

BIOINFORMATICS SEMINAR

SUBHAJYOTI DE

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Department of Pathology and Laboratory Medicine*

**RUTGERS CANCER INSTITUTE OF NEW JERSEY,
RUTGERS UNIVERSITY**

TUMOR EVOLUTION AT MULTIPLE DIMENSIONS

Cancer is a genetic disease marked by somatic evolution and intra-tumor heterogeneity. By the time of detection, a typical tumor comprises of billions of malignant cells that belong to multiple distinct subclonal cell populations, which trace their evolutionary lineage back to a single tumor initiating cell. In the first half of my talk, we will discuss aspects of genetic changes and associated mutational signatures in tumor genomes during tumor progression. Next, we will examine patterns of intra-tumoral genetic and non-genetic heterogeneity and their significance in the context of tumor phenotype and evolvability.

BIOGRAPHY

Dr. De is an Associate Professor in the Department of Pathology at Rutgers Cancer Institute of New Jersey. He is affiliated with the Center for Systems and Computational Biology and Genome Instability Program at Rutgers Cancer Institute. Dr. De completed his undergraduate degree in engineering from Indian Institute of Technology, and completing his PhD from Cambridge University UK, before doing postdoctoral research at Dana Farber Cancer Institute as an HFSP Fellow. His group uses systems biology approaches integrating experimental, genomics, and computational techniques to identify fundamental principles of mutability and evolvability of somatic genomes.

**CBCB
SEMINAR
10/26/2020**

3:30 PM

**ZOOM:
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