FINAL PROGRAM

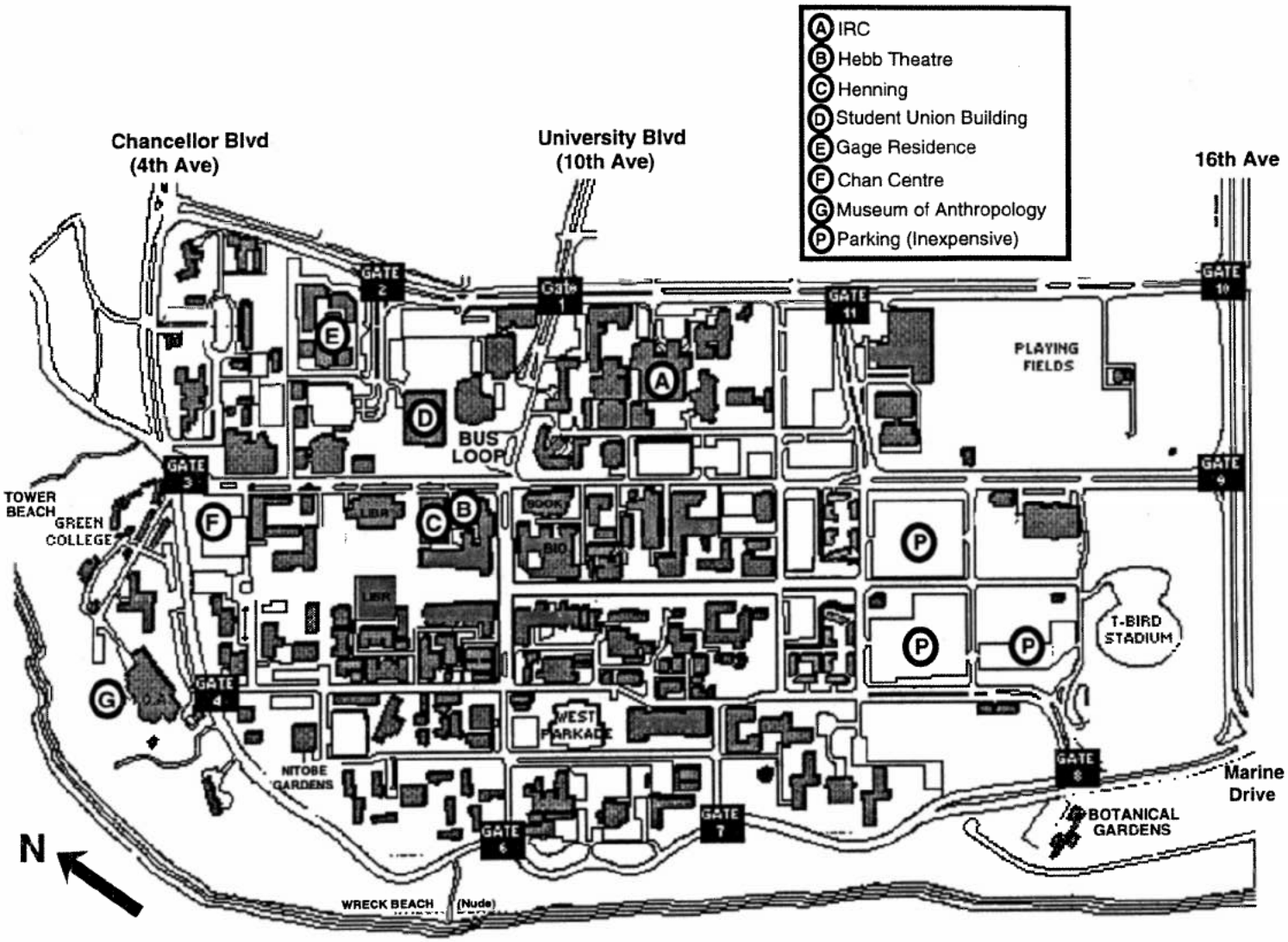
Annual Meeting
The Society for the Study of Evolution
The American Society of Naturalists
The Society of Systematic Biologists

The University of British Columbia
Vancouver, Canada

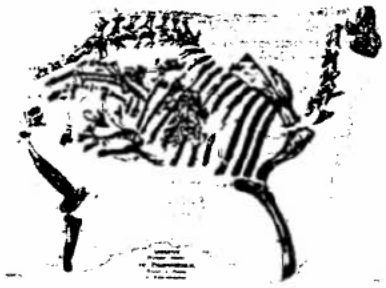
June 20-24, 1998

Dolph Schluter, Conference Chair

Daphne J. Fairbairn and Jeff Reeve
Scientific Program Organizers


A IRC
B Hebb Theatre
C Henning
D Student Union Building
E Gage Residence
F Chan Centre
G Museum of Anthropology
P Parking (Inexpensive)
Chancellor Blvd
(4th Ave)
University Blvd
(10th Ave)
16th Ave
GATE 2
GATE 1
GATE 11
GATE 10
GATE 3
GATE 9
GATE 4
GATE 8
GATE 6
GATE 7
PLAYING FIELDS
BUS LOOP
TOWER BEACH
GREEN COLLEGE
LIBR
BIO
T-BIRD STADIUM
WEST PARKADE
NITOBE GARDENS
Marine Drive
BOTANICAL GARDENS
WRECK BEACH
(Nude)
N

the diversity of life



Georges Cuvier, Fossil Bones, and Geological Catastrophes

New Translations and Interpretations of the Primary Texts

Martin J. S. Rudwick

Cloth $34.95 302 pages
20 halftones, 4 line drawings

The Ovary of Eve

Egg and Sperm and Preformation

Clara Pinto-Correia

Cloth $29.95 396 pages
34 halftones, 21 line drawings

Life's Splendid Drama

Evolutionary Biology and the Reconstruction of Life's Ancestry, 1860-1940

Peter J. Bowler

Paper $22.00 526 pages
35 halftones, 20 line drawings
Science and Its Conceptual Foundations series

