

# TCAG New Technologies Seminar

## “Sequence Enrichment Using Droplet Based Microfluidics”

**Date:** Tuesday May 5, 2009  
**Time:** 10:00 AM  
**Location:** Room 14-203, MaRS TMDT  
101 College St.  
**Speaker:** Jim Brayer,  
Manager Commercial Scientific Applications  
RainDance Technologies

RainDance Technologies has developed a microfluidics platform to enable the use of PCR for high-throughput amplification of targeted regions from either a contiguous loci or thousands of exons. Recent advances in DNA sequencing technologies have improved accuracy and dramatically reduced the cost of DNA sequencing. However, even with the improved efficiency of these second-generation systems, sequencing thousands of whole human genomes across various phenotypes is expensive and time consuming. In order to exploit the full potential of these new targeted sequencing techniques, a robust method for isolating biologically relevant genomic loci on the megabase scale will be required. The Sequence Enrichment application from RainDance Technologies leverages the sensitivity and specificity of PCR in a novel droplet-based format which avoids the limitations of traditional multiplex amplification or hybridization methods.

**Hosted by The Centre for Applied Genomics and  
the Ontario Genomics Institute**



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