

# PHARMACOLOGICAL REVIEWS

A Publication of the American Society for Pharmacology and Experimental Therapeutics

May 2023

Volume 75, Number 3

## Review Articles

- G Protein-Coupled Receptor Pharmacology—Insights from Mass Spectrometry 397  
*Hsin-Yung Yen, Ali Jazayeri, and Carol V. Robinson*
- Turn On, Tune In, Turnover! Target Biology Impacts In Vivo Potency, Efficacy, and Clearance 416  
*Johan Gabrielsson and Stephan Hjorth*
- Time to Change: A Systems Pharmacology Approach to Disentangle Mechanisms of Drug-Induced Mitochondrial Toxicity 463  
*Charlotte A. Hoogstraten, Jonathan J. Lyon, Jan A.M. Smeitink, Frans G.M. Russel, and Tom J.J. Schirris*
- Pharmacological Inhibition of the NLRP3 Inflammasome: Structure, Molecular Activation, and Inhibitor-NLRP3 Interaction 487  
*Qiang Ma*
- Sulfotransferase 2B1b, Sterol Sulfonation, and Disease 521  
*Ian Cook and Thomas S. Leyh*
- Understanding the Neural Mechanisms of General Anesthesia from Interaction with Sleep–Wake State: A Decade of Discovery 532  
*Wei-Wei Bao, Shan Jiang, Wei-Min Qu, Wen-Xian Li, Chang-Hong Miao, and Zhi-Li Huang*

Supplemental material is available online at <http://pharmrev.aspetjournals.org>.

*About the cover:* “Binding of MCC950 and analog inhibitor in human NLRP3 and NLRP3 NACHT.” See the article by Ma ([dx.doi.org/10.1124/pharmrev.122.000629](https://doi.org/10.1124/pharmrev.122.000629)).