The Shape of Life

Genes, Development, and the Evolution of Animal Form

Rudolf A. Raff

Paper $29.95 520 pages
2 halftones, 59 line drawings, 3 tables

Evolutionary Paleobiology

Edited by David Jablonski, Douglas H. Erwin, and Jere H. Lipps

Paper $29.95 484 pages
103 line drawings, 23 tables

The Evolutionary Biology of Plants

Karl J. Niklas

Paper $20.00 450 pages
2 halftones,
126 line drawings, 7 tables

The Coevolutionary Process

John N. Thompson

Paper $19.95 376 pages
6 halftones, 41 line drawings, 15 tables

Induced Responses to Herbivory

Richard Karban and Ian T. Baldwin

Paper $17.95 320 pages
20 line drawings, 40 tables
Interspecific Interactions series

Evolution and Environment in Tropical America

Edited by Jeremy B. C. Jackson, Ann F. Budd, and Anthony G. Coates

Paper $27.50 426 pages
35 halftones, 31 tables

American Beginnings

The Prehistory and Palaeoecology of Beringia

Edited by Frederick Hadleigh West

Cloth $75.00 576 pages 73 halftones, 200 line drawings, 36 maps, 39 tables

Making PCR

A Story of Biotechnology

Paul Rabinow

Paper $12.95 190 pages 10 halftones

Forthcoming

Fresh Water

E. C. Pielou

Cloth $24.00 288 pages 81 line drawings

Cognitive Ecology

The Evolutionary Ecology of Information Processing and Decision Making

Edited by Reuven Dukas

Paper $30.00 448 pages
97 line drawings, 2 tables

What Emotions Really Are

The Problem of Psychological Categories

Paul E. Griffiths

Cloth $27.50 286 pages
2 halftones, 7 line drawings, 3 tables
Science and Its Conceptual Foundations series

American Pronghorn

Social Adaptations and the Ghosts of Predators Past

John A. Byers

Paper $23.95 300 pages
41 halftones, 111 line drawings, 4 tables

Foraging for Survival

Yearling Baboons in Africa

Stuart A. Altmann

Cloth $70.00 536 pages
82 line drawings, 75 tables

Wildlife of the Tibetan Steppe

George B. Schaller

Cloth $55.00 374 pages
91 halftones, 26 maps, 12 line drawings, 59 tables

Vanishing Treasures of the Philippine Rain Forest

Lawrence R. Heaney and Jacinto C. Regalado, Jr.

Paper $24.00 188 pages
14 color plates, 1 halftone

Journal available at this meeting:

American Naturalist

Quarterly Review of Biology

Visit our book exhibit for a 20% discount on these and related titles.

The University of Chicago Press 5801 South Ellis Ave., Chicago, IL 60637

www.press.uchicago.edu

Acknowledgments

The Annual Meeting greatly appreciates support from:

Taylor & Francis, Inc.

for their generous sponsorship of the Opening Reception.

Publisher Exhibits
Please visit our exhibitors in the IRC Lobby. We are grateful for their support of our Annual Meeting:

- **Academic Press**
- **Biological Sciences Press**
- **Blackwell Science, Inc.**
- **Harvard University Press**
- **Johns Hopkins University Press**
- **National Science Foundation**
- **Oxford University Press**
- **Prentice Hall**
- **Sinauer Associates, Inc.**
- **Taylor & Francis, Inc.**
- **University of Chicago Press**

Conference Management

KREBS Convention Management Services
657 Carolina Street
San Francisco, CA 94107-2725 USA
415/ 920-7000
415/ 920-7001 (Fax)
krebsconv@aol.com

GENERAL INFORMATION

Meals
Meals are "on your own." There is a variety of affordable dining right on campus, from cafe to deli to full restaurant fare. Complimentary light refreshments will be served at the Welcoming Reception on Saturday evening,. The First Nations Salmon Barbecue Monday evening is complimentary with your registration badge. **You must wear your name badge**. For guests, admission is by pre-paid ticket.

See the inside back cover for off-campus restaurants.

City Buses
Catch buses at the Bus Loop next to Student Union Building (SUB). **Bus #4, 9 & 10** drive to the restaurant district. Exact change ($1.50) is required. Transfers are valid up to two (2) hours from boarding, including the return trip. See the inside back cover for off-campus restaurants.

Messages
A message board is located at the Conference Registration Desk.

Childcare
Limited daycare is provided in SUB Room #215. Please inquire at our Registration Desk for details.

Speaker Ready Room
Speakers may preview their slides in **IRC Room G57/59.**

Notice to Session Chairs, Speakers and Poster Presenters

Paper Session Chairs: Please arrive early to your session. Review your audio-visual equipment. A technician or room monitor will assist you. At the start of your session, **announce the rules: 1)** Speakers have a **total of 15 minutes**, including questions. **2)** The Chair will warn speakers at 12 minutes by a hand signal; and will further warn them by **standing up** at 14 minutes. The speaker will be politely but firmly cut off at 15 minutes. No questions will be taken if the 15 minutes have elapsed. Enforce these rules. Do not get ahead of schedule; if there is a cancellation, wait until the scheduled time to begin the next talk.

Speakers: Please check the schedule to find the time and place of your talk. There may have been minor changes. Please arrive at your session early, with your slides pre-loaded into the slide carousel. (Extra carousels will be available from the technician.) Identify yourself to the Session Chair before the session begins. Note especially that the time allotted to you includes the question period -- help the Session Chair keep to the program schedule!

Poster Presenters: Numbered poster boards are installed in the Student Union Building (SUB) Ballroom and Party Room. Each poster is allotted a 4' x 4' space. Please tack up your poster in the proper space prior to **8 pm Sunday**. Posters may be removed beginning 7 am Wednesday. Poster authors are **required** to stand by their posters during the main poster viewing **Monday afternoon, 2:45-6 pm**. Attendance at other poster viewing times is encouraged (Sunday and Tuesday evenings from 8-10 pm.)

