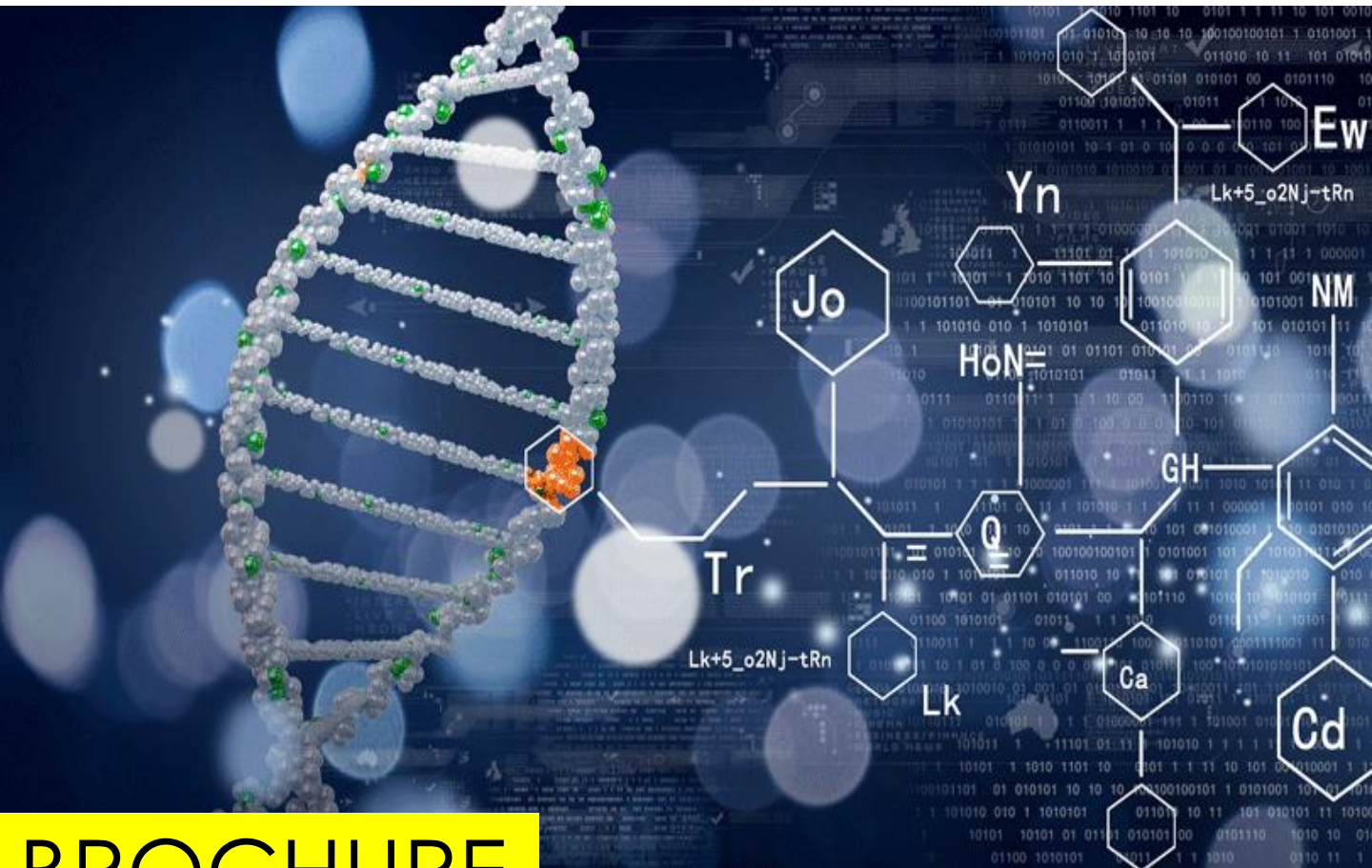


ENABLING BIOLOGY FOR FUTURE



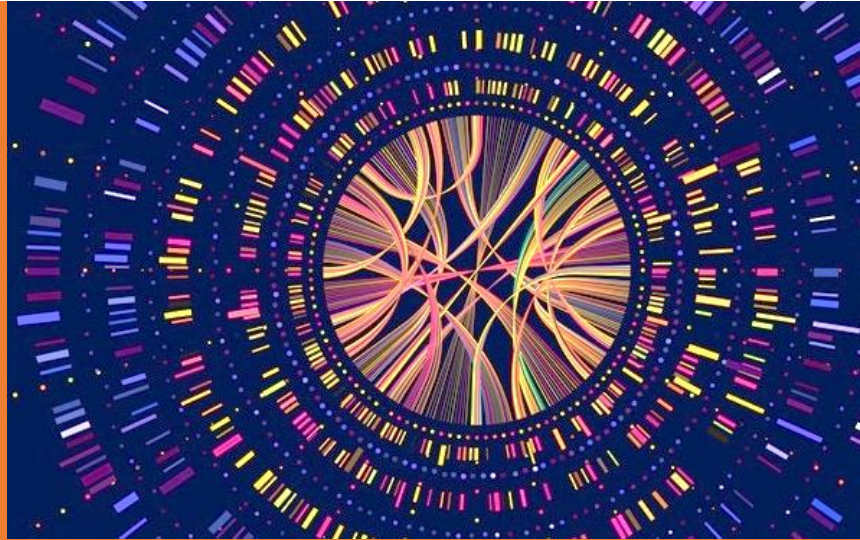
BROCHURE

CENTYLE BIOTECH SCIENTIFIC RESOURCES & SERVICES

RECOGNIZED BY

INTRODUCTION

Complete solutions for Next-Generation technologies



CENTYLE BIOTECH Private Limited (Centyle Biotech) offers services for High-Throughput technologies including genomics, transcriptomics, epigenomics, genotyping and metagenomics with large scale primary and secondary analysis. We provide customized solutions to challenges in the scientific research. Diseases both infectious and non-infectious remains a major cause of morbidity and mortality worldwide. The most critical information is obtained from the DNA sequence and thus generating unprecedented amounts of data with regards to genetic information. High-Throughput Sequencing also known as massively parallel sequencing acts as a cornerstone in personalized medicine that impacts both clinical and research areas. At Centyle Biotech we are committed to assist you in all the aspects of sequencing from project planning, sequencing and data analysis.

