

National Workshop on Experimental Workflow for the Exploration of Human Gut Microbiota

20th – 23rd July 2023

The workshop “Experimental Workflow for the Exploration of Human Gut Microbiota” aims to acquaint the participants with the application of Next-Generation sequencing technology for the exploration of the human gut microbiota for its composition and genetic architecture. Speakers will provide guidelines to the participants regarding: “How to collect and process the samples?” “How to process the human gut metagenomic DNA for community profiling?” “How to select a sequencing workflow for an optimal outcome?”, “How to perform sequencing?” “How to assess the completeness and quality of sequencing dataset” “In silico Tools for sequence data analysis”. Participants will be able to design and execute research studies based on microbiome explorations through hands-on practices and query sessions.

Organizing Committee

Patron In Chief:	Prof. Rajbir Singh, (Vice Chancellor)
Patron:	Prof. Surendra Kumar, (Dean, Academic Affairs)
Patron:	Prof. Gulshan Lal Taneja, (Registrar)
Convener:	Prof. Anil Kr. Chhillar (In-Charge, NGSL)
Organizing Secretary:	Dr. NS Chauhan, (Principal Investigator, NGSL)

Tentative Schedule

Date	Experimental Workflow
20 th July 2023	Metagenomic DNA extraction
21 st July 2023	Construction of Sequencing Library (Shotgun and 16S rRNA Gene Library)
22 nd July 2023	Sequencing with Oxford Nanopore Technology
23 rd July 2023	Assessing sequencing output and <i>In silico</i> analysis of Metagenomic Dataset

Participation Details

Number of Participants	Only 15
Mode of Selection	First cum first serve basis
Prerequisite for Workshop	Basic knowledge of Genomics
Last Date of Registration	15 th July 2023

Contact us: nschauhan@mdurohtak.ac.in

Registration Fee

Faculty Members	Rs. 5000.00
Research Scholars and Post Graduate Students	Rs. 4000.00

*It will covers basic workshop expenses except logistics and accommodation.

Venue

Next -Generation Genome Sequencing Laboratory

Organized by:-

Next-Generation Genome Sequencing Laboratory & Department of Biochemistry,
Maharshi Dayanand University Rohtak, Haryana

