

# The Department of Biochemistry Cellular and Molecular Biology Spring 2009 Seminar Series

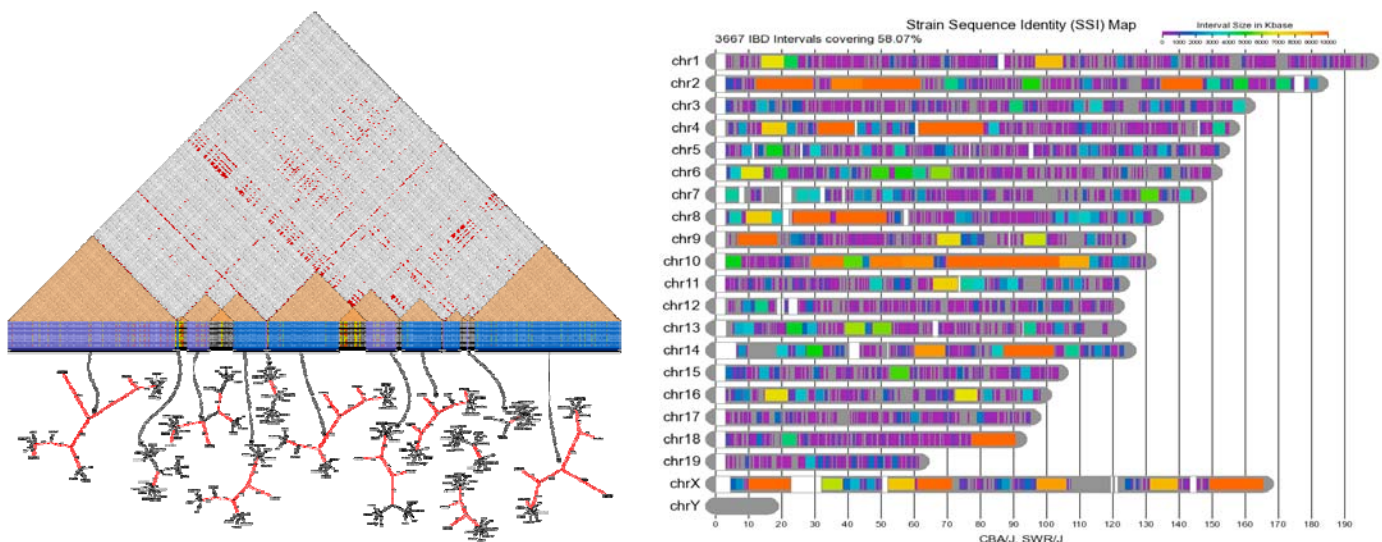
Seminar Sponsored by:  
Scalable Computing and Leading Edge Innovative Technologies (SCALE-IT)  
And  
The National Institute of Mathematical and Biological Synthesis (NIMBioS)

**Dr. Leonard McMillan**  
Associate Professor  
Computer Science  
University of North Carolina



## Computational Tools for Functional Genetics

Dr. McMillan received his Ph.D. from University of North Carolina in Chapel Hill, and Masters and Bachelors degrees from Georgia Institute of Technology. His research interests include computer graphics, computer vision, multimedia, and computational genetics. He is a pioneer in the area of image-based rendering. Image-based rendering is a new approach to computer graphics where scenes are rendered directly from collections of reference images rather than from geometric models. He will present a series of computation and visualization tools for decomposing genomes into meaningful block for the purpose of deciphering genetic function, as well as methods for partitioning a genome into blocks with no apparent recombination and show how these results can be used to improve association mapping.



**Wednesday, April 1, 2009 3:30-4:30 PM**

**Room M307 Walters Life Sciences**

**Refreshments will be served.**

**Hosts: Dr. Cynthia Peterson and Dr. Lou Gross**

