DIVISION OF MATHEMATICAL ONCOLOGY AND COMPUTATIONAL SYSTEMS BIOLOGY
Department of Computational and Quantitative Medicine

The Division of Mathematical Oncology and Computational Systems Biology in the Department of Computational and Quantitative Medicine consists of mathematicians, physicists, and engineers that collaborate with biologists and clinicians to advance research in cancer and diabetes. The Division and Department are part of the Beckman Research Institute at City of Hope and are integrated into all aspects of basic and translational research in cancer and diabetes. Research in the Division ranges from theoretical modeling to algorithms and method development, to data science. Together, computational, experimental, and clinical researchers collaborate to invent and translate therapies for cancer and diabetes into the clinic.

This 'virtual coffee hour' features faculty and staff in the Division, with brief 5-minute informal overviews of their research, followed by a discussion session.

https://www.cityofhope.org/mathematical-oncology

2:00 – 2:30pm
Russell C. Rockne, Ph.D. Director, Associate Professor. Overview of Mathematical Oncology at City of Hope

Andrei Rodin, Ph.D. Co-Director, Associate Professor. Computational systems biology: from molecular evolution to molecular medicine

Sergio Branciamore, Ph.D. Assistant Professor. Probabilistic approaches to disease and evolutionary dynamics in biological systems

Vikram Adhikarla, Ph.D. Assistant Research Professor. Physics, mathematics, and cancer

Adina Matache, Ph.D. Senior Research Associate. From satellite to immune cell communication systems

2:30 – 3:20pm
Open discussion