Droplet Digital PCR Technology

A High-Throughput 3rd Generation PCR Technology for Absolute Quantitation, Copy Number Variation (CNV), Detection of Rare Sequences, Single Cell Analysis, Next Generation Sequencing and Gene Expression

Location: **MaRS Auditorium C**
101 College St.

Time: **Tuesday, September 19, 2017**
12:00 PM - 12:30 PM

Speaker: Dr. Claude Lachance, Application Scientist, Bio-Rad Laboratories

Droplet Digital PCR is a unique technology that enables absolute quantification of nucleic acid target sequences without the need for standard curves. When considering complex matrices (FFPE, liquid biopsies, environmental samples etc.), Droplet Digital™ PCR offers orders of magnitude higher precision and sensitivity than standard qPCR. Bio-Rad's QX200™ Droplet Digital PCR system overcomes the previous lack of scalable and practical technologies for digital PCR implementations and has led to several breakthroughs in the fields of cancer, infectious diseases and environmental sciences.

This talk will provide a technical overview of the QX200™ Droplet Digital PCR (ddPCR) system and its workflow. Data from key applications will be presented, highlighting unique capabilities and higher precision and sensitivity in detection compared to real-time PCR.

√ Accurate measurement of germline copy number variation
√ Sensitive detection of mutant DNA in a 100,000-fold excess of wild type background
√ High throughput ddPCR screening approaches for CRISPR modifications
√ Absolute quantification and qualification of NGS libraries
√ miRNA analysis in plasma
√ Sensitive detection of pathogens or invasive species in habitat, food and populations

Today Droplet Digital™ PCR is enabling researchers to explore complex genetic landscapes, discover and validate new disease associations, and define a new era of sensitive detection.

For further information or to RSVP email: ***sean_wells@bio-rad.com***

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