ARTICLES

A Novel Family of Insect-Selective Peptide Neurotoxins Targeting Insect Large-Conductance Calcium-Activated K⁺ Channels Isolated from the Venom of the Theraphosid Spider Eucautus clausus
Monique J. Windley, Pierre Escoubas, Stella M. Valenzuela, and Graham M. Nicholson

Different Residues in the GABAA Receptor Benzodiazepine Binding Pocket Mediate Benzodiazepine Efficacy and Binding
Elaine V. Morlock and Cynthia Czajkowski

Evidence that γ-Secretase-Mediated Notch Signaling Induces Neuronal Cell Death via the Nuclear Factor-κB-Bcl-2-Interacting Mediator of Cell Death Pathway in Ischemic Stroke
Thiruma V. Arumugam, Yi-Lin Cheng, Yuri Choi, Yun-Hyung Choi, Sunghee Yang, Young-Kwan Yun, Jong-Sung Park, Dong Kuon Yang, John Thundyl, Mathias Gelderblom, Vardan T. Karamyan, Sung-Chun Tang, Sic L. Chan, Tim Magnus, Christopher G. Sobey, and Dong-Gyu Jo

In Vivo Labeling of Brain Capillary Endothelial Cells after Intravenous Injection of Monoclonal Antibodies Targeting the Transferrin Receptor
Sarah Paris-Robidas, Vincent Emond, Cyntia Tremblay, Denis Soulet, and Frédéric Calon

Cyclopentenyl Cytosine Induces Senescence in Breast Cancer Cells through the Nucleolar Stress Response and Activation of p53
Min Huang, Patrick Whang, Patrick Lewicki, and Beverly S. Mitchell

Mechanisms of Modal Activation of GluA3 Receptors

Diacylglycerol Lipase-α and -β Control Neurite Outgrowth in Neuro-2a Cells through Distinct Molecular Mechanisms
Kwang-Mook Jung, Giuseppe Astarita, Dean Thongkham, and Daniele Piomelli

Novel Regulatory Mechanism of Canonical Wnt Signaling by Dopamine D₂ Receptor through Direct Interaction with β-Catenin
Chengchun Min, Dong-In Cho, Kyoung-Ja Kwon, Kwon-Sup Kim, Chan Young Shin, and Kyeong-Man Kim
Occupation of Either Site for the Neurosteroid Allopregnanolone Potentiates the Opening of the 
GABA<sub>A</sub> Receptor Induced from Either Transmitter Binding Site

John Bracamontes, Megan McCollum, Caroline Esch, Ping Li, Jason Ann, Joe Henry Steinbach, 
and Gustav Akk

Structural Basis for the High-Affinity Inhibition of Mammalian Membranous Adenylyl Cyclase by 2',3'- 
O-(N-Methylanthraniloyl)-Inosine 5'-Triphosphate

Melanie Hübner, Anshuman Dixit, Tung-Chung Mou, Gerald H. Lushington, Cibele Pinto, 
Andreas Gille, Jens Geduhn, Burkhard König, Stephen R. Sprang, and Roland Seifert

Abelson Family Tyrosine Kinases Regulate the Function of Nicotinic Acetylcholine Receptors and 
Nicotinic Synapses on Autonomic Neurons

Selwyn S. Jayakar and Joseph F. Margiotta

The Diamidine Diminazene Aceturate Is a Substrate for the High-Affinity Pentamidine Transporter: 
Implications for the Development of High Resistance Levels in Trypanosomes

Ibrahim A. Teka, Anne J. N. Kazibwe, Nasser El-Sabbagh, Mohammed I. Al-Salabi, 
Christopher P. Ward, Anthonius A. Eze, Jane C. Munday, Pascal Mäsér, Enoch Matovu, 
Michael P. Barrett, and Harry P. de Koning

Desensitization of Transient Receptor Potential Ankyrin 1 (TRPA1) by the TRP Vanilloid 1-Selective 
Cannabinoid Arachidonoyl-2 Chloroethanolamine

Nikita B. Ruparel, Amol M. Patwardhan, Armen N. Akopian, and Kenneth M. Hargreaves

In Vivo and In Vitro Characterization of a First-in-Class Novel Azole Analog That Targets Pregnane X 
Receptor Activation

Madhukumar Venkatesh, Hongwei Wang, Julie Cayer, Melissa Leroux, Dany Salvail, Bhaskar Das, 
Jay E. Wrobel, and Sridhar Mani

Synergistic Effect of Curcumin and Cisplatin via Down-Regulation of Thymidine Phosphorylase and 
Excision Repair Cross-Complementary 1 (ERCC1)

Min-Shao Tsai, Shao-Hsing Weng, Ya-Hsun Kuo, Yu-Fan Chiu, and Yun-Wei Lin

Functional Maturation of Drug Transporters in the Developing, Neonatal, and Postnatal Kidney

Derina E. Sweeney, Volker Vallon, Timo Rieg, Wei Wu, Thomas F. Gallegos, and Sanjay K. Nigam

Antibody Tracking Demonstrates Cell Type-Specific and Ligand-Independent Internalization of 
Guanylyl Cyclase A and Natriuretic Peptide Receptor C

Deborah M. Dickey, Darcy R. Flora, and Lincoln R. Potter

Extracellular Loop 2 of the Free Fatty Acid Receptor 2 Mediates Allosterism of a Phenylacetamide 
Ago-Allosteric Modulator

Nicola J. Smith, Richard J. Ward, Leigh A. Stoddart, Brian D. Hudson, Evi Kostenis, 
Trond Ulven, Joanne C. Morris, Christian Tränkle, Irina G. Tikhonova, David R. Adams, and 
Graeme Milligan

Activation of Group II Metabotropic Glutamate Receptors Promotes DNA Demethylation in the Mouse 
Brain

Francesco Matrisciano, Erbo Dong, David Peter Gavin, Ferdinando Nicoletti, and 
Alessandro Guidotti

Binding Sites for Bilobalide, Diltiazem, Ginkgolide, and Picrotoxinin at the 5-HT<sub>3</sub> Receptor


Roles of microRNA-29a in the Antifibrotic Effect of Farnesoid X Receptor in Hepatic Stellate Cells

Jiang Li, Yifei Zhang, Ramalinga Kuruba, Xiang Gao, Chandrashekhar R. Gandhi, Wen Xie, and 
Song Li
15-Deoxy-Δ_{12,14}-prostaglandin J₂-Glycerol Ester, a Putative Metabolite of 2-Arachidonyl Glycerol, Activates Peroxisome Proliferator Activated Receptor γ
Priyadarshini Raman, Barbara L. F. Kaplan, Jerry T. Thompson, John P. Vanden Heuvel, and Norbert E. Kaminski

Cholesterol Regulates μ-Opioid Receptor-Induced β-Arrestin 2 Translocation to Membrane Lipid Rafts
Yu Qiu, Yan Wang, Ping-Yee Law, Hong-Zhuang Chen, and Horace H. Loh

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

About the cover: Recombinant DGL-β-GFP protein localizes to lipid droplets in transfected cells. See related article by Jung et al. on page 60 of this issue.