

Extracellular Matrices and Cell Adhesion Molecules

Characterization of an Anti-Decorin Monoclonal Antibody, and Its Utility

H. Sawada, T. Shinomura, K. Kimata,
J. Takeuchi, T. Tsuji, and H. Watanabe

997

Cell Death

Phosphoinositide 3-Kinase Accelerates Calpain-Dependent Proteolysis of Fodrin during Hypoxic Cell Death

T. Aki, K. Yoshida, and T. Fujimiya

921

Differentiation, Development, and Aging

Growth Hormone Has Dual Stage-Specific Effects on the Differentiation of 3T3-L1 Preadipocytes

S. Tominaga, M. Morikawa, and T. Osumi

881

BIOCHEMISTRY**Biochemistry General**

Efficient Construction of a Diabody Using a Refolding System: Anti-Carcinoembryonic Antigen Recombinant Antibody Fragment

R. Asano, T. Kudo, Y. Nishimura, K. Makabe,
H. Hayashi, M. Suzuki, K. Tsumoto, and
I. Kumagai

903

Gene and Protein EngineeringAffinity Selection of DNA-Binding Proteins from Yeast Genomic DNA Libraries by Improved λ Phage Display VectorH. Hagiwara, S. Kunihiro, K. Nakajima,
M. Sano, H. Masaki, M. Yamamoto, J.W. Pak,
Y. Zhang, K. Takase, I. Kuwahara,
I.N. Maruyama, and M. Machida

975

Functional Tolerance of *Streptomyces* Subtilisin Inhibitor toward Conformational and Stability Changes Caused by Single-Point Mutations in the Hydrophobic CoreM. Oda, A. Tamura, K. Kanaori, S. Kojima,
K. Miura, K. Momma, B. Tonomura, and
K. Akasaka

991

CONTENTS Rearranged According to Subject Categories, Vol. 132, No. 6

JB MINIREVIEWS—Protein Kinase C Isotypes and Their Specific Functions

| | | |
|--|--|-----|
| Protein Kinase C δ (PKC δ): Activation Mechanisms and Functions | U. Kikkawa, H. Matsuzaki, and T. Yamamoto | 831 |
| Protein Kinase C θ (PKC θ): A Key Enzyme in T Cell Life and Death | A. Altman and M. Villalba | 841 |
| Protein Kinase C- ϵ (PKC- ϵ): Its Unique Structure and Function | Y. Akita | 847 |
| Protein Kinase C η (PKC η): Its Involvement in Keratinocyte Differentiation | M. Kashiwagi, M. Ohba, K. Chida, and T. Kuroki | 853 |

BIOCHEMISTRY

Biochemistry General

| | | |
|---|--|-----|
| Characterization of Functional Regions for Nuclear Localization of NPAT | M. Sagara, E. Takeda, A. Nishiyama, S. Utsumi, Y. Toyama, S. Yuasa, Y. Ninomiya, and T. Imai | 875 |
|---|--|-----|

Protein Structure

| | | |
|--|---|-----|
| Crystallization and Preliminary X-Ray Crystallographic Studies of <i>Trypanosoma brucei</i> Prostaglandin F $_{2\alpha}$ Synthase <i>Rapid Communication</i> | Y. Okano, T. Inoue, B.K. Kubata, Z. Kabututu, Y. Urade, H. Matsumura, and Y. Kai | 859 |
| Crystal Structure of Bovine Trypsin and Wheat Germ Trypsin Inhibitor (I-2b) Complex (2:1) at 2.3 Å Resolution | S.S.S. Raj, E. Kibushi, T. Kurasawa, A. Suzuki, T. Yamane, S. Odani, Y. Iwasaki, T. Yamane, and T. Ashida | 927 |

Biomolecular Structures

| | | |
|---|---------------------------------------|-----|
| pH-Dependent Aggregate Forms and Conformation of Alzheimer Amyloid β -Peptide (12–24) | H. Abe, K. Kawasaki, and H. Nakanishi | 863 |
|---|---------------------------------------|-----|

Glycobiology and Carbohydrate Biochemistry

| | | |
|---|--|-----|
| Occurrence of Secretory Glycoprotein-Specific GalNAc β 1→4GlcNAc Sequence in N-Glycans in MDCK Cells | T. Ohkura, A. Seko, S. Hara-Kuge, and K. Yamashita | 891 |
| Analysis of Fluorogenic Smith Degradation Products of 7-(1,3-Disulfonaphthalyl)amino-Disaccharides for Linkage Position Analysis of Carbohydrates | Y. Makino, K. Yonezaki, and K. Omichi | 961 |

Enzymology

| | | |
|--|--|-----|
| Functions of the D-Ribosyl Moiety and the Lower Axial Ligand of the Nucleotide Loop of Coenzyme B $_{12}$ in Diol Dehydratase and Ethanolamine Ammonia-lyase Reactions | M. Fukuoka, S. Yamada, S. Miyoshi, K. Yamashita, M. Yamanishi, X. Zou, K.L. Brown, and T. Toraya | 935 |
|--|--|-----|

| | | |
|---|-----------------------|-----|
| Inhibitory Effects of Alcohols on Termolysin Activity as Examined Using a Fluorescent Substrate | Y. Muta and K. Inouye | 945 |
|---|-----------------------|-----|

Biochemistry of Proteolysis

| | | |
|--|--|-----|
| Overexpression and Functional Characterization of a Serine Carboxypeptidase Inhibitor (I $_C$) from <i>Saccharomyces cerevisiae</i> | J. Mima, H. Suzuki, M. Takahashi, and R. Hayashi | 967 |
|--|--|-----|

MOLECULAR BIOLOGY

Molecular Biology General

| | | |
|---|--|-----|
| The Ribosome Modulation Factor (RMF) Binding Site on the 100S Ribosome of <i>Escherichia coli</i> | H. Yoshida, Y. Maki, H. Kato, H. Fujisawa, K. Izutsu, C. Wada, and A. Wada | 983 |
|---|--|-----|

Gene Expression

| | | |
|--|---|-----|
| The Human <i>MYOD1</i> Transgene Is Suppressed by 5-Bromodeoxyuridine in Mouse Myoblasts | H. Ogino, W. Satou, M. Fujii, T. Suzuki, Y. He, E. Michishita, and D. Ayusawa | 953 |
|--|---|-----|

CELL

Cell General

| | | |
|---|-------------|-----|
| Signal Transduction Mechanism Leading to Enhanced Proliferation of Primary Cultured Adult Rat Hepatocytes Treated with Royal Jelly 57-kDa Protein | M. Kamakura | 911 |
|---|-------------|-----|