

# IBEST SPRING 2010 SEMINAR SERIES

## Microbial community diversity and “next generation” sequencing data

The Initiative for Bioinformatics and Evolutionary Studies (IBEST) presents an interdisciplinary seminar series on how to use “next generation” DNA sequencing data to characterize complex microbial communities. These data, available from instruments such as the Roche 454/FLX in the IBEST Sequencing Core, make it possible to survey the entire DNA inventory of a sample. However, new algorithms and new statistical techniques must be developed.

Students and scientists from biological, computational, and mathematical or statistical sciences will benefit from these talks. We also welcome the academic public.

**Where:** Life Science South 277  
**Time:** 12:30-1:30, Th.  
**Open:** to university and general public  
**Credit:** 1 cr (P/F) as BCB 501. Students will be required to read a paper in preparation for each talk, and write a written evaluation of each talk. Attendance is mandatory.  
**Contact:** James A. Foster ([foster@uidaho.edu](mailto:foster@uidaho.edu)) and Larry J. Forney; Professors of Biological Sciences and BCB

WHO	WHEN	SUBJECT
<i>Dr. P. Gerrish, U. New Mexico</i>	<i>2/18</i>	<i>Extreme value distributions in population structure</i>
<i>Dr. T. Schmidt, Michigan State U.</i>	<i>2/25</i>	<i>Microbial ecology</i>
<i>Dr. N. Pace, University of Colorado Boulder</i>	<i>3/11</i>	<i>The diversity of microbial ecosystems</i>
<i>Dr. P. Schloss, U. Michigan</i>	<i>3/25</i>	<i>MOTHUR: computational tool for microbial ecology</i>
<i>Dr. Martin Morgan, Fred Hutch. Inst.</i>	<i>4/1</i>	<i>Bioconductor and R</i>
<i>Dr. D. Rasko, U. Maryland</i>	<i>4/15</i>	<i>Comparative microbial genomics</i>
<i>Dr. M. Sogin, Marine Biology Lab, Woods Hole</i>	<i>4/22</i>	<i>Limitations to diversity estimates from pyrotagged data</i>



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