Table of Contents

Section I: Central Nervous System Diseases - ROBICHAUD

1. Voltage-Gated Calcium Channel Antagonists for the Central Nervous System
   James C. Barrow and Joseph L. Duffy

2. Recent Developments in Glycine Transporter-1 Inhibitors
   Christopher L. Cioffi, Shuang Liu and Mark A. Wolf

3. Modulators of Transient Receptor Potential Ion Channels
   Rajagopal Bakthavatchalam and S. David Kimball

4. Defining Neuropharmacokinetic Parameters in CNS Drug Discovery to Determine Cross-species Pharmacologic Exposure-Response Relationships
   Christopher L. Shaffer

Section II: Cardiovascular and Metabolic Diseases - STAMFORD

5. High Affinity Niacin Receptor GPR109A Agonists
   Hong C. Shen and Steven L. Colletti

6. Recent Advances in Acetyl CoA Carboxylase (ACC) Inhibitors
   Matthew P. Bourbeau, John G. Allen, and Wei Gu

7. Enzymatic Targets in the Triglyceride Synthesis Pathway
   Dmitry O. Koltun and Jeff Zablocki

8. Inhibitors of HIF Prolyl Hydroxylases
   Michael H. Rabinowitz, Terrance D. Barrett, Mark D. Rosen, Hariharan Venkatesan

Section III: Inflammation / Pulmonary / GI - BARRISH/Weinstein

9. Opioid Receptor Antagonists for Gastrointestinal Dysfunction
   R. William Hipkin and Roland E. Dolle

10. CFTR Modulators for the Treatment of Cystic Fibrosis
    Sabine Hadida, Frederick Van Goor and Peter D. J. Grootenhuis

11. Targeting B-cells in inflammatory disease
    Kevin S. Currie

12. Modulators of Toll-Like Receptor (TLR) Signaling
    Mark Spyvee, Lynn Hawkins, and Sally Ishizaka

Section IV: Oncology - McAlpine

13. Janus Kinase 2 (JAK2) inhibitors for the treatment of myeloproliferative neoplasm (MPN)
    Ashok V. Purandare, Matthew V. Lorenzi and Louis J. Lombardo

14. Development of poly(ADP-ribose)polymerase (PARP) inhibitors in oncology
    Philip Jones
15. Epigenetic Targets and Cancer Drug Discovery
   Patrick M. Woster, Ph.D
   Section V: Infectious Diseases - Primeau

16. HIV-1 Integrase Strand Transfer Inhibitors
   Brian A. Johns

17. Recent Advances in Drug Discovery for Neglected Tropical Diseases Caused by Infective Kinetoplastid Parasites
   Robert T. Jacobs and Charles Ding

18. Recent Advances in the Inhibition of Bacterial Fatty Acid Biosynthesis
   Vincent Gerusz
   Section VI: Topics in Biology - LOWE

19. Back to the Plaque: Emerging Studies That Re-Focus Attention on the Neuritic Plaque in Alzheimerâ€™s Disease
   Dr. Robert B. Nelson

20. Targeting Methyl Lysine
   Stephen V. Frye, Tom Heightman and Jian Jin

21. Chemical Proteomic Technologies for Drug Target Identification
   Kieran F. Geoghegan and Douglas S. Johnson
   Section VII: Topics in Drug Design and Discovery - DESAI

22. NIH Translational Programs for Assisting Pre-Clinical Drug Discovery and Development
   Raj N. Misra
   Section VII: Topics in Drug Design and Discovery - DESAI

23. Role of Physicochemical Properties and Lipophilic Ligand Efficiency (LipE or LLE) in addressing Drug Safety Risks
   Martin P. Edwards and David A. Price

   Paul D. Leeson and James R. Empfield

25. Compound Collection Enhancement and Paradigms for High Throughput Screening - an Update
   Stevan W Djuric, Irini Akritopoulou-Zanze, Philip B Cox and Scott Galasinski

26. The Role of Fluorine in the Discovery and Optimization of CNS Agents: Modulation of Drug-Like Properties
   Kevin J. Hodgetts, Kerry J. Combs, Amy M. Elder and Geraldine C. Harriman

   Charles J. Andres, Jr. and Richard L. Treanor
   Section VIII: Trends and Perspectives

28. To Market, To Market - 2009
   Shridhar Hegde and Michelle Schmidt