

CONTENTS

Volume 253, No. 3, 1988

FULL AND RAPID PAPERS

Proteins

- Analysis of the interaction between properdin and Factor B, components of the alternative-pathway C3 convertase of complement T. C. FARRIES, P. J. LACHMANN & R. A. HARRISON **667-675**
- ADP-ribosylation in isolated nuclei of *Physarum polycephalum* G. GOLDERER, R. SCHNEIDER, B. AUER, P. LOIDL & P. GRÖBNER **859-867**
- Isolation, properties and amino acid sequences of a phospholipase A₂ and its homologue without activity from the venom of a sea snake, *Laticauda colubrina*, from the Solomon Islands C. TAKASAKI, S. KIMURA, Y. KOKUBUN & N. TAMIYA **869-875**
- The complete amino acid sequence of a pea (*Pisum sativum*) seed lipoxygenase predicted from a near full-length cDNA P. M. EALING & R. CASEY **915-918**

Enzymes

- Co²⁺-mediated time- and temperature-dependent activation of neutral α-D-mannosidase from monkey brain R. MATHUR, K. PANNEERSELVAM & A. S. BALASUBRAMANIAN **677-685**
- The design of peptidyldiazomethane inhibitors to distinguish between the cysteine proteinases calpain II, cathepsin L and cathepsin B C. CRAWFORD, R. W. MASON, P. Wikstrom & E. SHAW **751-758**
- Isoenzymes of glutathione transferase in rat small intestine M. K. TAHIR, N. ÖZER & B. MANNERVIK **759-764**
- A xylosyltransferase involved in the synthesis of a protein-associated xyloglucan in suspension-cultured dwarf-French-bean (*Phaseolus vulgaris*) cells and its interaction with a glucosyltransferase R. E. CAMPBELL, C. T. BRETT & J. R. HILLMAN **795-800**
- The effects of various anions and cations on the regulation of pyruvate dehydrogenase complex activity from pig kidney cortex T. PAWELECZYK, R. A. EASOM & M. S. OLSON **819-825**
- Biosynthesis of soluble carnitine acetyltransferases from the yeast *Candida tropicalis* B. KOZULIĆ, K. MOSBACH & F. MEUSSDOERFFER **845-849**
- Relations between the dissociation constants of dibasic acids H. B. F. DIXON **911-913**
- Preferential ADP-ribosylation of arginine-3 in synthetic heptapeptide Leu-Arg-Arg-Ala-Ser-Leu-Gly R. MATSUURA, Y. TANIGAWA, M. TSUCHIYA, K. MISHIMA, Y. YOSHIMURA & M. SHIMOYAMA **923-926**

Carbohydrates

- Identification of oversulphated galactosaminoglycans in intestinal-mucosal mast cells of rats infected with the nematode worm *Nippostrongylus brasiliensis* M. KUSCHE, U. LINDAHL, L. ENERBÄCK & L. RODÉN **885-893**

Lipids

- The occurrence of polyenoic very long chain fatty acids with greater than 32 carbon atoms in molecular species of phosphatidylcholine in normal and peroxisome-deficient (Zellweger's syndrome) brain A. POULOS, P. SHARP, D. JOHNSON & C. EASTON **645-650**
- Stimulation of surfactant phospholipid biosynthesis in the lungs of rats treated with silica B. E. MILLER & G. E. R. HOOK **659-665**

Gene structure and expression

- Pairing properties of bromouracil and repair of bromouracil-containing DNA. Possible utilization of bromodeoxyuridine triphosphate for site-directed mutagenesis M. MULLER, J. MARTIAL & W. G. VERLY **637-643**
- Mutations in the cyclic AMP binding site of the cyclic AMP receptor protein of *Escherichia coli* A. M. GRONENBORN, R. SANDULACHE, S. GÄRTNER & G. M. CLORE **801-807**
- Alterations in the binding site of the cyclic AMP receptor protein at the *Escherichia coli* galactose operon regulatory region K. GASTON, B. CHAN, A. KOLB, J. FOX & S. BUSBY **809-818**
- Expression of the renin gene in extra-renal tissues of the rat N. J. SAMANI, J. D. SWALES & W. J. BRAMMAR **907-910**
- Structure of a full-length cDNA clone for the preproα(I) chain of human type I procollagen G. TROMP, H. KUIVANIEMI, A. STACEY, H. SHIKATA, C. T. BALDWIN, R. JAENISCH & D. J. PROCKOP **919-922**

CONTENTS (continued)

Synthesis and degradation of macromolecules

- Prostaglandin production in myotube cultures. Influence on protein turnover **M. A. McELLIGOTT, L.-Y. CHAUNG, V. BARACOS & E. A. GULVE** **745–749**
- Regulation of rabbit acute phase protein biosynthesis by monokines **A. MACKIEWICZ, M. K. GANAPATHI, D. SCHULTZ, D. SAMOLS, J. REESE & I. KUSHNER** **851–857**
- Effects of dimethyl sulphoxide on the synthesis of plasma proteins in the human hepatoma HepG2. Induction of an acute-phase-like reaction **F. IWASA, R. A. GALBRAITH & S. SASSA** **927–930**

