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

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

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A Glutathione S-Transferase π-Activated Prodrug Causes Kinase Activation Concurrent with S-Glutathionylation of Proteins
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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 1 Induces Proliferation and Growth Hormone Release in GH4C1 Rat Pituitary Adenoma Cell Line through Multiple Intracellular Signals
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Zakaria Mtchedlishvili and Jaideep Kapur

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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.