



JB

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**BIOCHEMISTRY
MOLECULAR BIOLOGY
CELL
BIOTECHNOLOGY**

JB Minireviews—Protein Kinase C Isotypes and Their Specific Functions

Activation and Roles of PKC δ

Ushio Kikkawa, Hidenori Matsuzaki, and Toshiyoshi Yamamoto

PKC θ in T Cell Biology

Amnon Altman and Martin Villalba

Structure and Function of PKC- ϵ

Yoshiko Akita

Expression and Functions of PKC η

Mariko Kashiwagi, Motoi Ohba, Kazuhiro Chida *et al.*

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Fields

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Hideaki URA, Kazuaki HARATA, Ikuo MATSUI, and Seiki KURAMITSU: Temperature Dependence of the Enzyme-Substrate Recognition Mechanism (Vol. 129, No. 1, pp. 173–178)

Kaoru KONISHI, Shin-ichiro KOJIMA, Tsuyoshi KATOH, Michio YAZAWA, Kazuo KATO, Keigi FUJIWARA, and Hirofumi ONISHI: Two New Modes of Smooth Muscle Myosin Regulation by the Interaction between the Two Regulatory Light Chains, and by the S2 Domain (Vol. 129, No. 3, pp. 365–372)

Norimasa NAKAMURA, David A. HART, Cyril B. FRANK, Linda L. MARCHUK, Nigel G. SHRIVE, Naruhisa OTA, Kazunari TAIRA, Hideki YOSHIKAWA, and Yasufumi KANEDA: Efficient Transfer of Intact Oligonucleotides into the Nucleus of Ligament Scar Fibroblasts by HVJ-Cationic Liposomes Is Correlated with Effective Antisense Gene Inhibition (Vol. 129, No. 5, pp. 755–759)

Takahiro YAMASHITA, Akihisa TERAOKA, and Yoshinori SHICHIDA: The Second Cytoplasmic Loop of Metabotropic Glutamate Receptor Functions at the Third Loop Position of Rhodopsin (Vol. 130, No. 1, pp. 149–155)

Kenji SOEJIMA, Noriko MIMURA, Masaki HIRASHIMA, Hiroaki MAEDA, Takayoshi HAMAMOTO, Tomohiro NAKAGAKI, and Chikateru NOZAKI: A Novel Human Metalloprotease Synthesized in the Liver and Secreted into the Blood: Possibly, the von Willebrand Factor-Cleaving Protease? (Vol. 130, No. 4, pp. 475–480)

Emi HAMA, Keiro SHIROTANI, Hajime MASUMOTO, Yoko SEKINE-AIZAWA, Hiroyuki AIZAWA, and Takaomi C. SAIDO: Clearance of Extracellular and Cell-Associated Amyloid β Peptide through Viral Expression of Neprilysin in Primary Neurons (Vol. 130, No. 6, pp. 721–726)

Chika YAMASHITA, Yuri AOYAMA, Mitsuhide NOSHIRO, and Yuzo YOSHIDA: Gonadotropin-Dependent Expression of Sterol 14-Demethylase P450 (CYP51) in Rat Ovaries and Its Contribution to the Production of a Meiosis-Activating Steroid (Vol. 130, No. 6, pp. 849–856)

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JB Minireviews—Lipid Signaling

A Thematic Series on Lipid Signaling: Prologue

Yoshinori Nozawa

Gifu International Institute of Biotechnology, Mitake-cho 2193-128, Kanu-gun, Gifu 505-0116 (Vol. 131, No. 3, pp. 283–284)

Phospholipase A₂

Makoto Murakami and Ichiro Kudo

Department of Health Chemistry, School of Pharmaceutical Sciences, Showa University, 1-5-8 Hatanodai, Shinagawa-ku, Tokyo 142-8555 (Vol. 131, No. 3, pp. 285–292)

Structure, Regulation, and Function of Phospholipase C Isozymes

Kiyoko Fukami

Department of Biochemistry, The Institute of Medical Science, The University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo 108-8039; and CREST, Japan Science and Technology Corporation (Vol. 131, No. 3, pp. 293–299)

Regulation and Possible Role of Mammalian Phospholipase D in Cellular Functions

Yoshiko Banno

Department of Biochemistry, Gifu University School of Medicine, Gifu 500-8705 (Vol. 131, No. 3, pp. 301–306)

Phosphoinositide 3-Kinases in Immunity: Lessons from Knockout Mice

Takehiko Sasaki,^{*†} Akira Suzuki,[‡] Junko Sasaki,^{*} and Josef M. Penninger^{§¶}

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Phosphoinositide Kinases as Enzymes that Produce Versatile Signaling Lipids, Phosphoinositides

Yasunori Kanaho^{*} and Teruhiko Suzuki^{*†}

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Diacylglycerol Kinases: Emerging Downstream Regulators in Cell Signaling Systems

Hideo Kanoh,^{*} Keiko Yamada,[†] and Fumio Sakane^{*}

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Platelet-Activating Factor Acetylhydrolase (PAF-AH)

Hiroyuki Arai,* Hiroyuki Koizumi,* Junken Aoki,* and Keizo Inoue†

**Graduate School of Pharmaceutical Sciences, University of Tokyo, 3-1, Hongo-7, Bunkyo-ku, Tokyo 113-0033; and †Faculty of Pharmaceutical Sciences, Teikyo University, Sagamiko, Tsukui, Kanagawa 199-0195 (Vol. 131, No. 5, pp. 635-640)*

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Yoh Takuwa, Noriko Takuwa, and Naotoshi Sugimoto

Department of Physiology, Kanazawa University Graduate School of Medicine, 13-1 Takara-machi, Kanazawa, Ishikawa 920-8640 (Vol. 131, No. 6, pp. 767-771)

Platelet-Activating Factor Receptor

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