



Seminar

A Genomics (R)evolution: Harnessing the Power of Single Cells



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Date: Thursday, December 12th, 2013

Time: 3:30 pm – 4:30 pm

Hosted by: University of Georgia, Genomic Facility

Location: Miller Plant Sciences Building, RM#1501

Presenter: Pedja Sekaric, Ph.D. (Fluidigm Field Application)

Talk abstract

Relying on average measurements will often be misleading when the cells being studied are heterogeneous. By applying single-cell genomic techniques, the role of cell heterogeneity in complex phenomena such as stem cell differentiation and cancer development can now be directly assessed.

The purpose of this seminar is to take a deeper look into new approaches required to study genomics and transcriptomics at the single cell level, and technologies that are being developed to do so.

Understanding global gene expression patterns in single cells has dramatically advanced cell biology. The new, simplified Fluidigm C₁[™] microfluidic system leverages the sensitivity of the SMARTer[®] Ultra[™] Low RNA Kit to accurately analyze transcriptomes from single cells.

Transcriptome analysis from single cells with the SMARTer Ultra Low RNA Kit.

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