



NIPER- Hyderabad

One day workshop on "Emerging Trends in Pharmaceutical Sciences" July 9, 2016



A workshop on "Emerging Trends in Pharmaceutical Sciences" was organized by NIPER-Hyderabad in association with Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India under "Make in India" program on February 9, 2016 at NIPER- Hyderabad campus, with the support of Dr. S. Chandrasekhar, Director, CSIR-IICT (mentor institute).

About NIPER – Hyderabad

National Institute of Pharmaceutical Education and Research (NIPER) is an autonomous body established under the aegis of Department of Pharmaceuticals (DoP), Ministry of Chemicals & Fertilizers as a Centre of Excellence for higher education, research and development in pharmaceutical sciences. The institute has been declared as an "Institute of National Importance" by Government of India through an Act of Parliament (NIPER Act 1998 & NIPER Amendment Act 2007). Indian Institute of Chemical Technology, Hyderabad, a reputed R&D institute under CSIR, was bestowed with the responsibility of Mentorship of NIPER-H.



The objective of this workshop was to provide a platform for hands on experience to the young pharmacy teachers in the areas of nanotechnology and analytical methodology. The workshop was designed to demonstrate the recent developments in analytical equipments and nanotechnology, and provide practical exposure through laboratory techniques.



After a brief welcome address by Prof Ch. Sanjeeva Reddy, Registrar, NIPER-H, the work shop was inaugurated by Dr. U.S.N. Murty, Project Director NIPER-H who briefed about NIPER-Hyderabad and various activities conducted at the campus. He highlighted the importance of hands on experience in developing and improving skill in young researchers and encouraged the delegates to actively participate in the workshop and initiate networking with NIPER faculties. He motivated the participants to focus research on rare/ neglected and tropical diseases.

Dr. Nalini Shastri, NIPER –H convener, elaborated the objectives of the workshop and mentioned that the workshop was targeted to young pharmacy teachers with a view to



give practical tips and hands on training in the area of emerging trends in pharmaceutical sciences. Later in her key note lecture on *Nanotechnology Potential and Pitfalls*, she reviewed special features of nanocrystals including challenges faced during formulation development. She also laid special emphasis on importance of drug candidate, stabilizer and preparation technique selections for successful formulation development.

The next speaker, Dr. S. Ganadhamu, NIPER –H delivered a talk on "Bioanalytical method development wherein sample preparation methods and challenges involved in bioanalysis was elaborated. The major portion of his presentation was focused on bioanalytical method development, validation and column selection criteria in successful method development.



Dr Ch. Naveen NIPER-H, delivered a talk on *Lipid nanoparticles practical consideration*. His presentation was on various challenges involved in formulation development of SLN and NLC, The impact of lipid selection was also elaborated. Finally, he summarized his talk by giving practical tips to the delegates from his personal experience in formulation development of SLN and NLC.

In the afternoon session, the delegates were given hands on session on HPLC and nanotechnology formulation development. Operation of various advanced equipments was also demonstrated to the participants. The closing ceremony was presided over by Prof. Ch. Sanjeeva Reddy, Registrar, who distributed the certificates to the delegates.



The responses from the participants were overwhelming. During the theory and training sessions, the delegates were very attentive. The participants expressed that it is a rare opportunity for them and the training given in this workshop is very informative, practical and effective. Delegates, Dr D. Bhaskar, Anjali Bakshi and Kiran T stated that they benefited a lot not only learning the basic concepts and advancements of nanotechnology, but also with hands-on experiments session. The faculty and staff members of NIPER-Hyderabad actively involved and made this workshop a successful event of NIPER-Hyderabad.

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