



DEPARTMENT OF BIOLOGY
ST. CLOUD STATE UNIVERSITY

Biology Seminar

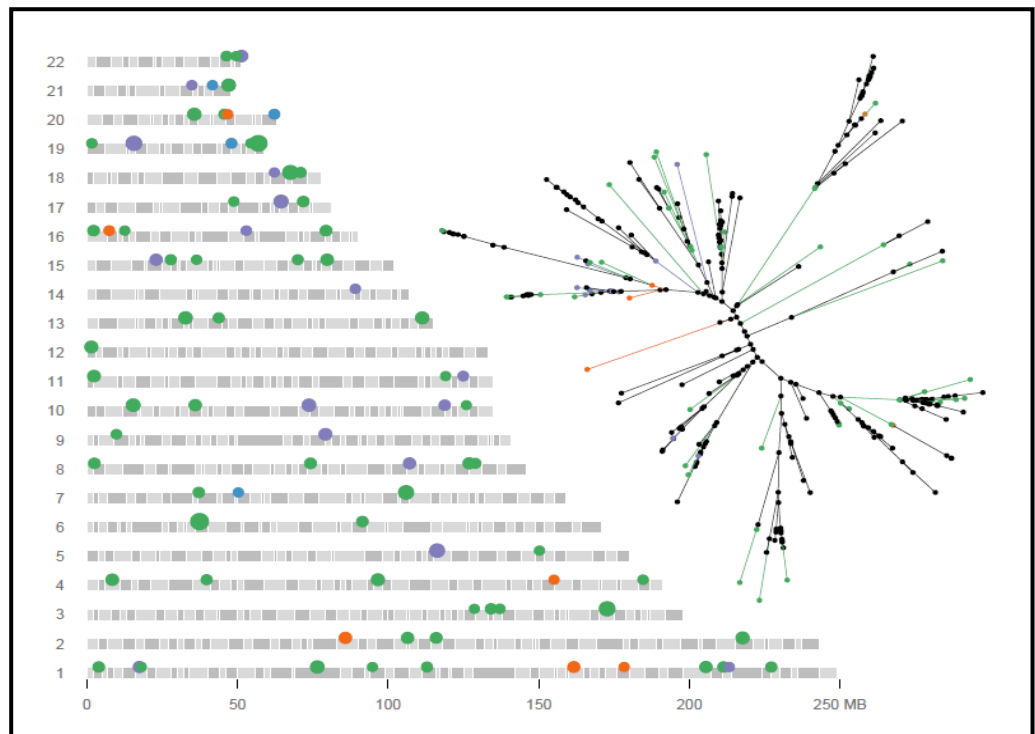
Host Genomic Control of the Human Microbiome

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The composition of bacterial communities in and on the human body varies widely across individuals, and has been associated with multiple health conditions. While the microbiome is influenced by environmental factors, some degree of genetic influence of the host on the microbiome is also expected. In my talk I will discuss recent studies integrating human genomics and



the microbiome, novel insight into the effect of human genetic variation on microbiota composition, and the role of the microbiome in driving complex human disease, and in particular colon cancer. I will also describe novel computational techniques to identify associations in joint human genetic variation and microbiome data, as well as experimental approaches to study the functional genomics of host-microbiome interactions.