



JKA Genomics The DNA Pooling People

JKA Genomics scientists helped pioneer DNA pooling for large-scale association studies. We then solidified our expertise performing more than 1,000 genotyping assays for medical and academic investigators. Delivering accurate, powerful results, we are now regarded by many researchers and vendors as “the DNA pooling people.”

Why DNA Pooling?

The key benefits of DNA pooling are reduced costs and data efficiency. By combining 20 to 25 DNA samples – our recommended pool size – and testing them as a single sample, we significantly reduce the costs of genotyping assays and whole-genome association studies.

An assay of moderate scope – 250 cases, 250 controls – can cost in excess of \$300,000. Analysis of the same samples using JKA’s pooling methodology can cost as little \$20,000. Results from pooled DNA also achieve high degrees of accuracy and power.

DNA pooling provides benefits in data efficiency as well. A set of 500 samples assayed individually generates more than 800 GB of raw data. Those 500 samples combined into 20 pools generates approximately 40 GB of data.

JKA’s informatics service further reduces the costs of managing and analyzing these data volumes by relieving investigators of the high costs associated with hardware, software, and informatics specialists.

www.jkagenomics.com



SNP Genotyping Services For Genetics Investigators

Proven DNA Pooling Methodologies

High-Throughput Affymetrix® Platforms

Innovative Informatics Services

Accelerate Gene Discovery and Research Programs

Reduce Genotyping Costs by 50%-90%

Trust Our Experience for Fast, Accurate Results



755 Research Parkway, Suite 530
Oklahoma City, OK 73104
405-271-8045
info@jkagenomics.com

www.jkagenomics.com

Accelerate Discovery, Improve Lives and Health

JKA scientists have performed more than 1,000 genotyping assays, helping investigators identify genes associated with:

- Systemic Lupus Erythematosus
- Pulmonary Arterial Hypertension
- Diabetes
- Cystic Fibrosis
- Multiple Sclerosis
- Juvenile Rheumatoid Arthritis
- Autoimmune Thyroid Disease
- Myopathy
- Hepatitis C
- Tuberculosis

At JKA Genomics, we strive to develop and sustain collaborative relationships with our customers and thus optimize our mutual effort to discover useful new knowledge. We are committed to providing service and assistance every step of the way – from testing design to analysis and delivery of results via our secure, convenient web portal.

The Researcher's Source for Expert, Best-Cost SNP Genotyping Services

Your goals and ours are the same – accelerate gene discovery to improve human health. JKA Genomics' SNP genotyping services help genetics investigators achieve superior results faster while reducing the costs of genotyping by 50% to 90%. Our years of experience and our three core services – DNA pooling, microarray analysis, and innovative informatics – generate significant economies of scale that we pass on to you as cost savings and rapid turnaround.

DNA Pooling

DNA Pooling is an accurate, cost-effective means of estimating allele frequencies and identifying genes associated with specific phenotypes.

Analysis of individual DNA samples as part of a whole-genome association study often costs more than \$1 million. Analysis of the same DNA combined into pools of 20 to 25 samples (our recommended pool sizes) typically reduces this cost by 50 percent – and in some cases by as much as 90 percent.

The efficiencies and economies of scale enabled by DNA pooling translate into cost savings and faster results for researchers.

Microarray Analysis

JKA Genomics performs genotyping assays on microarray platforms from industry leader Affymetrix®, including:

- Genome-Wide Human SNP Array 6.0
- Genome-Wide Human SNP Array 5.0

- Mapping 500K Array Set

- GeneChip® Mapping 100K Set

Innovative Informatics

JKA Genomics' informatics service reduces the high costs associated with the volumes of data generated by genomic analysis – often measured in terabytes.

Our complete computing infrastructure, best-of-breed analysis software, informatics expertise, and password-protected results web portal allow us to deliver better information faster and minimize your informatics costs.

Results

Because of our singular focus on SNP genotyping services and our rapid turnaround times, investigators using JKA Genomics services are able to accelerate their genetic association studies, publish results faster, and move more quickly into further phases of their research programs.

JKA Genomics Team



Beth Cobb, MBA
Chief Operating Officer



John Harley, MD, PHD
Scientist



Ken Kaufman, PhD
Scientist



David Hutchings, MS
Bench Scientist



Jeff Kilpatrick, BS
Informatics Technologist



755 Research Parkway, Suite 530
Oklahoma City, OK 73104
405-271-8045
info@jkagenomics.com