MINIREVIEWS

Diverse Actions and Target-Site Selectivity of Neonicotinoids: Structural Insights
Kazuhiko Matsuda, Satoshi Kanaoka, Miki Akamatsu, and David B. Sattelle

Inactivation and Biotransformation of the Endogenous Cannabinoids Anandamide and 2-Arachidonoylglycerol
Marla L. Yates and Eric L. Barker

ACCELERATED COMMUNICATION

Increased GABAB Receptor-Mediated Signaling Reduces the Susceptibility of Fragile X Knockout Mice to Audiogenic Seizures
Laura K. K. Pacey, Scott P. Heximer, and David R. Hampson

ARTICLES

Contribution of Binding Enthalpy and Entropy to Affinity of Antagonist and Agonist Binding at Human and Guinea Pig Histamine H1-Receptor
Hans-Joachim Wittmann, Roland Seifert, and Andrea Strasser

Regulation of Renal Outer Medullary Potassium Channel and Renal K+ Excretion by Klotho
Seung-Kuy Cha, Ming-Chang Hu, Hiroshi Kurosu, Makoto Kuro-o, Orson Moe, and Chou-Long Huang

Thiazolidinediones Mimic Glucose Starvation in Facilitating Sp1 Degradation through the Up-Regulation of β-Transducin Repeat-Containing Protein
Shuo Wei, Hsiao-Ching Chuang, Wan-Chi Tsai, Hsiao-Ching Yang, Shiu-h-Rong Ho, Andrew J. Paterson, Samuel K. Kulp, and Ching-Shih Chen

In Vivo and in Vitro Structure-Activity Relationships and Structural Conformation of Kisspeptin-10-Related Peptides
Ester Gutierrez-Pascual, Jérôme Leprince, Antonio J. Martínez-Fuentes, Isabelle Ségalas-Milazzo, Rafael Pineda, Juan Roa, Mario Duran-Prado, Laure Guilhaudis, Elia Desperrois, Aurélie Lebreton, Leonor Pinilla, Marie-Christine Tonon, María M. Malagón, Hubert Vaudry, Manuel Tena-Sempere, and Justo P. Castaño
Site Specificity of Agonist and Second Messenger-Activated Kinases for Somatostatin Receptor Subtype 2A (Sst2A) Phosphorylation
Qisheng Liu, Mark S. Bee, and Agnes Schonbrunn

Polyethylene Glycosylated Curcumin Conjugate Inhibits Pancreatic Cancer Cell Growth through Inactivation of Jab1
Jun Li, Yun Wang, Chaozhe Yang, Pengfei Wang, Denise K. Oelschlager, Yong Zheng, De-An Tian, William E. Grizzle, Donald J. Buchsbaum, and Mei Wan

Apratoxin A Reversibly Inhibits the Secretory Pathway by Preventing Cotranslational Translocation
Yanxia Liu, Brian K. Law, and Hendrik Luesch

Inhibition of Aquaporin-1 and Aquaporin-4 Water Permeability by a Derivative of the Loop Diuretic Bumetanide Acting at an Internal Pore-Occluding Binding Site
Elton Migliati, Nathalie Meurice, Pascale DuBois, Jennifer S. Fang, Suma Somasekharan, Elizabeth Beckett, Gary Flynn, and Andrea J. Yool

The Spermostatic and Microbicidal Actions of Quinones and Maleimides: Toward a Dual-Purpose Contraceptive Agent
Louise M. Hughes, Renate Griffith, Alison Carey, Trent Butler, Scott W. Donne, Ken W. Beagley, and R. John Aitken

S3b Amino Acid Substitutions and Ancillary Subunits Alter the Affinity of Heteropoda venatoria Toxin 2 for Kv4.3
Christopher V. DeSimone, YiChun Lu, Vladimir E. Bondarenko, and Michael J. Morales

δ Receptors Are Required for Full Inhibitory Coupling of μ Receptors to Voltage-Dependent Ca2+ Channels in Dorsal Root Ganglion Neurons
Wendy Walwyn, Scott John, Matthew Maga, Christopher J. Evans, and Tim G. Hales

α1-Adrenergic Receptor Stimulates Interleukin-6 Expression and Secretion through Both mRNA Stability and Transcriptional Regulation: Involvement of p38 Mitogen-Activated Protein Kinase and Nuclear Factor-κB
Dianne M. Perez, Robert S. Papay, and Ting Shi

KLYP956 Is a Non–Imidazole-Based Orally Active Inhibitor of Nitric-Oxide Synthase Dimerization

Potent Activity of Indolequinones against Human Pancreatic Cancer: Identification of Thioredoxin Reductase as a Potential Target
Chao Yan, Biehuoy Shieh, Philip Reigan, Zhiyong Zhang, Marie A. Colucci, Aurélie Chilloux, Jeffery J. Newsome, David Siegel, Dan Chan, Christopher J. Moody, and David Ross

Heme-Oxygenase-1 Induction and Carbon Monoxide-Releasing Molecule Inhibit Lipopolysaccharide (LPS)-Induced High-Mobility Group Box 1 Release in Vitro and Improve Survival of Mice in LPS-and Cecal Ligation and Puncture-Induced Sepsis Model in Vivo
Konstantin Tsoyi, Tae Yu Lee, Young Soo Lee, Hye Jung Kim, Han Geuk Seo, Jae Heun Lee, and Ki Churl Chang

Mesalamine Suppresses the Expression of TC22, a Novel Tropomyosin Isoform Associated with Colonic Neoplasia
Koushik K. Das, Manisha Bajpai, Yingxin Kong, Jianying Liu, Xin Geng, and Kiron M. Das

S-Adenosylmethionine and Methylthioadenosine Inhibit Cellular FLICE Inhibitory Protein Expression and Induce Apoptosis in Colon Cancer Cells
Tony W. H. Li, Qingsong Zhang, Pilsoo Oh, Meng Xia, Hui Chen, Sean Bemanian, Natalie Lastra, Magda Circ, Mary Pat Moyer, José M. Mato, Tak Yee Aw, and Shelly C. Lu
Activation Switch in the Transmembrane Domain of Metabotropic Glutamate Receptor
Masataka Yanagawa, Takahiro Yamashita, and Yoshinori Shichida

Cisplatin-Induced DNA Damage Activates Replication Checkpoint Signaling Components that Differentially Affect Tumor Cell Survival
Jill M. Wagner and Larry M. Karnitz

Supplemental material is available online at http://molpharm.aspetjournals.org.

About the cover: Electrostatic (A and B) and hydrogen bonding (C and D) fields extended from the ligand binding site of the peach potato aphid M. persicae (A and C) and the honeybee A. mellifera (B and D). See the article by Matsuda et al. on page 1 of this issue.