

CalPEG--95

University of California-Irvine
December 15-17, 1995

Welcome to the annual meeting of the California Population and Evolutionary Geneticists. If you have any questions, just ask any of the UCI participants.

All Registrants: Please stop by the registration table. Many of the pre-registration checks were made out to the wrong party. Please make sure your payment is complete.

Speakers: Please have your slides to the projectionist at the beginig of your session. You can pick them up again after the session has ended. Please adhere to the time limitations; the session chair will give a three minute warning when 15 minutes have expired, and stop you after when 18 minutes.

Friday, December 15

8:00 - 10:00 WINE AND CHEESE RECEPTION, *Ecology and Evolutionary Biology Reading Room, Room 425, Steinhaus Hall*

Saturday, December 16

Room 174, Steinhaus Hall

Session I; Chair, Larry Mueller

8:30 **Larry Mueller** and Michael Rose. *Department of Ecology and Evolutionary Biology, UC-Irvine.*

Evolutionary theory predicts late-life mortality plateaus

8:50 **Michael Hellberg.** *Marine Biology Research Division, Scripps Institution of Oceanography.*

Phylogenetic relationships, sympatry, and the divergence of gamete recognition proteins among *Tegula*

9:10 **Len Nunney.** *Department of Biology, UC-Riverside.*

Influence of Neighborhood size on effective population size.

9:30 **Trevor Price.** *Department of Biology, UC-San Diego.*

Range sizes and range limits in leaf warblers.

9:50 **Carlos Machado.** *Department of Ecology and Evolutionary Biology, UC-Irvine.*

Fig wasps, nematodes and the molecular clock.

10:10 COFFEE BREAK

Session II; Chair, Robin Bush

10:30 **Michele Nishiguchi.** *Department of Biology, University of Southern California.*
A squid that glows in the dark: Coevolution between sepiolids and their luminous bacterial symbionts.

10:50 **Nick Mundy.** *Department of Biology, UC-San Diego.*
Microsatellite and mtDNA polymorphism in the loggerhead shrike.

11:10 **David Woodruff.** *Department of Biology, UC-San Diego.*
The molecular phylogeny of gibbons.

11:30 **Monty Slatkin.** *Department of Integrative Biology, UC-Berkeley.*
Estimating the age of an allele using intraallelic variability.

11:50 **Marcos Antezana.** *Department of Ecology and Evolutionary Biology, UC-Irvine.*
Point mutations, the Ratchet, and the origin of eukaryotic sex.

12:10 LUNCH

1:30 SPECIAL GUEST SPEAKER: **William Thompson,** *Department of Criminology, UC-Irvine.*

Using statistics to characterize the value of DNA evidence: a view from the trenches.

2:30 BUSSINESS MEETING: Sight selection for 1996.

Session III, Chair, Vic DeFilippis

2:40 **John Garza.** *Department of Integrative Biology, UC-Berkeley.*
Evolution and mutation of microsatellites in humans and chimpanzees.

3:10 **Joanna Mountain.** *Department of Integrative Biology, UC-Berkeley.*
Comparison of individual and genetic distances within and between populations.

3:30 **Thomas Wiehe.** *Department of Integrative Biology, UC-Berkeley.*
Hitchhiking at a multi-allele locus.

3:50 BREAK.

Session IV; Chair, Hardip Brar

4:10 **Margaret Saks** *Department of Biology, California Institute of Technology.*
A single mutation recruits tRNA from one isoaccepting group to another.

Flanking
Regions
of Microsat

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people to
the their
cells, DNA-

4:30 **Mark Tanaka.** *Department of Biological Sciences, Stanford University.*
The distribution of homologous P-element-induced recombinants in the male germ line of *Drosophila melanogaster* (or, how is 100% recombination possible?).

4:50 **Jonathan Eisen.** *Department of Biological Sciences, Stanford University.*
The evolution of the RecA protein: from systematics to structure.

5:10 **Pascal Gagneux.** *Department of Biology, UC-San Diego.*
Genetic studies of free-ranging West African chimpanzees.

Sunday, December 17
Room 174, Steinhaus Hall

Session V; Chair, Art Weis

8:30 **Arlee Montalvo.** *Forest Fire Laboratory, USDA Forest Service, Riverside.*
Fitness consequences of transplanted in coastal sage scrub: Preliminary studies with *Lotus scoparius*.

8:50 **Adam Richman.** *Department of Biology, UC-San Diego.*
Population Biology of self-compatibility in flowering plants.

9:10 **David Lunt.** *Department of Biology, UC-Riverside.*
Orthopteran phylogeography and the postglacial recolonization of Europe.

9:50 **Tony Metcalf.** *Department of Biology, UC-Riverside.*
Population genetics meets conservation forensics: an empirical example.

10:10 BREAK

Session VI; Chair, Denise Deckert-Cruz

10:30 **Sukamol Srikwan.** *Department of Biology, UC-San Diego.*
Genetic erosion following rainforest deforestation in Thailand.

10:50 **Denise Deckert-Cruz.** *Department of Ecology and Evolutionary Biology, UC-Irvine.*
Allozymic differentiation in response to laboratory selection.

11:10 **Gordon Fox.** *Department of Biology, UC-San Diego.*
Evolution of reproductive timing: assortment and selection.

11:30 **Stephen Rich.** *Department of Ecology and Evolutionary Biology, UC-Irvine.*
A tick lost in time.

A 121
B 112

112
121
111 vs 112
111 vs 121
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POLYPLOIDY

- the harder it is to distinguish individuals in diff groups says that the group isn't really genetically endangered.

colleagues
polyploidy