome P 450 genotoxicity 1086
- Rh antigen monoclonal IgG Fc receptor 733 antigen monoclonal IgG leukocyte rosette 727
- Rheumatoid arthritis collagen hydroxypyridinium crosslink urine 817 synovial phospholipase A2 inhibition alkylamine 816
- Rhodobacter periplasm nitrate trimethylamine oxide reductase 182
- Rhodotorula mandelate dehydrogenase 865
- RIA erythropoietin submaxillary gland 564
- Ribonucleoprotein small nuclear review 943
- Ribonucleotide reductase B1 sequence Escherichia 91
- Ribosylation ADP inhibitor NAD metab 869 protein ADP botulin 883
- RNA estrogen ICI 164384 mammary neoplasm 1063

RNase  
lymphokine gene expression human 367

Ro  
15 1788 benzodiazepine receptor grasshopper 310

Rod  
dysplasia hereditary photoreceptor  
biochem electrophysiol 1074

outer segment calcium binding protein 299

outer segment phagocytosis glycosam= inoglycan 319

Rubidium  
transport detn kidney NMR 596

87 kidney NMR lineshape analysis 806

Saccharomyces  
allosuppressor gene SAL3 SAL4 30

citrate synthase cDNA cloning 718

cytochrome P450 oxygen 370

nafifine squalene membrane permeability 1044

protein formation initiation factor eIF2 45

pyruvate dehydrogenase mitochondria phosphate transporter 776

Salivary  
gland acetylcholine acidosis calcium 993

potential oscillation inositol phos= phate Calliphora 988

proline rich protein processing 798

Salmo  
phenyldodecane metab 25

Salmon  
Aeromonas exoprotein antibody 999

Sarcoidosis  
collagenase elastase bronchoalveolar fluid 390

Sarcolemma  
heart atriopeptin receptor 1022

muscle acetylcholinesterase immuno= cytochem localization 770

sarcoplasmic reticulum membrane prep 356

Sarcoplasmic  
reticulum ATPase inhibition mono= clonal antibody 967

reticulum ATPase monoclonal anti= body 771

reticulum ATPase oleate 347

reticulum calsequestrin muscle 380

reticulum muscle lysosome 786

reticulum sarcolemma membrane prep 356

Schistocerca  
lipogenesis carbonic anhydrase 973

Schistosoma  
carbohydrate antigen immunity 264

Sciatic  
nerve conduction block frog 1020

Science  
phys biochem education 515

phys education biochem example 508

SDS  
PAGE protein wool 639

solubilization protein mitochondria 53

Second  
messenger hormone receptor review 437

Secretion  
bicarbonate stomach thiocyanate methylphenylmethoxyimidazopyridineacetonitrile 27

Secretary  
protein protein disulfide isomerase review 96

vesicle purifn sucrose centrifugation 51

Semiautomated  
pepsin detn 26

Seminal  
vesicle contraction phenylephrine clonidine potassium 1021

vesicle epithelium reprogramming 810

Senescence  
collagen metab heart 749

cytochrome f chloroplast Festuca 1054

lipid aorta media distribution 164

Sepharose  
chromatog antibody purifn immunoblotting 134

oligonucleotide immobilization 216

Sequence  
analysis nucleic acid education 764

cyclic nucleotide phosphohydrolase homol mammal 304

Hb beta chain ferret 608

mapping human genome 766

mouse casein gene 1064

NCAM glycoprotein human 457

protein PGP95 human 454

protein p68 lipocortin 813

pullulanase Klebsiella 722 723

Serine  
carbon 13 enzymic prep 179

metab lymphocyte activation 622

proteinase lectin activity 1035

Serotonin  
secretion platelet protein phosphorylation 804

synaptosome sodium calcium 803

Sheep  
Catharanthus cell culture 65

Serum  
cell adhesion lipoprotein atherosclerosis 560

cholesterol copper deficiency lactose diet 54

Sesquiterpene  
phytoalexin elicitor Solanaceae 71

Sheep  
gluconeogenesis propionate hepatocyte phosphoenolpyruvate carbox= ykinase 204

