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

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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
Sandra Milasta, John Pediani, Shirley Appelbe, Steven Trim, Michael Wyatt, Peter Cox, Mark Fidock, and Graeme Milligan

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 Leany, 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
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Hydroxylated Xestospongins Block Inositol-1,4,5-trisphosphate-Induced Ca\(^{2+}\) Release and Sensitize Ca\(^{2+}\)-Induced Ca\(^{2+}\) Release Mediated by Ryanodine Receptors
Tram Anh Ta, Wei Feng, Tadeusz F. Molinski, and Isaac N. Pessah

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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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 GAB\(\text{A}\) Receptors Mediate Tonic Inhibition in Hippocampal Dentate Granule Cells
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Functional Properties of Internalization-Deficient P2X\(_4\) Receptors Reveal a Novel Mechanism of Ligand-Gated Channel Facilitation by Ivermectin
Estelle Toulme, Florentina Soto, Maurice Garret, and Eric Boué-Grabot

CD38 Expression Is Insensitive to Steroid Action in Cells Treated with Tumor Necrosis Factor-α and Interferon-γ by a Mechanism Involving the Up-Regulation of the Glucocorticoid Receptor β Isoform
Omar Tliba, John A. Cidlowski, and Yassine Amrani

Characterization of SIS3, a Novel Specific Inhibitor of Smad3, and Its Effect on Transforming Growth Factor-β1-Induced Extracellular Matrix Expression
Masatoshi Jinnin, Hironobu Ihn, and Kunihiko Tamaki

A Direct Interaction between the N Terminus of Adenylyl Cyclase AC8 and the Catalytic Subunit of Protein Phosphatase 2A
Andrew J. Crossthwaite, Antonio Ciruela, Timothy F. Rayner, and Dermot M. F. Cooper
Indirect Modulation by \( \alpha 7 \) Nicotinic Acetylcholine Receptors of Noradrenaline Release in Rat Hippocampal Slices: Interaction with Glutamate and GABA Systems and Effect of Nicotine Withdrawal

Jacques Barik and Susan Wonnacott

Acquired Cadmium Resistance in Metallothionein-I/II(−−) Knockout Cells: Role of the T-Type Calcium Channel Cacn\( \alpha 1G \) in Cadmium Uptake

Elaine M. Leslie, Jie Liu, Curtis D. Klaassen, and Michael P. Waalkes

Pharmacological Properties of GABA\(_ A \) Receptors Containing \( \gamma 1 \) Subunits

S. Khom, I. Baburin, E. N. Timin, A. Hohaus, W. Sieghart, and S. Hering

Deficiency of Glutathione Transferase Zeta Causes Oxidative Stress and Activation of Antioxidant Response Pathways

Anneke C. Blackburn, Klaus I. Matthaei, Cindy Lim, Matthew C. Taylor, Jean Y. Cappello, John D. Hayes, M. W. Anders, and Philip G. Board

Mechanism of Action of a Novel Human \( \text{ether-a-go-go} \)-Related Gene Channel Activator

Oscar Casis, Søren-Peter Olesen, and Michael C. Sanguinetti

Biological Consequences of Trinuclear Platinum Complexes: Comparison of \([\{\text{trans-PtCl(NH}_3\}_2\}_2\mu-(\text{trans-Pt(NH}_3\}_2\}(\text{H}_2\text{N}(\text{CH}_2)\text{NH}_2\}_2\}_4\) (BBR 3464) with Its Noncovalent Congeners

Amanda L. Harris, John J. Ryan, and Nicholas Farrell

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