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Role of Natural Agents in Neurochemical Interactions

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Since the inception of civilization humankind in depended on natural resources for healthy living and for the treatment of various diseases. This is due to lesser or minimal side effects and a better rate of therapeutic activity. More than 3000, species are available and out of which near about 750 species are explored for their scientific therapy. These medicinal plants are used in treatments for obesity, autoimmune disorders, and Neurological disorders which affect the Nervous system, cardiovascular system, etc. The usage is more in Asian countries and widespread in African regions. As there are many active constituents in plant extracts the potential ones are more focussing on the receptors like G-PCR and ion Channel receptors for their action as they are considered as the potent triggers in Central Nervous System (CNS) and are known as neurotransmitters. They mainly regulate the brain and are useful in the identification of many diseases. The active constituents serve as secondary metabolites and possess synergistic effects when they are in the biological system. Certain metabolites like carotenoids, polyphenols, terpenes, coumarins, etc. have found its importance in treating many diseases of CNS. Hence, the usage of newer tools like molecular biology, proteomics, and genomics will help us to target the site and will be a beneficial tool, in the identification of disease. Thus, this article will cover a combination blend of natural compounds and the biological system for efficient neurochemical Interaction.

Recent Publications

1. Chakraborty, Baduja & Pardeshi Analgesic activity of chloroform extract of *Caesalpinia pulcherrima*. Journal of Pharmacy Research 2009 Vol.2 No.7
2. Guno Sindhu Chakraborty, Vijay Singh, Lalit Kumar & Rohan Bhadgajar Antiinflammatory and antinociceptive activity of hydroalcoholic extract of *Mirabilis jalapa* and *Mirabilis japonica* Oriental Pharmacy and Experimental Medicine volume 12, pages177–180 (2012).

Biography

G. S. Chakraborty completed his Ph.D. in the field of Pharmacognosy and Phytochemistry from Jamia Hamdard in the year 2008. He has a total of 16 years of experience in the field of Teaching, Research, and academic administration. He has taught a number of subjects in Pharmacy at UG and PG levels. He has guided 05 Ph.D. Research Scholars, 42 PG dissertations, and 16 projects at the Undergraduate level, and to this 3 are under the process of guiding, He has been awarded by various organizations for his research and outstanding performance in the field of pharmacy. To his credit, he has published several papers in various International Journals and conferences of high repute, including Taylor and Francis, Elsevier, Index Copernicus, etc. He has worked as a member of Syllabus Review Committee at various University levels for IFTM and Mahamaya Technical University. Session chaired at international conferences and an active member in various technical events organized at college and university levels. Dr. Chakraborty had also delivered expert talks in the field of Clinical Pharmacy, Pharmacognosy, and Pharmacology. He has been awarded AICER from the International Congress of Environmental Research.

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