

G. Narahari Sastry

FNA, FASC, FNASC, FRSC, FBRSI, FABP, FAPAS, FTAS

Director

CSIR-North East Institute of Science and Technology

Jorhat, Assam, India



Dr. G. N. Sastry is currently heading the CSIR -NEIST and is leading a number of interdisciplinary, cross-disciplinary activities integrating natural science, engineering, health care with computational approaches. He has successfully guided 27 Ph. D. students and 20 PDFs, and also has trained around 200 students for their dissertation works in last three decades.

His research work was published over 300 research articles, which received about 12,000 citations so far, with an h-index of 52. He has guided graduate, undergraduate and post-doctoral fellows in diverse areas such as: chemistry, biology, pharmacy, computer science and material science. He is a professor of chemistry and life sciences in the Academy of Scientific and Innovative Research (AcSIR).

Dr. Sastry has made fundamental contributions in the following areas: non-covalent interactions; concept of cooperativity in non-covalent interactions; buckybowls, aromaticity, pericyclic reactions, design of the smallest planar neutral tetra coordinate carbon, identification of promising drug candidates for infectious and other diseases through computer aided drug design, and allied areas. His extensive studies on several non-covalent interactions help to delineate the factors that are crucial for the modulation of non-bonded interactions and demonstrated their importance in chemistry and biology. His group has been developing indigenous software for CADD that is Molecular Property Diagnostic Suite (MPDS) for various diseases, with a vision on strengthening computer-aided drug design in the country. He has delivered more than 500 invited lectures which include talks in conferences and symposiums of National and International repute. He was a visiting professor at Institute for Molecular Science, Japan; Ludwig Maximilian University, Munich, Germany; Jackson State University, USA, and Kyushu University, Japan. He is on the editorial board of some highly reputed journals as well as a potential reviewer for over 50 different peer-reviewed journals.

He has been awarded Shanti Swarup Bhatnagar Prize in Chemical Sciences (2011), considered as one of the highest prizes for science and engineering in India, National Bioscience award (2009, DBT), one of the highest awards for Life Sciences in India, Swarnajayanti fellowship (2005, DST), B. M. Birla award (2001), BC Deb Memorial award (2009), CRSI Medal (2011), and Alexander von Humboldt Fellowship. He is a Sir J. C. Bose National Fellow along with all major scientific academies of the country (FNA, FASC, and FNASC) as well as the Royal Society of Chemistry (FRSC). He is also a fellow of Biotech Research Society, Biotech and Pharmacy Association, Telangana and Andhra Pradesh academy of sciences.