



**Dr. PANDAREESH M.D.** *M.Sc., PGDND., Ph.D.*

**OSD to Hon'ble Pro-Vice Chancellor, Co-ordinator (Research),  
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Dr. M.D. Pandareesh is a highly accomplished researcher with a Ph.D. in Biochemistry from the Defence Food Research Laboratory (DFRL), Mysuru. Following the completion of his doctoral degree, he embarked on a Post-Doctoral Fellowship at the esteemed National Institute of Mental Health and Neurosciences (NIMHANS) in Bangalore. In 2016, Dr. Pandareesh further expanded his research experience by joining the New York State Institute for Basic Research in Developmental Disabilities on Staten Island, New York as a Post-Doctoral Fellow.

Dr. M.D. Pandareesh's research is primarily focused on investigating the cognitive-enhancing and neuroprotective effects of bioactive molecules against impairments induced by reactive oxygen and nitrogen species. His investigations involve both *in vitro* experimentations using cell lines and *in vivo* studies utilizing animal models such as mice, rats, rabbits, and *Drosophila*. Currently, his research endeavours center around the characterization, pharmacokinetics, and pharmacodynamics of bio-conjugated pro-drugs derived from natural compounds. These pro-drugs hold promising potential in treating Alzheimer's and Parkinson's diseases. Additionally, Dr. Pandareesh is dedicated to understanding the cellular and behavioral factors contributing to synaptic plasticity in different brain regions, with implications for stress-related disorders. He aims to uncover the molecular mechanisms of neurological disorders, particularly focusing on signaling pathways. Through this research, he seeks to identify potential therapeutic approaches and contribute to the development of innovative treatments for these disorders. Moreover, his studies delve into the comprehension of mitochondrial aberrations, epigenetic modifications, and post-translational changes in neuronal disorders.

Dr. Pandareesh has an impressive publication record, with 22 research articles in peer reviewed International Journals to his credit, 12 of which he is the lead author. His publications have garnered recognition, as evidenced by his *h*-index of 15. Furthermore, he currently has five articles in the pipeline through collaborations with various renowned universities and institutes, both National and International. Dr. Pandareesh has received noteworthy research funding, including an Extramural Research Grant of ₹29.5 Lakhs from the Central Board of Sericulture, Gol, and two Intramural Research Grants.

As an experienced mentor, Dr. Pandareesh has trained over 25 individuals in mammalian cell culture, analytical techniques, and molecular biology methods. The impact of his guidance is evident in the achievements of two candidates who successfully pursued Post-Doctoral Fellowships at Louisiana State University, USA, and two students currently engaged in Ph.D. research at Illinois State University, USA, and Douglas Mental Health University Institute, McGill University, Canada.

Dr. Pandareesh possesses expertise in *Drosophila* culturing and animal studies (including transgenic models). Presently, he holds multiple roles at Adichunchanagiri University, serving as the Co-ordinator (Research) and Assistant Professor, Department of Biochemistry, Adichunchanagiri School of Natural Sciences and actively involved in the establishment of World Class Research laboratories at ACU. Further cementing his commitment to education and research excellence, he has been serving as Guest Editor in International Peer Reviewed Journals. Also, he has collaborations with reputed laboratories both in India and Overseas. Dr. Pandareesh was a member of International Society of Neurochemistry and a Life-time Member of Indian Science Congress Association (ISCA).