



CalPEG '96 Scheduled Talks

Saturday November 16, 1996

8:30-10:00

8:30-8:45 Hedrick, P.W. Department of Zoology, Arizona State University. MHC Variation in the Endangered Gila Topminnow.

8:45-9:00 Field*, D., and C. Wills. University of California, San Diego. Microbial Microsatellite Loci: Genome Stability, Structure and Evolution.

9:00-9:15 Cutler, D.J. Section of Evolution and Ecology, University of California, Davis. The Coalescent C Test of Neutrality.

9:15-9:30 Atmar, W. AICS Research, Inc. Sexual Selection, the Nature of Genetic Defects, and the Role of Males.

9:30-9:45 Sethuraman*, B. and T. Speed. Department of Statistics, University of California, Berkeley. An Analysis of the Nei-Gojobori Method of Estimating Synonymous and Nonsynonymous Divergence Between Two Sequences.

9:45-10:00 Muirhead, C. University of Oregon. Evolution of a Beneficial Allele Under Partial Selfing and Inbreeding Depression.

10:00-10:30 Break

10:30-12:30

10:30-10:45 Otto*, S.P., and N. Barton. Department of Zoology, University of British Columbia and University of Edinburgh. Removing the Limits to Natural Selection: The Evolution of Recombination.

10:45-11:00 Fetscher, A. Biology Department, University of California, San Diego. Significance of Stigma Closure in Bush Monkeyflower.

11:00-11:15 Bergstrom*, C., J. Pritchard, and A. Robson. Department of Biological Sciences, Stanford University, and University of Western Ontario. Risky Business 1. Reproductive Uncertainty and Population Growth.

11:15-11:30 Pritchard*, J. K., C. T. Bergstrom, and A.J. Robson. Dept of Biological Sciences, Stanford University; and Dept of Economics, University of Western Ontario. Risky Business 2. Genetic Variation and the Maintenance of Outcrossing.

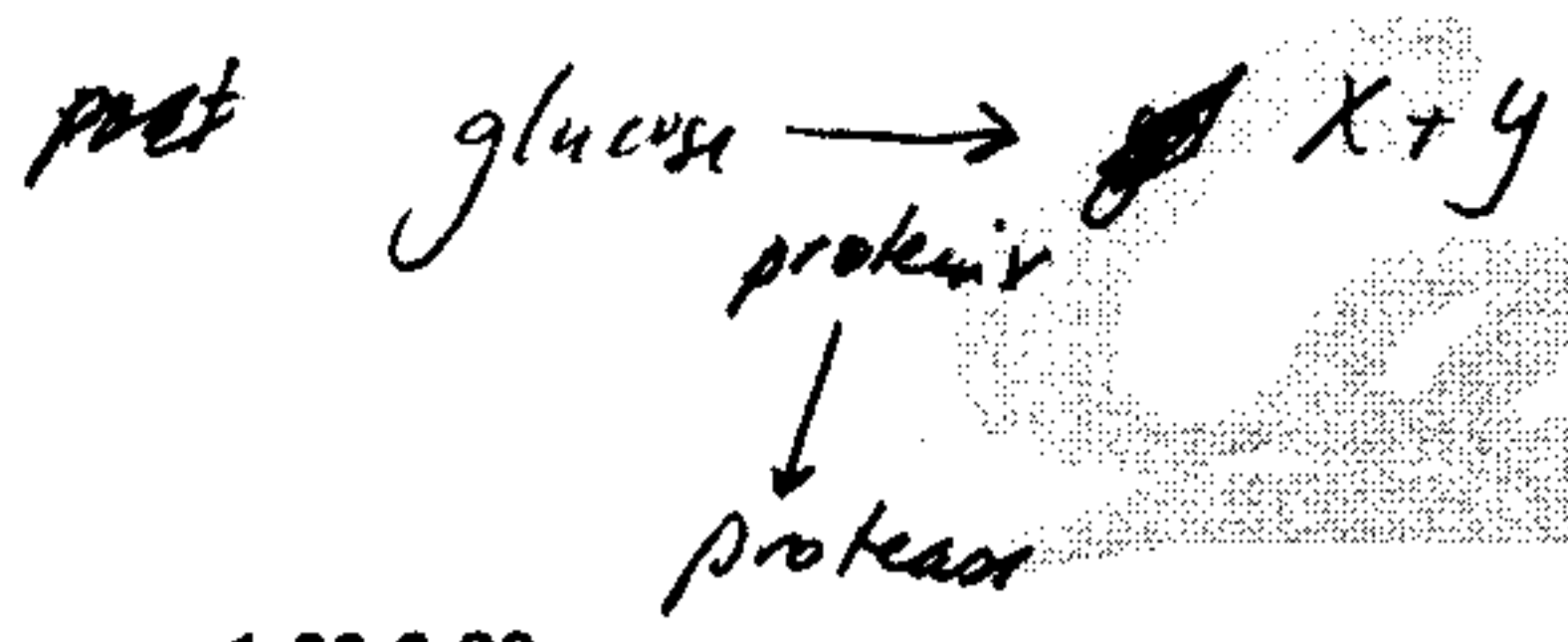
11:30-11:45 Kalinowski*, S.T., P.W. Hedrick, and W.M. Boyce. Dept. of Zoology, Arizona State University, Dept. of Veterinary Pathology, Microbiology, and Immunology, University of California, Davis. Estimation of Gametic Disequilibrium for MHC and Microsatellite Loci with Multiple Alleles in Desert Bighorn Sheep.

