

# TCAG New Technologies Seminar

## “The MassARRAY System: High Performance Analysis of Genomic Markers”

**Date:** Tuesday May 27  
**Time:** 2:00 – 3:30 PM  
**Location:** 2<sup>nd</sup> floor, Room CRL-2B (publicly accessible)  
Peter Gilgan Centre for Research and Learning  
686 Bay St., Toronto  
**Speaker:** Bob Shiels / Hema Liyanage, PhD  
Senior Applications Technology Scientist,  
Sequenom Bioscience

A variety of genomic biomarkers with potential clinical utility continue to be discovered as microarrays and next-generation sequencing tools are applied more broadly in clinical research. The key challenge in translating these markers into clinical applications lies in their validation across larger relevant populations. Technology requirements for biomarker validation are distinct from those for discovery, with throughput, flexibility, affordability, and data accuracy demands being significantly higher for validation. The Sequenom MassARRAY System addresses these demands with a flexible set of tools that enable genomic clinical and translational research. Examples from current studies and internal research will be presented to illustrate the utility of MassARRAY technology in validating different biomarker classes, including SNPs and mutations, gene expression profiles, and epigenetic markers.

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



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