MINIREVIEWS
Understanding Molecular Recognition by G protein βγ Subunits on the Path to Pharmacological Targeting
Yuan Lin and Alan V. Smrcka

MicroRNAs: New Players in Cardiac Injury and Protection
Rakesh C. Kukreja, Chang Yin, and Fadi N. Salloum

ACCELERATED COMMUNICATION
Structural and Functional Analyses of the Second-Generation Integrase Strand Transfer Inhibitor Dolutegravir (S/GSK1349572)
Stephen Hare, Steven J. Smith, Mathieu Métifiot, Albert Jaxa-Chamiec, Yves Pommier, Stephen H. Hughes, and Peter Cherepanov

ARTICLES
Interactions of Key Charged Residues Contributing to Selective Block of Neuronal Sodium Channels by μ-Conotoxin KIIIA
J. R. McArthur, G. Singh, D. McMaster, R. Winkfein, D. P. Tieleman, and R. J. French

Elucidation of the Contribution of Active Site and Exosite Interactions to Affinity and Specificity of Peptidylc Serine Protease Inhibitors Using Non-Natural Arginine Analogs
Masood Hosseini, Longguang Jiang, Hans Peter Sørensen, Jan K. Jensen, Anni Christensen, Sarah Fogh, Cai Yuan, Lisbeth M. Andersen, Mingdong Huang, Peter A. Andreasen, and Knud J. Jensen

Zaklina Kovacevic, Sherin Chikhani, David B. Lovejoy, and Des R. Richardson

The Selective Estrogen Receptor Modulator Bazedoxifene Inhibits Hormone-Independent Breast Cancer Cell Growth and Down-Regulates Estrogen Receptor α and Cyclin D1
Joan S. Lewis-Wambi, Helen Kim, Ramona Curpan, Ronald Grigg, Mohammed A. Sarker, and V. Craig Jordan
The Antiepileptic Drugs Phenobarbital and Carbamazepine Reduce Transport of Methotrexate in Rat Choroid Plexus by Down-Regulation of the Reduced Folate Carrier
Sandra Halwachs, Cathleen Lakoma, Ingo Schäfer, Peter Seibel, and Walther Honscha

Molecular Determinants for Activation of Human Ether-à-go-go-related Gene 1 Potassium Channels by 3-Nitro-N'-(4-phenoxophenyl) Benzamide
Vivek Garg, Anna Stary-Weinzinger, Frank Sachse, and Michael C. Sanguinetti

Curcumin-Induced Mitotic Spindle Defect and Cell Cycle Arrest in Human Bladder Cancer Cells Occurs Partly through Inhibition of Aurora A
Hsiao-Sheng Liu, Ching-Shiun Ke, Hung-Chi Cheng, Chi-Ying F. Huang, and Chun-Li Su

Three Arginines in the GABA_A Receptor Binding Pocket Have Distinct Roles in the Formation and Stability of Agonist- versus Antagonist-Bound Complexes
Marcel P. Goldschen-Ohm, David A. Wagner, and Mathew V. Jones

Isoform-Selective Inhibition of Phosphoinositide 3-Kinase: Identification of a New Region of Nonconserved Amino Acids Critical for p110α Inhibition
Zhaohua Zheng, Syazwani I. Amran, Philip E. Thompson, and Ian G. Jennings

Cooperative Role of Caveolin-1 and C-Terminal Src Kinase Binding Protein in C-Terminal Src Kinase-Mediated Negative Regulation of c-Src
Aaron T. Place, Zhenlong Chen, Farnaz R. Bakhshi, Guoquan Liu, John P. O’Bryan, and Richard D. Minshall

Aryl Hydrocarbon Receptor Activation in Hematopoietic Stem/Progenitor Cells Alters Cell Function and Pathway-Specific Gene Modulation Reflecting Changes in Cellular Trafficking and Migration
Fanny L. Casado, Kameshwar P. Singh, and Thomas A. Gasiewicz

Cyanoquinolines with Independent Corrector and Potentiator Activities Restore ΔPhe508-Cystic Fibrosis Transmembrane Conductance Regulator Chloride Channel Function in Cystic Fibrosis
Puay-Wah Phuan, Baoxue Yang, John M. Knapp, Alex B. Wood, Gergely L. Lukacs, Mark J. Kurth, and A. S. Verkman

Novel Betulin Derivatives as Antileishmanial Agents with Mode of Action Targeting Type IB DNA Topoisomerase
Sayan Chowdhury, Tulika Mukherjee, Souvik Sengupta, Somenath Roy Chowdhury, Sibabrata Mukhopadhyay, and Hemanta K. Majumder

Rat Embryo Exposure to All-Trans Retinoic Acid Results in Postnatal Oxidative Damage of Respiratory Complex I in the Cerebellum
Anna Signorile, Nicola Sardaro, Domenico De Rasmo, Salvatore Scacco, Francesco Papa, Pietro Borracci, Maria Rosaria Carrati, and Sergio Papa

Valproic Acid Induces Monoamine Oxidase A via Akt/Forkhead Box O1 Activation
Jason Boyang Wu and Jean C. Shih

Inhibition of Navβ4 Peptide-Mediated Resurgent Sodium Currents in Nav1.7 Channels by Carbamazepine, Riluzole, and Anandamide
Jonathan W. Theile and Theodore R. Cummins

Identification of Cysteines Involved in the Effects of Methanethiosulfonate Reagents on Human Equilibrative Nucleoside Transporter 1
Jamie S. Park, Scott J. Hughes, Frances K. M. Cunningham, and James R. Hammond
Long-Term α1A-Adrenergic Receptor Stimulation Improves Synaptic Plasticity, Cognitive Function, Mood, and Longevity

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

About the cover: Morphologic analysis of T24 cells in response to curcumin or Aurora A siRNA. See article by Liu et al. on page 638 of this issue.