hepatocyte fatty acid metab 203

Shift  
reagent dysprosium lithium NMR biochem 207

Short  
chain fatty acid prostaglandin syn= thase 398

Sialoglycoprotein  
release membrane vesicle tumor trypsin 189

Siderosome  
iron dextran processing liver 854

Signal  
peptide ovalbumin antibody 36

targeting protein mitochondria 709

Silver  
staining wool electrophoresis 639

Simian  
virus 40 chromosome sepn 546

virus 40 DNA replication 545

Simulation  
computer mol biol education 764

mol biol education 765

Skin  
cell envelope filaggrin newborn 324

collagen structure assembly review 663

disease retinoid review 668

eicosanoid review 680

fibroblast androgen receptor regulation 172

glycogen glucose refeeding starvation 332

immunoregulation cytokine review 677

phosphate metabolite 324

tumor poxvirus EGF review 671

Sm  
antigen autoantibody detection immunoblotting 162

Small  
nuclear ribonucleoprotein review 943

Smoke  
tobacco fibronectin bronchoalveolar fluid 378

Smooth  
muscle blood vessel proteoglycan heparin 17

muscle calcium channel review 492

muscle myosin phosphorylation filament assembly 501

muscle thin filament calcium review 494

muscle thin filament regulation 355

muscle vein lipoprotein receptor cAMP 1008

Sodium  
alanine transporter protein proteoli= posome 344

calcium exchange cardiovascular harmaline review 539

calcium exchange excitable cell review 529

calcium exchange intestine contraction 589

efflux liposome alamethicin hemolysin melittin 594

hydroxytryptamine synaptosome calcium 803

ileum muscle contraction animal species 588

phosphate cotransport proximal tu= bule 353

proline transport chondrocyte 894

proton exchange adrenal chromaffin granule 595

uridine transport kidney brush border 768

Solanaceae  
sesquiterpene phytoalexin elicitor 71

Solubilization  
glutamate binding protein 446

glutamate receptor methylaspartate quisqualate 314

protein mitochondria SDS 53

Soly  
substrate lipoxygenase product inactivation 38

Somatotrophin  
gene glucocorticoid response element 176

Somatostatin  
somatotropin secretion G protein 887

Somatotropin  
fatty acid metab liver 1002

prolactin gene regulation rat 699

secretion G protein somatostatin 887

Sorbitol  
dehydrogenase erythrocyte diabetes mellitus 363

Southern  
blotting DNA detection probe 139

Soybean  
protein diet intestine pancreas enlargement 610

Species  
PCB linoleate desaturase liver 1072

Spectra  
creatinine glucose alk picrate 394

glucose alk picrate 393

Spectrometry  
IR brain oxygenation detn 980

mass peptide nitrosation detn 740

NMR lipid membrane 1

NMR peptide induced ion transport 594

oxygenation detn blood tissue 978

Spectrophotometry  
bilirubin alk soln 550

creatinine detn 549 551

protein detn detergent 382

- Spectroscopy**  
 atomic absorption lithium transport erythrocyte 827  
 mass electron capture steroid detn 737
- Sperm**  
 acosome hyaluronidase staining 643  
 proacrosin carbohydrate binding 1035
- Spleen**  
 cholesterol reverse transport 282  
 prostaglandin synthase inhibition 398
- Sporozoite**  
 malaria vaccine liposome review 921
- Squalene**  
 membrane permeability Saccharomyces naftifine 1044
- SRI**  
 62 834 calcium leukemia cell 278
- Stable**  
 isotope ketone body turnover 736
- Staining**  
 antigen protein immunoblotting single gel 149  
 hyaluronidase sperm acosome 643  
 wool silver electrophoresis 639
- Staphylococcus**  
 exotoxin enzyme osteomyelitis 1000  
 protein endocarditis antibody 997
- Starvation**  
 glucose refeeding liver glycogen 579  
 glucose refeeding skin glycogen 332  
 insulin carnitine metab liver 1014  
 insulin processing liver 1041  
 pyruvate dehydrogenase fatty acid 553  
 refeeding glycogen muscle hyperthyroidism rat 554  
 refeeding liver pyruvate dehydrogenase 773
- Stearate**  
 interface crystn mineralization stereochemistry 824  
 platelet phosphoinositide metab 288
- Stereochem**  
 mineralization stearate interface crystn 824
- Steroid**  
 dehydrogenase hydroxy liver microsome bird 22  
 detn electron capture mass spectrometry 737  
 uterus alk phosphatase 848
- Steroidogenesis**  
 adrenal adrenaline angiotensin 983  
 testis oxytocin macaque 1004
- Stoichiometry**  
 taurine transport erythrocyte pigeon 555
- Stomach**  
 acid secretion indolepropionylleucylasparylphenethylamide 628  
