

A
 Aili, D. 532
 Alipour, A. 466
 Alvarez, E. 555
 Amour, A. 555
 Andrén, P.E. 588
 Armah, C.K. 451
 Attard, G.S. 498
 Austen, B.M. 577
 Avella, M. 440, 464
 Aylott, J.W. 538

B
 Baciu, M. 498
 Ball, G.D.C. 484
 Baltzer, L. 532
 Bannwarth, L. 551
 Bass, R. 583
 Beaulieu, C. 484
 Bejta, F. 454, 464
 Bentley, C. 464
 Bickerton, A.S. 472
 Bode, J. 612
 Botham, K.M. 437, 440, 454, 464
 Bravo, E. 459
 Brinkworth, M. 605

C
 Cabello-Moruno, R. 446, 470
 Carreau, S. 634
 Castro Cabezas, M. 466
 Ces, O. 498
 Cisneros, D.A. 522
 Clarke, J.A. 498
 Coupland, P. 538
 Crowell, R.C. 629
 Curry, S. 594
 Cuzin, F. 623

D
 De Pascale, C. 454, 464
 Deville, K. 561
 Dingwall, C. 571
 Doggett, N. 612

E
 Ellis, V. 583
 Elte, J.W.F. 466
 Enander, K. 532

F
 Fälth, M. 588
 Farrant, J.K. 577
 Fielding, B.A. 472
 Frayn, K.N. 472

G
 Galeraud-Denis, I. 634

Gee, A. 498
 Gluch, A. 612
 Gold, N.D. 561
 Górná, M. 502
 Gough, J.E. 535
 Gounon, P. 623
 Grandjean, V. 623
 Gray, K. 583

H
 Hodson, L. 472
 Holt, S.A. 522
 Houghton, F.D. 538
 Howdle, S.M. 516
 Hunt, A.N. 498
 Huskens, J. 492
 Hutchinson, J. 555
 Hutchinson, K.W. 618

I
 Illes, D. 605

J
 Jackowski, S. 498
 Jackson, K.G. 451
 Jackson, R.M. 561
 Jayawarna, V. 535
 Jetha, M.M. 484

K
 Karpe, F. 472
 Kerfeld, C.A. 508
 Kiessling, A.A. 629
 Knowles, B.B. 618
 Krawetz, S.A. 612

L
 Laisné, A. 495
 Lakey, J.H. 522
 Lambard, S. 634
 Law, R.V. 498
 Lawson, C. 464
 Leatherbarrow, R.J. 594
 Le Brun, A.P. 522
 Leese, H.J. 538
 Liedberg, B. 532
 Linnemann, A.K. 612
 Lopez-Soldado, I. 440
 Ludden, M.J.W. 492
 Luisi, B.F. 502

M
 Malthouse, J.P.G. 566
 Mangat, R. 477
 Martin, J. 555
 Martin, S.L. 559

Miller, D. 605
 Minihane, A.M. 451
 Moffitt, K.L. 559
 Mooney, C. 555
 Moore, E.H. 454
 Mulet, X. 498

N
 Naik, R.R. 512
 Napolitano, M. 459
 Nicholson, R.L. 502
 Nilsson, A. 588
 Nzekwu, M.M.U. 484

O
 O'Neill, C. 574
 Owen, K. 583

P
 Parker, C.A. 498
 Parsons, R.B. 577
 Peaston, A.E. 618
 Pei, X.Y. 502
 Perona, J.S. 446, 470
 Phillips, S. 522
 Platts, A.E. 612
 Plisson, C. 498
 Pompon, D. 495
 Popov, V.K. 516
 Price, G.C. 577
 Proctor, S.D. 477, 484

Q
 Qiu, D. 583

R
 Rassoulzadegan, M. 623
 Ratcliffe, S. 555
 Reboud-Ravaux, M. 551
 Rietveld, A.P. 466
 Roqué-Rosell, N. 594
 Ruiz Avendaño, A.M. 555
 Ruiz-Gutiérrez, V. 446, 470
 Russell, J.C. 477
 Ryadnov, M.G. 487

S
 Saad, A. 634
 Said, L. 634
 Sawaya, M.R. 508
 Schumann, G.G. 637
 Scott, P.G. 477
 Sebai, S.C. 498
 Senger, S. 555
 Shah, D.S. 522
 Shakesheff, K.M. 516

Shaman, J.A. 626
 Shearman, G.C. 498
 Shojaee-Moradie, F. 482
 Sköld, K. 588
 Slocik, J.M. 512
 Smith, A. 535
 Southan, C. 599
 Spring, D.R. 502
 Stevens, M.M. 544
 Stockley, J.H. 574
 Stolinski, M. 482
 Stone, M.O. 512
 Su, J. 477
 Subramaniam, D. 577
 Sun, F. 482
 Svenningsson, P. 588
 Svensson, M. 588
 Swain, R.J. 544
 Sweeney, T.R. 594