11:45-12:00 Steel, M.A., L.A. Szekely*, and P.L. Erdos. Biomathematics Research Centre, University of Canterbury, New Zealand, University of Southern Carolina, and University of Godollo, Hungary. The Number of Nucleotide Sites Needed to Accurately Reconstruct Large Evolutionary Trees.

12:00-12:15 Gagneux* P., C. Boesch, and D.S. Woodruff, Zoology Institute Basle University and Biology Department, University of California, San Diego, Female Mating Strategies and Male Reproductive Success: Extra-Group Paternity in a Population of Wild Chimpanzees.

12:15-12:30 Nunney, L. Department of Biology, University of California, Riverside. The Effect of Temperature on Body Size and Fecundity in Female *Drosophila melanogaster*: Evidence for Adaptive Plasticity.

12:30-1:30 Lunch



glucose + = low x, y, high glucose
 glucose, protein x = high x, y, low glucose
 glucose, protein x, protease : low x, y high glucose
 reverse enzyme?

1:30-3:30

1:30-1:45 Prout, T. Department of Evolution and Ecology, University of California, Davis. Some More Meiotic Drive Theory.

1:45-2:00 Montalvo*, A.M., and N. Ellstrand. Pacific Southwest Research Station. Fitness Consequences of Non-Local Transplantation in *Lotus scoparius*: The Home-Team Advantage Hypothesis.

2:00-2:15 Nielsen, R.N. Department of Integrative Biology, University of California, Berkeley. Maximum Likelihood Analysis of Microsatellite Population Samples.

2:15-2:30 Brar, H. Department of Ecology and Evolutionary Biology, University of California, Irvine. mRNA Abundances in *Drosophila melanogaster* Selected for Postponed Senescence.

2:30-2:45 Steel*, M.A., and other authors. Biomathematics Research Centre, University of Canterbury, New Zealand. Little Tricks for Big Trees.

2:45-3:00 Eyre-Walker*, A., and R. Kliman. Dept. of Plant Science, Rutgers University and Radford University. Compositional Variation Within *Drosophila* Genes.

3:00-3:15 Geiser*, D.M., and J.W. Taylor. Department of Plant and Microbial Biology, University of California, Berkeley. Molecular Population Genetics of the Asexual, Toxin-Producing Fungus *Aspergillus flavus*.

3:15-3:30 Lee, J., R.C. Griffiths, and S. Tavaré*. University of Southern California. Maximum Likelihood Estimation of the Mutation Parameter Theta.