 acid secretion pertussis toxin 281
- ATPase inhibition thiocyanate**  
 methylphenylmethoxyimidazopyridineacetonitrile 27
- ATPase potassium site photoaffinity labeling** 823  
 mucin structure 584  
 mucin subunit size 585  
 parietal cell cAMP histamine 808
- Streptococcus**  
 bioluminescence phosphate dependence lux gene 1068
- Streptomyces**  
 alpha glucosidase maltase sepn specificity 180
- Stress**  
 protein Mycobacterium immunity 721
- Structure**  
 activity EGF peptide review 671  
 adenosine kinase inhibitor cytotoxicity 756
- analysis protein immunoblotting review 140  
 lipid membrane NMR 1  
 three dimension interleukin 1 beta 949
- Student**  
 postgraduate career opportunity 128  
 research project monitoring assessment 118  
 research supervision PhD completion rate 117  
 view postgraduate education 125
- Submaxillary gland** erythropoietin RIA 564
- Substance**  
 P actin neuron nerve injury 465
- Substrate**  
 inhibition biliverdin reductase chloride 403
- Subunit**  
 alpha2 calcium channel carbohydrate 452  
 gastric mucin size 585  
 high mol wt proteinase liver 629
- Succinate**  
 thiokinase metabolic role 795
- Sucrose**  
 centrifugation secretory vesicle purin 51
- Sulfamethazine**  
 acetylation blood erythrocyte health diabetes 786
- Sulfur**  
 amino acid aspartate uptake brain 302
- Supercoiling**  
 DNA transposon Tn21 resolvase mechanism 760
- Superoxide**  
 dismutation heparin 1030  
 oxidase inhibition phagocyte diphenyleneiodonium 888
- Supervision**  
 research student PhD completion rate 117
- Surface**  
 polystyrene hydration cell adhesion 1029
- Surfactant**  
 apolipoprotein lung metab 276
- SV40**  
 virus DNA replication 545  
 virus DNA replication structure 604
- Sympathetic nervous system** cholesterol metab 201
- Synapse**  
 acetylcholine brain adenosine ATP 442  
 membrane peptidase neurotensin degrdn 851
- Synaptic membrane** bound glutamate decarboxylase 321
- Synapsosome**  
 angiotensin converting enzyme brain 191  
 brain depolarization carbachol polyphosphoinositide 320  
 brain sepn centrifugation neurotransmitter 309  
 glutamate calcium brain 879  
 glutamate calcium ischemia anoxia hypoglycemia 880  
 hydroxytryptamine sodium calcium 803
- Synovial cell** glycolysis lymphokine cytokine 889
- cell** interleukin1 antirheumatic drug 892
- fluid** cathepsin B L arthritis 812  
 rheumatoid phospholipase A2 inhibition alkylamine 816
- Synovium**  
 arachidonate interleukin 1 286
- Synthase**  
 aminolevulinic acid liver antidepressant 847  
 ATP phosphorylation bifurcation hysteresis 645  
 ATP presequence mitochondrial targeting 709  
 citrate cDNA yeast cloning Escherichia 718  
 fatty acid component plant 392  
 fatty acid liver ethanol 580  
 hydroxymethylglutarylCoA glucagon mannoheptulose liver 633  
 prostaglandin short chain fatty acid 398  
 uroporphyrinogen III Escherichia 965
- Synthetase**  
 glutamine expression liver region 572  
 Hc toxin Helminthosporium 401  
 Helminthosporium aminoepoxyoxide canoate formation 402
- T**  
 lymphocyte helper DNA autoantibody 148  
 lymphocyte stimulation dipeptidyl aminopeptidase IV 365
- Tailspike**  
 maturation folding aggregation phage P22 105
- Tamm**  
 Horsfall glycoprotein kidney review 547
- Tapeworm**  
 NAD metab tegument calmodulin 868
- Targeting**  
 signal protein mitochondria 709
- Tartrate**  
 resistant acid phosphatase osteoclastoma 895
- Taurine**  
 retina atrophy Tibetan terrier 317  
 transport stoichiometry erythrocyte pigeon 555
- TCA**  
 protein detn turbidimetry 640
- Tegument**  
 NAD metab calmodulin tapeworm 868
- Terpene**  
 formation plant cell culture review 61
- Terrier**  
 Tibetan retina atrophy cGMP taurine 317
- Testis**  
 pregnenolone metab macaque 1003  
 steroidogenesis oxytocin macaque 1004
- Testosterone**  
 metab liver development bird 22  
 metab oxytocin testis macaque 1004  
 metab testis macaque 1003  
 prostate growth 389
- Tetanic**  
 twitch fatigue rat diaphragm 382
- Tetraphosphatase**  
 bisadenosyl interaction substrate analog 713
- Tetrazolium**  
 salt aldolase detection electrophoresis 750  
 salt aldolase detn 753
- Theazolecarboxamide**  
 adenine dinucleotide dehydrogenase binding 862
- Therapeutic**  
 application membrane model liposome 909
- Thermoplasma**  
 glucose dehydrogenase 864

