



ArrayGen

Precision to the last nucleotide

One Stop Solution for:

-NGS Data Analysis

-Microarray Data Analysis

-Bioinformatics Application Development

-Genomics Services



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. We have collaboration with other Labs/ Company for **wet Lab services**.

List of Services:

- **Array Design Services**
- **Clinical Genomics Services**
- **Microarray Data Analysis**
- **AgriGenomics Services**
- **Bioinformatics Services**
- **NGS Data Analysis**
- **Wet Lab Services**

Clinical
Genomics
Services

AgriGenomics
Services

ArrayGen
Dry Lab
Services

Array
Design
Services

Microarray
Data Analysis

- > Array Conversation
- > Biological Annotation
- > Array Design Process
- > Array Redesigning
- > NGS Data Validation

Custom Array Designing

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

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

- > Functional Gene Annotation / 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

NGS
Data
Analysis

Bioinformatics
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

Workshop / Training

30 days / 15 days online and offline training, 2hrs (Monday to Saturday).

It includes:

Module I – Advanced Bioinformatics & basic programming

Module II – Microarray (Gene Expression Profiling) Data Analysis

Module III- Next Generation Sequencing (NGS)

Internship

Benefits:

We can help you to get hands on experience of the real competitive world.

Internships are offered in

- > Genomics Bioinformatics
- > Algorithm Development
- > Biological Database Development
- > Microarray Data analysis
- > Microarray Chip Designing
- > NGS Data analysis
- > Custom projects

Duration of internship: 2 months / 3 months / 6 months / 12 months (Online / Offline)

ArrayGen Wet Lab Services

Animal genetics & Pharmacogenetics

- > Genetic Disease Test
- > Milk Production Trait Test
- > Animal Karyotyping
- > Paternity Testing
- > Brucellosis Detection PCR Test
- > Mastitis

Molecular Diagnostic services

- > Bacterial Pathogen PCR Test
- > Viral Pathogen PCR Test
- > Karyotyping Test
- > Cancer Genetics Test
- > Fluorescent In Situ Hybridization Test
- > Genetic Analysis PCR Test
- > Predictive Genetic Test
- > Genodermatology Test
- > Advanced Genome Analysis Test

NGS, Genotyping & Gene expression

- Sequencing Technologies used are Illumina HiSeq 2500/ MiSeq, PacBio RSII, Roche GS FLX++, GS Junior, Life Technologies' Ion Proton.**
- NGS**
- > Genome Sequencing
 - > Resequencing & amplicons
 - > Transcriptome sequencing
 - > Libraries & bioinformatics
- Genotyping & Gene expression**
- > SNP genotyping
 - > Sequencing based genotyping
 - > Genome wide association studies (GWAS)
 - > Microsatellite Genotyping Services
 - > Gene Expression services
 - > Microsatellites
 - > Human identification
 - > Copy number variation

Contract research services

- > DNA Cloning
- > Bacterial Identification
- > DNA Fingerprinting
- > Site Directed Mutagenesis
- > Pathogen Detection
- > T-RFLP Services
- > Algal and Cyanobacterial Identification Services
- > DNA Sequencing
- DNA & RNA Oligonucleotides**
- > Optimised Application oligos
- > Oligo Design
- > Customised RNA oligos & DNA oligos
- Custom DNA sequencing**
- > Tube Sequencing
- > Plate Sequencing

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 is the list of all products developed by ArrayGen:

Agilent Catalog Microarray

- 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.



Our Partners

Morph Bioinformatics – UK



ILife Biotech



Contact Us:

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