

## **National Genomics Core (NGC)**

The National Genomics Core has been established by the Department of Biotechnology, Government of India, with footprints across India. Its central core is located in the National Institute of Biomedical Genomics (NIBMG), Kalyani, West Bengal, and its regional cores are located in the Centre for DNA Fingerprinting & Diagnostics (CDFD), Hyderabad, and the University of Allahabad, Uttar Pradesh.

This Facility is created to catalyse and facilitate genomics-driven discoveries and applications. The Core is accessible to all academic and clinical institutions and the industry for their own research & development and applications. It provides a single-window for complete genomics driven solutions that encompass project consultation, wet lab data generation and data-science support.

The NGC houses state-of-art instrumentation for high-throughput and high-density generation of genomic data and rapid data-analysis. NGC's repertoire of instrumentation and activities is continuously expanding. Current and planned activities and instrumentation are described in brochures. NGC also has its presence on digital marketing handles, such as, Facebook (<https://www.facebook.com/search/top/?q=national%20genomics%20core-nibmg>) and LinkedIn (<https://www.linkedin.com/in/national-genomics-core-nibmg-6049091a9/>). NGC helps catalyze and accelerate biological and biomedical discoveries and applications using the power of genomics.

As part of first step, Central Core at NIBMG is already announcing service solutions to the interested clients via its communication channel, [coteri@nibmg.ac.in](mailto:coteri@nibmg.ac.in).



# NATIONAL GENOMICS CORE

The National Genomics Core has been created to catalyse and facilitate genomics-driven discoveries and applications. The Core is accessible to all academic institutions and the industry for their own research and development. The Core houses and provides access to high-end genomics, computational and other relevant platforms to catalyse discoveries in all domains of biology. The ease of access to these platforms alleviates the challenges faced by researchers to generate and analyse genomics data on scale. This enabling environment attracts biologists to make insightful discoveries using the power of genomics.



## Location

**Central Core**  
National Institute of Biomedical  
Genomics, Kalyani

## Regional sub-Cores

Centre for DNA Fingerprinting and  
Diagnostics, Hyderabad  
University of Allahabad, Allahabad

## Established & Supported by

Department of Biotechnology, Government of India



# NATIONAL GENOMICS CORE

## National Institute of Biomedical Genomics

Established and Supported by Dept. of Biotechnology, Govt. of India



DBT-National Genomics Core at NIBMG acts as a facilitator of genomics-driven discovery by making state-of-art infrastructure available to every laboratory in academia and clinics/industry. It houses and provides access to high end genomics, computational and other relevant platforms to catalyse discoveries in all domains of biology. We use a wide range of experimental platforms and data analysis expertise to provide end-to-end solutions in different focus areas.

### Human Whole Genome Sequencing

- Sequencing at user-specified depth of coverage
- Input Sample: Standard and FFPE tissue and Blood
- Provision for Low Input Sample and PCR-free Library
- Integrated Data QC and bioinformatics analysis support (upto variant calling free of cost)

### Human Transcriptome Sequencing

- Sequencing at user-specified depth
- Ribodepleted Total Transcriptome and mRNA sequencing
- Integrated Data QC and bioinformatics analysis support (upto RPKM values free of cost)
- Consultation Support for Secondary Analysis

### Human Whole Exome Sequencing

- Sequencing at user-specified depth of coverage
- Flexibility of Content: Core, Expanded and Clinical Exome
- Sample Flexibility: Standard, Fresh frozen and FFPE tissue
- Integrated Data QC and bioinformatics analysis support (upto variant calling free of cost)

### Human Genome Wide Genotyping

- Economic microarray based solution
- Flexibility of Content: Upto 4.3 million know markers across the human genome
- Integrated Data analysis and bioinformatics support (upto genotype calls using GenomeStudio software free of cost)
- Customizable Sequencing based options available-Ampliseq

### Bacterial Genomics & Metagenomics

- Flexibility of read length and throughput: Long read length (upto 2X300 bp) for variable applications
- Sample Flexibility: Genomic DNA from pure culture as well as mixed source (metagenomic samples)
- 16s rRNA-based sequencing to target V3-V4 region and whole genome shotgun sequencing at user-specified depth

### Epigenomic Analysis

- Human ChIP sequencing at user-specified depth
- Human small RNA sequencing at user-specified depth with integrated primary analysis
- Economic microarray-based solution for methylation analysis to target 8,50,000 methylation sites across human genome

### SARS-CoV-2 Related Services

**SARS-CoV-2 Whole Genome Sequencing at user-specified depth**  
**Flexible workflow option to accommodate low to high viral load samples**  
**Host Immunogenetic Profiling (T-Cell Repertoire sequencing) at user-specified depth**

For all technical and pricing queries find us at

### National Genomics Core

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## About us

National Genomics Core has been established by the Department of Biotechnology, Govt of India to provide high end genomic solutions and as a full-service provider for the research needs of academic institutes and industry. We aim to provide a robust platform for skill development in genomics and utilization of high-throughput technologies to solve Life Science challenges, thus developing genomics applications to ensure social and health benefits for All.



## Our Mission

To provide futuristic genomic solutions for the advancement of life sciences

Nation's reliable Sequencing Platforms for your projects

## Our Vision

To become most preferred launch pad for next level genomic revolution

➤ Illumina NextSeq 2000 : realize true potential of your data

➤ Illumina MiSeq FGx: to accelerate forensic science

➤ Oxford Nanopore GridION: real-time, long-read, high fidelity sequencing

## We understand your Science!

At NGC, experts with Ph.D and international experience are using top-notch technologies to carefully plan and answer your specific genomic queries



### Meet us here:

Centre for DNA Fingerprinting and Diagnostics, Inner ring Road,  
Uppal, Hyderabad – 500 039, Telangana INDIA

### Call us:

0091-40-2721-6208/09/10

### Email:

[ngc@cdfd.org.in](mailto:ngc@cdfd.org.in)

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