

Self Financed
Short Term Workshop on

**DNA Sequencing:
Applications in Diagnostics
and Health Care Innovation
December 08-14, 2015**



Centre for Medical Diagnostic and Research
Motilal Nehru National Institute of
Technology Allahabad
ALLAHABAD, 211004, India



About the institute

Motilal Nehru National Institute of Technology Allahabad is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology fully funded by Ministry of Human Resource Development, Gov. of India.

The institute offers B.Tech, M.Tech, Ph.D, M.C.A, M.B.A, (Mathematics and Scientific Computing) degrees in various disciplines of sciences, engineering, technology and humanities.



About CMDR

The current scenario of cutting edge research in the field of health, life sciences and biotechnology in the region is not overwhelming and requires a comprehensive and holistic approach to handle such conditions. In order to encourage quality research in the field of health, life sciences, and biotechnology, there was a need to bring sophisticated high end equipment under one roof and making it accessible to researcher in and around the institute. Looking at the interdisciplinary merger of health sciences with various branches of engineering, it was thought to lay down the foundation stone of a center which will not only nurture the life sciences in this NIT, but also promote interdisciplinary research between the life sciences with other branches of engineering. This center "Center for Medical Diagnostic and Research (CMDR)" will be a platform of advanced research, where researchers from institutes will attempt their cutting edge ideas with the help of available high-end facility.

Mission

The Centre for Medical Diagnostics and Research (CMDR) envisions providing an enriched research platform to pursue objective driven scientific research to solve complex health as well as life sciences related issues with advanced high end facility under stringent ethical regulation and good laboratory practices.

The city of Allahabad

Allahabad is the sacred city of India where three *holy rivers namely Ganga, Yamuna and invisible mythological Saraswati meet*. The famous *Kumbh* is organised here after every twelve years where hundreds of million people gather for holy bath. The Allahabad has been famous place of learning since long due to it's world famous academic institutions.

About the course:

Objective: The workshop intends to provide up-gradation of knowledge and skills for research scholars/faculties/scientists involved in active research. DNA sequencing technique is used to determine the nucleotide sequence of DNA which is the most fundamental level of knowledge of a gene or genome. It is the blueprint that contains the instructions for building an organism, and no understanding of genetic function or evolution could be complete without obtaining this information. The course will provide in depth exposure of DNA sequencing to the participants. The lectures will be delivered by distinguished experts of their field. The workshop will cover technological advancements of DNA sequencing in the field of medicine, agriculture, forensic science, diseases and will provide insight wrt IPR in health care sector. It is aimed for enrichment of theory, along with greater emphasis on research oriented trouble shootings. Fragment analysis will help to describe genetic marker analysis experiments which rely on detection of changes in the length of a specific DNA sequence to indicate the presence or absence of a genetic marker. Emphasis will be given on primary and secondary data analysis tools and software solutions for interpreting Sanger sequencing results.

Short term course topics

- Overview of DNA sequencing
- Diagnostics of genetic diseases
- SNP analysis
- Fragment analysis
- Mutation analysis
- Genetic markers
- IPR in health care sector and medical innovation
- Any other relevant area

Duration: Seven days workshop from December 08- 14, 2015.

Number of seats: 20

Accommodation: The participants may be provided accommodation in the institute guest house and/or hostel depending on the availability, on payment basis. Accommodation can also be booked in nearby hotels directly or through organizers.

For further enquiries contact:

shiveshs@mnnit.ac.in,
manishas@mnnit.ac.in,
ssnvsharma@gmail.com

Food: Lunch and tea will be provided to the participants during the course of workshop (charges are included in the registration fee).

Eligibility: Undergraduate, post graduate, research scholars and faculty/scientist in biotechnology, applied biological sciences, bioinformatics, life sciences, medical sciences, environment sciences, pharmaceutical science or related disciplines

Mode of payment: Participants can make payment via DD in favour of SFW-DSAD, payable at Allahabad OR Deposit the registration fee online in Account No **718400301000181** (current account) of Vijaya Bank MNNIT Allahabad (Branch Code: 007184; MICR Code: 211029004; IFSC Code: VIJB0007184)

REGISTRATION FORM

Personal Details:

Title(Mr./Ms./Mrs./Dr.):
Gender(Male/Female):
Name:
Date of Birth: Age:

Academic Details:

Designation:
Qualification:
College/Institute/University:
Department:
City..... State:

Contact Details:

Address:
.....Pin:
Ph./Mob.:
Email:
Accommodation Required: Yes/No

Payment details:

Demand Draft No: Dated:
Drawn on.....
Total Amount in INR.....

OR

Online registration fee details
(Attach the DD or online payment receipt with form)

Declaration:

I am interested in attending this training course. All the information provided are correct.

Signature of Applicant

Note:

- Incomplete or registration form without demand draft shall be rejected
- A separate registration form should be used for every delegate
- Registration fee is non-refundable

ORGANIZING COMMITTEE

Patron & chairman: Prof. P.Chakrabarti

Convener : Dr. Shivesh Sharma

Coordinator : Dr. Manisha Sachan

Treasurer: Dr. Ambak K. Rai

Advisory Committee : Core and Technical Committee, CMDR

Registration Fee

Students/Research Scholar : Rs 1,500
Faculty/ Scientist: Rs. 2500

Registration fees includes

- All the lectures
- Lunch and refreshments
- Program kit

How to reach MNNIT Allahabad: the city of Allahabad is well connected with all parts of India by daily train, buses and flights.

For more information: <http://www.mnnit.ac.in>

Contact:

Dr. Shivesh Sharma

Convener: SFW-DSAD Centre for
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