Program-in-Brief

Saturday, June 20

8:30-10:30 am	Coordinating Council Meeting	Gage/R Blair D
10:30-12:30 pm	SSE Council Meeting	Gage/R Blair A
10:30-12:30 pm	SSB Council Meeting <Taylor & Francis, host>	Gage/R. Blair B
10:30-12:30 pm	ASN Executive Committee Meeting	Gage/R. Blair C
1:30-5:30 pm	Joint Symposium co-sponsored by SSE, SSB and Society for Molecular Biology and Evolution	IRC#2
3:30-4 pm	Coffee Break	IRC
11 am-8 pm	Registration	Gage/M. Murrin 1-3
6:30-9:30 pm	Reception sponsored in part by **Taylor & Francis, Inc.**	SUB/Party Rm + Courtyard

Sunday June 21

7 am-5 pm	Registration	IRC Lobby
8:15-12 noon	10 Scientific Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
10 - 10:30 am	Coffee Break	Hennings, IRC
12 noon - 1 pm	SSB Editorial Board <Taylor & Francis, host>	IRC #G41-42
12 noon - 1 pm	NSF Funding Discussion	IRC #1
12 noon-1:30 pm	Lunch Break on your own	campus restaurants
12 noon - 6 pm	Publisher Exhibits	IRC Lobby
12 noon-8 pm	Installation of posters by scientists	SUB/Ballroom + Party Room
12:30-1:30 pm	SSE Business Meeting	IRC #G53-55
1:30-2:30 pm	ASN Presidential Address	Chan Centre
2:45-6 pm	10 Scientific Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
4-4:30 pm	Coffee Break	Hennings, IRC
6-8:30 pm	Dinner Break on your own	off-site & campus restaurants
8-10 pm	Poster Viewing (beverages will be served)	SUB/Ballroom + Party Room

Monday, June 22

8 am - 4 pm	Registration	IRC Lobby
8 am - 6 pm	Publisher Exhibits	IRC Lobby
8:15 am-12 noon	10 Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
10 - 10:30 am	Coffee Break	Hennings, IRC
12 noon-1 pm	SSE Editorial Board Meeting	IRC #G53-55
12 noon-1 pm	NSF Funding Discussion	IRC #1
12 noon-1:30 pm	Lunch Break on your own	campus restaurants
12:30-1:30 pm	ASN Business Meeting	IRC #G65-66
1:30-2:30 pm	SSB Presidential Address	Chan Centre
afternoon	Satellite Meetings check bulletin board in Registration Area for latest information	Hennings 200, 201, 202 Hebb Theatre, IRC 4-6
2:45-5 pm	"Educational Issues in Evolutionary Biology"	IRC #3
2:45-6 pm	Poster Viewing (beverages will be served)	SUB/Ballroom + Party Room
2:45-6 pm	SSB Symposium #5 (formerly Wed. a.m.)	IRC#2
3-3:30 pm	Sigma Xi Discussion	IRC #1
3:30-4:30 pm	Canadian Society of Ecologists--Preliminary Meeting	IRC#5
4:15-4:30 pm	Coffee Break	IRC
6-9:30 pm	Salmon Barbecue **Badge or ticket required for admission**	Anthropology Museum

Tuesday, June 23

8 am-12 noon	Registration	IRC Lobby
8 am - 4:30 pm	Publisher Exhibits	IRC Lobby
8:15 am-12 noon	10 Scientific Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
10 - 10:30 am	Coffee Break	Hennings, IRC
12-12:30 pm	SSB Business Meeting	IRC #G41-42
12 noon-1 pm	Lunch Break on your own	campus restaurants
12 noon-1 pm	NIH Funding Discussion	IRC #1
1-1:30 pm	ASN/SSE/SSB Awards	Chan Centre
1:30-2:30 pm	SSE Presidential Address	Chan Centre
2:45-6 pm	10 Scientific Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
4-4:30 pm	Coffee Break	Hennings, IRC
4 pm-5 pm	Coordinating Council	IRC #G57-59
6-8:30 pm	Dinner Break	off-site & campus restaurants
8-10 pm	Poster Viewing (beverages will be served)	SUB/Ballroom + Party Room

Wednesday, June 24

7 am-1 pm	Removal of posters	SUB/ Ballroom + Party Room
8:15 am-12:30 pm	8 Scientific Sessions See schedule	Hennings 200, 201, 202 Hebb Theatre, IRC 1-6
10 - 10:30 am	Coffee Break	Hennings, IRC

JOIN US AGAIN IN 1999!

Mark your calendar now!
Annual Meeting of SSE, ASN and SSB
24-27 June, 1999
Madison, Wisconsin USA

SCHEDULE OF SESSIONS

SATURDAY, JUNE 20

1:30-5:30	Symposium	Room
1	Evolutionary Relationships among Eukaryotes	IRC 2

SUNDAY, JUNE 21

8:30-12:00	Symposium	Room
2	The Geographic Mosaic of Coevolution in Natural Populations	IRC 2

8:15-10:00	Contributed Paper Sessions 1-9	Room
1	Biogeography/Geographic Variation - Snakes and Lizards	Henn 201
2	Phylogeny-based Comparative Methods	Henn 200
3	Combined-data Systematics	Henn 202
4	Measuring Selection in the Wild	IRC 5
5	Population/Ecological Genetics	IRC 6
6	Developmental Evolutionary Biology	IRC 3
7	Speciation and Cladogenesis	IRC 4
8	Sexual Selection	IRC 1
9	Molecular Systematics - Birds and Mammals	Hebb Th

10:30-12:00	Contributed Paper Sessions 10-18	Room
10	Population/Ecological Genetics - Fish	IRC 6
11	Phylogeny-based Comparative Methods	Henn 201
12	Combined-data Systematics - Vertebrates	Henn 202
13	Adaptation - Life History	IRC 4
14	Molecular Systematics - Methods	Hebb Th
15	Developmental Evolutionary Biology	IRC 3
16	Sperm Competition/Precedence	IRC 5
17	Adaptation – Molecular	IRC 1
18	Molecular Systematics - Insects	Henn 200

1:30-2:30	Presidential Address	Room
	Robert K. Colwell, American Society of Naturalists	Chan Centre

2:45-6:00	Symposium	Room
3	New Directions in Experimental Evolution	IRC 2

2:45-4:00	Contributed Paper Sessions 19-27	Room
19	Evolutionary Theory	IRC 4
20	Biogeography/Geographic Variation - Insects	Henn 202
21	Coevolution Species/Interactions - Vertebrates	IRC 1