Thienylcyclohexylpiperidine  
methylaspartate receptor brain 300

Thin  
filament calcium binding protein 355  
filament calcium review 494

Thioamide  
leucine inhibition leucine aminopeptidase 185

Thiobenzamide  
hepatotoxicity monooxygenase polyribosinic polyribocytidylic acid 630

Thiocyanate  
inhibition ATPase stomach 27

Thiokinase  
succinate metabolic role 795

Thioredoxin  
homol protein disulfide isomerase review 96  
redox mechanism property review 95

Thrombin  
neutrophil inositol phosphate formation 280

Thromboplastin  
apoprotein purified brain 570

Thylakoid  
protein phosphorylation fluorescence ATP 46

Thymidine  
kinase leakage cell proliferation 55

Thyrocyte  
immortalization transfection plasmid 197

Thyroglobulin  
autoantibody clonality autoimmune thyroiditis 728 729

Thyroid  
cell line TSH autoantibody 196  
cell oncogene transfection 197  
hormone genetic diabetes 31  
polyamine intracellular messenger 397

Thyroiditis  
autoimmune thyroglobulin autoantibody clonality 728 729

Tibetan  
terrier retina atrophy cGMP taurine 317

Tissue  
connective atherosclerotic plaque cap 1032

cytochrome P450 polyribosinic polyribocytidylic acid 631

mineralization membrane recognition 824

oxygenation detn spectrometry 978

protein proteoglycan plasma insulin IGF1 624

xanthine dehydrogenase oxidase ischemia 358

Tobacco  
smoke fibronectin bronchoalveolar fluid 378

Tocopherol  
deficiency nervous system 466

Toxicity  
paracetamol hepatocyte methylprostaglandin E2 641

Toxin  
botulin A neurotransmission 886  
cholera diacylglycerol insulin fibroblast 283

epidermolytic binding epidermis 334

pertussis acid secretion stomach 281

TPA  
protein kinase C glia 294

Transacetylation  
arylamine blood 742

Transamination  
amino acid metab history 600

Transcarbamoylase  
aspartate essential tyrosine wheat germ 615

Transcription  
chloroplast gene photoregulation review 711  
class I antigen gene transformation 605

