

A National Symposium on

“Current Advances in Molecular Host-Pathogen Interactions” (CAMHPI-2017)

March 28 – 30, 2017



Organized by

Departments of Biotechnology
National Institute of Technology
Durgapur,
M. G. Avenue, Durgapur – 713209
www.nitdgp.ac.in

Sponsored by
Science & Engineering Research
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Ministry of Science and Technology
Govt. of India

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About NIT Durgapur:

The National Institute of Technology, Durgapur is located at the heart of steel city of Durgapur, one of the fastest growing tier-II city, in the state of West Bengal. The Institute is located about 160 KMs north-west of Kolkata on the Howrah-Delhi Main

Railway-Route and overlooking the National Highway No. 2 (the great Grand- Trunk Road). The Institute spreads over an area of 187 acres of land. It is fully residential and co-educational institute. At present, altogether about 5,000 students have been pursuing their Bachelor's, Master's and Ph.D. programmes, NIT, Durgapur.

The institute embarked upon its tireless journey in 1960 as a joint venture between Govt. of India and Govt. of West Bengal in the name of Regional Engineering College. Eventually, the institute got transformed into National Institute of Technology under the Ministry of Human Resource Development, Govt. of India in 2004. Over the last few decades NIT, Durgapur has evolved significantly bringing under its umbrella additional facets of education such as Technology, Science and Research, which are complementary. The institute has now acquired a status of 'Institute of National Importance' through implementation of NIT Act, 2007. The institute has been declared as one of the lead institutes under TEQIP programme of MHRD, funded by the World Bank.

The Department:

Department of Biotechnology at NIT, Durgapur started its eventful journey in 2005 to cater to the biotechnological needs of the society. B.Tech. and M.Tech. courses in Biotechnology started in 2005 and 2009, respectively. The present annual intake of B.Tech is 92 and M.Tech intake is 20. The department is steadily emerging as a leader in providing excellent education in undergraduate and postgraduate level in Biotechnology and to develop cutting-edge technology through research, training and technical innovation. The department is growing consistently since its inception and now has more than thirty

research scholars working in various research projects. The laboratories of the department are equipped to cater to the needs of the UG, PG students and research scholars & faculty members.

Theme of the Symposium

The global population is increasing at a rapid pace to reach about 9 billion by 2050. This puts unprecedented pressure on already scarce natural resources. Although, we have food sufficiency today, it is essential to ensure tomorrow's food security. To tackle the population increase and the associated increased consumption there is an urgent need to increase food production in a sustainable manner. In addition to changing climatic conditions, what is often overlooked is the threat posed by plant pathogens, which cause devastating losses to important food crops each year. However, numerous laboratories across the globe are working on various aspects of molecular plant pathogen interactions using various cutting edge technologies. The insights gained from these investigations will be useful toward resisting various diseases caused by viral, bacterial and filamentous pathogens. This symposium focuses on bringing together innate immunity and pathogenicity to obtain a global view of host-pathogen interactions. The talks will center around variety of infectious agents like parasite, bacteria or fungus infecting host cells of both plant and animal origin. A better understanding of infectious disease will come through the simultaneous analysis of microbial and host variables, and open new avenues for treatment and prevention strategies.

Objectives:

This symposium will enable participants to gain the knowledge about recent

understandings on mechanisms of defence response in the plants and those of pathogenesis, which will enable us to develop resistant crop cultivars for future generations to come. At the same time, they will also get exposure to various functional genomics technologies being used to unravel molecular host-pathogen interactions. This meeting will stimulate interactions between the fields of innate immunity and microbiology and plant biology providing a global view of host-pathogen interactions. Understanding when and how an interaction between host and microbe (virus, bacteria, fungus or parasite) leads to disease development in both animal and plant, will open new avenues for treatment, control and prevention strategies.

Resource Personnel (tentative):

Prof. Samir Bhattacharya, Visva-Bharati

Prof. Malali Gowda, TDU, Bangalore

Dr. Shyamal Roy, IICB, Kolkata

Prof. Debabrata Basu, Bose Institute, Kolkata

Dr. S. N. Bhattacharya, IICB, Kolkata

Dr. Pallob Kundu, Bose Institute, Kolkata

Dr. Mrinal K. Maiti, IIT Kharagpur

Dr. Monidipa Ghosh, NIT Durgapur

Dr. Somdeb Bose Dasgupta, IIT BHU

Dr. Subhankar Roy Barman, NIT Durgapur

Course Content:

Dignitaries from renowned centres, institutes and universities from different parts of the country will deliver their talks in the following areas as relevant to understanding molecular host – pathogen interactions:

Use of genomics and proteomics tools, transcriptional and post-transcriptional regulation of gene expression, improved crop productivity, next generation sequencing, G-protein coupled receptors etc.

Registration form of the Symposium (Print the form on a plain paper)

Name (Dr/Mr/Mrs):.....
Male/Female:.....
Designation:.....
Organisation:.....
Date of Joining the Organisation:.....
Food: Veg/Non-Veg
Address:.....
Contact No.....
Email ID.....
Attachment: C.V. (MUST).

Signature of the applicant with date

Signature of the Head of the Department /
Organization

(Send us the scanned soft-copy only)

**Last date of receiving application:
February 24th, 2017.**

Selection of participants:

Participants selected for the symposium will be intimated within March 03, 2017.

Participants and Registration fees:

B.Tech./M.Tech./M.Sc. students: Rs. 500/-
Ph.D. Scholars / Research Scientists / Faculty members: Rs. 1,000/-
Tea & working lunch will be served.

Mode of payment: Selected candidates will be required to make payments by means of cheque / demand draft in the name of "CAMHPI – 2017" payable at Durgapur latest by March 10, 2017.

Accommodation:

Participants are requested to arrange for their own accommodations. NIT Durgapur will not provide any accommodation. No TA/DA will be paid to the participants.