

PHARMACOLOGICAL REVIEWS

A Publication of the American Society for Pharmacology and Experimental Therapeutics

July 2021

Volume 73, Number 3

Review Articles

- ☐ The Emerging Role of the Innate Immune Response in Idiosyncratic Drug Reactions 861
Samantha Christine Sernoskie, Alison Jee, and Jack Paul Uetrecht
- Unlocking G-Quadruplexes as Antiviral Targets 897
Ardavan Abiri, Marc Lavigne, Masoud Rezaei, Sanaz Nikzad, Peyman Zare, Jean-Louis Mergny, and Hamid-Reza Rahimi
- Endothelial Dysfunction in Atherosclerotic Cardiovascular Diseases and Beyond: From Mechanism to Pharmacotherapies 924
Suowen Xu, Iqra Ilyas, Peter J. Little, Hong Li, Danielle Kamato, Xueying Zheng, Sihui Luo, Zhuoming Li, Peiqing Liu, Jihong Han, Ian C. Harding, Eno E. Ebong, Scott J. Cameron, Alastair G. Stewart, and Jianping Weng
- Pharmacological Inhibition of the Nod-Like Receptor Family Pyrin Domain Containing 3 Inflammasome with MCC950 968
Sarah E. Corcoran, Reena Halai, and Matthew A. Cooper
- New Aspects of Diabetes Research and Therapeutic Development 1001
Leslie S. Satin, Scott A. Soleimanpour, and Emily M. Walker
- ☐ The Molecular Biology of Phosphodiesterase 4 Enzymes as Pharmacological Targets: An Interplay of Isoforms, Conformational States, and Inhibitors 1016
Dean Paes, Melissa Schepers, Ben Rombaut, Daniel van den Hove, Tim Vanmierlo, and Jos Prickaerts
- Animal Models of Drug Relapse and Craving after Voluntary Abstinence: A Review 1050
Ida Fredriksson, Marco Venniro, David J. Reiner, Jonathan J. Chow, Jennifer M. Bossert, and Yavin Shaham
- Aiding and Abetting Anhedonia: Impact of Inflammation on the Brain and Pharmacological Implications 1084
Michael J. Lucido, Mandy Bekhbat, David R. Goldsmith, Michael T. Treadway, Ebrahim Haroon, Jennifer C. Felger, and Andrew H. Miller
- Therapeutic Targeting of $\alpha 7$ Nicotinic Acetylcholine Receptors 1118
Roger L. Papke, and Nicole A. Horenstein
- Aldo-Keto Reductases and Cancer Drug Resistance 1150
Trevor M. Penning, Sravan Jonnalagadda, Paul C. Trippier, and Tea Lanišnik Rižner

About the cover: Four main potential applications of G4s in antiviral research. See the article by Abiri et al. ([dx.doi.org/10.1124/pharmrev.120.000230](https://doi.org/10.1124/pharmrev.120.000230)).