T
 Tai, H. 516
 Tan, G.D. 472
 Tanaka, S. 508
 Templer, R.H. 498
 Tetley, T.D. 527
 Thomas, M.B. 522
 Tomczak, M.M. 512
 Toomey, J.R. 555
 Tsai, Y. 508

U
 Ulijn, R.V. 535
 Umpleby, A.M. 482

V
 van Zaanen, H.C.T. 466
 Vine, D.F. 477

W
 Walker, B. 559
 Ward, W.S. 626
 Webster, A. 538
 Wheeler-Jones, C.P.D. 437, 442, 464
 Wolfendale, M. 555
 Worrall, J.A.R. 502

Y
 Yamauchi, Y. 626
 Yeates, T.O. 508

Z
 Zalenskaya, I. 609
 Zalensky, A. 609
 Zunszain, P.A. 594

- Aili, D. 532
 Alipour, A. 466
 Alvarez, E. 555
 Amour, A. 555
 Andrén, P.E. 588
 Armah, C.K. 451
 Attard, G.S. 498
 Austen, B.M. 577
 Avella, M. 440, 464
 Aylott, J.W. 538
- Baciu, M. 498
 Ball, G.D.C. 484
 Baltzer, L. 532
 Bannwarth, L. 551
 Bass, R. 583
 Beaulieu, C. 484
 Bejta, F. 454, 464
 Bentley, C. 464
 Bickerton, A.S. 472
 Bode, J. 612
 Botham, K.M. 437, 440, 454, 464
 Bravo, E. 459
 Brinkworth, M. 605
- Cabello-Moruno, R. 446, 470
 Carreau, S. 634
 Castro Cabezas, M. 466
 Ces, O. 498
 Cisneros, D.A. 522
 Clarke, J.A. 498
 Coupland, P. 538
 Crowell, R.C. 629
 Curry, S. 594
 Cuzin, F. 623
- De Pascale, C. 454, 464
 Deville, K. 561
 Dingwall, C. 571
 Doggett, N. 612
- Ellis, V. 583
 Elte, J.W.F. 466
 Enander, K. 532
- Fälth, M. 588
 Farrant, J.K. 577
 Fielding, B.A. 472
 Frayn, K.N. 472
- Galeraud-Denis, I. 634
 Gee, A. 498
 Gluch, A. 612
 Gold, N.D. 561
 Górná, M. 502
 Gough, J.E. 535
 Gounon, P. 623
 Grandjean, V. 623
 Gray, K. 583
- Hodson, L. 472
 Holt, S.A. 522
 Houghton, F.D. 538
 Howdle, S.M. 516
 Hunt, A.N. 498
 Huskens, J. 492
 Hutchinson, J. 555
- Hutchison, K.W. 618
 Iles, D. 605
- Jackowski, S. 498
 Jackson, K.G. 451
 Jackson, R.M. 561
 Jayawarna, V. 535
 Jetha, M.M. 484
- Karpe, F. 472
 Kerfeld, C.A. 508
 Kiessling, A.A. 629
 Knowles, B.B. 618
 Krawetz, S.A. 612
- Laisné, A. 495
 Lakey, J.H. 522
 Lambard, S. 634
 Law, R.V. 498
 Lawson, C. 464
 Leatherbarrow, R.J. 594
 Le Brun, A.P. 522
 Leese, H.J. 538
 Liedberg, B. 532
 Linnemann, A.K. 612
 Lopez-Soldado, I. 440
 Ludden, M.J.W. 492
 Luisi, B.F. 502
- Malthouse, J.P.G. 566
 Mangat, R. 477
 Martin, J. 555
 Martin, S.L. 559
 Miller, D. 605
 Minihane, A.M. 451
 Moffitt, K.L. 559
 Mooney, C. 555
 Moore, E.H. 454
 Mulet, X. 498
- Naik, R.R. 512
 Napolitano, M. 459
 Nicholson, R.L. 502
 Nilsson, A. 588
 Nzekwu, M.M.U. 484
- O'Neill, C. 574
 Owen, K. 583
- Parker, C.A. 498
 Parsons, R.B. 577
 Peaston, A.E. 618
 Pei, X.Y. 502
 Perona, J.S. 446, 470
 Phillips, S. 522
 Platts, A.E. 612
 Plisson, C. 498
 Pompon, D. 495
 Popov, V.K. 516
 Price, G.C. 577
 Proctor, S.D. 477, 484
- Qiu, D. 583
- Rassoulzadegan, M. 623
- Ratcliffe, S. 555
 Reboud-Ravaux, M. 551
 Rietveld, A.P. 466
 Roqué-Rosell, N. 594
 Ruiz Avendaño, A.M. 555
 Ruiz-Gutierrez, V. 446, 470
 Russell, J.C. 477
 Ryadnov, M.G. 487
- Saad, A. 634
 Said, L. 634
 Sawaya, M.R. 508
 Schumann, G.G. 637
 Scott, P.G. 477
 Sebai, S.C. 498
 Senger, S. 555
 Shah, D.S. 522
 Shakesheff, K.M. 516
 Shaman, J.A. 626
 Shearman, G.C. 498
 Shojaee-Moradie, F. 482
 Sköld, K. 588
 Slocik, J.M. 512
 Smith, A. 535
 Southan, C. 599
 Spring, D.R. 502
 Stevens, M.M. 544
 Stockley, J.H. 574
 Stolinski, M. 482
 Stone, M.O. 512
 Su, J. 477
 Subramaniam, D. 577
 Sun, F. 482
 Svenningsson, P. 588
 Svensson, M. 588
 Swain, R.J. 544
 Sweeney, T.R. 594
- Tai, H. 516
 Tan, G.D. 472
 Tanaka, S. 508
 Templer, R.H. 498
 Tetley, T.D. 527
 Thomas, M.B. 522
 Tomczak, M.M. 512
 Toomey, J.R. 555
 Tsai, Y. 508
- Ulijn, R.V. 535
 Umpleby, A.M. 482
- van Zaanen, H.C.T. 466
 Vine, D.F. 477
- Walker, B. 559
 Ward, W.S. 626
 Webster, A. 538
 Wheeler-Jones, C.P.D. 437, 442, 464
 Wolfendale, M. 555
 Worrall, J.A.R. 502
- Yamauchi, Y. 626
 Yeates, T.O. 508
- Zalenskaya, I. 609
 Zalensky, A. 609
 Zunszain, P.A. 594