Data Analytics Services

Dedicated to assisting clinicians and scientists to unlock the mysteries hidden in the genome

Sequencing Platforms



Illumina Novaseq 6000



Pacbio Sequel II



ONT Promethion



Ion S5



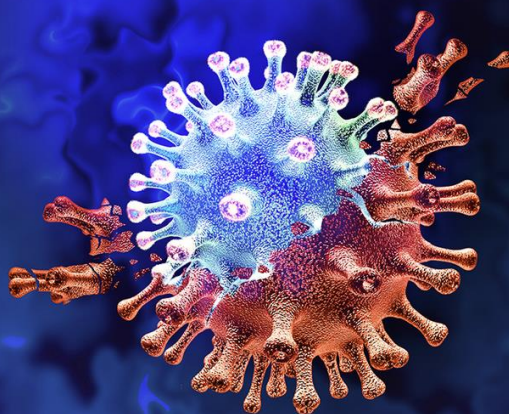
10X Chromium

Mission

CENTYLE is India's first Life Science training, research and consulting firm focusing on utilization of big data and cloud computing. Our aim is to equip future generation scientists, researchers and students with advanced Data Management skills and enable implementation of such skills in research.

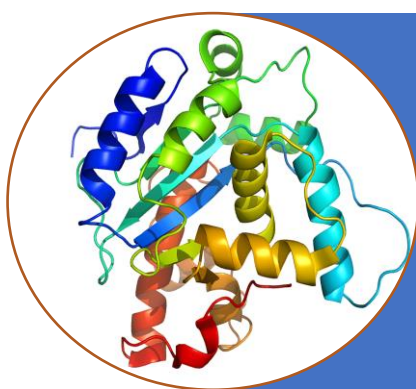
OUR SERVICES

We Provide Quality Genomics, Proteomics and Data Analysis Services



GENOMICS ANALYSIS

Centyle Biotech Private Limited (Centyle Biotech Scientific) offers services for High-Throughput technologies including genomics, transcriptomics, epigenomics, genotyping and metagenomics with large scale primary and secondary analysis.



