



# Genomics and Proteomics Core Laboratories

[www.genetics.pitt.edu](http://www.genetics.pitt.edu)

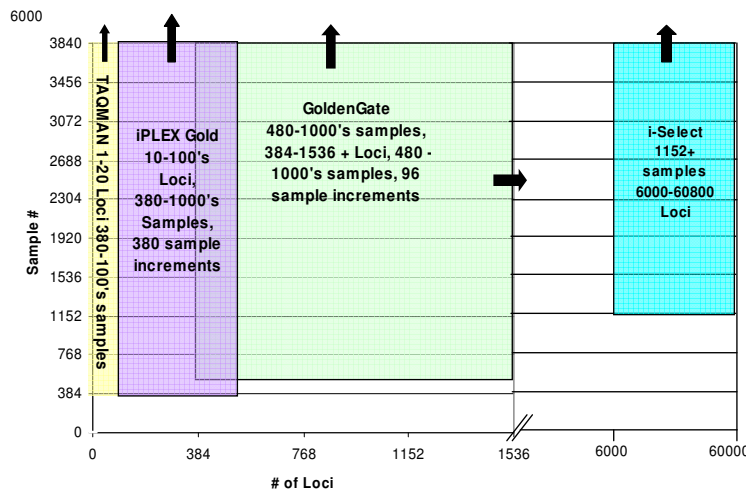
412-648-9440

## SNP Platforms available at the GPCL

### User-Defined Content for targeted analysis

Custom assays can be designed for any species of known genomic sequence.

- \* **Taqman® Allelic Discrimination** – requires minimum sample numbers for cluster analysis. Pre-designed assays available for Mouse and Human.
- \* **Sequenom iPLEX® Gold** – compatible with some loci that cannot be detected via Taqman.
- \* **Illumina® GoldenGate®** - requires minimum sample numbers for cluster analysis.



*Most cost-effective technology for a project is function of number of loci & size of sample set.*

### Fixed Content for mapping and association

#### Affymetrix Arrays

The Genome-Wide Human SNP Arrays 5.0 and 6.0 are the latest releases from Affymetrix. In addition to the SNP content, both platforms contain probes specifically designed to optimize CNV analysis. CNV probes target areas of known variation as identified by the Toronto Database of Genetic Variants and loci evenly spaced across the genome for detection of novel CNV. Affymetrix software supports CNV and LOH analysis.

#### Illumina Infinium®

Illumina Infinium platform focuses on tag SNPs evenly spaced across the genome. The 660w-quad includes 550K SNPs plus 100K additional probes for CNV analysis while the 1M-duo interrogates more than 1.1 million tag SNPs for association and CNV analysis. 1M-duo can also be semi-customized with addition of up to 60,800 SNPs. Infinium arrays also available for porcine, ovine and equine genomes.

#### Illumina GoldenGate

A fixed content assays are available for the GoldenGate platform for both mouse and human genotyping.

**For further information on any of these platforms, please contact:**

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