PHARMACOLOGICAL REVIEWS
A Publication of the American Society for Pharmacology and Experimental Therapeutics

January 2013
Volume 65, Number 1

Review Articles
A Modern Understanding of the Traditional and Nontraditional Biological Functions of Angiotensin-Converting Enzyme

CC Chemokine Receptors and Chronic Inflammation—Therapeutic Opportunities and Pharmacological Challenges
Gemma E. White, Asif J. Iqbal, and David R. Greaves

Homeoprotein Signaling in Development, Health, and Disease: A Shaking of Dogmas Offers Challenges and Promises from Bench to Bed
Julien Spatazza, Elizabeth Di Lullo, Alain Joliot, Edmond Dupont, Kenneth L. Moya, and Alain Prochiantz

Therapeutic Potential of Mood Stabilizers Lithium and Valproic Acid: Beyond Bipolar Disorder
Chi-Tso Chiu, Zhifei Wang, Joshua G. Hunsberger, and De-Maw Chuang

The Flinders Sensitive Line Rat Model of Depression—25 Years and Still Producing
David H. Overstreet and Gregers Wegener

Integrating Optogenetic and Pharmacological Approaches to Study Neural Circuit Function: Current Applications and Future Directions
Garret D. Stuber and Alex O. Mason

The Pharmacology of L-DOPA-Induced Dyskinesia in Parkinson’s Disease
Philippe Huot, Tom H. Johnston, James B. Koprich, Susan H. Fox, and Jonathan M. Brotchie

Regulation of μ-Opioid Receptors: Desensitization, Phosphorylation, Internalization, and Tolerance
John T. Williams, Susan L. Ingram, Graeme Henderson, Charles Chavkin, Mark von Zastrow, Stefan Schulz, Thomas Koch, Christopher J. Evans, and MacDonald J. Christie

Individual Differences and Social Influences on the Neurobehavioral Pharmacology of Abused Drugs
M. T. Bardo, J. L. Neisewander, and T. H. Kelly

Targeted Drug Delivery to Treat Pain and Cerebral Hypoxia
Patrick T. Ronaldson and Thomas P. Davis

Strategies to Address Low Drug Solubility in Discovery and Development
Hywel D. Williams, Natalie L. Trevaskis, Susan A. Charman, Ravi M. Shanker, William N. Charman, Colin W. Pouton, and Christopher J. H. Porter

IUPHAR Nomenclature Report
International Union of Pharmacology. LXXXVII. Complement Peptide C5a, C4a, and C3a Receptors
Andreas Klos, Elisabeth Wende, Kathryn J. Wareham, and Peter N. Monk

Erratum

About the cover: Pairings between individual chemokine receptors and their chemokine ligands. Please see article by White et al. on page 47 of this issue.