



Precision to the last nucleotide

One Stop Solution for

- NGS Data Analysis
- Microarray Data Analysis
- Bioinformatics Application Development



Company Overview

ArrayGen is a global bioinformatics company, founded by Mr. Rajesh Mahato in June 2014. ArrayGen specializes in Genomics data analysis and developing custom bioinformatics tools. We constantly strive to develop new solutions, and plug the existing gaps in the technological advancement of the field. Our novel Array Design Approach Strategy (ADAS) aims to condense the time lag between demands of scientific community and manufacture industry, and expedite research with the help of latest technologies.

Benefits with ArrayGen:

- Cost-effective High-genome exploring solutions.
- Research-driven cutting edge technology utilization.
- Best in class microarray design service for diverse biological problems.
- Expertise in Bioinformatics Algorithms and application development.

Vision

We aspire to be a leading Bioinformatics Services company with a strong genomics focus. Our vision is to enable cutting-edge research in a wide spectrum of Bioinformatics Genomics applications including Next Generation Sequencing(NGS) data analysis, custom array design and microarray data analysis.

Mission

- Provide a strong Bioinformatics research platform for design of microarray experiments.
- Cater to the academic and industry requirements in the field of Bioinformatics and NGS - Genomics, and remain up-to-date with current research in the domain of the life sciences applications.
- Build time-saving, robust and high-quality customized microarrays, and deliver accurate microarray data analysis services.

Values

- Self-motivation
- Customer-Centric
- Accuracy and Innovation
- Adherence to Processes / Protocols

Our Services

ArrayGen offers an expanded selection of custom services and solutions in Genomics Bioinformatics. We assess and evaluate the customer requirement and select the most appropriate protocol and tools to achieve the desired result in the shortest possible time. Our focus is on **improving algorithms** for their Processing Times, Accuracy, Sensitivity, and Specificity through Genomics Bioinformatics.

Below is the list of all genomics services we undertake:

Array Design Services	Clinical Genomics Services
Microarray Data Analysis	AgriGenomics Services
NGS Data Analysis	Bioinformatics Services

• Array Design Services

- Custom Array Designing
- Array Conversion
- Array Redesigning
- Biological Annotation
- NGS Data Validation
- Array Design Process

• Clinical Genomics Services

- Gene Expression
- MicroRNA
- Pan-genome
- Alternative Splicing
- Chip-on-Chip
- DNA Methylation
- aCGH / CNV
- SNP
- Target Capture

• AgriGenomics Services

- **Microarray Data Analysis Services**

- Gene Expression Profiling Analysis
- miRNA Analysis
- Chip-on-Chip Analysis
- DNA Methylation Analysis
- aCGH / CNV Analysis
- SNP Analysis

- **NGS Data Analysis Services**

- De novo genome and transcriptome assembly
- Genome alignment and analysis
- Chip-Seq Analysis
- Methylome-Seq Analysis
- RNA-Seq Analysis
- MicroRNA-Seq Analysis
- Targeted re-sequencing (Exome-Seq) Analysis
- DNA-Seq (Genome variant Detection) Analysis
- Mapping, Annotation and Comparative Genomics Analysis (CGA)
- Metagenomics Analysis

- **Bioinformatics Services**

- Functional Gene Annotations / Genome Annotation
- Gene / Orf Prediction
- Gene Ontology and Pathway Enrichment Analysis
- Genome alignment and Analysis
- Motif Prediction
- Multiple sequence alignment
- BLAST / BLAT Data Analysis
- Comparative Genomics
- Phylogenetic Analysis
- Databases and Data mining

Our Products

At ArrayGen, we are dedicated to providing the high quality microarrays chip development and bioinformatics products for all life sciences research at the lowest available price.

Below are the list of all products developed by ArrayGen:

- **Agilent Catalog Microarrays**

- Gene Expression Arrays
- aCGH / CNV Arrays
- SNP + CGH Arrays
- Target Capture Arrays
- NGS Disease Gene Panels

Gene Expression Arrays

ready to use custom microarray designs for Gene expression profiling study

Start using Gene Expression Arrays

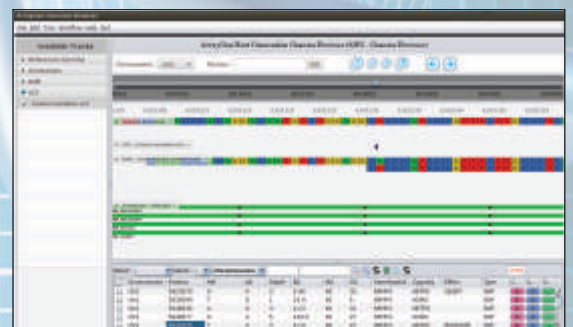
Archaea

Bacteria

Eukaryota

- **ArrayGen Next-Generation Genome Browser (ANG Genome Browser)**

The ANG genome browser is a visualization tool, developed by ArrayGen Technologies Pvt. Ltd. This is a fast and an efficient genome browser, built with JavaFX and Java swing. ANG genome browser was built for latest next generation sequencing data analysis. It is platform independent and much simpler to use.



Workshops / Training

At present, Bioinformatics is a fast growing field both at the level of Academia and Industry. At ArrayGen, we are keen to impart the expertise in genome-informatics through workshops and training programs. ArrayGen runs a series of bioinformatics workshops to train researchers in developing their own data analysis methods, and enabling them choose the right tools in their specific research projects. Each workshop includes both lectures and hands-on sessions.

ArrayGen offers the following genomics and bioinformatics training courses with a focus on improving participants' practical applications, by using the appropriate theoretical knowledge:

Bioinformatics (Understanding Genomics)

- Overview of bioinformatics
- Introduction and Overview of Biological Databases
- Database searches (Text Based & Sequence Based)
- Overview & Introduction to bioinformatics tools (UCSC Browser, BLAST, VISTA Tools, clustalW, Phylip, Motifs)
- Gene Prediction and Genome Annotation
- Introduction to Comparative Genomics (Methods & Applications)
- Introduction to Functional Genomics (Microarray & NGS Technology)

Next Generation Sequencing (NGS) Data Analysis

ArrayGen training program covers both theoretical and hands-on practical sessions for all major NGS data analysis applications including read quality filtering, read mapping, variation discovery, annotation etc.

- Introduction to NGS (Sequencing technology, Introduction to Unix commands, Data formats, Data Quality check)
- De novo genome and transcriptome assembly
- Chip-Seq Data Analysis
- RNA-Seq Data Analysis
- miRNA Data Analysis
- Genome Variant Data Analysis

The workshops and training program can be held on-site at the client's location or through web-based sessions.

At ArrayGen, we strive to arrange custom training sessions as per your requirements. Workshop sessions can be of varied duration - for example 3 hours, 1 day, 5 days, 1 month, 3 months, and 6 months. We invite students, researchers, and working professionals to take advantage of our training modules.



Our Partners

Ilife Biotech



Morph Bioinformatics - UK



Contact Us

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