3:30-4:00 Break

4:00-5:00

4:00-4:15 Chippindale, A. Department of Biology, University of California, Santa Cruz. Sexual Dimorphism Constrains Adaptation to Environmental Stress in *Drosophila*.

4:15-4:30 Kim, T.J., K.M. Parker, and P.W. Hedrick. Department of Zoology, Arizona State University. Genetic Variation of the MHC Class II B1 Exons in Sacramento Chinook Salmon.

4:30-4:45 Marjoram*, P., S. Tavaré, and J. Lee. University of Southern California. Ancestral Inference for Some Amerindian Data.

4:45-5:00 Ardell, D. Biological Sciences, Stanford University. Measures and Implications of the Role of Transition Bias in Genetic Code Evolution.

Discussion
 } *How much*

5:00-6:00 Invited talk:

Brian Charlesworth, "The effects of background selection on molecular variation and evolution"

Sunday November 17, 1996

8:30-10:00

8:30-8:45 Rice, B. Biology Department, University of California, Santa Cruz. Male-female Antagonistic Coevolution and the Degeneration of the Y Chromosome.

8:45-9:00 Huelsenbeck*, J.P., B. Rannala, and Z. Yang. Department of Integrative Biology, University of California,

Berkeley. Statistical Tests of Host-Parasite Cospeciation.

9:00-9:15 Burt, A., V. Koufopanou, G. Koenig, D. Carter, T. White, and J. Taylor*. Imperial College, Sillwood Park and Roche Molecular Systems, Alameda and University of Sydney and Department of Plant Biology, University of California, Berkeley. Polymorphic Nucleic Acids and the Natural History of a Small Fungus, *Coccidioides immitis*.

9:15-9:30 Balding, D. Department of Applied Statistics, University of Reading, Reading. Likelihood Methods for Estimating Genetic Correlations.

9:30-9:45 Borash*, D.J., and L.D. Mueller. Department of Ecology and Evolutionary Biology, University of California, Irvine. Intragenerational Temporal Variation Maintaining Genetic Polymorphism in *Drosophila melanogaster*.

9:45-10:00 Parker*, J.D., and P.W. Hedrick. Department of Zoology, Arizona State University. Monte Carlo Simulations of Fixation of Chromosomal Rearrangements in Small Haplodiploid Populations.

10:00-10:30 Break

10:30-12:45

10:30-10:45 Grote, M. Section of Evolution and Ecology, University of California, Davis. Sampling and Inference at a Locus under Symmetric Overdominance Selection.

10:45-11:00 Metcalf*, A.E., L.P. Nunney, and B.C. Hyman. Department of Biology, University of California, Riverside. Examining Patterns of Genetic Variation in the Federally Endangered Stephens' Kangaroo Rat (*Dipodomys stephensi*): The Role of Landforms.

11:00-11:15 Grassly*, N., and E.C. Holmes. Zoology Department, Oxford University. Recombination and Phylogenetics.

11:15-11:30 LaDoux*, T., and A. Montalvo. Pacific Southwest Research Station. Fitness Consequences of Non-Local Transplantation in *Lotus scoparius*: Preliminary Test of the Outbreeding Depression Hypothesis.

11:30-11:45 Warnow*, T., and other authors. Department of Computer and Information Science, University of Pennsylvania. A Fast and Accurate Algorithm for Constructing Evolutionary Trees.

11:45-12:00 Kerster, H.W. Environmental Studies Department, California State University, Sacramento. Magnitude of Fluctuating Asymmetry and Heritability in Wild Radish (*Raphanus sativus*).

12:00-12:15 Lunt*, D.H. and B.C. Hyman. Biology Department, University of California, Riverside. Evidence for Recombination in Nematode mtDNA.

12:15-12:30 Whitlock, M. Department of Zoology, University of British Columbia. *Fluctuating Selection and the Shifting Balance: Peak Shifts the Easy Way.*

12:30-12:45 Wills*, C., Condit, R., Foster, R., Hubbell, S.H. Department, University of California, San Diego. Species Herd-Immunity May Maintain Ecological Variation in a Panamanian Rainforest.