PROTEOMICS ANALYSIS

Our Proteomics department operates on the state-of-the-art analytical instruments providing most advanced analytical techniques for proteomics and metabolomics for medical research application.

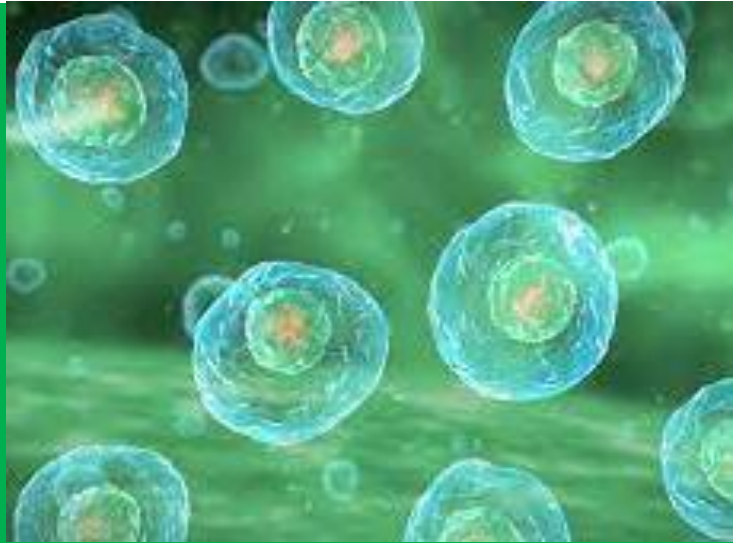
CUSTOMIZED CELL SERVICES

Centyle Biotech providing Cell services including MTT Assay, Apoptosis Assay, Cell Cycle analysis and NP Uptake assay. We are providing High-throughput data for genotyping by sequencing hold immense value for pharmacogenomics, consumer genomics, population studies, and clinical practice.



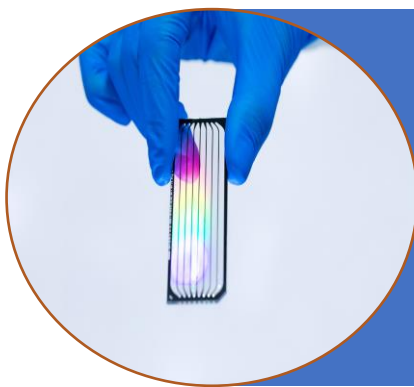
EXCLUSIVE SERVICES

We are Equipped with most Innovative Technologies



SINGLE CELL GENOMICS

Centyle Biotech Private Limited (Centyle Biotech Scientific) offers services for High-Throughput technologies including 10X Chromium Single Cell Sequencing for Transcriptome, Single Cell Immune Profiling, Single Cell ATAC Sequencing, Single Cell CNV Profiling

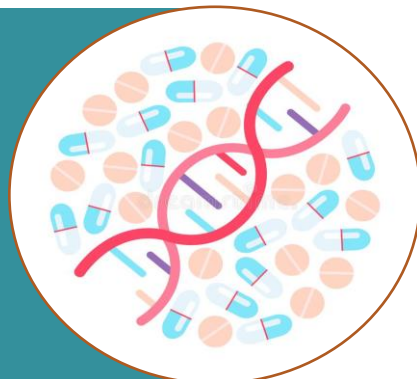


AGRICULTURAL GENOMICS

We at Centyle Biotech providing exclusive Agricultural Genomics services including Skim based genotyping, GBS, Custom Array, and other readily available Array for RICE, wheat, Bovine, Maize etc.

LONG READ SEQUENCING

Centyle Biotech Scientific offers long read whole genome sequencing (WGS) service utilizes Oxford Nanopore Technologies and Pacific Biosciences (PacBio Sequel II) platforms to characterize your novel genome of interest or re-characterize organisms with known genomes.



