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NeuroPillars: Foundations and Frontiers in Neuropharmacology and Pharmaceutics



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Call for Chapters

NeuroPillars: Foundations and Frontiers in Neuropharmacology and Pharmaceutics

Aims and Scope:

The aim of the book "NeuroPillars" is to provide a comprehensive and insightful exploration of the multifaceted landscape of neuropharmacology and pharmaceutics. This book seeks to establish a robust foundation while simultaneously pushing the frontiers of knowledge in these critical fields. Through a synthesis of established principles and cutting-edge research, NeuroPillars aims to serve as an authoritative resource for scholars, researchers, and practitioners involved in unraveling the complexities of neuropharmacology and advancing pharmaceutical solutions for neurological disorders.

Foundational Principles: An in-depth look at the essential concepts of neuropharmacology, focusing on molecular, cellular, and systemic aspects of drug action in the nervous system.

Current Advances: Coverage of the latest developments in neuropharmacology, highlighting recent breakthroughs, emerging technologies, and new therapeutic approaches.

Interdisciplinary Perspectives: A holistic approach that combines insights from pharmacology, neuroscience, and pharmaceutics, fostering an integrated understanding of neuro pharmaceutical interventions.

Clinical Applications: Examination of how neuropharmacological research translates into clinical practice, featuring case studies and discussions on applying research findings to treat neurological conditions.

Emerging Technologies: Exploration of advanced technologies like AI, nanotechnology, and precision medicine in neuropharmacological research and drug development.

Global Perspectives: A comprehensive view incorporating international expert insights, emphasizing cross-cultural collaboration and understanding in neuropharmacology and pharmaceutics.

In essence, "NeuroPillars" is envisioned as a scholarly work that not only elucidates the foundational principles of neuropharmacology but also serves as a beacon guiding researchers and practitioners toward the frontiers of innovation, ultimately contributing to the advancement of neurological therapeutics and the improvement of patient outcomes.

Book Content Outline:

•Introduction to Neuropharmacology and Pharmaceutics

Understanding the Basics of Neuropharmacology.
The Journey of Brain-Targeted Drug Development.

Embracing an Interdisciplinary Approach.

• Essentials of Neuropharmacology

Exploring the Neuronal Landscape.

The Role of Neurotransmitters.

Drug-Receptor Dynamics and Signaling.

• Principles of Pharmaceutics

The Foundation of Drug Formulation.

Innovations in Drug Delivery Systems.

An Overview of Pharmacokinetics.

• Advanced Strategies in CNS Drug Delivery

Navigating the Blood-Brain Barrier.

Nanotechnology in CNS Drug Delivery.

Designing Targeted and Sustained Release Systems.

• Therapeutic Agents and Their Clinical Applications

Psychotropic Drugs: Understanding their Impact

Addressing Neurodegenerative Diseases

New Developments in Epilepsy and Pain Management

•Ethical and Regulatory Considerations in Neuro-Pharmaceutics

• Navigating Ethical and Regulatory Challenges

• The Future of Neuropharmacology and Pharmaceutics

•Conclusion: The Future of Integrated Neuropharmacology

• 7.1 Integrating Insights for Improved Outcomes

• 7.2 Looking Forward in

Neuro-Pharmaceutical Research

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