Neuroprotective Natural Products: Clinical Aspects and Mode of Action

Goutam Brahmachari (Editor)

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DESCRIPTION

Focusing on the molecular mechanisms of powerful naturally occurring agents and their implication for drug discovery, this timely book presents an overview of the most recent research advances in the field of bioactive natural products and natural drug formulations to combat today's destructive diseases.

To this extent, the authors discuss the most severe neurological disorders in our modern civilization, such as Alzheimer's, Parkinson's and Huntington's disease, as well as ischemic brain stroke and depression. The emerging diversity of active compounds is covered in detail, including flavonoids, cannabinoids and oleanolic acid, while experts in the field explain the chemistry, mode of action and clinical aspects of novel neuroprotective natural products. In each case, the benefits of treatments using natural products are addressed from the perspective of modern as well as traditional medicine.

With its multidisciplinary viewpoint, this is the ideal companion for medicinal and natural products chemists as well as neuroscientists, biochemists, pharmacologists, neurobiologists, and phytotherapists.

ABOUT THE AUTHOR

After receiving his Ph.D. in 1997 at Visva-Bharati University (India), Goutam Brahmachari joined his alma mater and currently holds the position of a full professor of chemistry since 2011. Research interests of his group include green chemistry, organic synthesis and medicinal chemistry of natural products, as well as artificial compounds. With more than 18 years of experience in
both teaching and research, he has produced nearly 160 scientific publications including original research papers, review articles, books and invited book chapters in the fields of natural products and green chemistry. He has authored/edited 18 books and more than 30 book chapters so far published by internationally reputed major presses. He is the Series Editor of the Book Series 'Natural Product Drug Discovery'.

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