



# Bioinformatics & Systems Biology

## Virtual Summer Seminar Series

Join recorded talks at: <https://ucsd.zoom.us/j/3102371470>

August 21st, 12:00-1:30 PDT

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**Tal Einav, PhD** - Professor, La Jolla Institute for Immunology  
Talk: Creating Personalized Vaccines for Influenza and other Viruses  
Keywords: immunology, machine learning, influenza virus



**Ruben Abagyan, PhD** - Professor, Skaggs School of Pharmaceutical Sciences  
Talk: Finding New Drugs in Chemical Universe & 3D proteome  
Keywords: drug discovery, HPC computing, ligand docking



**Jason Sicklick, MD** - Professor, Department of Surgery  
**Jill Mesirov, PhD** - Professor, School of Medicine Division of Medical Genetics  
Talk: Cancer Genomics and Precision Oncology - Bench to Bedside and Back  
Keywords: cancer, transcriptomics, translationKeywords: drug discovery, HPC



**Trey Ideker, PhD** - Professor, Department of Medicine  
Talk: Digital Tumor Cells for Precision Oncology  
Keywords: cancer, genomics, machine learning, artificial intelligence

August 28th, 12:00-1:00 PDT

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**Theresa Guo, MD** - Assistant Professor, Department of Otolaryngology  
Talk: Identifying Aberrant Splicing Events in Cancer as a Source of Strong Neoantigens  
Keywords: cancer, splicing, neoantigens



**Sheng Zhong, PhD** - Professor, Department of Bioengineering  
Talk: AI-powered drug discovery for Alzheimer's Disease  
Keywords: genomics, brain organoids, Alzheimer's, artificial intelligence

September 4th, 12:00-1:00 PDT

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**Shankar Subramaniam, PhD** - Professor, Department of Bioengineering  
Talk: Systems Medicine - Insights into Cancer and Neurodegeneration  
Keywords: systems biology, triple-negative breast cancer, Alzheimer's



**Pallav Kosuri, PhD** - Assistant Professor, Salk Institute  
Talk: DNA Origami Movement Microscopy and Single-cell Spatial Omics  
Keywords: spatial transcriptomics, DNA origami, single-molecule biophysics

