

**Workshop in Statistical Genetics and
Computational Molecular Biology**
HUB 310: University of Washington
December 16-18, 2001

Sunday December 16:

9.00 a.m: HUB opens. Collect your name badges and folders.

9.30 a.m. Opening remarks

Session I: Chair; Rachel Mackay (Statistics, UBC);

9.40 a.m: Maynard Olson, Director, UW Genome Center
Resequencing segments of the human genome: experimental and statistical considerations.

10.40 a.m: Leonid Kruglyak, Genome Sciences (UW) and FHCRC
Analyzing Human genetic variation

11.40 a.m: BREAK

12.00 noon: Ram Samudrala. Computational Genomics, Microbiology, UW.
Modelling genome structure and function

1.00 p.m: LUNCH

Session II: Chair; Elisabeth Rosenthal (Biostatistics, UW)

2.00 p.m: Elizabeth Thompson. Department of Statistics, UW
Inferring gene locations from genetic data on related individuals

3.00 p.m: Jinko Graham, Department of Statistics and Actuarial Science, SFU
Testing and estimation of recombination breakpoints in a set of aligned sequences.

4.00 p.m: BREAK

4.20 p.m.: Dr. John Mittler, Department of Microbiology, UW
Population genetics and dynamics of HIV-1 infection

5.20 p.m.: END OF SUNDAY SESSIONS

Monday December 17:

Session III: Chair; Zheng Zhang (Biostatistics, UW)

9.00 a.m: Dr. Phil Green, Department of Genome Sciences, UW
Analyzing genome sequences.

10.00 a.m: Dr. Martin Tompa, Computer Science and Engineering
Discovering Regulatory Motifs in DNA Sequences

11.00 a.m: BREAK

11.20 a.m: Dr. Charles Kooperberg Bioinformatics Group of the FHCRC
Sequence analysis using logic regression

12.20 p.m: LUNCH

Session IV: Chair; Pauline Ng (Molecular and Cell Biology, UW)

1.30 p.m: Dr. Stephanie Monks, Department of Biostatistics, and Rosetta Inpharmatics
Studying the Genetics of Gene Expression

2.30 p.m: Dr. Jenny Bryan, Department of Statistics, UBC
Finding Informative Subsets of Genes

3.30 p.m: BREAK

4.00 p.m.: Dr. Joe Felsenstein, Department of Genome Sciences, UW
Trees of genes within and between species: molecular biology meets population biology

5.00 p.m.: END OF MONDAY Talks

5.15 p.m. - 6.45 p.m.: CONFERENCE RECEPTION: HUB 200AB

Tuesday December 18:

Session V: Chair: Isabella Ghement (Statistics, UBC)

9.00 a.m: Dr. David Baker, Department of Biochemistry
Protein structure prediction

10.00 a.m: Dr. Kathleen Kerr, Department of Biostatistics
Gene Expression Microarrays: Classical Statistics and Modern Genomics

11.00 a.m: BREAK

11.20 a.m: Dr. Ellen Wijsman , Division of Medical Genetics
Gene finding in human populations

12.20 p.m: LUNCH

1.20 p.m: What should we do differently next time?
Final wrap-up discussion: Student Panel:
Bryan Shepherd (Chair), Rob Igo, Rachel Mackay, Lixuan Qin.

2.30 p.m.: END OF WORKSHOP