NGS ANALYSIS

Dedicated to assisting clinicians and scientists to unlock the mysteries hidden in the genome

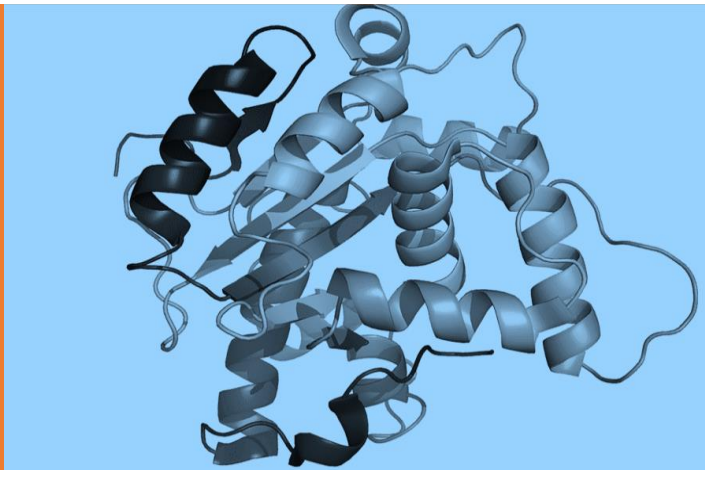


Sequencing Methodology	Standard Data Analysis Pipelines	Specific Data Analysis Pipelines
De-novo Sequencing	De-novo assembly and annotation	Variant Calling (SNP, INDELS) Gene Prediction, Gene Annotation
Whole Genome Resequencing	Alignment and summary Variant Calling (SNP, INDELS) and Annotation	Comparative Analysis Disease Analysis Structural Variation (CNV) and Annotation
Exome /Target Sequencing	Alignment and summary Variant Calling (SNP, INDELS) and Annotation	Comparative Analysis Disease Analysis
Transcriptome Resequencing	Expression Profiles Differentially Expressed Genes (DE)	Fusion Gene, Gene Set Analysis Variant Calling and Annotation Comparative Analysis
Transcriptome De Novo Sequencing	De-novo Assembly Annotation (GO)	Differential Expression of Genes Annotation (GO), visualization Variant Calling and Annotation
sRNA Sequencing	Expression Profiles Prediction of known and novel sRNA Prediction of known and novel miRNA	Differentially Expressed miRNA Gene Set Analysis Comparative Analysis
Metagenome Sequencing	De-novo assembly Alignment and summary Blastx	Gene Prediction, Prediction of functionality of each gene candidate, Statistical analysis of two or more meta-genomic samples
Epigenome Sequencing	Global Methylation Profiles Specific Methylation Profiles Differentially Methylation Regions (DMR)	DMR-Associated Genes Gene Set Analysis Comparative Analysis
Single Cell Sequencing services	ATAC Sequencing, Spatial Transcriptomics, Immunoprofiling, SSC Transcriptomics	pre-installed pipelines with GUI and customized interface for superior computing

We are committed to provide State-of-the-art analytics solutions with our innovative and scientifically skilled Bioinformatics team and unmatched high performance computing facility reducing turn around time and efficient workflows.

