

CURRENT AND FORMER AWARDEES

Quantitative Biology Fellows

2024 RECIPIENTS

Isabella N. Grabski, PhD

"A probabilistic framework for deconvolving causal mechanisms of cancer therapeutics with genetic perturbation screens" at New York Genome Center

Jeremy A. Owen, PhD

"The biophysics of substrate recognition in chromatin remodeling" at Princeton University

Ahmed Roman, PhD

"Signal bottleneck theory for dissecting gene interactions in pancreatic cancer" at Dana-Farber Cancer Institute

Jakob Wirbel, PhD

"Microbial genome variation in hematopoietic stem-cell transplantation patients" at Stanford University School of Medicine

2023 RECIPIENTS

Nicholas C. Lammers, PhD

"A computational platform for predicting whole-embryo morphologies from single-cell transcriptomes" at University of Washington

Youngmu (Nick) Shin, PhD

"Exploring phase condensation as a general mechanism for organizing cell-cell communication assemblies" at University of California, San Francisco

Carolina Trenado-Yuste, PhD

"Screening migratory modes and drug delivery schedules in 3D spheroids of triple-negative breast cancer cells" at Princeton University

2022 RECIPIENTS

Cong Ma, PhD

"Modeling spatial organization and interactions among genetic and epigenetic states across cancer types" at Princeton University

Sukrit Singh, PhD

"Physics-driven prediction of drug-resistant clinical mutations to improve precision oncology" at Memorial Sloan Kettering Cancer Center

Yapeng Su, PhD

"Quantitative analysis to elucidate spatial-temporal heterogeneity of therapeutic T cell dysfunction mechanisms in the context of adoptive cell therapy against pancreatic cancer" at Fred Hutchinson Cancer Research Center

2021 RECIPIENTS

Tin Yi Chu, PhD

"Statistical modeling of cell-cell interactions in normal intestine, inflammatory bowel disease and colorectal cancer using single cell and spatial transcriptomics" at Memorial Sloan Kettering Cancer Center

Haripriya Vaidehi Narayanan, PhD

"Developing a mechanistic multi-scale framework relating signaling and spatiotemporal dynamics in B-cell affinity maturation and lymphomagenesis" at University of California, Los Angeles

Esther Wershof, PhD

"Three-dimensional spatiotemporal organization of the gut tube in early organogenesis" at Memorial Sloan Kettering Cancer Center

2020 RECIPIENTS

Jeremy Copperman, PhD

"Whole-cell modeling for the prediction and control of micro-environmentally regulated proliferative and migratory variability" at Oregon Health and Science University

Tal Einav, PhD

"Quantifying a polyclonal immune repertoire's ability to bind influenza" at Fred Hutchinson Cancer Research Center

Siting Gan, PhD

"In situ single-cell dissection of the tumor-microenvironment interplay mediating brain metastasis" at Memorial Sloan Kettering Cancer Center

Vitor Mori, PhD

"EBUS-TBNI of cisplatin optimization in heterogeneous lung tumors" at University of Vermont

Denis Schapiro, PhD

"Single cell pharmacodynamics and spatial signatures of drug response in the intact tumor microenvironment" at Harvard Medical School

Collin Tokheim, PhD

"Computationally identifying oncogenic substrates of the ubiquitin-proteasome system in human cancers" at Dana-Farber Cancer Institute

Shou-Wen Wang, PhD

"Inferring cell fate choice from clonal and transcriptomic data, with application to hematopoiesis" at Harvard Medical School

Runmin Wei, PhD

"Integrating single cell genomic and spatial information to delineate tumor heterogeneity and microenvironment interactions in inflammatory breast cancer" at University of Texas MD Anderson Cancer Center

Hang Xu, PhD

"Investigating the dynamics of chromosomal instability in cancer" at Stanford University School of Medicine