COMMUNICATIONS

5925 Enzymic reactions of phosphate analogs.
Joseph H. Gardner and Larry D. Byers

5928 Regulation of Escherichia coli ornithine transcarbamylase by orotate.
David M. Knight and Evan F. Jones

5931 Trifluoroacetyl tripeptides as potent inhibitors of human leukocyte elastase.
Pasquale Lesniewski, Jean-Luc Dimicoli, and Joseph Bieth

5934 Purification of human fibroblast interferon by zinc chelate affinity chromatography.
Victor G. Edy, Alfons Billiau, and Pierre De Somer

5936 Mutants of Bacillus megaterium resistant to uncouplers of oxidative phosphorylation.
Stuart J. Decker and Dennis R. Lang

IUPAC IUB Commission on Biochemical Nomenclature (CBN)

5942 Evidence for distinct guanine nucleotide sites in the regulation of the glucagon receptor and of adenylate cyclase activity.
Pramod M. Lad, Ann F. Welton, and Martin Rodbell

5947 Solubilization and separation of the glucagon receptor and adenylate cyclase in guanine nucleotide-sensitive states.
Ann F. Welton, Pramod M. Lad, Andrew C. Newby, Hiroshi Yamamura, Simonetta Nicosa, and Martin Rodbell

5951 Regulation by glucagon and divalent cations of inhibition of hepatic adenylate cyclase by adenosine.
Constantine Londos and M. Sue Preston

5957 Activation of the hepatic adenylate cyclase system by divalent cations. A Reassessment.
Constantine Londos and M. Sue Preston

5962 Chromatin subunits contain normal levels of major acetylated histone species.
James R. Davie and E. Peter M. Candido

5967 Structures of enzyme-bound metal-nucleotide complexes in the phosphoryl transfer reaction of muscle pyruvate kinase. 31P NMR studies with magnesium and kinetic studies with chromium nucleotides.
Raj K. Gupta and Albert S. Mildvan

5977 Properties of soluble rat brain histone lysine methyltransferase.
James C. Wallwork, Douglas P. Quick, and John A. Duerre

5981 In vitro studies on the methylation of histones in rat brain nuclei.
John A. Duerre, James C. Wallwork, Douglas P. Quick, and Kathleen M. Ford

5986 Cleavage of tryptophanyl peptide bonds in cytochrome b, by cyanogen bromide.
Juris Ozols and Craig Gerard

5990 High affinity lipid binding sites on the peripheral membrane enzyme pyruvate oxidase. Specific ligand effects on detergent binding.
Herbert L. Schrock and Robert B. Gennis

5996 An anion binding study of vanadyl(IV) human serotransferrin. Evidence for direct linkage to the metal.
Robert F. Campbell and N. Dennis Chasteen

6002 Regulation of de novo purine synthesis in human lymphoblasts. Similar rates of de novo synthesis during growth by normal cells and mutants deficient in hypoxanthine-guanine phosphoribosyltransferase activity.
Michael S. Hershfield and J. Edwin SeegeMiller

6011 Spectral perturbations of the biotinidine and tryptophan in cobra venom phospholipase A, upon metal ion and mixed micelle binding.
Mary Petrisko Roberts, Raymond A. Toome, and Edward A. Dennis

6018 Stimulation of adenosine 3':5'-monophosphate formation by prostaglandins in human astrocytoma cells. Inhibition by nonsteroidal anti-inflammatory agents.
Rainer Ortmann and John Phillip Perkins

6026 Developmentally regulated lectin from embryonic chick pectoral muscle. Purification by affinity chromatography.
Thomas P. Nowak, David Kobler, Lawrence E. Roel, and Samuel H. Barondes

6031 Inhibitory effects of agents altering the structure of DNA on the synthesis of pyrimidine deoxyribonucleotides in bacteriophage T4 DNA replication.
James B. Flanagan, Che-Shen Chiu, and G. Robert Greenberg

6038 Investigation of the relation of the pH-dependent dissociation of malate dehydrogenase to modification of the enzyme by N-ethylmaleimide.
C. Thomas Hodges, John C. Wiggins, and John H. Harrison

6042 Human kidney γ-glutamyl transpeptidase. Catalytic properties, subunit structure, and localization of the γ-glutamyl binding site on the light subunit.
Suresh S. Tate and M. Elizabeth Ross

6046 Steady state and equilibrium exchange kinetic studies of the sheep brain glutamine synthetase reaction.
R. Donald Allison, John A. Todhunter, and Daniel L. Parich

6052 Modulation of thyroid hormone nuclear receptor levels by 3,5,3'-triiodo-L-thyronine in GH, cells. Evidence for two functional components of nuclear-bound receptor and relationship to the induction of growth hormone synthesis.
Herbert H. Samuels, Frederick Stanley, and Lawrence E. Shapiro

6056 On the structure of the prosthetic group of citrate (pro-S)-lyase.
Manoranjan Singh, Jack B. Robinson, Jr., and Paul A. Sreev

6069 Conversion of oxy- into methemerythrin in the presence of anions.
Zdzislaw Bradi, Ronald Conrad, and Ralph G. Wilkins