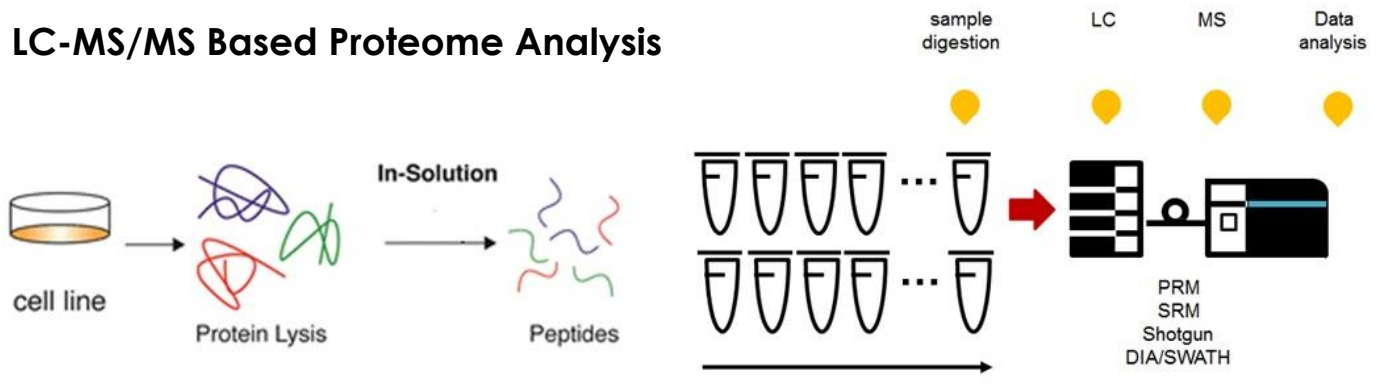
PROTEOME ANALYSIS

We are Leading Service Provider of Proteomics Services and Solutions

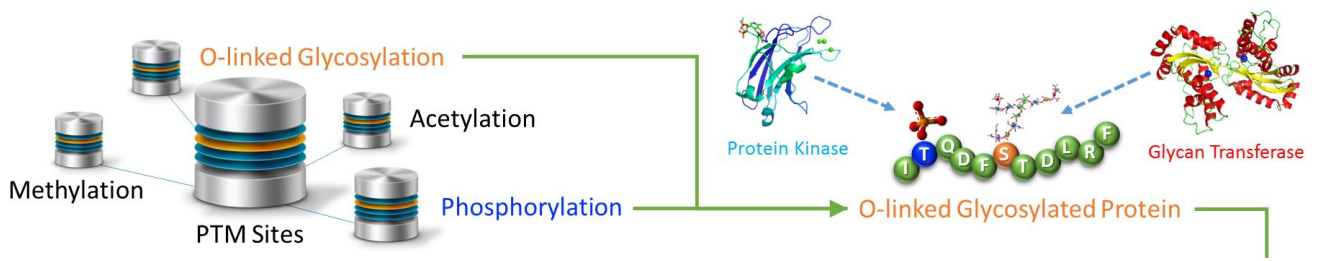


Our proteomics department operating state-of-the-art analytical instruments providing most advanced analytical techniques for proteomics and metabolomics in medical diagnostics and research. Our facility is equipped with an end-to-end instruments required for effective analysis of biological samples. Additionally, we provide training, support design of experiment and analyzing the data.

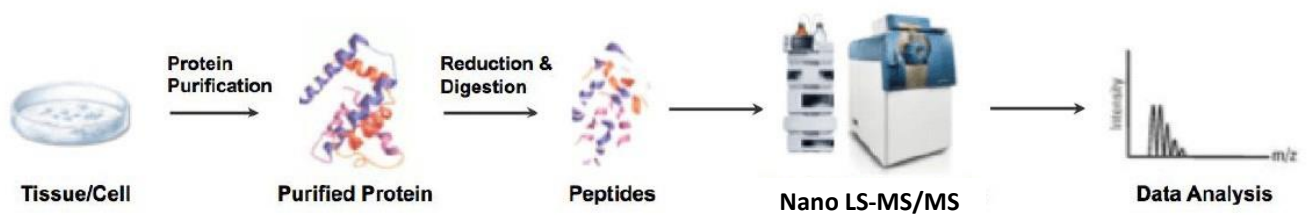
LC-MS/MS Based Proteome Analysis



Protein post-translational modification analyses



Quantitative Proteomics : Label Free Quantification, iTRAQ TMT etc.



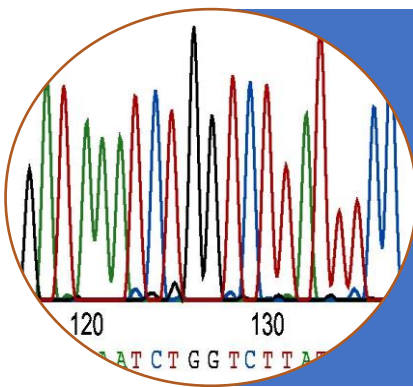
OUR PRODUCTS

We have range of Life Science Products Including Custom Services



CUSTOM OLIGO SERVICES

We have range of Custom Oligo Synthesis services Including Primer Designing and Synthesis, Custom Gene synthesis, RNA Synthesis, Peptide Synthesis



SANGER SEQUENCING

We are providing ABI 3730 XL Sanger sequencing services for Fragment analysis, PCR product sequencing, Plasmid Sequencing, Primer Walking etc.

MOLECULAR BIOLOGY KITS

Centyle Biotech in association with world leading Life Science and Molecular Biology manufacturer's providing molecular Biology Kits and Reagents Including DNA/RNA Extraction kits, PCR master Mix, Enzymes etc for routine research practice.



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