



15th International Symposium on

NATURAL PRODUCT CHEMISTRY

February 21 – 24, 2022

Karachi, Pakistan

Pakistan Time: 09:00-18:30 hrs / GMT: 04:00-13:30 hrs

INTRODUCTION

Currently, there is widespread recognition that global sustainability issues are all closely interconnected, such as public health and drug resistance, climate change, biodiversity loss, economic inequalities, energy, and food safety and security. At a time when the world is experiencing a pandemic crisis of unprecedented scale and impact that is disproportionately affecting developing countries, assistance in building their own capacities, including the development of renewable natural products, would strengthen these countries to address issues of global concerns. Natural products and value-added compounds from natural sources continue to play an important and growing role in advancement of wide range of sectors, including medicine, bioenergy, agriculture, fertilizers, biomaterials, food and cosmetics, and a growing number of other industries. Their significance stems from the fact that they are primarily reliant on renewable sources, which makes them useful in a circular economy, among other things.

To share and discuss scientific advances in Natural Product Chemistry research and applications and latest developments in cutting edge technological tools, the International Centre for Chemical and Biological Sciences (ICCBS), in collaboration with the Commission on Science and Technology for Sustainable Development in the South (COMSATS) and United Nations Educational, Scientific and Cultural Organization (UNESCO), is holding an International Symposium on Natural Product Chemistry (ISNPC-15). After the success of fourteen Symposiums on Natural Product Chemistry, the fifteenth Symposium will be held in Karachi, Pakistan, from February 21 – 24, 2022, and will continue focusing on several key topics and technologies related to natural products chemistry.

Over 800 eminent scientists and young researchers from 45 countries are expected to participate in this symposium which is recognized as one of the most prestigious international events in the field of natural product sciences. The symposium will be focussed on the complementary elements of current science: basic and applied research, application and technology development, and innovative solutions.



SCOPE

The aim of the symposium is to bring together leading experts in the field of natural products sciences from all around the world and forge global partnerships for sustainable utilization of natural resources for the common benefit of humanity and rapid development of the countries in the south. A diverse group of speakers from the academia, health and life sciences, and pharmaceutical industry has been invited for expert talks and discussions focused on topics such as the state of the field and its commercial and scientific potential; design, tools, and applications of drug engineering and technology; smart therapeutics and synthetic biology.

Following aspects of natural product sciences will be covered:

- Isolation and structural elucidation of natural products
- Synthesis/ biosynthesis of natural products
- Pharmacology and bioassay evaluation on natural products
- Biotechnology for natural products development
- Advances in spectroscopic techniques for structure elucidation
- Rational drug designing
- Medicinal plants cultivation and conservation
- Chemistry of marine- and micro-organisms
- Chemical studies on natural products/herbal medicines
- Standardization, efficiency, and safety of natural remedies

AIMS AND OBJECTIVES

- It will serve as a platform for a large level of interactions of over 150 foreign scientists from some 45 countries with over 600 Pakistani scientists. This level of interaction is equivalent to hundreds of visits of Pakistani researchers to prominent institutions abroad.
- Most importantly this major event will expose Pakistani researchers with the best of science and technologies in the world in the exciting field of natural product sciences, as well as contribution of natural products in modern drug discovery and development.
- The event will provide a life changing opportunity for hundreds of young Pakistani researchers to meet with most eminent scientists of the world and explore

opportunities for trainings and study visits abroad.

- The event will provide a platform to exchange ideas, and develop research linkages and foster collaborations in the field of natural product sciences.

The conference programme will comprise of plenary, keynote, oral and poster presentations, as well as special workshops and attractive social events.

WHO SHOULD PARTICIPATE

Academicians, researchers, scientists, industrial experts, pharmacists, chemists, research students from developing countries working in the relevant fields of synthetic biology, organic & natural product chemistry, and therapeutics are encouraged to participate in this international symposium.

HOW TO REGISTER

For online participation, please register through the following weblink:

<https://tinyurl.com/15thIntlSymposium>

Upon registration, the weblink for online participation will be sent to the registered participants by email.

For further information, please contact:

Mr. Irfan Hayee

Deputy Director (Programmes)
COMSATS Secretariat
Islamabad - Pakistan
Tel: (+92-51) 9204892
Fax: (+92-51) 9216539
Email: irfan@comsats.org
URL: www.comsats.org

Dr. Syed Ghulam Musharraf T.I.

Professor (Tenured)
H.E.J. Research Institute of Chemistry
International Center for Chemical and
Biological Sciences (ICCBS)
Karachi, Pakistan
Tel: (+92-21) 111-222-292 (ext-134)
Website: www.iccs.edu