



Biomedical Informatics Grand Rounds



Eric Brouzes, PhD

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Technology Development for Single-Cell and Spatial Genomics

Wednesday, May 6, 2020 3 pm—4 pm

Abstract:

In this presentation, we will review the efforts of our laboratory to advance technological platforms for single-cell and spatial genomics. We will put those efforts in the context of current platforms, which will provide a review of the field.

Bio:

Dr. Brouzes heads the laboratory "Microfluidics for Quantitative and Genomic Biology" in the Department of Biomedical Engineering of Stony Brook University. He majored in Physics at the ESPCI in Paris and studied mechanical effects during the early development of the fly embryo during his Ph.D. at the Institut Curie. He then joined Harvard Medical School to pursue a post-doc in the laboratory of Dr. Perrimon in the Genetics department. There he collaborated with a start-up company, Raindance Technologies, before joining it as a senior scientist. He discovered microfluidics during his tenure at Raindance Technologies and opted to apply the technology to develop platforms to probe tissues at single-cell resolution. Recently, his laboratory has developed principles to manipulate single cells and single particles in a passive way and has invented a novel device to perform spatial genomic analysis of tissues.

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