22	Quantitative Trait Loci	IRC 3
23	Molecular Evolution/Systematics - Methods	Hebb Th
24	Macroevolution	IRC 5
25	Biogeography/Geographic Variation - Amphibians	Henn 201
26	Conservation genetics - Molecular Markers	IRC 6
27	Molecular Evolution - Disease and Immune Response	Henn 200

4:30-6:00	Contributed Paper Sessions 28-36	Room
28	Evolutionary Theory	IRC 4
29	Phylogeography/Geographic Variation	Henn 202
30	Molecular Evolution/Systematics	Henn 200
31	Combined-data Systematics - Insects	Henn 201
32	Molecular Systematics - Plants	Hebb Th
33	Macroevolution	IRC 5
34	Evolution and Adaptive Significance of Sexual Dimorphisms	IRC 3
35	Conservation genetics - Plants	IRC 1
36	Molecular Evolution	IRC 6

8:30 p.m. -10:30 p.m.	Poster Viewing*	Sub Ballroom

MONDAY, JUNE 22

8:30-12:00	Symposium	Room
4	The Future of Reconstructing the Past: Asymmetric Transformation Probabilities and Ancestral Character State Reconstruction.	IRC 2

8:15-10:00	Contributed Paper Sessions 37-45	Room
37	Adaptation - Behaviour	IRC 5
38	Biogeography/Geographic Variation - Plants	Henn 202
39	Selection Experiments - *Drosophila*	Henn 200
40	Plant Pollination/ Reproduction	IRC 3
41	Adaptation	IRC 6
42	Coevolution – Host/Pathogen Interactions	Henn 201
43	Evolution and genetics of Microorganisms	Hebb Th
44	Molecular Evolution/Population Genetics	IRC 4
45	Molecular Evolution	IRC 1

10:30-12:00	Contributed Paper Sessions 46-54	Room
46	Molecular Evolution/Population Genetics	IRC 6
47	Phylogeography/Geographic Variation	Henn 202
48	Combined-data Systematics	IRC 4

* Contributors must be at their posters Monday, 2:45-6:00.

49	Mating (Breeding) Systems - Insects and Fungi	IRC 1
50	Self-Incompatibility	IRC 3
51	Coevolution/Species Interactions - Multiple Species	Henn 201
52	Evolution and Genetics of Microorganisms	Hebb Th
53	Mechanisms of Post-Mating Reproductive Isolation	IRC 5
54	Molecular Systematics - Animals	Henn 200

1:30-2:30	Presidential Address	Room
	Paula Mabee, Society of Systematic Biologists	CANCELLED

2:45-6:00	Symposium	Room
5	Character Evaluation and Phylogenetic Analysis	IRC 2

2:45-5:00	Special Session	Room
	Educational Issues in Evolutionary Biology	IRC 3

2:45-6:00	Poster Session*	Sub Ballroom

TUESDAY, JUNE 23

8:30-12:00	Symposium	Room
6	Simulated Evolution and the Origin of Life	IRC 2

8:15-10:00	Contributed Paper Sessions 55-63	Room
55	Coevolution/Species Interactions - Parasites, Parasitoids	IRC 3
56	Hybrid Zones	IRC 4
57	Phylogeny-based Comparative Analyses	Henn 201
58	Speciation and Cladogenesis	Henn 202
59	Mating (Breeding) Systems - Animals	Henn 200
60	Inbreeding Depression	IRC 5
61	Phylogenetic Methodology	Hebb Th
62	Phenotypic Plasticity - Costs and Constraints	IRC 6
63	Conservation genetics - Mammals	IRC 1

10:30-12:00	Contributed Paper Sessions 64-72	Room
64	Biogeography/Geographic Variation – Fish	Henn 201
65	Biogeography/Geographic Variation - Mammals	Henn 202
66	Social Behaviour/Structure	IRC 6
67	Speciation and Cladogenesis - Insects	IRC 1
68	Molecular Evolution/Systematics	Hebb Th
69	Coevolution – Plant/Insect Interactions	IRC 3
70	Mating (Breeding) Systems - Plants	Henn 200

* Contributors must be at their posters Monday, 2:45-6:00.

71	Hybridization/Ecological Genetics	IRC 4
72	Conservation genetics	IRC 5

1:30-2:30	Presidential Address	Room
	Stevan J. Arnold, Society for the Study of Evolution	Chan Centre

3:00-6:00	Symposium	Room
7	Young Investigators	IRC 2

2:45-4:00	Contributed Paper Sessions 73-81	Room
73	Speciation and Cladogenesis	IRC 4
74	Biogeography/Geographic Variation - Insects	Henn 201
75	Biogeography/Geographic Variation - Mammals	Henn 202
76	Adaptation - Life History	IRC 6
77	Conservation Genetics - Fish	IRC 5
78	Phenotypic Plasticity - Plants	IRC 3
79	Morphometrics	IRC 1
80	Population/Ecological Genetics - Fish	Hebb Th
81	Molecular Evolution	Henn 200

4:30-6:00	Contributed Paper Sessions 82-90	Room
82	Phenotypic Plasticity - Animals	IRC 3
83	Mating (Breeding) Systems – Plants	IRC 4
84	Developmental Evolutionary Biology	IRC 1
85	Hybridization/Ecological Genetics	Henn 202
86	Population/Ecological Genetics	Hebb Th
87	Quantitative Genetics	IRC 5
88	Molecular Evolution/Population Genetics	Henn 201
89	Molecular Evolution/Systematics	Henn 200
90	Conservation genetics - Theory and Methodology	IRC 6

8:30 p.m. -10:30 p.m.	Poster Viewing*	Sub Ballroom

Wednesday, June 24

8:15-10:00	Contributed Paper Sessions 91-99	Room
91	Quantitative Genetics	IRC 6
92	Adaptation - Behaviour	Henn 201
93	Evolution of Sex and Recombination	IRC 3
94	Measuring Selection in the Wild	IRC 1
95	Population/Ecological Genetics	Henn 200
96	Coevolution – Plants, Pollinators and Pathogens	IRC 5

