Hello!!

- Chief Data Science Officer @ Zansors
- Adjunct faculty at Georgetown
  - Data visualization, Big Data
- Adjunct faculty at GMU
- Over 10 years as data scientist at NIH

Genomics

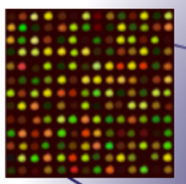
Whole genome analysis, SNP analysis, exome analysis, CGH analysis, epigenome analysis

Data Management

AI, machine learning, quantum computing, big database construction, semantic web full-text search, data mining, graph mining, HPCI, cloud services

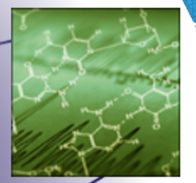
Transcriptomics

Gene expression analysis, RNA-Seq analysis, transcription factor binding site analysis



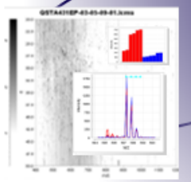
Chemoinformatics

Lead compounds, and virtual chemical compound screening, side-effects and toxicity prediction



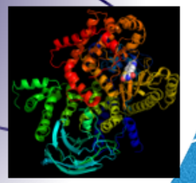
Proteomics

Protein expression analysis, phosphorylation analysis, post-translational modification analysis, polyspecimen analysis



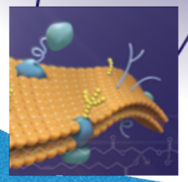
Structural Informatics

Amino acid sequence/protein structure analysis, molecular dynamics (MD) simulation, protein tertiary structure prediction, docking simulation



Metabolomics

In vivo lipid profile analysis & identification, metabolic pathway analysis, rapid carbohydrate trace analysis



Systems Biology

Network analysis, pathway analysis, metabolic flux analysis, biosimulation, bioprocess design

Knowledge

https://www.mki.co.jp/english/bioinformatics.html