- A**
adhesion molecule, 446
AIDS, 551
Alu, 637
Alzheimer's disease, 571
amyloid, 571
amyloid β -peptide, 577
amyloid precursor protein (APP), 574
angiotensin-converting enzyme (ACE), 599
animal model, 477
antiviral drug, 594
apolipoprotein, 472, 482
apolipoprotein B48 (apoB48), 484
apolipoprotein B mRNA editing enzyme catalytic polypeptide 3 (APOBEC), 637
apoptosis, 559, 626
aromatase, 634
arterial proteoglycan, 477
aspartic proteinase, 571
aspartyl protease, 574
atherogenesis, 472
atherosclerosis, 437, 451, 454, 464, 477
atomic force microscopy (AFM), 495, 522
- B**
 β -site amyloid precursor protein-cleaving enzyme (BACE), 574, 577
 β -site amyloid precursor protein-cleaving enzyme 1 (BACE1), 571
bilayer, 498
bio-based approach, 512
biochemical 'fingerprint', 544
bioinformatics, 599
biomolecule, 512
biophotonics, 544
biosensing, 532
block copolymer, 516
brain, 588
- C**
capillary bed, 472
carbon dioxide, 508
carbon fixation, 508
carboxysome, 508
cardiovascular disease, 484
cardiovascular system, 527
caspase, 559
cationic amphiphilic drug, 498
cell adhesion, 464
cell-penetrating peptide, 538
cell proliferation, 535
centromere, 609
chloromethane, 566
cholesterol, 577
chondrocyte, 535
chromosome, 609
chromosome 16, 612
chylomicron, 466, 470, 484
chylomicron remnant, 437, 440, 446, 454, 459, 464, 477
chylomicron remnant-like particle, 442
coagulation, 555
coiled coil, 487
complement, 466
copper, 571
CTP:phosphocholine cytidylyltransferase (CCT), 498
- cyclodextrin, 492
cyclo-oxygenase (COX), 442
cytochrome, 495
cytokine, 446
- D**
degradation, 588
degradosome, 502
diabetes, 484
dietary fat, 437, 440, 454, 464
dimerization inhibitor, 551
DNA loop domain, 626
DNA methylation, 618
drug delivery, 516
dyslipidaemia, 484
- E**
endogenous retrovirus (ERV), 629
endothelial cell, 442
endothelial dysfunction, 446, 451
endothelial nitric oxide synthase (eNOS), 634
endothelium, 437
epididymis, 629
epigenetic change, 623
epigenetic information, 609
epigenetics, 618
exosite inhibitor, 555
- F**
Factor VII/VIIa, 555
Factor X/Xa, 555
farnesylation, 577
fatty acid, 470
fluoren-9-ylmethyloxycarbonyl (Fmoc), 535
fluorescence polarization, 555
foam cell, 459, 470
folding, 502, 532
foot-and-mouth disease virus, 594
four-helix bundle, 532
Fourier-transform infrared (FTIR), 522
- G**
genome database, 599
genomic analysis, 612
genomic plasticity, 605
germ cell, 629
glyoxal, 566
gold nanoparticle, 512, 532
- H**
haem oxygenase-1 (HO-1), 442
heredity, 623
high-throughput screening, 555
histone, 609
HIV-1 protease, 551
host-guest interaction, 492
human brain, 574
hydrogel, 535
- I**
impedance spectroscopy, 522
inflammation, 466, 527
inhibitor design, 594
inorganic material synthesis, 512
insulin resistance, 477
intracellular defence, 637
- intracellular environment, 538
intrinsic immunity, 637
- K**
kinetics, 482
- L**
leucine-zipper, 487
leucocyte, 466
ligand-binding site, 561
lipaemia, 451, 466
lipid polymorphism, 498
lipopeptide, 551
lipoprotein lipase (LPL), 459
lipoprotein remnant, 472
lithium di-iodosalicylic acid (LIS), 612
live cell analysis, 544
liver, 440
long interspersed nuclear element (LINE), 629
long interspersed nuclear element 1 (LINE-1), 637
lung, 527
lycopene, 459
- M**
macrophage, 437
macrophage foam cell, 454
male pronucleus, 609
matrix-assisted laser-desorption ionization (MALDI), 588
matrix attachment region, 612
meal fatty acid, 451
membrane, 502
membrane stress, 498
microcompartment, 508
mitogen-activated protein kinase (MAPK), 442
molecular hairpin, 551
molecular printboard, 492
molecular recognition, 502
monocyte, 464
mouse transcript retrotransposon (MT), 618
- N**
nano-object, 495
nanoparticle, 527
nanoparticle assembly, 532
nanosensor, 538
nanostructured material, 487
nanotube, 527
neuropeptide imaging, 588
neutron reflection, 522
non-invasive cell biology, 544
nuclear matrix, 612, 626
nuclease, 626
- O**
obesity, 477, 484
oocyte-to-embryo transition, 618
organelle, 508
orthogonal linker, 492
outer membrane protein F (OmpF), 522
oxidative stress, 466
oxidized lipoprotein, 454
oxyanion, 566
oxysterol, 459

