

Analytical Instrumentation Core, DOM, BMC, BUMC

ddPCR: A High-Throughput Droplet Digital PCR System for Detection of Rare Sequences & Gene Expression

12– 1:10 pm, Friday, July 10th, 2015

X-714, 650 Albany St., Boston, MA 02118

Lunch will be provided by Bio-Rad



SPEAKER:

Rick Ando, Ph.D.,
Senior Field
Applications Scientist
BioRad Laboratories

HOST:

Lynn L. Deng, Ph.D.
Director of Analytical
Instrumentation Core,
Lynndeng@bu.edu

ORGANIZER:

Eric Miller
Genomic
Instrumentation
Specialist
Droplet Digital PCR
BioRad
[eric_miller@bio-
rad.com](mailto:eric_miller@bio-rad.com)
1-857-214-9568

INTRODUCTION: Robust detection of low abundant transcripts without pre-amplification is technically challenging. However, ddPCR enables the direct counting of individual molecules, discovers and validates new disease associations, and redefines a new era of molecular research with greater precision and reproducibility than qPCR. This allows researchers to measure gene expression and target quantification even in very low abundance samples. It can be used to profile single-cell transcripts, quantify mutational load in cell-free DNA samples, and identify targeted nuclease-induced mutational events in cells without antibiotic selection.