Transfection  
plasmid thyrocyte immortalization 197

Transferase  
ADP ribose tegument tapeworm 868  
glutathione midgut gland Procambanus cadmium 23  
glutathione subunit brain 386

Transferrin  
endocytosis iron transport hepatocyte 618  
interaction indium 833  
iron binding bicarbonate review 825  
iron uptake hepatocyte ethanol 575  
variant amino acid replacement 834

Transformation  
cell electroporation electroinjection 1018  
epithelium cell oncogene fos 1019  
genetic cell selection 1018  
neoplastic ras PGF2alpha inositol phosphate 990  
transcription class I antigen gene 605

Transforming  
growth factor prostate 389

Transition  
metal ion carboxylate complex deprotonation 406

Translocation  
dipeptide lysosome membrane mechanism 42

Transmitter  
neurovegetative methylaminoethyl acetate adrenal 565

Transport  
amino acid erythrocyte harmaline 567  
ammonium proton Aspergillus 969  
calcium salivary inositol phosphate fly 988  
calcium smooth muscle review 492  
ion stomach mucosa thiocyanate methylphenylmethoxyimidazopyridineacetonitrile 27  
iron hepatocyte transferrin endocytosis 618  
iron intestine brush border 832  
lithium erythrocyte 205  
lithium liposome NMR 207  
lithium liver 208  
membrane dihydrolipoamide dehydrogenase function review 87  
peptide detn erythrocyte NMR 635  
potassium chondrocyte 637  
potassium erythrocyte membrane calcium neomycin 598  
proline chondrocyte sodium 894  
protein mitochondria review 701  
reverse cholesterol spleen 282  
rubidium detn kidney NMR 596  
taurine stoichiometry erythrocyte pigeon 555  
uridine kidney cortex membrane 768

Transposon  
Tn21 resolvase mechanism DNA supercoiling 760  
Tn3 DNA resolvase mechanism 754

TRH  
processing hypothalamus prostate 784

Trifluoperazine  
calpain II 1043  
NAD metab tegument tapeworm 868

Triiodothyronine  
fatty acid metab liver 1002  
glucagon lipogenic enzyme liver 33

Trimethylamine  
oxide reductase Rhodobacter periplasm 182

Trophic  
factor astrocyte cholinergic neuron 296

Trophoblast  
nucleotidase 1042

Trout  
brown Aeromonas exoprotein anti-body 999

Trypanosoma  
dolichol glycoprotein formation review 268  
glycoprotein review 257  
glycosylphosphatidylinositol membrane anchor review 265  
lectin interaction 586  
retroposon glyceraldehyde phosphate dehydrogenase gene 1067  
variant surface glycoprotein formation review 261  
variant surface glycoprotein glycolipid formation 996

Trypsin  
inhibitor trypsinogen dihydroxy bile salt 168  
sialoglycoprotein release membrane vesicle tumor 189

Trypsinogen  
activation immunoassay calcium 337  
dihydroxy bile salt trypsin inhibitor 168

Tryptophan  
metab ethanol review 254

TSH  
thyroid cell line 196  
thyroid polyamine 397

Tubocurarine  
neuromuscular transmission diaphragm 747

Tumor  
breast glycoprotein hormone 1026  
cell brain monoclonal antibody 373  
cell respiration uncoupler gossypol 616  
colon growth inhibition interferon 1049  
guanidinobenzoate inhibitor 556  
killing monocyte reactive oxygen species 902  
membrane vesicle sialoglycoprotein release trypsin 189  
necrosis factor antitrypsin mRNA monocyte 1055  
skin poxvirus EGF review 671

Turbidimetry  
protein detn detergent TCA 640

Twitch  
tetanic fatigue rat diaphragm 382

Type  
I restriction enzyme evolution review 942

Tyrosine  
essential aspartate transcarbamoylase wheat germ 615  
glutathione reductase mechanism Escherichia 84  
initiator protein REP D DNA 758  
kinase insulin receptor regulation liver 40  
phosphorylation beryllium 1047  
protein kinase affinity chromatography liver 780