* Contributors must be at their posters only on Monday, 2:45-6:00

97	Sexual Selection	IRC 4
98	Selection Experiments	Henn 202
99	Molecular Evolution	Hebb Th

10:30-12:30	Contributed Paper Sessions 100-108	Room
100	Evolution of Sex and Recombination	IRC 1
101	Species Interactions	IRC 5
102	Adaptation - Life History	Henn 201
103	Sexual Selection	Henn 202
104	Ecological Genetics	IRC 6
105	Viral Evolution	Henn 200
106	Quantitative Genetics of Life History Variation	IRC 4
107	Molecular Evolution - Microsatellites	Hebb Th

Special Sessions

Date	Time	Agency	Room
Sunday, June 21	12:00-1:00	Tim Mousseau, NSF	IRC 1
Monday, June 22	12:00-1:00	Tim Mousseau, NSF	IRC 1
Monday, June 22	3:00 - 3:30	Linda Delph, Sigma Xi	IRC 4
Monday, June 22	3:30 - 4:30	Canadian Society of Ecologists (organizational meeting)	IRC 5
Tuesday, June 23	12:00-1:00	Irene Eckstrand, NIH	IRC 1

SCIENTIFIC PROGRAM

SATURDAY, JUNE 20

##

Room IRC 2
Saturday, June 20

1:30 – 5:30 **SYMPOSIUM 1: EVOLUTIONARY RELATIONSHIPS AMONG EUKARYOTES.**
JOINT SSB,SSE, SMBE
Organizers: Laura Katz and Mitch Sogin

1:30 1 The Diversity and Diversification of Protists.
*David Patterson

2:00 2 The Search for our Ancestral Roots: Molecular Evolution in Eukaryotic Microorganisms.
*Mitch Sogin

2:30 3 Electron Microscopy as a Control for Molecular Phylogenetic Studies.
*Max Taylor

3:00 4 The Tangled Web: Interpreting Conflict among Eukaryotic Gene Genealogies.
*Laura Katz

3:30 – 4:00 Break

4:00 5 Reconstructing the Early Events in Eukaryotic Evolution.
*Andrew Roger

4:30 6 Tracing the Thread of Plastid Diversity through the Tapestry of Life.
*Charles Delwiche

5:00 7 Who's Who in the Crown of the Eukaryote Tree: Candidates for the Sister Group to Animals and Fungi.
*Sandra Baldauf.

SUNDAY, JUNE 21

##

Room IRC 2
Sunday, June 21

8:30 – 12:00 **SYMPOSIUM 2: THE GEOGRAPHIC MOSAIC OF COEVOLUTION IN NATURAL POPULATIONS.**
AMERICAN SOCIETY OF NATURALISTS
Organizer: John N. Thompson

8:30 8 Specific Hypotheses on the Geographic Mosaic of Coevolution.
*John N. Thompson

9:00 9 Spatial and Temporal Change in Coevolving Plant-Pathogen Metapopulations.
*Jeremy J. Burdon

9:30 10 Local Adaptation and Coevolution in Parasite/Host Interactions.
*Curtis M. Lively

10:00 – 10:30 Break

10:30 11 Rates of Coevolution between Plants and Microbial Pathogens versus Mutualists.
*Matthew A. Parker

11:00 12 Geographic Patterns in the Coevolutionary Interactions between *Drosophila* and their Parasitoids.

*A. R. Kraaijeveld

11:30 13 Geographic Structure and Replicate Coevolution between Crossbills and Lodgepole Pine.
*Craig W. Benkman

##

Room Henn 201
Sunday, June 21

8:15-10:00 **SESSION 1: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - SNAKES AND LIZARDS**
Chair: Delbert Hutchison

8:15 14 Phylogeography of Caribbean Lizard Malaria Parasites.
*S.L. Perkins, J.J. Schall

8:30 15 mtDNA Phylogeography of the Sagebrush Lizard, (*Isceloporus graciosus*), in California.
*L.J. Frabotta

8:45 16 Phylogeographic Complexity and the Significance of Subspecies in the Western Fence Lizard, *Sceloporus occidentalis.*
*J.W. Archie

9:00 17 Population Genetic Comparisons between Centrally- and Peripherally-Located Populations of the Eastern Collared Lizard (*Crotaphytus collaris collaris*) .
*D.W. Hutchison

9:15 18 Geographic and Interspecific Variation in the Lizard Genus *Sauromalus* in Relation to Environment.
*P.S. Hamilton

9:30 19 Phylogeography of an Ubiquitous Arid-Dwelling Lizard, *Uta stansburiana* (Phrynosomatide): Testing a Model of Regional Endemism.
*D.C. Nickle, D.I. Orange

9:45 20 Determinants of Morphological Patterns in Mexican Insular Rattlesnakes.
*D.H. Theodoratus

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Room Henn 200
Sunday, June 21

8:15-10:00 **SESSION 2: PHYLOGENY-BASED COMPARATIVE METHODS**
Chair: Mark Pagel

8:15 21 Comparing Comparative Methods Using a Known Virus Phylogeny.
*T.H. Oakley

8:30 22 The Comparative Biology of Pollen Limitation.
*B.M.H. Larson, S.C.H. Barrett

8:45 23 Phylogenetic Inertia as a Null Model in Comparative Studies.
*D.B. Burt

9:00 24 Streaking and Boxing: A Method for Exploring Non-Linear Dynamics in Evolutionary Trends.
*J. Alroy

9:15 25 Tree Dependent Inferences: Problems and Solutions.
*G.A. Hoelzer, J. Lyons-Weiler

9:30 26 Greater Power and Realism in Tests of Phylogenetic Asymmetry: Simulating Vicariance and Peripheral Isolates Speciation.
*B.R. Moore, K. Chan

9:45 27 Inferring Evolutionary Processes from Phylogenies.

