



Title: Novel targets to neurological disorder- Alzheimer’s disease

Sumithra Mohan

Department of Pharmacology, SRM College of Pharmacy,
SRM Institute of Science and Technology, Kattankulathur, Kancheepuram – 603 203,
Tamil Nadu, India.

Neuropharmacology is a scientific study focused on the action of drugs used for psychiatric and neurodegenerative diseases. Neurological diseases occurs due to imbalance in molecular mechanism due to electrical and chemical signaling disturbance. The primary focus on neuropharmacological research is to develop novel targets to treat neurological disorders like schizophrenia, Parkinson's disease, epilepsy and hungintons disease. The prevalence of this disease varies from different regions of the country with a mean of 2394 per 1000000 population provided with rough estimation of 30 million people worldwide. Among the diseases, Alzheimer's and Parkinson's disease remains as great challenge in drug discovery.

Alzheimer's disease is a neurodegenerative age related disease affecting the memory and disturbs visuospatial skills. Its hallmark includes hyperphosphorylation, glial activation, neurofibrillary tangles and amyloid plaques. Nowadays low educational status, occupational stress and inflammation leads to dementia and finally results in Alzheimer’s disease. On the other hand, genetic predisposition, long period uncontrolled cardiovascular disease, diabetes mellitus and dyslipidemia also promotes amyloid precursor protein formation resulting in Alzheimer's. Currently available drugs used for symptomatic relief but the etiology not cured. Novel approaches targeted to cure the etiology. Also the US FDA has approved few category of drugs which prevents beta-amyloid plaques and also hyperphosphorylation of proteins. The aim of this presentation is to highlight the current targets of this diseases and expected outcomes

Biography

Dr. M. Sumithra , currently working as Associate Professor in SRM College of Pharmacy, SRMIST and has totally 12 years of teaching experience. Her Ph.D work focused on neuropharmacology with her specialization in Pharmacology. She has exposure on Alzheimer's disease, cancer studies and also perusing toxicological studies for formulations and phytomolecules. To her credit, she has presented papers in national and international conference and awarded Prize in AICTE sponsored National seminar and also awarded cash prize for PG research work. She has published 27 research and review articles in reputed National and International Journals. She has guided 10 UG projects and 8 PG projects.

Presenting author details

- **Full name : Dr. SUMITHRA MOHAN**
- **Contact number : (91)- 9790136139**
- **E. Mail : sumi26379@gmail.com**

- **Session name/ number : Pharmacology & Toxicology/ Session 2**
- **Category (Oral presentation/ Poster presentation) : As Speaker (Oral presentation)**