6076 Affinity labeling of human serum prealbumin with N-bromoacetyl-l-thyroxine.
Sheue-Yann Cheng, Meir Wilchek, Hans J. Cahnman, and Jacob Robbins

6082 Dephosphorylation of phosphoproteins by Escherichia coli alkaline phosphatase.
Ronald L. Meligren, Gayle Ruffman Slaughter, and James A. Thomas

6090 Studies of transferrin with the use of Cu2+ as an electron paramagnetic resonance spectroscopic probe.
Jay L. Zilicier and Philip Aisen

6097 Hageman factor substrates. Human plasma prekallikrein: mechanism of activation by Hageman factor and participation in Hageman factor-dependent fibrinolysis.
Robert Mandle, Jr. and Allen P. Kaplan

6105 Opposite effect of organic phosphates on hemoglobin oxidation by hydroxylamine under aerobic and anaerobic conditions.
6108 Purification and characterization of pig kidney pyruvate kinase (type A).
Lars Berglund, Olle Ljungström, and Lorentz Engström

6112 Analysis of molecular aspects of Na⁺ and Ca²⁺ uptakes by embryonic cardiac cells in culture.
Michel Posset, Jean De Barry, Marie-Cécile Lenoir, and Michel Lecoultzki

6118 Hydroperoxide-dependent hydroxylation involving “H₂O₂-reducible hemoprotein” in microsomes of pea seeds. A new type enzyme acting on hydroperoxide and a physiological role of seed lipoxigenase.
Atami Ishimaru and Isao Yamazaki

6125 Purified proton conductor in proton translocating adenine triphosphatase of a thermophilic bacterium.
Harumasa Okamoto, Nobukiyo Sone, Hajime Hirata, Masasuke Yoshida, and Yasuo Kagawa

6132 Ribonucleoside diphosphate reductase from Escherichia coli. An immunological assay and a novel purification from an overproducing strain lysogenic for phage λΔ43.
Staffan Eriksson, Britt-Marie Björgen, Solveig Hahne, and Olle Karlström

6139 Sulphydryl group modification of thymidylate synthetase and its effect on activity and ternary complex formation.
Patricia C. Plese and R. Bruce Dunlap

6145 Purification of 3-hydroxy-3-methylglutaryl coenzyme A reductase by affinity chromatography on blue dextran-Sepharose 4B. Comparison of enzyme purified from normal rats and from rats treated with cholestyramine.
Mayasandra V. Srikantaiah, Calvin D. Tormanen, William L. Redd, Joel E. Hardgrave, and Terence J. Scallen

6151 A novel chemical modification of 23-3-ketosteroid isomerase occurring during its 3-oxo-4-estren-17β-yl acetate-dependent photoactivation.
John R. O'Gez, William F. Tivoli, and William F. Benisek

6156 Manganese cytochrome c. Structure and properties.
L. Charles Dickinson and James C. W. Chien

6163 Contribution of subunit interactions to the stability of lactate dehydrogenase.
William W.-C. Chan and Karen E. Shanks

6169 Induction of different rat liver supernatant aldehyde dehydrogenases by phenobarbital and tetrachlorodibenzo-p-dioxin.
Richard A. Deitrich, Pequita Bludeau, Thomas Stock, and Michael Roper

6177 Cro regulatory protein specified by bacteriophage λ.
Structure, DNA-binding, and repression of RNA synthesis.
Yoshinori Takeda, Atis Folkmanis, and Harrison Echols

6184 Early events in the plasmin digestion of fibrinogen and fibrin. Effects of plasmin on fibrin polymerization.
Jinna I. Shen, Richard P. McDonagh, Ann McDonagh, and Jan Herman

6190 Modification of the lipid composition of normal and Rous sarcoma virus-infected cells. Effects on transformation-associated membrane properties.
Arthur H. Hale, Jeffrey E. Paskin, Frank Palmer, Michael J. Weber, and Michael Glasser

6201 Purification of HLA-linked B lymphocyte alloantigens in immunologically active form by preparative sodium deoxycholate-sulfate-gel electrophoresis and studies on their subunit association.
Timothy A. Springer, James F. Kaufman, Lyle A. Sidmony, Deus L. Mann, and Jack L. Strominger

6208 A nicked form of kinetoplast DNA in Leishmania tarentolae.
Paul T. Englund, Daniel C. DiMaio, and Sharon S. Price

6217 Ethionine and the phosphorylation of ribosomal protein S6.
Margaret A. Trelar, Murray E. Trelar, and Robert Kislerisky

6222 Dimethyl sulfoxide-induced self-assembly of tubulin lacking associated proteins.
Richard H. Himes, Paul R. Burton, and John M. Gaito

6229 Fat cell plasma membranes. I. Preparation, characterization, and chemical composition.
Yumiko Kawai and Robert G. Spiro

6236 Fat cell plasma membranes. II. Studies on the glycoprotein components.
Yumiko Kawai and Robert G. Spiro

ADDITIONS AND CORRECTIONS

Takeshi Uozumi, Katsuhiro Ishino, Teruhiko Beppu, and Kei Arima

6245 ³²P nuclear magnetic resonance of bound substrates of arginine kinase reaction. Chemical shifts in binary, ternary, quaternary, and transition state analog complexes.
B. D. Nageswara Rao and Mildred Cohn