

# National Genomics Core

- Located At
- South-Central Regional Core

Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad.  
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- Central Core

National Institute of Biomedical Genomics, Kalyani, West Bengal
- North Central Regional Core

University of Allahabad  
Prayagraj, Uttar Pradesh



## Why Us?

### 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.

A central graphic consisting of a cluster of hexagonal icons. The central hexagon is red and contains a white DNA double helix. Surrounding it are six purple hexagons, each containing a white icon: a cow, a fish, a plant, a virus, a human silhouette, and a pill bottle. To the right of this cluster are three overlapping circles containing text about the organization's vision, mission, and commitment. Below these is a large white hexagon with the 'NGC' logo, which includes a stylized DNA helix. At the bottom of the central graphic is a photograph of a woman in a white lab coat with her arms crossed. The background of the entire section is purple with various scientific illustrations like DNA helices and molecular structures.

📍 **National Genomics Core**  
Centre for DNA Fingerprinting and Diagnostics (CDFD)  
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- Our Vision

To become most preferred launch pad for next level genomic revolution
- Our Mission

To provide futuristic genomic solutions for the advancement of life sciences.
- Our Commitment

To Offer superior services to convert great ideas into milestone discoveries.



**National Genomics Core**  
Centre for DNA Fingerprinting and Diagnostics

Who are we?

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 industries.

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 Core Competencies

- » Providing a robust platform for
- ✓ Skill development in genomics

✓ Utilization of high throughput technologies to solve Life science storage challenges

✓ Computation, statistical analysis, storage and management of big data
- » Stimulate transformative research
- » Developing genomics applications for
- ✓ National economic growth

✓ Ensuring Social and health benefits

## INSTRUMENTS

### Illumina Miseq FGx

- » First fully validated next-generation sequencing (NGS) solution designed for forensic science
- » FBI NDIS approved
- » Analysing over 200 genetic markers using a single, streamlined workflow

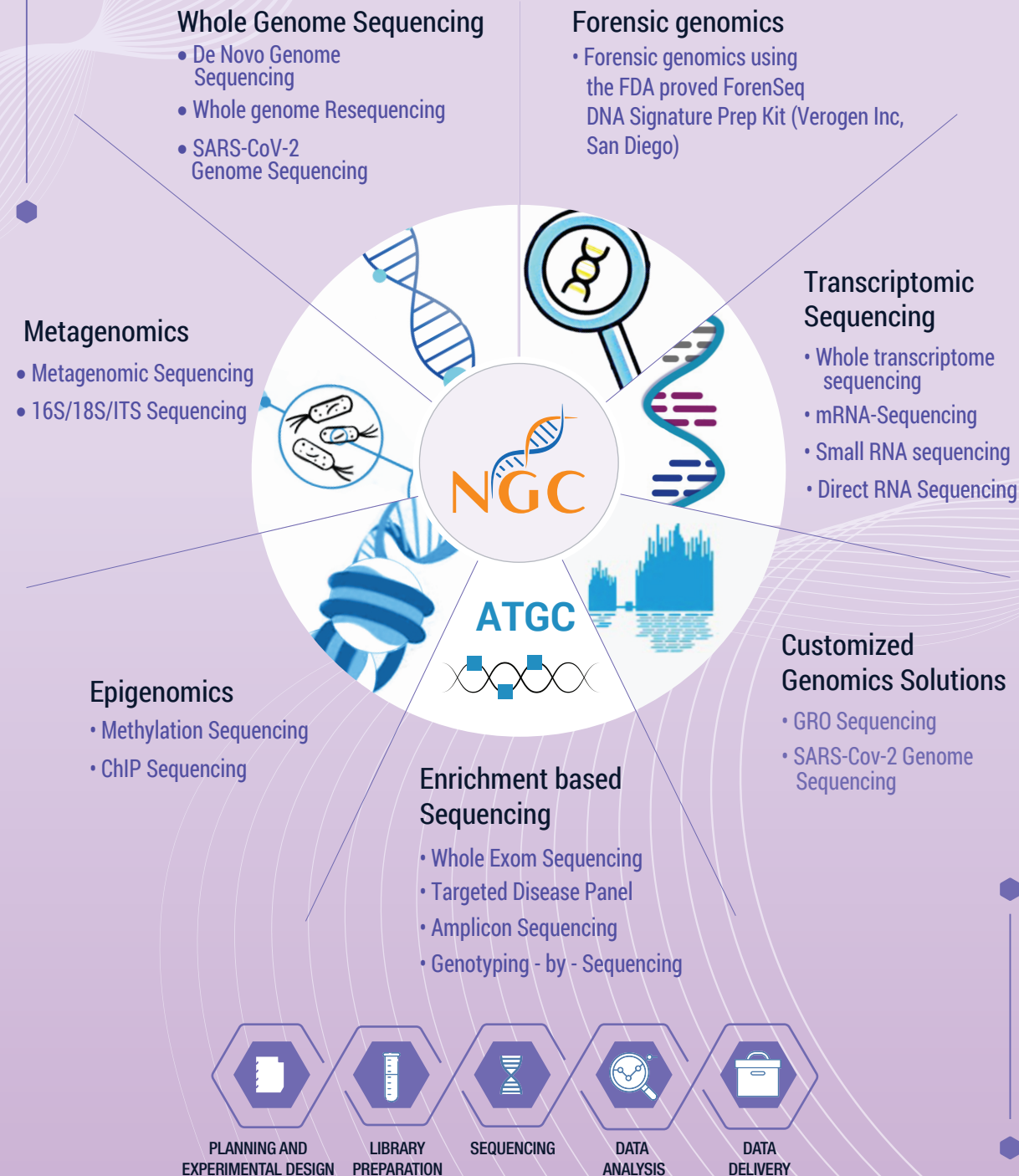
### Illumina Nextseq 2000

- » First in South-Asia, Illumina's latest cost-effective, high-throughput system for diverse genomics applications
- » Reduced sequencing costs and deeper exploration for ground breaking discoveries in basic biology, health, agriculture, oncology, microbiome research, forestry, livestock, marine and many more

### Agilent Tapestation 4200

- » Fully automated sample processing for DNA and RNA sample quality control
- » Results obtained within 1-2 minutes per sample
- » Requires as little as 1 to 2  $\mu$ L of DNA or RNA samples

## WE OFFER



## INSTRUMENTS

### Oxford Nanopore GridION X5

- » Long read sequencing with enhanced analysis of repetitive regions, structural variation, phasing, metagenomics, and more
- » Run multiple DNA/RNA sequencing experiments simultaneously As much as 150 Gb of data – streamed in real time for immediate analysis
- » Automate sample and library preparation using VolTRAX- enabling reproducible and portable sample preparation

### Agilent 2100 Bioanalyser

- » Highly precise analytical evaluation of DNA and RNA using specific microfluidic chip
- » Requires as little as 1  $\mu$ L of DNA or RNA samples

### Quantus™ Fluorometer

- » Compact, dual-channel fluorometer for quantifying nucleic acids
- » Designed to provide highly sensitive fluorescent detection of DNA or RNA