

# TCAG New Technologies Seminar

## “Search Strategies for Interrogating Large Scale Biological Data for Experimental and Clinical Impacts on Breast Cancer”

**Date:** Tuesday Feb. 17, 2009  
**Time:** 1:30 – 2:30 PM  
**Location:** Room 14-203, MaRS TMDT  
101 College St.

**Speaker:** James Flynn, Ph.D.,  
Field Application Scientist,  
NextBio

Breast Cancer is one of the most extensively studied medical conditions. Modern breast cancer research continues to introduce massive amounts of experimental data, clinical findings and text-based knowledge into the public domain. As this information grows exponentially, Biologists find it increasingly more difficult to access, understand and find new discoveries within the world's publically available breast cancer research, data and literature. NextBio enables Biologists to access large scale data in ways which were never before possible. In this session we will explore how principles of Integrative Biology can best be achieved in an environment that semantically links knowledge sources, where ad hoc exploration, search in essence, spans domains and stimulates hypothesis generation and validation. Furthermore, we will discuss how achievements in public health will occur more rapidly when communities convene around the data to discuss advanced thoughts and contribute to the grandest goal, to alleviate the complications of disease. Breast cancer patients present a wide range of markers for clinical disease progression that can effectively drive personalized therapeutic options. In this technology presentation, NextBio will be shown to break barriers to accessing and integrating an expansive diversity of knowledge that empowers research programs. Demonstrations of diverse search strategies that within organized communities lead to discovery and validation of prognostic, diagnostic and therapeutic Breast Cancer biomarkers, drug class effects and pathway perturbations will all be presented.

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



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