**Dr Subasree Ramakrishnan**

**Personal Statement**

Currently working the National Institute of Mental Health and Neurosciences as an Additional Professor in the department of Neurology, my areas of research interests are Behavioral and cognitive neurology, Dementia, stroke, Cerebral venous thrombosis, Non -invasive Brain computer interfaces and their clinical applications.

I have more than 12 years’ experience in working in cognitive neurology and have expertise in managing young onset dementias, reversible dementias, Normal pressure hydrocephalus, the crossroads of stroke and cognition, genetically mediated dementias and Neurodegenerative dementias like Alzheimer and Frontotemporal dementia and have been involved in diagnosis, management, counselling, research, care and follow up of dementia subjects. I have experience in working on Genetics on Dementia and also cognitive games/rehabilitation using brain computer interfaces. I have also guided and co guided more than 15 DM Neurology residents and have been part of cognitive neurology awareness and educational programs, public talks etc.

**Research Support: Key projects as Principal Investigator/Co Investigator**

|  |  |  |
| --- | --- | --- |
| Short title of the project | Type of study (e.g. RCT/ Prevalence/Lab-based) | Funding agency |
| Neural Basis of cognitive reserve: Role of bilingualism and education  | CO-PI | DST CSRI |
| Determining prevalence and incidence, risk factors and protective factors in Dementia in India-A multicentre study Ongoing | CO-PI | DBT INclen |
| Intrinsic Trial - Indian Trial Of Tranexamic Acid In Spontaneous Intracerebral Haemorrhage | CO-PI | ICMR |
| “Mobile Medical Application based Post Stroke care Strategy (MOBILITY) for survivors andtheir caregivers: A Randomized Controlled Trial” | CO-PI | ICMR |
| "STENOSIS: Long-term Single versus Dual AntiplateletTherapy In Patients With Intracranial AtheroscleroticDisease: A Randomized Trial" | CO-PI | ICMR |
| Imaging Pattern Recognition and Genetic Profile as biomarkers in patients with Frontotemporal Dementia (FTD)/FTD Overlap syndromes and Early Onset Alzheimer’ s dementia in the Indian Context | PI | DST CSRI |
| A Multimodal Brain- Machine Interface-based Neuro-enhancement System for Retarding the Decline of Cognitive and Motor Functions in the Early-stages of Dementia, Stroke and Parkinson’s Disease patients | CO-PI | DST CSRI |
| Motor Imagery based Brain Computer Interface for Neurorehabilitation of Stroke patients | PI | INIDAN STROKE ASSOCIATION |
| Machine Learning based Disorder of consciousness classification using scalp EEG -NIMHANS  | PI | IIT Kottayam  |
| EEG based Brain Computer Interface in Chronic stroke survivors for upper limb rehabilitation- A Pilot study using Motor execution and Motor Imagery | PI | Part of Fulbright Nehru FellowshipUniversity of Houston |
| Gait training with Exoskeletal Robot in patients with incomplete spinal cord injury and its effect on locomotion: A Prospective Pre-post study. for 3 years  | CO-PI | MINROE IITB |
| P300 Based BCI in neurological disorders: a feasibility study | PI | SSN College Chennai |
| Decoding speech imagery in stroke aphasia using consumer grade EEG | PI | ICMR SG |
| Design and psychometric evaluation of a Novel sensor based Functional assessment tool for post stroke hand rehabilitation monitoring | PI | IISC |
| Closed loop motor imagery based brain computer interface using sensorimotor rhythm and error related potential for neurorehabilitation of stroke patients | PI | ICMR SG |

**Key Affiliations to Professional Organisations and Committees**

Life Member of NSI

Life Member of IAN

Life Member of Indian stroke association

Member of BCI international society

Life member of Neurosonology society India

Principal Member LITD/BCI ISO

Treasurer ACIAN trust

Reviewer to Frontiers Neurorobotics, Alzhiemer dementia, PLOS, JINS, Genetics etc