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Educational Qualification: M. Pharm (Pharmacology)

Year of Registration: 2018

Project Supervisors: Dr. Praveen T K, Professor & Head (Department of Pharmacology)

Research Abstract: α -synuclein (SNCA) protein, a major component of Lewy body is a neuropathological hallmarks of Parkinson's disease (PD). Mutations in SNCA protein causes misfolding and/or aggregation results in autosomal dominant familial PD and PD-like syndromes. Studies revealed the neuroprotective benefits of β 2-adrenoreceptor (β 2AR) agonists in PD. However, it is reported that due to activation of β 2AR in the peripheral tissues several side effects like cardiovascular disease can be exacerbated. The blood-brain barrier (BBB) has been a formidable obstacle for brain drug delivery in neuro-disorders. Therefore, it necessitates for developing a novel drug delivery system to achieve site specific delivery of β 2AR agonists to brain. Thus, my research is focused in developing surface tailored Solid Lipid Nanoparticles (SLNs) loaded with β 2AR agonists which may achieve better therapeutic efficacy with minimal peripheral side effects, in the management of PD.

Fellowships: NIL

Awards & Scholarships:

- Received Scholarship from Dept. of Higher & Technical Education, Government of Nagaland in HSLC and HSSLC.
- Received Scholarship from Dept. of Health and Family Welfare, Government of Nagaland during D.Pharm.
- Received Merit-cum-Means Scholarship for Professional and Technical Courses-CS granted by National Scholarship Portal during B.Pharm and M.Pharm.
- First Rank in M.Pharm, Dept. of Pharmacology, Sikkim University.
- Received Gold Medal in D.Pharm from Shantital Shah Pharmacy Institute - Gujarat Technological University.

Way Forward:

The five years I see ahead of me, progressing in research and development in neurosciences, and to work in academia utilizing my skills and experiences.