



Department of Epidemiology and Biostatistics Biostatistics Seminar

Wednesday, November 18, 2015
12:00pm - 1:00pm -- WG73

“Statistical issues in Single Cell Analysis”

Dr. Omar De la Cruz Cabrera, Instructor
Department of Epidemiology and Biostatistics, CWRU

Abstract:

New technologies in molecular biology have made it possible, in the last few years, to accurately measure the levels of gene activity, of epigenetic modifications, and even the sequencing of whole genomes, using the nuclear material of a single cell. At this level of detail, statistical analysis needs to take into account not only measurement error but also stochastic variation from cell to cell in order to obtain sensible inferences. We will survey some of the work done in this cutting-edge field of research.