



UGC and DST INDO-UK PROJECT SPONSORED

INTERNATIONAL CONFERENCE

ON

MICROBIAL BIOTECH INTERACTIONS FOR SUSTAINABLE AGRICULTURE AND SOCIETAL DEVELOPMENT

Feb 6 and 7, 2020

Department of Microbiology & Biotechnology
University School of Sciences,
Gujarat University, Ahmedabad-380 009,
Gujarat, INDIA.

Dear Colleagues,

The Department of Microbiology and Biotechnology is hosting an International Conference bringing six renowned agricultural scientists together at Gujarat University, to discuss the role of soil microorganisms in achieving gains in agricultural productivity. The speakers shall address a wide range of issues and challenges, including biotechnology aspects of soil health, soil carbon storage, environmental sustainability and soil ecosystem services in relation to food security for betterment of society. Soil is the most diverse habitat on Earth containing 90% of the world's organisms. With the advent of molecular techniques, it has now become possible to identify and study the functions and processes. Experiments designed to evaluate the phenotypic and genotypic basis of salt tolerance, heat tolerance and drought tolerance, of a range of agriculture crops shall be targeted. Our ability to deal successfully with several global challenges for humanity (i.e. feed the increasing world population, manage greenhouse gas emissions and adapt to climate change and variability) is closely linked to a better understanding of the functioning of microorganisms and their interaction with soil minerals and plant roots (i.e. the rhizosphere). Increasingly, Plant Growth Promoting Rhizobacteria (PGPR) are applied to fields in order to mitigate the effects of abiotic stresses. The complex tripartite interactions and interdependencies between crop type, PGPR traits, and soil environments is little understood, but underpins what farmers call a 'poor' or 'healthy' soil. The interactive sessions shall study these underpinnings in relation to biotic and abiotic stresses and relate these to best agricultural practices. The platform shall provide new insights into the mechanisms and ecology of plant growth promoting rhizobacteria and inform the invited farming community on their application in agriculture and in the context of agricultural practices.

Call for abstract

The abstract should be sent as soft copy by e-mail and hard copy after acceptance with registration form and fees to the Convener, latest by 29th January 2020. All the accepted abstracts will be published in Souvenir. Prizes will be awarded for the best oral and poster presentation and full length paper of the three awardees in both categories shall be published in the Gujarat University, academic journal 'Vidya' (ISSN: 2321-1520).

Abstract detail

The title of paper should be in capital, bold and with (14 font size Times New Roman) Name of authors should be bold and centre aligned (12 font size Times New Roman), affiliations and E-mail. The name of corresponding author should be underlined. The abstract should be precise, contain in maximum 300 words including introduction, methodology, highlights of results and conclusion.

The abstract should be sent by E-mail at: ic2019gu@gmail.com

Detailed programme shall be sent by E-mail to registered participants only.

CONFERENCE THEME

- Rhizospheric microflora and their role in agriculture
- Microbe mediated soil nutrient transformations
- Microbial antagonism in plants
- Molecular and genetic basis of plant-microbe interaction
- Imaging techniques in plant and soil
- Endophytic microbes
- Commercial approaches to production and limitations of biofertilizers

INVITED SPEAKERS

Prof. A. K. Saxena

National Bureau of Agriculturally Important Microorganisms, Uttar Pradesh.

Dr. Jörg Schumacher

Dept. System & Synthetic Biology, Imperial College, London.

Dr. Shraddha Gang

Dept. System & Synthetic Biology, Imperial College, London.

Dr. Tushar Roy

BARC, Mumbai.

Prof. Anil Prakash

Dept of Microbiology, Barkatullah University, Bhopal.

Dr. Anis Fatima

Raja Ramanna Centre for Advanced Technology, Indore.

CONTACT DETAILS

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Biotechnology

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Dr. Rakesh Panchal

Co-ordinator

Dr. Devayani Tipre
Dr. Kiransinh Rajput
Dr. Vikram Raval
Dr. Dweipayan Goswami

REGISTRATION DETAILS

Industry Delegates: ₹ 1500 /-

Faculty / Research students: ₹ 1000 /-

PG students: ₹ 800 /-

Important Dates:

Abstract submission: 20th January 2020

Registration deadline: 29th January 2020

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