

- ❖ **Name & Designation** : Dr. Sarat Chandra Yeniseti, Associate Professor
- ❖ **Address** : Dept. of Zoology, Nagaland University, Lumami-798627
- ❖ **Name of the International Conference/ Seminar/Symposium/ Workshop** : Neurodegenerative Diseases: Biology and Therapeutics-2014.
- ❖ **Title of the abstract accepted** : Neuroprotective efficacy of curcumin in drosophila model of idiopathic parkinson's disease is phase specific: Implication of therapeutic efficiency
- ❖ **Venue & Date** : New York, USA, 3-6th December 2014.
- ❖ **Money sanctioned** : ₹ 1,00,000/-
- ❖ **Money reimbursed** : ₹ 95,615/-

Participation Report

Organization of Training/workshop: No. of participating countries, No. of sessions etc. (not more than 100 words):

Scientists from fourteen (14) countries (USA, France, Israel, India, Germany, United Kingdom, Belgium, Japan, South Korea, Czech republic, Australia, Switzerland, Newzealand and Sweden) participated in the meeting.

Number of sessions were nine (9). They are: 1) Prion-like Neurodegeneration: Initiation and Disease Spread 2) Alzheimer's Disease/Parkinson's Disease Pathology 3) TDP43/C9orf72-RNA Metabolism in Neurodegenerative Diseases 4) Poster Session and Wine & Cheese Party 5) Submitted Abstracts 6) Neurons and Glia: Therapeutic Opportunities 7) Neurons and Glial Models 8) Submitted Abstracts 9) Gene Inactivation and Protein Lowering Strategies

Academic highlights of the training/conference/workshop, including major recommendation and the followings:

i) New development presented at the meeting/training/workshop:
Relating to Parkinson's disease following developments presented are worth noting:
Inactivation of *Parkin* in idiopathic Parkinson's disease (PD) due to oxidative and nitrosative stress and also its inactivation and accumulation of its substrates, AIMP2 and PARIS in alpha-synuclein pathology highlights the intersection of genetic and idiopathic PD.

Author: Ted M. Dawson, The Johns Hopkins University School of Medicine, Baltimore, USA.

Ablation of senescent astrocytes rescues neuropathy associated with sporadic Parkinson's disease. This observation throws light on the role of cellular senescence in the aging brain and neurodegeneration.

Author: Shankar Chinta, Buck Institute of Research on Aging, Neurosciences, Novato, CA, USA.

ii) New development resulting from the training/meeting/workshop (200 words):

It is exciting to interact with leaders in biomedical research related to Parkinson's disease like Dr. Ted Dawson. I discussed our work with him and further explored the possibility of collaboration with his laboratory at John's Hopkins University School of Medicine. He appreciated our work and also mentioned that he would try to offer me a short term scholarship, so that I can work in his laboratory which may lead to continued collaboration between our laboratories on my return.

I could interact with Dr. Glenn Turner of CSHL, who is one of the authorities on *Drosophila* learning and memory. I could learn from Dr. Glenn, simple assays to quantify olfactory defects in *Drosophila*, which I am planning to utilize in our work here in Nagaland.

iii) Name of the publication in case your work is recommended for publication:
None

8. Participant's contribution to the meeting/training/workshop (100 words):
I presented the findings relating to curcumin's limitation as a therapeutic molecule in late onset neurodegenerative disorders like Parkinson's disease (PD). Scientists working on PD models, appreciated the work as it is important to understand if genetic targets are available for a genotropic drug at the phase when it is suppose to protect dopaminergic neurons.

Title: Neuroprotective Efficacy of Curcumin in *Drosophila* Model of Idiopathic Parkinson's Disease is Phase Specific: Implication of Therapeutic Efficiency (Poster no. 92)

9. Visa page
(Enclosed)