

## Workshop III: Evolutionary Genomics

### Tuesday November 15, 2011

- 8:00–9:00 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:00–9:50 **David Haussler** (University of California, Santa Cruz (UC Santa Cruz))  
*The evolution of non-coding functional elements in our genome*
- 10:00–10:15 *Break*
- 10:15–11:05 **Cecile Ane** (University of Wisconsin-Madison)  
*Delimiting species using both genetic and morphology data*
- 11:15–11:30 *Break*
- 11:30–12:20 **Jonathan Eisen** (University of California, Davis (UC Davis))  
*Searching for novelty by phylogeny driven approaches to genomics and metagenomics*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Alice McHardy** (Max-Planck-Institut für Informatik)  
*Computational methods for learning from (meta)-genomes*
- 3:30–4:00 *Break*
- 4:00–4:50 **Tandy Warnow** (University of Texas at Austin)  
*New methods for taxon identification of metagenomic data*
- 5:00–6:30 *Reception and Poster Session (Hosted by IPAM)*

### Wednesday November 16, 2011

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Jian Ma** (University of Illinois at Urbana-Champaign)  
*Chromosome assembly using comparative genomic approach*
- 10:00–10:15 *Break*
- 10:15–11:05 **Takashi Gojobori** (National Institute of Genetics)  
*Dynamic evolution of translation initiation mechanisms in prokaryotes*
- 11:15–11:30 *Break*

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- 11:30–12:20 **John Archibald** (Dalhousie University)  
*One Plus One Equals One: Tracing Genomic Threads in the Tapestry of Photosynthetic Eukaryotes*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Mike Sanderson** (University of Arizona)  
*Building the tree of life accurately: are genomes enough?*
- 3:30–4:00 *Break*
- 4:00–4:50 **Robert Wayne** (University of California, Los Angeles (UCLA))  
*Evolutionary genomics of wild and domestic canids*

### Thursday November 17, 2011

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Elizabeth Allman** (University of Alaska Fairbanks)  
*Identifying Rooted Species Trees from Unrooted Gene Tree and Clade Probabilities*
- 10:00–10:15 *Break*
- 10:15–11:05 **Laura Kubatko** (Ohio State University)  
*Estimating Species Trees Under the Coalescent Model Using Site Pattern Frequencies*
- 11:15–11:30 *Break*
- 11:30–12:20 **Louxin Zhang** (National University of Singapore)  
*Parsimonious Reconciliation of Gene Tree and Species Tree*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Luay Nakhleh** (Rice University)  
*Disentangling Vertical and Horizontal Evolution in Phylogenomic Studies*
- 3:30–4:00 *Break*
- 4:00–4:50 **Jens Lagergren** (Royal Institute of Technology (KTH))  
*Probabilistic analysis of rates of gene duplication and transfers among Mollicutes and Cyanobacteria*

### Friday November 18, 2011

- 8:00–9:00 *Continental Breakfast*
- 9:00–9:50 **Mike Steel** (University of Canterbury)  
*'Lassoing' a tree: Phylogenetic theory for sparse patterns of taxon coverage*
- 10:00–10:15 *Break*

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- 10:15–11:05 **Elchanan Mossel** (University of California, Berkeley (UC Berkeley))  
*Reconstructing big phylogenetic mixtures*
- 11:15–11:30 *Break*
- 11:30–12:20 **Etienne Pardoux** (Université d'Aix-Marseille I (Université de Provence))  
*On the effect of competition on the height and length of the genealogical tree of a population*
- 12:30–2:30 *Lunch (on your own)*
- 2:30–3:20 **Miklos Csuros** (University of Montreal)  
*Counting along phylogenies: ancestral reconstruction of numerical characters*
- 3:30–4:00 *Break*
- 4:00–4:50 **David Sankoff** (University of Ottawa)  
*Aspects of the genomic evolution of flowering plants*

