

## Book Review of Annual Review of Pharmacology and Toxicology. Volume 51

**Annual Review of Pharmacology and Toxicology. Volume 51.** Edited by Arthur K. Cho. Annual Reviews Inc., Palo Alto, CA. 2011. x + 437 pp. 19 × 24 cm. ISBN 978-0-8243-0451-5. \$86.00.

The first chapter of this volume is a nice summation entitled "A 40-Year Journey in Search of Selective Antiviral Chemotherapy". A variety of topics is covered in 17 additional reviews written by experts in the respective fields. These reviews cover a broad range of individual topics in pharmacology and toxicology. Each review will be of value to medicinal chemists working in the scientific fields directly related to the review topic. Select reviews that address topics most closely related to aspects of drug design/discovery and are therefore likely to be of more direct interest to medicinal chemists and other scientists involved in drug discovery include the following chapters: (1) A 40-Year Journey in Search of Selective Antiviral Chemotherapy; (2) microRNAs: Master Regulators as Potential Therapeutics in Cancer; (3) Physiologically Based Pharmacokinetics in Drug Development and Regulatory Science; (4) Strategies To Discover Unexpected Targets for Drugs Active at G Protein-Coupled Receptors; (5) Bioactivation of Drugs: Risk and Drug Design; (6) Modulation of Monoamine Receptors by Adaptor Proteins and Lipid Rafts: Role in Some Effects of Centrally Acting Drugs and Therapeutic Agents; (7) Orexin Receptors: Pharmacology and Therapeutic Opportunities; (8) Drugging the Cancer Stem Cell Compartment: Lessons Learned from the Hedgehog and Wnt Signal Transduction Pathways; (9) Mechanisms of the Anti-Cancer and Anti-Inflammatory Actions of Vitamin D; (10) Mechanisms of Monoclonal Antibody–Drug Interactions; (11) Curing HIV: Pharmacologic Approaches to Target HIV-1 Latency.

All reviews are generally complete and informative. The subject index is thorough. Citations for most reviews in the text are substantial and up to date. The present volume of this annual review is a welcome addition to this long-standing series, providing succinct summaries of advances in pharmacology and toxicology. This book, as well as additional series of *Annual Reviews* topics, is located online at [www.annualreviews.org](http://www.annualreviews.org).

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