P

palmitoylation, 577
 paramutation, 623
 peptide α -helix, 487
 peptidomics, 588
 phase behaviour, 498
 photonic explorer for bioanalysis with biologically localized embedding (PEBBLE), 538
 phylogenetic analysis, 599
 phytosterol, 446
 pinocytosis, 538
 plasminogen, 583
 plasminogen activator, 583
 poly(L-lysine), 512
 polymer composite, 516
 polypeptide scaffold, 532
 postprandial lipaemia, 477
 postprandial state, 451, 472, 482
 probucol, 459
 prostanoid, 442
 protamine, 634
 protease, 559, 561, 594, 599
 proteinase, 571
 protein assembly, 508
 protein design, 487
 protein-DNA complex, 495
 protein growth factor, 516
 protein-protein interaction, 502, 551
 proteomics, 588

R

Raman microspectroscopy, 544
 reactive oxygen species, 464
 respiratory disease, 527
 retrotransposon, 605, 618, 637
 reverse transcriptase, 605, 629
 RNA, 623
 RNA dynamics, 634

S

scavenger receptor, 470
 β -secretase, 574, 577
 self-assembled monolayer, 492
 self-assembling peptide, 487
 self-assembly, 495, 502, 535
 serine, 559
 serine proteinase, 566
 silica, 512
 single-cell analysis, 544
 SitesBase, 561
 small-molecule database, 561
 spermatozoon, 605, 609, 623,
 634
 sperm DNA degradation, 626
 stable isotope, 482
 streptavidin, 492
 structure-based drug design, 561
 subtilisin, 561
 supercritical fluid, 516
 surface plasmon resonance, 495

T

testis, 605, 629
 tetrahedral intermediate, 566
 tetraspanin, 583
 therapeutic target, 559
 thiolipid, 522
 three-dimensional cell culture, 535
 tissue engineering, 516
 tocopherol, 446
 topoisomerase II, 626
 transgenesis, 605
 transmembrane serine protease, 583
 triacylglycerol, 440, 482
 triacylglycerol removal, 472
 triacylglycerol-rich lipoprotein (TRL), 470,
 482
 type II transmembrane serine protease
 (TTSP), 583

U

urokinase plasminogen activator receptor
 (uPAR), 583

V

vaccine development, 594
 vascular dysfunction, 437
 vascular tone, 451
 very-low-density lipoprotein (VLDL),
 440