*M. Pagel

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Room Henn 202
Sunday, June 21

8:15-10:00 **SESSION 3: COMBINED-DATA SYSTEMATICS**
Chair: Mark Westneat

8:15 28 Reliability of Morphological Reductive Characters in Cardiid Bivalves as Tested with Molecular Phylogenetics.
*J.A. Schneider, D. O Foighil

8:30 29 Molecules Support Hexapoda + Crustacea Over Hexapoda + Myriapoda.
*J.C. Regier, J.W. Shultz

8:45 30 Phylogeny and Biogeography of Loliginid Squids Based on Parsimony and Likelihood Analyses of Multiple Data Sets.
*F.E. Anderson

9:00 31 Inference of Phylogenetic Pattern for the Eudicots (Angiosperms), and Distribution of Species Diversity.
*S.A. Magallon, P.R. Crane

9:15 32 Phylogenetic Inferences of Magnoliidae: A Comparison of 18S and rbcL Sequence Data.
*M.J. Zanis, D.E. Soltis, P.S. Soltis, Y.-L. Qiu

9:30 33 Morphological and Molecular Support for Ecdysozoa.
*J.R. Garey

9:45 34 Phylogenetic Relationships and Evolution of Labrid Fishes.
*M.W. Westneat

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Room IRC 5
Sunday, June 21

8:15-10:00 **SESSION 4: MEASURING SELECTION IN THE WILD**
Chair: Shyril O'Steen

8:15 35 Floral Symmetry and its Relation to Phenotypic Variance in Flower Size.
*L.M. Wolfe

8:30 36 Measurements of Selection on Floral Traits in Wild Radish: Use of Breeding Values to Control for Environmental Correlations.
*J.K. Conner

8:45 37 No Response Despite Selection and Genetic Variance: A Natural Consequence of Long-Term Directional Selection.
*J.P. Reeve, D.J. Fairbairn

9:00 38 Fitness Components Through Development in the Bark Beetle *Ips pini*.
*A.M. Shumate

9:15 39 Rapid Response to Natural Selection on Escape Performance in Trinidad Guppies.
*S. O'Steen, A.F. Bennett

9:30 40 Molecular Genetic Variation and Individual Fitness in a Free-Living Vertebrate Population.
*D.W. Coltman, J. Pemberton

9:45 41 The Timing of Natural Selection in a Marine Mussel Hybrid Zone.
*E.W. Carson, T.J. Hilbish

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Room IRC 6
Sunday, June 21

8:15-10:00 **SESSION 5: POPULATION/ECOLOGICAL GENETICS**
Chair: Anne McMillen-Jackson

8:15 42 Cancelled

8:30 43 Centuries of Continuous Ecological-Genetic Data Recovered from a Micro-Crustacean Resting Egg Bank.
*J.K. Colbourne, H. Pollard, P. Limburg, P.D.N. Hebert

8:45 44 Genetic Variation in Ancient Cladoceran Eggs in Relation to Environmental Changes During the Past Millenium.
*P.P. Limburg, J.K. Colbourne, L.L. Weider

9:00 45 Comparison of Gene Flow Within Marine Littorinid Gastropod Species with Planktotrophic and Non-Planktotrophic Development.
*C.J. Kyle, E.G. Boulding

9:15 46 Pink Shrimp (*Penaeus duararum*) in the Southeastern United States: Does the Elongation Factor 1-Alpha Intron Reveal Population Genetic Structure?
*A.L. McMillen-Jackson, T.M. Bert

9:30 47 Comparison of Dispersal and Gene Flow Estimates in the Fairy Shrimp *Branchinecta coloradensis*.
*A.J. Bohonak

9:45 48 Migration, Effective Size, and the Genetic Structure of Nematode Populations.
*M.S. Blouin

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Room IRC 3
Sunday, June 21

8:15-10:00 **SESSION 6: DEVELOPMENTAL EVOLUTIONARY BIOLOGY**
Chair: Gunter Wagner

8:15 49 Population Differences in Onset of Cranial Ossification as a Potential Cost of Rapid Growth in Sunfish.
*J.D. Arendt, D.S. Wilson

8:30 50 Cancelled

8:45 51 Heterochrony and Morphological Diversity in a Bahamian Pupfish Species Complex.
*C.L. Holtmeier

9:00 52 Evolution of Urodele Limb Development: Molecular Evidence.
*G.P. Wagner, P. Khan, M. DiLuna, E. Bullit

9:15 53 Neural Development and Evolution of the Gymnophione Amphibians.
*M.H. Wake

9:30 54 Redundant Gene Functions and their Evolution.
*A. Wagner

9:45 55 Characterization and Evolution of the Hoxa-11 Gene in Chordate Lineages.
*C. Chiu, G.P. Wagner

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Room IRC 4
Sunday, June 21

8:15-10:00 **SESSION 7: SPECIATION AND CLADOGENESIS**

Chair: Eric Taylor

8:15 56 A Role for Ecotones in Generating Diversity in Australian Tropical Rainforest.
*C. Schneider, T.B. Smith, B. Larrison

8:30 57 Testing Reinforcement Theory in Desert *Drosophila.*
*G.D. Hocutt

8:45 58 Sympatric Mammal-Eating and Fish-Eating Killer Whale (*Orcinus orca*) Populations: Cultural Differences Limit Or Prevent Gene Flow.
*L.G. Barrett-Lennard

9:00 59 Was Founder Effect a Causal Factor in Speciation of the Auklets: Evidence from Introns and MHC Polymorphism.
*H.E. Walsh, I.L. Jones, V.L. Friesen

9:15 60 A Phylogenetic Assessment of the African Pycnonotidae and its Implications for Speciation in the Afrotropics.
*K.B. O'Keefe, T.B. Smith

9:30 61 History of Genetic Divergence and Speciation in Sticklebacks Inferred from Microsatellites.
*E.B. Taylor

9:45 62 Trade-Offs in Habitat Use Efficiency among Phenotypes from a Single Polymorphic Stickleback Population.
*B.W. Robinson

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Room IRC 1
Sunday, June 21

8:15-10:00 **SESSION 8: SEXUAL SELECTION**
Chair: Rob Brooks

8:15 63 Invisible Ultraviolet Variation in a Structurally-Based Plumage Ornament: Implications for Intraspecific Signaling and Sexual Selection.
*A.J. Keyser, G.E. Hill

