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(DST-Inspire Fellow)
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Reddy District-500078 (A.P.)
- ❖ Name of the International Conference/
Seminar/Symposium/Workshop : 11th European Congress on Epileptology 2014.
- ❖ Title of the abstract accepted : Structure based drug design, synthesis and
screening of adenosine A2A antagonists as
novel antiepileptic drugs.
- ❖ Date & Venue : 29th June-3rd July 2014. Stockholm, Sweden.
- ❖ Money sanctioned : Rs 97,936/-
- ❖ Money reimbursed : Rs 59,059/-

Participation Report

a. Organization of Training/Workshop (No of participating Countries, No. of Sessions etc,
(Not more than 100 words)

The ILAE's 11th European Congress on Epileptology (ECE), in Stockholm was an exclusive, conference on epilepsy. The programme covered cutting-edge research in the field of epilepsy through presentations from the key opinion leaders in the field, including lectures by world-renowned scientists on topics at the interfaces of epilepsy. Diverse participants and Scientists from various countries were attended the conference. Nearly participants from 30 countries all over the world were participated. The conference was scheduled in more than 24 sessions to bring out all possible research areas and its findings. A total of 350 Oral presentations and 749 posters were presented during the different sessions of the conference.

b. Academic highlights of the conference, including major recommendations and the following:

i. New developments presented at the conference:

I delivered my oral presentation on "Structure based drug design, synthesis and screening of adenosine A2A antagonists as novel anti epileptic drugs". The main focus was to develop a novel adenosine modulator (A2A antagonist) in the treatment of epilepsy with less or no adverse effects. My talk emphasised on energy based pharmacophore drug design of A2A antagonist and *in vivo* screening of the in-silico designed compounds in an adult zebrafish model (Behavioural studied).

ii. New development resulting from the conference (200 words):

Many groups were working on Lacosamide, a drug useful in partial seizures. Some of them presented the case study data and unpublished results which gave me broad perspective in the area of epilepsy research. The special symposium of this conference explored a number of important aspects of prevention, ranging from prevention of the development of epilepsy to prevention of the devastating consequences of epilepsy and its treatment. The lectures delivered by eminent scientists were interesting and informative. Scientists from different corners of the world shared their research experience and ideas with participants. The scientific sessions of the conference highlighted the latest developments in understanding the mechanisms of epilepsy and the state-of-the-art approaches that are available to improve diagnosis and management. The programme covered all aspects of epileptology, but 4 of them have been selected. They are basic science, epilepsy surgery, pharmacotherapy and paediatric epileptology. Teaching sessions of the conference included seminars based on "What not to do in epileptology", a series of sessions dedicated to clinicians with topics of basic research and also interactive sessions on seizure semiology. In ECE Forums of the conference they selected some interesting topics and discussed in an informal workshop or clubroom style. The teaching sessions of the conference covers the basic mechanisms of actions of antiepileptic drugs and pharmacokinetics to pharmacological treatment in different clinical settings. There was a course for EEG technicians, in that they discussed more advanced EEG techniques, analysis and monitoring strategies within the diagnostic and preoperative epilepsy programmes.

iii. Name of the publication in case your work is recommended for publications: NA

8. Participant's contribution to the Training/Workshops (100 words)

11th ECE provides a common meeting ground for scientists working in the area of epilepsy. I got an opportunity to meet colleagues and friends from all over the world, exchange ideas and establish fruitful collaborations. I presented my work in the form of oral presentation followed by a discussion session of about 5 mins and my study was appreciated by the session moderators and other scientists. My research contribution in the field of epilepsy was very well received by eminent research scientists from academic and industries and was considered as novel platform for researchers in the field of epilepsy. I shared my experience of zebrafish behavioural studies and highlighted the protocols followed by us. Furthermore, 11th ECE provides me an opportunity to project my research to the peer scientists on an international platform. I am thankful to ICMR for providing me this opportunity.