

PREFACE

The ultimate goal of any scientific development is to increase well-being and improvement in human health. Since the advent of nanotechnology, there has been tremendous growth in this field of nanobiotechnology as it plays an important role in human health, diagnosis and medicine. Several products introduced into the market are based on nanobiotechnology and are useful to environment monitoring, rapid diagnostics, diseases monitoring, diseases management, and personalized health-care. Thanks to all the dedicated researchers from all over the world devoted to development of therapeutic and diagnostic tools in the improvement of human health. As rightly said “Technology will not replace teachers. Teachers who use technology will probably replace those who do not” – Ray Clifford. Thus, it is important that teachers and researchers should be acquainted with technology from time to time. To appraise the teachers and young researchers from university, the best of brain working on nanobiotechnology were invited to share their experience. The Department of Botany and Zoology of Kirori Mal College, University of Delhi, organized a Two-day International Conference *via* Virtual Platform on “Nanomedicine-Biomolecules for Human Health (NBHH-2021)” on 27th-28th September 2021 under the aegis of DBT Star College Scheme, Government of India. NBHH-2021 covered the most recent international developments in the field of Nanomedicine in health care.

This conference had an innovative program amalgamating scientific sessions and a capacity building program for students to aid them in undertaking translational research. This conference provided opportunities for exchange of ideas, scientific knowledge and experience among researchers, academicians, scientists and students from Biology, Chemistry, Medical and Computational field. Updating the community on the most recent works and building new links between disciplines enables discussion and new collaborations. This conference provided a platform to undergraduates, post graduates, PhD scholars to interact with researchers and eminent scientists working in the field of Nanomedicine. Broad areas covered were Nanomedicine in Drug Delivery System, Nano-biosensors and Tissue Engineering -Diagnostics, Regulatory Nanobiotechnology, Nano-Toxicology, Environmental Nanotechnology, Epidemiological studies. NBHH-2021 received a great response as more than 225 participants registered for the conference.

The international conference is very significant to the development of new ideas and the promotion of research into advanced technologies. Approximately 124 Abstracts from all over the world have been rigorously reviewed before being accepted for this special issue. According to their subject and their merit by professionals, 12 papers to be presented at the NBHH-2021 Conference were included in this issue.

I would like to sincerely thank the National and International advisors, reviewers, judges, the organizing committee, executive committee, the research scholars and the undergraduate students for their willingness, enthusiasm, commitment and relentless efforts in ensuring the success of this conference. I sincerely hope that this conference deliberated all the different facets of this upcoming topic and come up with recommendations that will lead to a better, and healthier world. I sincerely hope that the conference will be an impetus to stimulate further studies and research in all these areas of nanomedicines along with strengthening our relationships in knowledge sharing, joint research collaborations and product commercialization.

Further, we extend our gratitude and sincere thanks to Dr Ranjana Aggarwal, Director, CSIR-NIScPR, New Delhi, and Shri RS Jayasomu, Editor, IJEB for encouragement towards this publication. We also appreciate the support and extensive work done by the Executive editor, Dr DN Rao, Scientific editor Dr NK Prasanna and team of the Indian Journal of Biochemistry and

Biophysics, in bringing out this excellent special issue. At the last but not least, the accurate and efficient type settings of the issue by the technical staff is greatly acknowledged and the patience shown by them in repeated revisions/corrections was incredible.

Guest Editors

Prof. Vibha Singh Chauhan
Principal, Kirori Mal College
University of Delhi, Delhi-110 007, India

Prof. Anita Kamra Verma
Convenor
Nano-Biotech Lab, Kirori Mal College,
University of Delhi, Delhi-110 007, India

Dr. Renu Kathpalia
Co-convenor
Department of Botany, Kirori Mal College,
University of Delhi, Delhi-110 007, India