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NAAC A+
Accredited University



Thermo-Fisher Sponsored

5-Days National Workshop

Cum Hands on Training

NEXT GENERATION SEQUENCING AND RT-qPCR

21-25 October, 2024

In association with

DBT, Govt of India

(under DBT BUILDER Programme)



◀ IMPORTANT DATES ▶

Last date of Application and Registration

18th October, 2024

Last date of Submission of Registration Fee

18th October, 2024

Workshop Dates

21st-25th October, 2024

Organized by

Centre for Advanced Research (CAR)

&

Department of Biotechnology

Dr. Harisingh Gour Vishwavidyalaya Sagar, M.P.

About the University

Doctor Harisingh Gour Vishwavidyalaya Sagar (A Central University), formerly University of Saugar, was established on 18th July 1946 by Dr. Sir Hari Singh Gour (Nov. 26, 1870 – Dec. 25, 1949) by his lifetime savings. This 18th University of India and the oldest and the biggest University of Madhya Pradesh has perhaps the singular distinction of being founded by the munificence of a single person's hard-earned money of about two crores of rupees. Apart from being a great jurist and legal luminary par excellence, he was a great Patriot, Philanthropist, Educationist and Social Reformer.

Dr. Hari Singh Gour was the first Vice-Chancellor of University of Delhi (1922 to 1926) and first Dean (1924) of The Faculty of Law in the University of Delhi. The University is situated 5 Km east of Sagar city and its campus covers an area of 1312.89 acres over Pathariya hills connected to the Vindhya Range, surrounded by lush green forest (about 100 acres) within its campus and has effectively contributed to the maintenance and preservation of ecosystem and its biodiversity. It is one of the finest picturesque campuses in India.

It has 42 university teaching departments, 11 schools and 19 affiliated colleges covering various districts of M. P. There are 4 hostels for boys, two hostels for girls and residential facilities are available for teachers and officials of the University. The Banking, Postal, Health & Sanitation, Shopping complex, Indian Coffee House (ICH), and Cafeteria services are available at the University premises. The Jawaharlal Nehru Library of the University has more than 4,00,000 books. Academic Departments, Hostels and Libraries are well equipped with Wi-Fi through National Knowledge Network (NKN) and e-resources are accessible through Wi-Fi. The NAAC has awarded 'A+' Grade re-accreditation to this University in its fourth cycle. This University got Central University status w.e.f. 15th Jan 2009.



About CAR

The CAR at the Dr. Harisingh Gour Vishwavidyalaya, Sagar is equipped with around 30 cutting-edge sophisticated instruments like Nuclear Magnetic Resonance Spectrometer, Single Crystal X-Ray Diffraction, Powder XRD, GC-TOFMS LC-Mass Spectrometer, Scanning and Transmission Electron Microscope, Nanospray Drier, Particle Size Analyzer, Q-PCR and many more such instruments. Under devoted technical staff with multidisciplinary expertise, the Centre has made significant contributions to material characterization and till date trained several hundreds who are carrying out excellent work elsewhere. This facility was developed with support from UGC, New Delhi, and the DST-PURSE scheme. Since its inception in 2014, a number of high-impact research publications have been published with the help of instruments available at CAR.

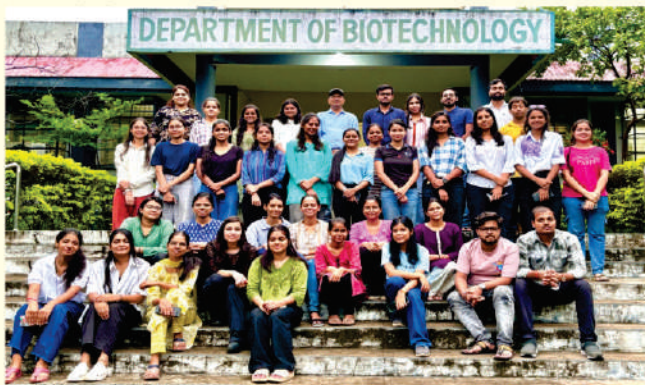
About the Department

The Department of Biotechnology was established in 2001-02 with UGC approval. The Department acquired an independent status in 2009 upon the up gradation of the University to Central University. The Department took a new shape in the year 2013 when the appointed faculty established fully functional research laboratories and sophisticated instruments were installed. The Department is a full-fledged independent unit under the School of Biological Sciences. At the Department of Biotechnology research is being pursued in both basic and applied areas of Biotechnology. The Broad research interests of current faculties includes Genetic Engineering and Plant Biotechnology, Nanotechnology, Molecular Biology, Bacteriology, Proteomics and Genomics. The Department is well equipped to impart Master and PhD advanced education and training.

The Department has published significant number of publications in the leading national and international peer reviewed scientific journals.

The Departmental is inclined towards inter disciplinary research; faculty members in the Department have forged active national & international collaborations. Currently the faculties have research collaborations with prestigious institutes and universities like IIT Guwahati and IISER Bhopal. Further the department is well equipped with advanced research facilities like Sanger DNA Sequencer, Flow Cytometry, Next Generation Sequencing, PCR and Spectrophotometer.

Moreover, departmental faculty have secured fundings from various funding agencies like UGC, DST, DBT, etc.



About the Workshop

Join us for an intensive 5-day workshop on "Next Generation Sequencing and RT-qPCR" from October 21-25, 2024. This blended mode course will offer hands-on experience with NGS, RT-qPCR, and Sanger sequencing. Participants will perform complete experiments, learn data analysis with specialized software. Led by industry experts, this workshop is perfect for researchers, students, and professionals seeking to enhance their genomic analysis capabilities. Don't miss this opportunity to master cutting-edge sequencing technologies gene expression platforms and their applications

Programme Highlights

- Sample preparation & library construction
- Comprehensive hands-on training on NGS workflows (Thermo- Ion Chef5)
- Introduction to Analysis Software's including Bio-Python
- Data analysis and interpretation using advanced bioinformatics tools
- RNA Isolation and cDNA Preparation for RT-qPCR
- Expert-led sessions on quality control, quantification, and result validation.

Who Can Apply?

- Faculties, Ph.D., Post Graduates and Under Graduates (Preference will be given to Faculties & Ph.D. scholars)

Special Note

- Candidates need to bring their own laptop with ready to use Linux OS.
- The required softwares will be provided during the session.

How to Apply

- Link: <https://forms.gle/TZYesu9CZWSPjR996>
- Mode: Physical & Online
- **Total Seats: 30 for offline**
- **Dates: 21-25 Oct. 2024**
- The selected participants will be provided the working Lunch and Tea.
- Fees: (non-refundable)
- **A. Offline mode - Rs. 2000**
- **B. Online mode- Rs 800**



Scan the QR Code

Last Date to Apply: 18 Oct. 2024

***Registration fees is non-refundable. No TA/DA will be provided to the participants. Participants have to arrange for their own stay during the workshop.**

About Sagar City

Sagar (M.P.) is a divisional head quarter and well connected by rail and all-season roads. The weather in Sagar in September is pleasantly warm with a gentle breeze, with average highs of 30 °C and lows of 22 °C. Sagar railway station is mentioned as Saugar (SGO) in Railway time table. Saugar station is located on Bina-Katni section of West Central Railway. It is directly connected by train to Bina Jn (75 Km), Bhopal (215 Km), Jabalpur (279 Km), Lalitpur (110 Km) and Jhansi (200 Km). Nearest airport- Bhopal (200 Km), Khajuraho (215 Km), and Jabalpur (171 Km).