

Special BiTmaP Industry Seminar

“Implications of Experimental Design in Microarray Data Analysis”

Presented By:

Eric Bremer, Ph.D.

Chief Scientific Officer

Precision Biomarker Resources

Tuesday, February 13th, 2007

6:15 PM to 8 PM,

909 S. Wolcott St. Room 1020, CMRB

College of Medicine Research Building

RSVP to:

312.243.1289 or email bitmap@techpark.org

Hosted by:

Hui Lu, PhD, Department of Bioengineering, UIC

Gary Keller, MsB - Xomix Ltd. & Chicago Technology Park

Sponsored by the Department of Bioengineering

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Overview

The single most important factor influencing a project is the experimental design. A properly designed experiment increases the chance of success by providing the maximum amount of reliable information in the most cost-effective manner. By contrast, a poorly designed experiment can cost time and money in unreliable results, difficult data analysis and repeated experiments. Dr. Bremer will describe what data is collected in a genomic microarray experiment then cover some important considerations in experimental design, including when a microarray experiment is appropriate, how technology platform choice can impact experimental design and technical factors that may hinder the ability to detect biologic variability (which is the goal of the experiment). He will then describe several methods of overcoming technical variability and analyzing experimental data using real world examples.

Eric Bremer, Ph.D.,

Described by *Bio-IT World* magazine as one of the leading scientists searching for a better way to treat pediatric brain tumors, Dr. Bremer founded Children's Memorial Research Center's (CMRC's) Pediatric Brain Tumor Research Program in 1996. Three years later, he pioneered the use of Affymetrix gene expression analysis for molecular profiling at CMRC by launching the Microarray Core Facility as part of an aggressive assault on the genomics of pediatric brain tumors. The tools he developed for molecular profiling have been recognized by *InfoWorld*, *Bio-IT World* and the *Computer World* Honors Foundation as some of the most innovative bioinformatics applications in the field of medicine. In late 2005, Dr. Bremer helped found Precision Biomarker Resources and currently serves as the company's Chief Scientific Officer where he is responsible for overseeing the company's bioinformatics programs and evaluating new technologies for the company.

Precision Biomarker Resources - www.precisionbiomarker.com

Precision Biomarker Resources provides automated, high throughput microarray services using the latest Affymetrix GeneChip® Microarray platform to expedite the biologic investigations of pharmaceutical, biotechnology and academic researchers. Precision accelerates research and drug development by providing targeted biomarker discovery services, including microarray processing, experimental design consultation, and bioinformatics-based data analysis.

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