8:30 64 Experimentally Imposed Monogamy Exposes an Intersexual Arms Race.
*B. Holland, W.R. Rice

8:45 65 Within- and among-Population Variation in Courtship Displays of Male *Limia perugia.*
*V.N. Rush, C.R. Sargent, H. Layson, E. Libby

9:00 66 Multiple Mate Choice Cues: The Object of One Or Many Preferences.
*R.R. Brooks

9:15 67 Mate Choice Evolution and Gynogens: Are they Red Queens?
*L.A. Dries

9:30 68 A Phylogenetic Perspective on Female Preference Evolution in the Guppy.
*F. Breden, J.S. Taylor

9:45 69 Evolution of Sexually Selected Traits in Mollies (Poecilia: Mollienesia) from a Phylogenetic Perspective.
*M.B. Ptacek, F. Breden

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Room Hebb Th
Sunday, June 21

8:15-10:00 **SESSION 9: MOLECULAR SYSTEMATICS – BIRDS AND MAMMALS**
Chair: Mark Springer

8:15 70 A Multigene Analysis of Marsupial Interordinal Relationships.
*M.S. Springer, A. Burk, M. Westerman, C.W. Krajewski

8:30 71 Phylogeny of Ground Squirrels and Prairie Dogs Based on Cytochrome b Sequences.
*R.G. Harrison, R.S. Hoffmann, P.W. Sherman, E. Yensen

8:45 72 Placental Interordinal Relationships: Evidence from the 12S and 16S rRNA Genes.
*D.J. Kao, H.M. Amrine, M.S. Springer

9:00 73 The Role of Bats in the Maintenance of Rabies in the United States: Evidence for a Solitary, Reclusive Bat Species as the Reservoir for Most Fatal Human Infections.
*S.L. Messenger, J.S. Smith, L.A. Orciari, C.E. Rupprecht

9:15 74 A Single, Ancient Origin of Brood Parasitism in African Finches: Implications for Host-Parasite Coevolution.
*M.D. Sorenson, R.B. Payne

9:30 75 Phylogeny for the Avian Genus *Pitohui*; Evolution of Avian Chemical Defense.
*J.P. Dumbacher

9:45 76 Phylogenetic Relationships of Muntjac (Artiodactyla: Cervidae: Muntiacinae) Based on Molecular Data.
*M.G. Egan, G. Amato

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Room IRC 6
Sunday, June 21

10:30-12:00 **SESSION 10: POPULATION/ECOLOGICAL GENETICS - FISH**
Chair: Tomas Hrbek

10:30 77 Killifishes of Lake Maracaibo Basin, Venezuela: Invisible Barriers to Geneflow?
*T. Hrbek, A. Larson

10:45 78 Phylogeography of the Plains Killifish, *Fundulus zebrinus*: Implications for its Zoogeography and Taxonomy.
*B.R. Kreiser, J.B. Mitton, J.D. Woodling

11:00 79 Population Structure in the Killifish *Fundulus heteroclitus*.
*K.A. Callicott, D.A. Powers

11:15 80 A Nuclear DNA Basis for Shelf- and Bank-Scale Structure in Atlantic Cod from Labrador to Georges Bank.
*D.E. Ruzzante, C.T. Taggart, D. Cook

11:30 81 Rapid Evolution in Introduced Salmon Populations.
*A.P. Hendry

11:45 82 Molecular Ecology of the Lake Nipigon Ciscoes (Salmonidae) Species Flock.
*J. Turgeon, A. Estoup, L. Bernatchez

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Room Henn 201
Sunday, June 21

10:30-12:00 **SESSION 11: PHYLOGENY-BASED COMPARATIVE ANALYSES**
Chair: Bernard Crespi

10:30 83 Comparative Analysis of the Evolution of Gall Morphology and the Logical Power of Phylogeny-Based Tests.
*B. Crespi, M. Worobey

10:45 84 A Phylogenetic Test of Ecomorphological Adaptation in *Cancer* Crabs.

*M. Harrison, B. Crespi

11:00 85 The Fate of Evolutionary Novelties: The Floral Corona of Asclepiadaceae.
*M. Fishbein

11:15 86 Macroevolution of Host-Plant Specialization and Color Polymorphism in Timema Walking-Sticks.
*C.P. Sandoval, D. Carmean, B. Crespi

11:30 87 Non-Photosynthetic Broomrapes and their Relatives: Complex Pattern Seen in Rates of DNA Sequence Evolution.
*N.D. Young, C.W. dePamphilis

11:45 87B Reversal in Ovary Position in the Haemodoraceae: Evidence from Ontogeny.
*M. G. Simpson

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Room Henn 202
Sunday, June 21

10:30-12:00 **SESSION 12: COMBINED-DATA SYSTEMATICS - VERTEBRATES**
Chair: Tod Reeder

10:30 88 Phylogenetic Relationships within the Australian Sphenomorphus Group (Squamata: Scincidae) and the Evolution of Limb Reduction.
*T.W. Reeder

10:45 89 Systematics of Suboscine Birds: A Nuclear and Mitochondrial Perspective.
*R.T. Chesser

11:00 90 Relationships of the Large Waterbird Orders: Contributions of DNA Sequence Data to Questions in Higher Order Avian Systematics.
*S.E. Stanley

11:15 91 The Phylogenetic Position of Cetacea: An Evaluation of Molecular and Morphological Data.
*M.A. O'Leary

11:30 92 *Pholidota* and *Xenarthra*, sister taxa within Eutheria? Some new molecular evidence.
*J.E. Norman, M.V. Ashley

11:45 93 Multigene Analysis of Kangaroo Intergeneric Relationships.
*A. Burk, M.S. Springer

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Room IRC 4
Sunday, June 21

10:30-12:00 **SESSION 13: ADAPTATION - LIFE HISTORY**
Chair: George Gilchrist

10:30 94 Neutrality Testing of mtDNA Cytochrome b for Centropomine Fish Species Having Disparate Life Histories.
*M.D. Tringali, T.M. Bert, S. Seyoum

10:45 95 Life History Differences in Isolated Waterstrider (*Aquarius najas*) Populations.
*P. Ahlroth

11:00 96 Adaptation to Life in the Desert: Desiccation Resistance in Endemic Flies.
*C. Breitmeyer

11:15 97 The Influence of Frequency-Dependent Predation on the Timing of Life-History Transitions.
*R.R. McGregor

11:30 98 Rapid Evolution of Life History Traits in the Introduced Species, *Drosophila subobscura*.

