

# PHARMACOLOGICAL REVIEWS

A Publication of the American Society for Pharmacology and Experimental Therapeutics

April 2015

Volume 67, Number 2

## IUPHAR Nomenclature Reports

- International Union of Basic and Clinical Pharmacology. XCIII. The Parathyroid Hormone Receptors—Family B G Protein-Coupled Receptors 310  
*Thomas J. Gardella and Jean-Pierre Vilardaga*

- International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Protein-Coupled Receptors 338  
*Jörg Hamann, Gabriela Aust, Demet Araç, Felix B. Engel, Caroline Formstone, Robert Fredriksson, Randy A. Hall, Breanne L. Harty, Christiane Kirchhoff, Barbara Knapp, Arunkumar Krishnan, Ines Liebscher, Hsi-Hsien Lin, David C. Martinelli, Kelly R. Monk, Miriam C. Peeters, Xianhua Piao, Simone Prömel, Torsten Schöneberg, Thue W. Schwartz, Kathleen Singer, Martin Stacey, Yuri A. Ushkaryov, Mario Vallon, Uwe Wolfrum, Mathew W. Wright, Lei Xu, Tobias Langenhan, and Helgi B. Schiöth*

- International Union of Basic and Clinical Pharmacology. XCV. Recent Advances in the Understanding of the Pharmacology and Biological Roles of Relaxin Family Peptide Receptors 1–4, the Receptors for Relaxin Family Peptides 389  
*Michelle L. Halls, Ross A. D. Bathgate, Steve W. Sutton, Thomas B. Dschiitzig, and Roger J. Summers*

- International Union of Basic and Clinical Pharmacology. XCVI. Pattern Recognition Receptors in Health and Disease 462  
*Clare E. Bryant, Selinda Orr, Brian Ferguson, Martyn F. Symmons, Joseph P. Boyle, and Tom P. Monie*

## Review Articles

- The Aryl Hydrocarbon Receptor in Barrier Organ Physiology, Immunology, and Toxicology 259  
*Charlotte Esser and Agneta Rannug*

- Cytokines as Therapeutic Targets in Rheumatoid Arthritis and Other Inflammatory Diseases 280  
*Stefan Siebert, Alexander Tsoukas, Jamie Robertson, and Iain McInnes*

- Stem Cell-Derived Nodal-Like Cardiomyocytes as a Novel Pharmacologic Tool: Insights from Sinoatrial Node Development and Function 368  
*Andrea Barbuti and Richard B. Robinson*

- The Great Escape; the Hallmarks of Resistance to Antiangiogenic Therapy 441  
*Judy R. van Beijnum, Patrycja Nowak-Sliwinska, Elisabeth J. M. Huijbers, Victor L. Thijssen, and Arjan W. Griffioen*

*About the cover:* Schematic summary of innate signalling pathway components and filaments. See the article by Bryant et al. ([dx.doi.org/10.1124/pr.114.009928](https://doi.org/10.1124/pr.114.009928)).