

ABSTRACT

There are now 30+ 'omics' technologies that make it possible to collect data on an industrial scale from living organisms. The promises of these 'omics' technologies includes improved health (e.g., novel drugs), enhanced agricultural products (e.g., biofuels) and safe environments (e.g., bioremediation). The data being generated by these high throughput biotechnologies need industrial scale bioinformatics, i.e., industrial scale software engineering, to assure that credible, accurate and precise conclusions are drawn from the data. To date, much of the data has brought new insights to our basic understanding of biology, but the promised applications have yet to be realized. This is due in part to an information gap between the biological information and translational researchers. Bioinformatics needs to develop translational tools to assure that information is being provided to practitioners in formats that will enable the promises of 'omics' to be realized.

SPEAKER BIOGRAPHY

Most often cited for his discovery of the so-called "Beavis Effect," Dr. Beavis gained extensive experience in the application of statistical genetic methods during his twelve years at Pioneer-DuPont. Since joining the National Center for Genome Resources, a non-profit research organization located in Santa Fe, New Mexico, Dr. Beavis has been the principal investigator for a variety of bioinformatics projects. Currently, Dr. Beavis is developing novel methods to provide 'omics' information to applied researchers, including clinicians and plant breeders in useful formats. Dr. Beavis received his Ph.D. degree in Quantitative Genetics from Iowa State University in Ames, Iowa. Dr. Beavis is also an Adjunct Professor in the Department of Mathematics and Statistics at University of New Mexico and an adjunct scientist at Lovelace Respiratory Research Institute.

THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH

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LUNCH - N - LEARN SEMINAR



THE NATIONAL COALITION FOR
FOOD & AGRICULTURAL RESEARCH

Program:

GENOMICS? BIOINFORMATICS? TRANSLATION PLEASE!

Realizing the Promises of Genomics

July 10, 2006

PROGRAM

Welcome and Introduction

DR. BRIAN HYPs
National C-FAR Board Member

Distinguished Speaker

DR. WILLIAM D. BEAVIS
Chief Scientific Officer
National Center for Genome Resources
Santa Fe, New Mexico

Open Forum

Closing

DR. BRIAN HYPs

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