Perspective

Pretty Subunits All in a Row: Using Concatenated Subunit Constructs to Force the Expression of Receptors with Defined Subunit Stoichiometry and Spatial Arrangement

Michael M. White

Articles

Reversing Hypoxic Cell Chemoresistance in Vitro Using Genetic and Small Molecule Approaches Targeting Hypoxia Inducible Factor-1


Four Novel Tarantula Toxins as Selective Modulators of Voltage-Gated Sodium Channel Subtypes

Frank Bosmans, Lachlan Rash, Shunyi Zhu, Sylvie Diochot, Michel Lazdunski, Pierre Escoubas, and Jan Tytgat

Activation and Potentiation of Interferon-γ Signaling by 3,3'-Diindolylmethane in MCF-7 Breast Cancer Cells

Jacques E. Riby, Ling Xue, Urmi Chatterji, Erik L. Bjeldanes, Gary L. Firestone, and Leonard F. Bjeldanes

Gene Transfer of Pro-opiomelanocortin Prohormone Suppressed the Growth and Metastasis of Melanoma: Involvement of α-Melanocyte-Stimulating Hormone-Mediated Inhibition of the Nuclear Factor κB/Cyclooxygenase-2 Pathway

Guei-Sheung Liu, Li-Fen Liu, Che-Jen Lin, Jui-Cheng Tseng, Ming-Ju Chuang, Hing-Chung Lam, Jenn-Kuen Lee, Lin-Cheng Yang, Julie Hwa Yu Chan, Shen-Long Howng, and Ming-Hong Tai

Probing the Reorganization of the Nicotinic Acetylcholine Receptor during Desensitization by Time-Resolved Covalent Labeling Using [3H]AC5, a Photoactivatable Agonist

Alexandre Mourot, Jordi Rodrigo, Florence Kotzyba-Hibert, Sonia Bertrand, Daniel Bertrand, and Maurice Goeldner

Rapid Modulation of P-Glycoprotein-Mediated Transport at the Blood-Brain Barrier by Tumor Necrosis Factor-α and Lipopolysaccharide

Anika M. S. Hartz, Björn Bauer, Gert Fricker, and David S. Miller

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Interactions between the Mas-Related Receptors MrgD and MrgE Alter Signalling and Trafficking of MrgD
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Specific Modulation of Airway Epithelial Tight Junctions by Apical Application of an Occludin Peptide
Ruth S. Everett, Miriam K. Vanhook, Nadia Barozzi, Istvan Toth, and Larry G. Johnson

A Glutathione S-Transferase π-Activated Prodrug Causes Kinase Activation Concurrent with S-Glutathionylation of Proteins
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Drug Binding Interactions in the Inner Cavity of hERG Channels: Molecular Insights from Structure-Activity Relationships of Clofilium and Ibutilide Analogs
Matthew Perry, Phillip J. Stansfeld, Joanne Leaney, Claire Wood, Marcel J. de Groot, Derek Leishman, Michael J. Sutcliffe, and John S. Mitcheson

Positive Inter-Regulation between β-Catenin/T Cell Factor-4 Signaling and Endothelin-1 Signaling Potentiates Proliferation and Survival of Prostate Cancer Cells
Ping Sun, Hui Xiong, Tae Hoon Kim, Bing Ren, and Zhuohua Zhang

Hydroxylated Xestospongins Block Inositol-1,4,5-trisphosphate-Induced Ca2+ Release and Sensitize Ca2+-Induced Ca2+ Release Mediated by Ryanodine Receptors
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Chemokine Stromal Cell-Derived Factor 1α Induces Proliferation and Growth Hormone Release in GH4C1 Rat Pituitary Adenoma Cell Line through Multiple Intracellular Signals
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Novel and Specific Inhibitors of a Poxvirus Type I Topoisomerase
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Constraining the Expression of Nicotinic Acetylcholine Receptors by Using Pentameric Constructs
Paul J. Groot-Kormelink, Steven Broadbent, Marco Beato, and Lucia G. Sivilotti

High-Affinity, Slowly Desensitizing GABAA Receptors Mediate Tonic Inhibition in Hippocampal Dentate Granule Cells
Zakaria Mtchedlishvili and Jaideep Kapur

Functional Properties of Internalization-Deficient P2X4 Receptors Reveal a Novel Mechanism of Ligand-Gated Channel Facilitation by Ivermectin
Estelle Toulme, Florentina Soto, Maurice Garret, and Eric Boué-Grabot

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Characterization of SIS3, a Novel Specific Inhibitor of Smad3, and Its Effect on Transforming Growth Factor-β1-Induced Extracellular Matrix Expression
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A Direct Interaction between the N Terminus of Adenylyl Cyclase AC8 and the Catalytic Subunit of Protein Phosphatase 2A
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Supplemental material is available online at http://mol pharm.aspetjournals.org.

About the cover: AC5 probe orientation into an ACh binding site of a presumed resting state-like AChBP structure. See the article by Mourot et al. on page 452 of this issue.