

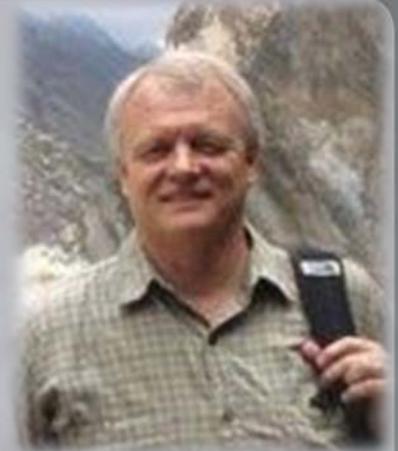
Microbiomes in Transition Seminar Series

Computational and Experimental Methods for Studying Protein-DNA Interactions

Presented by:

Dr. Gary D. Stormo

Washington University in St. Louis



Abstract: This talk will cover our approaches to studying protein-DNA interactions, including both experimental and computational approaches. Emphasis will be on recent developments that utilize high-throughput sequencing technologies. It will also cover our attempts at developing recognition models that predict specificity from protein sequencing and some of the open problems associated with that work.

Dr. Stormo is a pioneer in bioinformatics and genomics, as well as a leading figure in the development of algorithms for data mining of DNA sequence data. His work has contributed to the understanding of regulation of gene expression and protein-DNA interactions. His work has impacted both the fields of experimental and computational molecular biology and is highly interdisciplinary beyond the fields of biology. His research has been supported by both the National Institutes of Health and the Department of Energy. He has published more than 190 scientific papers and is the author of the book, "Introduction to Protein-DNA Interactions: structure, thermodynamics and bioinformatics." While at Washington University, he has collaborated and published papers with many colleagues including 20 faculty members in 14 different departments. Dr. Stormo has served as a U.S. member of the International Advisory Committee on Nucleic Acid Sequence Databases and on several NIH committees. He was an early advisor to the National Library of Medicine, Executive Editor of Bioinformatics, and Deputy Executive Editor of Public Library of Science. He was elected a fellow of the International Society for Computational Biology and the American College of Medical Informatics.

More Info: <http://stormo.wustl.edu/index.html>

Date:
May 2, 2016

Location:
CSF/Darwin Rm
(1007)

Time: 10:00 AM