Intermediary metabolism and metabolic control

- Insulin-stimulated α -(methyl)aminoisobutyric acid uptake in skeletal muscle. Evidence for a short-term activation of uptake independent of Na^+ electrochemical gradient and protein synthesis **A. GUMÀ, X. TESTAR, M. PALACÍN & A. ZORZANO** **625–629**
- Location of platelet activating factor binding in rat liver **C. E. HILL, M. MIWA, P. J. SHERIDAN, D. J. HANAHAN & M. S. OLSON** **651–657**
- Factors regulating the secretion of lysophosphatidylcholine by rat hepatocytes compared with the synthesis and secretion of phosphatidylcholine and triacylglycerol. Effects of albumin, cycloheximide, verapamil, EGTA and chlorpromazine **A. GRAHAM, A. J. BENNETT, A. A. M. MCLEAN, V. A. ZAMMIT & D. N. BRINDLEY** **687–692**
- Albumin stimulates the release of lysophosphatidylcholine from cultured rat hepatocytes **D. J. BAISTED, B. S. ROBINSON & D. E. VANCE** **693–701**
- Synthesis of *myo*-inositol 1,3,4,5,6-pentakisphosphate from inositol phosphates generated by receptor activation **L. R. STEPHENS, P. T. HAWKINS, C. J. BARKER & C. P. DOWNES** **721–733**
- Purification and properties of inositol-1,4-bisphosphatase from bovine brain **N. S. GEE, G. G. REID, R. G. JACKSON, R. J. BARNABY & C. I. RAGAN** **777–782**
- Calcium modulates the generation of inositol 1,3,4-trisphosphate in human platelets by the activation of inositol 1,4,5-trisphosphate 3-kinase **J. L. DANIEL, C. A. DANGELMAIER & J. B. SMITH** **789–724**

Bioenergetics and transport

- AlF_4^- reversibly inhibits 'P'-type cation-transport ATPase, possibly by interacting with the phosphate-binding site of the ATPase **L. MISSIAEN, F. WUYTACK, H. DE SMEIDT, M. VROLIX & R. CASTEELS** **827–833**

Membranes and receptors

- Identification of the Ca^{2+} -release activity and ryanodine receptor in sarcoplasmic-reticulum membranes during cardiac myogenesis **M. MICHALAK** **631–636**
- Formation of methylphosphoryl inositol phosphates by extractions that employ methanol **J. E. BROWN, M. RUDNICK, A. J. LETCHER & R. F. IRVINE** **703–710**
- Thrombin exerts a dual effect on stimulated adenylate cyclase in hamster fibroblasts, an inhibition via a GTP-binding protein and a potentiation via activation of protein kinase C **I. MAGNALDO, J. POUYSSÉGUR & S. PARIS** **711–719**
- Interactions of cholera toxin with isolated hepatocytes. Effects of low pH, chloroquine and monensin on toxin internalization, processing and action **M. JANICOT, J.-P. CLOT & B. DESBUQUOIS** **735–743**
- Cholera-toxin and corticotropin modulation of inositol phosphate accumulation induced by vasopressin and angiotensin II in rat glomerulosa cells **G. GUILLON, N. GALLO-PAYET, M.-N. BAlestre & C. LOMBARD** **765–775**
- Analysis of insulin-receptor phosphorylation sites in intact cells by two-dimensional phosphopeptide mapping **J. M. TAVARÉ, R. M. O'BRIEN, K. SIDDLE & R. M. DENTON** **783–788**
- Evidence in liver for a disulphide-linked scavenger receptor containing a binding site for acetylated low-density lipoprotein and maleylated bovine serum albumin **E. OTTNAD, D. P. VIA, H. SINN, E. FRIEDRICH, R. ZIEGLER & H. A. DRESEL** **835–838**
- The inhibitory GTP-binding protein (G_i) occurs in rat Leydig cells and is differentially modified by lutropin and 12-O-tetradecanoylphorbol 13-acetate **E. A. PLATTS, D. SCHULSTER & B. A. COOKE** **895–899**
- Stereospecific mobilization of intracellular Ca^{2+} by inositol 1,4,5-trisphosphate. Comparison with inositol 1,4,5-trisphosphorothioate and inositol 1,3,4-trisphosphate **J. STRUPISH, A. M. COOKE, B. V. L. POTTER, R. GIGG & S. R. NAHORSKI** **901–905**

Cell structure and function

- An extracellular role for calmodulin-like activity in cell proliferation **G. CROCKER, R. A. DAWSON, C. H. BARTON & S. MACNEIL** **877–884**

CONTENTS (continued)

Methods

Identification of *N*-myristoylated proteins by reverse-phase high performance liquid chromatography of an azlactone derivative of *N*-myristoylglycine

C. GODDARD & R. L. FELSTED

839-843

BJ LETTERS

On the mechanism of OH[·] scavenger action

B. TADOLINI & L. CABRINI

931-932

The deoxyribose assay: an assay both for 'free' hydroxyl radical and for site-specific hydroxyl radical production

J. M. C. GUTTERIDGE & B. HALLIWELL

932-933