



*Centre for Microbial Diversity and Evolution hosts*

**A Special Seminar Presented by Dr. Rob Knight**

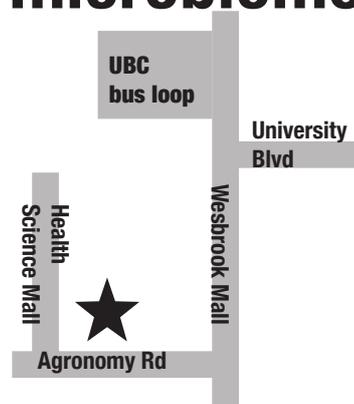
# **Spatial and temporal patterning in microbial communities, including the human microbiome**

**Monday, March 17th, 2014**

**3-4pm** (Doors open at 2:45pm)

**LSC2 in Life Science Centre, UBC**

2350 Health Sciences Mall



## **Dr Rob Knight**

Professor, Howard Hughes Medical Institute, BioFrontiers Institute and Department of Chemistry & Biochemistry and Computer Science University of Colorado

website: [knightlab.colorado.edu](http://knightlab.colorado.edu)

Research in the Knight lab primarily focuses on bioinformatics and the lab has been on the forefront of many scientific advances using high-throughput sequencing to address large-scale questions in evolution and microbial ecology. Much of Rob's work has focused on characterizing complex microbial communities, including those that inhabit our bodies. In 2009 he became an HHMI Early Career Scientist, and in 2012 he became an AAAS Fellow. He participates in the Human Microbiome Project in several capacities including PI of the University of Colorado component of the Data Analysis and Coordination Center; he is PI of the grants funding the Earth Microbiome Project and Scientific Lead of American Gut; his lab developed the popular UniFrac and QIIME software for microbial community analyses, among other packages, and protocols for high-throughput microbial amplicon sequencing on the 454 and Illumina platforms; and he has participated in discoveries including linking gut microbes to obesity, to diet, to geography, to age and to host behavior; the individualized nature of our microbes, which even link us to objects we touch; the role of pH rather than plant community or biome in structuring soil microbial communities globally; and the deep microbial "seed bank" that occurs in marine and perhaps other ecosystems.



For an inquiry, please contact Noriko Okamoto, PhD ([okamoton@mail.ubc.ca](mailto:okamoton@mail.ubc.ca)) at Centre for Microbial Diversity and Evolution, UBC