

Genomics Services

Advanced genomic analysis of preclinical study samples

Significantly enhance your preclinical data by using next generation sequencing (NGS) and customized data analysis. Use high quality, interpretable genomics to guide your decision making.

Rely on our experienced genomics services to:

- Gain in-depth biological insight through highly sensitive sequencing methodologies including PCR, real-time PCR, and NGS
- Speed up your timelines with integrated end-to-end support from nucleic acid extraction, sequencing, bioinformatics analysis, reports, and visualization
- Streamline your preclinical workflow by integrating genomics into your existing *in vitro* or *in vivo* studies
- Take advantage of our expansive model datasets, including our large database of NGS-characterized models
- Leverage the full benefits of your in-life and terminal samples by utilizing various sample types including fresh and frozen cells and tissue, FFPE, biopsies, and mouth swabs

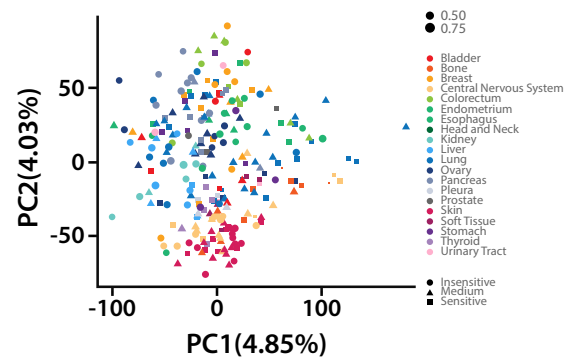
Take more informed decisions through an in-depth understanding of response and resistance to your agents:

- Explore and validate drug mechanism with advanced statistical analyses
- Identify genetic signatures of drug response through profiling your preclinical samples, utilizing our historical datasets, and applying our proprietary algorithm for biomarker discovery
- Understand drug resistance by interrogating the immunogenomics of tumor-immune interactions

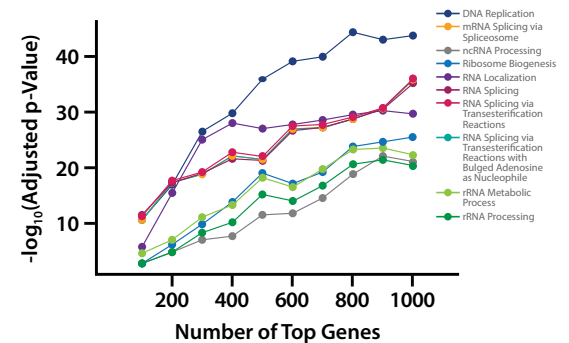
Choose from two secure and convenient reporting options:

- Tier 1: FASTQ (raw data)
- Tier 2: FASTQ, processed data (i.e. expression, mutation, copy number, gene fusion), and comprehensive report
- Consultation included with all tiers
- Secure data transfer via Amazon Web Services
- 1 year storage included with service pricing
- Long-term storage available

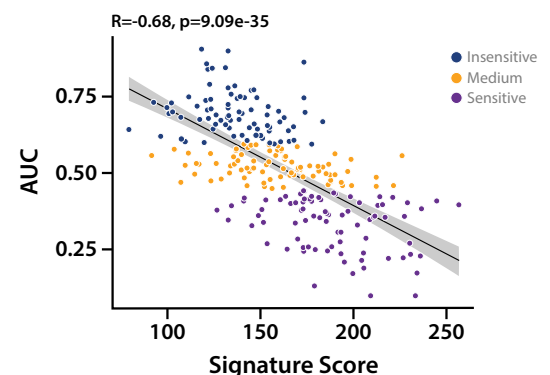
Global Gene Expression of Cell Lines



Gene Ontology Analysis of Biological Processes



Validation of Composite Biomarker



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 **Schedule Scientific Consultation**
Request a consultation to discuss your project.
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 **Additional Resources**
Read supporting publications, white papers, watch presentations, and more.
crownbio.com/resources