QIAGEN Ingenuity Pathway Analysis (IPA) Training
Louisiana State University
9 am – 4 pm, Tuesday, August 20th, 2024
Location: LSU Main Campus, Baton Rouge, Digital Media Center at LSU, DMC 1034

This training is sponsored by the Louisiana Biomedical Research Network (LBRN) and the LSU School of Veterinary Medicine Department of Biotechnology and Molecular Medicine (BIOMMED)

Ingenuity Pathway Analysis

9 am – 9:30 am: Introduction to IPA

Learn how IPA can help you with your grant applications and publications

9:30 am – 12 pm: Perform Pathway Analysis on 'Omic Data

Users will learn how to:

- Perform pathway analysis on user's data
  - Dataset format, upload, and pathway/core analysis
  - Discover key biological mechanisms, regulators and targets
- Compare different groups (time points, treatments, single cell clusters etc.)
  - Activity heatmap for pathways, regulators and biological functions
  - Compare contrast activity of pathways, biological functions and regulators
  - Discover condition specific biomarkers
- Compare user data with public data
  - Analysis Match heatmap
- Generate network using genes, chemicals, and disease of interest even without dataset
  - Design your own pathways using My Pathways
  - Find information on molecules of interest using IPA Gene View page
  - Predict activity of custom network using Molecule Activity Predictor

1 pm – 2 pm: QIAGEN CLC Genomics Workbench

Powerful and scalable NGS data analysis for any species, any platform, any workflow

2 pm – 3:30 pm: Mine IPA's rich database for novel discoveries

Users will learn how to:

- Leverage public data
  - Easily search and open pathway analyses of public data (GEO, SRA, etc.)
  - Study biological mechanisms and discover key regulators/drug targets
  - Identify gene signatures and key regulators common across datasets
- Edit, expand, modify, and overlay public data on a network for genes, chemicals and diseases of interest
- Study gene or biomarker expression across different tissues, diseases, cell types and more from public sources

3:30 pm – 4 pm: QIAGEN QIAseq solutions

4 pm – 4:30 pm: Q&A session

Registration Link: https://forms.office.com/e/DGKau387Cw

Participation requires a confirmation e-mail due to limited seating

Registration QR Code

Instructor:
Tim Hou, PhD
Field Application Scientist
QIAGEN Digital Insights

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