Ubiquitin  
protein detection antibody nucleus 1059

UDP  
glucuronosyltransferase isoenzyme gene human liver 157  
glucuronosyltransferase liver hypothyroidism substrate 802

Uncoupling  
protein mitochondria cold obesity 1009

Undergraduate  
curriculum biochem education 513

- Uptake**  
di peptide lysosome mechanism 42  
iron carrier size brush border 832
- Urea**  
protein detn Bradford 382
- Uremia**  
muscle glycogen glucose phosphate cycling 578
- Uridine**  
transport kidney cortex membrane 768
- Urine**  
acyl carnitine detn 796  
betaine newborn development 788  
collagen hydroxypyridinium crosslink rheumatoid arthritis 817  
dicarboxylic aciduria glucuronide ester 744  
glucose phosphate dehydrogenase detn neoplasm 555  
glycated aspartate lysine 29  
uteroglobin like protein kidney failure 970
- Uroporphyrinogen**  
III synthase Escherichia 965
- Uteroglobin**  
like protein urine kidney failure 970
- Uterus**  
alk phosphatase pregnancy 848
- UV**  
irradn neg selection CHO cell 1018
- Vaccine**  
malaria sporozoite liposome review 921
- Vacuole**  
ajmalicine compartmentation Catharanthus 63
- Valine**  
Capsicum culture capsaicin prodn 66
- Variant**  
surface glycoprotein formation Trypanosoma review 261  
surface glycoprotein glycolipid formation Trypanosoma 996  
surface glycoprotein membrane anchor review 265
- Vas**  
deferens ethanol calcium channel blocker 381
- Vascular**  
cardiac muscle regulation 503  
endothelium acetylcholine inositol diacylglycerol 488  
muscle relaxation cGMP 497
- Vasoconstriction**  
leukotriene heart 361
- Vasodilation**  
adenosine review 479
- Vasopressin**  
hepatocyte inositol phosphate 991  
inositol tetrakisphosphate 984  
pyruvate metab liver 1075
- Vein**  
smooth muscle lipoprotein receptor cAMP 1008
- Vesicle**  
secretory purfn sucrose centrifugation 51  
seminal contraction phenylephrine clonidine potassium 1021
- Vibrio**  
hemolysin gene 638  
lux gene cloning Lactobacillus Strep-tococcus 1068
- Vinylglycine**  
phosphonate analog alanine racemase inhibition 606
- Virus**  
adeno transformation antigen gene transcription 605  
chromosome sepn 546  
SV40 DNA replication 545  
SV40 DNA replication structure 604
- Vitamin**  
A epidermis keratin 327
- Vol**  
literature retrieval education 379
- Water**  
heptane interface Chromobacter lipase adsorption 273
- Weaning**  
liver dehydrogenase 899
- Western**  
blotting proteoglycan detection 159
- Wheat**  
germ aspartate transcarbamoylase essential tyrosine 615  
gluten alpha gliadin isolect focusing 748  
pea chloroplast gene review 704
- Wolfgram**  
protein formation brain neuroglia 212
- Wool**  
electrophoresis silver staining 639
- Wound**  
healing collagen lattice fibroblast 328
- W13**  
calpain II 1043
- W7**  
calpain II 1043
- Xanthine**  
dehydrogenase oxidase tissue ischemia 358
- Xenobiotic**  
metab microsome review 232
- Xenopus**  
oocyte photosensitivity retina mRNA 299
- Xylose**  
fermn ethanol Pachysolen Candida recycle 198
- Yeast**  
citrate synthase cDNA cloning Escherichia 718  
cytochrome P 450 genotoxicity review 1086  
lipid manuf review 1088  
protein formation initiation factor eIF2 45  
protein manuf 1081  
recombinant protein secretion review 1083
- Zinc**  
apoglycerol dehydrogenase reactivation Bacillus 975  
insulin receptor protein kinase 896