

Mangalore University
NAAC Accredited 'A' Grade
Department of Biosciences
(DST-FIST & UGC-SAP supported Department)
&
Royal Society of Chemistry (London) India Deccan Local Section

**National Seminar Lab to Clinic: Approaches and challenges in Drug
discovery, design and delivery**
23-24 February 2018, Mangalore University

Report

A two-day National Seminar on the theme "Lab to clinic: Approaches and Challenges in drug discovery, design and delivery" was held from 23-24 February 2018 at Mangalore University. This Seminar was jointly organized by the Department of Biosciences, Mangalore University, which is currently under the Govt. of India UGC's Special Assistance Program (SAP) and under the DST-Fund for Improvement of Science and Technology Infrastructure (FIST) and the Royal Society of Chemistry (London)'s India Deccan Local Section (RSC-IDLS). Over **225 Delegates and speakers** from the States of Karnataka, Tamil Nadu, Telangana, Andhra Pradesh, Maharashtra participated with invited talks, poster and oral presentations.

Inauguration

The Seminar was inaugurated on 23 February 2018 at Mangalore University by the Chief Guest, Dr. U. N. Das, Founder, UND Life sciences, Washington, USA. He spoke on how drug discovery today has enabled identification of new lead molecules and that such seminars are of importance, particularly for the youngsters in life sciences. **Prof. Peesapati, Secretary, Royal Society of Chemistry India Deccan Local Section and Joint Convener of the Seminar spoke. Mr. Rajesh Parishwad, External Affairs Officer, Royal Society of Chemistry, Bengaluru brought the message from Royal Society of Chemistry (London).** Prof. K. Byrappa presided over the inaugural function. Prof. Monika Sadananda, the Convener was present. Prof. Chandrakala Shenoy K., Coordinator, UGC-SAP Program, Department of Biosciences, Mangalore University delivered the vote of thanks. Dr. N. C. Tharavathy, Chairperson of the Department was present.





Day 1

The Keynote Address was delivered **Dr. U. N. Das, FAMS, FRSC, Founder, UND Lifesciences, USA & Adjunct Faculty, Mangalore University** on the topic **From lab to clinic: γ -linolenic acid therapy of glioma**, who spoke about the potential of PUFAs particularly GLA in the treatment of neuroblastoma or glioma. **Prof. Uday Maitra, FASc, FNA, Professor, Dept. of Organic Chemistry, Indian Institute of Science, Bengaluru** delivered an invited talk on the topic **Drug Design – is it really that easy?** wherein he highlighted regarding pharmacodynamics (PD), pharmacokinetics (PK), ADME, particularly regarding efficacy and toxicity of drugs, Lipinski's rule of five with a large number of examples, such as enzyme activity, glyphosate, β lactamase, carbidopa etc. This was followed by a lecture by **Dr. Bhavani S. Shankar, Head, Immunology Section, RB & HSD, BARC,**

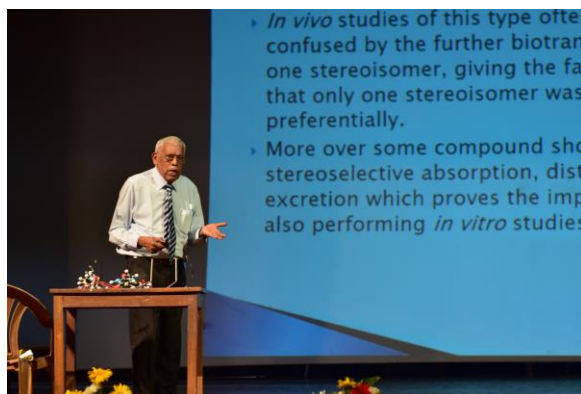
Mumbai who spoke on **Immunotherapeutic approaches in cancer: Prognosis and therapy**



During lunch we had the **Poster Symposium on "Recent trends and technologies in medicinal chemistry: towards medicines of the future"** where young investigators presented their posters.



During the Post lunch Session we had a talk by **Dr. V. Peesapati, FRSC, Rtd. Prof., Osmania Univ, JNTU and NIPER, Hyderabad and Secretary, RSC-IDLS** on **Why chiral drugs are important** wherein he spoke about enantiomers and demonstrated using beautiful examples how one is different from the other in function. This was followed by a talk by **Dr. V. Jayathirtha Rao, Emeritus Scientist, CPC Division, CSIR-Indian Institute of Chemical Technology, Hyderabad** who spoke on **Design, synthesis and biological evaluation of novel 2-pyridone derivatives as Phosphodiesterase3A Inhibitors**. Seven papers were also presented as Oral presentations.



Day 2

Dr. R. Srinivas, FRSC, Chief Scientist & Head, Mass & Analytical Division, CSIR-Indian Institute of Chemical Technology, Hyderabad spoke on the **Association of Vitamin D metabolites with diabetic complications** who spoke about various withdrawn drugs and showed results on how Vit D is found associated with coronary heart and diabetes. This was followed by a lecture by **Dr. Jayant Khandare, MAERR's Maharashtra Institute of Pharmacy, Pune** who spoke on **Cancer diagnostics as liquid biopsy: Lab to clinic** regarding start-ups in the field. This was followed by a talk by **Dr. Narasimha Rao K., Aurigene Discovery Technologies, Bengaluru** who spoke on **Small molecule drug discovery and development**



During lunch we had the **Poster Symposium on "Recent trends and technologies in medicinal chemistry: towards medicines of the future"** where young investigators continued the presentations of their posters.



In the post lunch session we had Oral presentations followed by a talk by **Dr. B. Kalluraya, Prof., Dept. of Chemistry, Mangalore University** on **Drug discovery and design**. The two-day national seminar came to a close with a Valedictory. Prof. Cletus D'Souza, Emeritus Professor, University of Mysore and Adjunct Faculty, Mangalore University was the Chief

Guest. The program was presided over by the Dean, Faculty of Science and Technology, Mangalore University, Prof. J. Ishwara Bhat.