*G.W. Gilchrist, R.B. Huey, M. Carlson

11:45 99 Multivariate Differentiation of Life-History Traits in the Lyre-Leaved Rockcress, *Arabis lyrata*.
*R.H. Podolsky

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Room Hebb Th
Sunday, June 21

10:30-12:00 **SESSION 14: MOLECULAR SYSTEMATICS - METHODS**
Chair: Ken Halanych

10:30 100 The External Transcribed Spacer of the rDNA Repeat: A New Means of Resolving Low-Level Relationships in the Asteraceae and Closely Allied Families.
*C.R. Linder, L.R. Goertzen, J. Francisco-Ortega, R. Jansen

10:45 101 Model-Independent Identification of Phylogenetic Signal in DNA Sequences.
*F. Roedding

11:00 102 Empirical Comparison of Four Methods of Estimating Internal Support of Phylogenetic Trees Based on Three Data Sets for Seed Plants.
*M.E. Mort, D.E. Soltis, P.S. Soltis

11:15 103 On the Best Evolutionary Rate for Phylogenetic Analysis.
*Z. Yang

11:30 104 The Importance of Hypothesis Testing in Systematics; a Case Study with Lophophorates.
*K.M. Halanych

11:45 105 Isolation of Genetic Markers Using Representational Difference Markers.
*A. Nekrutenko, R.J. Baker

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Room IRC 3
Sunday, June 21

10:30-12:00 **SESSION 15: DEVELOPMENTAL EVOLUTIONARY BIOLOGY**
Chair: Guoping Shu

10:30 106 Diversity and Evolution of Shoot Morphogenesis Patterns in Brassicaceae Species.
*G. Shu, W. Amaral, D. Baum

10:45 107 Phylogeny and Floral Morphology of the Vochysiaceae, a Group of Tropical Plants with Really Weird Flowers.
*A. Litt, D.W. Stevenson, M.W. Chase

11:00 108 Cancelled

11:15 109 Compound Leaf Evolution and Development in Angiosperms: A Preliminary Systematic Study.
*G. Bharathan, T. Goliber, N. Sinha

11:30 110 A New Comparative Method for Integrating Ontogenetic and Phylogenetic Data: An Application to the Evolution of the Crocodylian Secondary Palate.
*H.C.E. Larsson

11:45 111 Postnatal Ontogeny of Feeding Morphology in Old World Fruit Bats: A Comparison of Frugivores and Nectarivores.
*M.M. Cogan

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Room IRC 5
Sunday, June 21

10:30-12:00 **SESSION 16: SPERM COMPETITION/PRECEDENCE**
Chair: Alberto Civetta

10:30 112 A Program to Estimate Levels of Multiple Paternity and Sperm Competition from Genetic Data on Mothers and Offspring.
*K.L. Kichler, M.T. Holder

10:45 113 Mating Behavior in Milkweed Beetles: A Test of Two Sperm Competition Models.
*S.L. Lance, L. Chao

11:00 114 Chromosomal Mapping of Male and Female Components of Sperm Precedence in *Drosophila.*
*A. Civetta, A.G. Clark

11:15 115 Male x Female Interaction in Sperm Competition in *Drosophila.*
*A.G. Clark, D.J. Begun, T. Prout

11:30 116 Mechanisms of Sperm Precedence within and between Species of *Drosophila.*
*C. Price

11:45 117 Sexual Selection for Female Preference and Male Interference in the Newt, *Notophthalmus viridescens*: Behavioral Experiments and the Detection of Sperm Precedence Using Genetic Markers.
*C. Gabor, J. Krenz, R. Jaeger

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Room IRC 1
Sunday, June 21

10:30-12:00 **SESSION 17: ADAPTATION - MOLECULAR**
Chair: Keith Crandall

10:30 118 The Genetic Code Has Been Shaped by Selection.
*S.J. Freeland, L.D. Hurst

10:45 119 Evolution of Multiple Hsp70 Genes in the Genus *Drosophila.*
*B.R. Bettencourt, M.E. Feder

11:00 120 Cancelled

11:15 121 Phylogenetic Patterns of Rapid Adaptive Evolution of Abalone Fertilization Proteins.
*E.C. Metz, V.D. Vacquier

11:30 122 Convergent Evolution of Drug Resistance in HIV Infected Patients.
*K.A. Crandall

11:45 123 Coevolution of Mammalian Chemokines and Receptors.
*A.L. Hughes, M. Yeager

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Room Henn 200
Sunday, June 21

10:30-11:45 **SESSION 18: MOLECULAR SYSTEMATICS - INSECTS**
Chair: Jan Conn

10:30 124 Opsin, a Potentially Useful Nuclear Gene for Insect Phylogenetics, Resolves Relationships among Apine Bees.
*P. Mardulyn, S.A. Cameron

10:45 125 Evolutionary History of *Anopheles darlingi* (Diptera: Culicidae) Inferred Using Parsimony and Neighbour-Joining.
*J.E. Conn

11:00 126 Rates and Patterns of Cladogenesis in the Caelifera (Insecta, Orthoptera).
*P.K. Flook

11:15 127 Molecular Phylogenetics of Bark Beetles (Scolytidae) and the Evolution of Feeding Modes and

Mating Sytems.
*B.B. Normark, B.H. Jordal, B.D. Farrell

11:30 129 Phylogenesis of Host Plant Use and Specialization in Papaipema (Lepidoptera: Noctuidae).
*P.Z. Goldstein

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Room: Chan Centre
Sunday, June 21

1:30 – 2:30 **PRESIDENTIAL ADDRESS**
AMERICAN SOCIETY OF NATURALISTS
A time and place for everything: Integrating diverse approaches to understanding species' distributions
Robert K. Colwell

##

Room IRC 2
Sunday, June 21

2:45 – 6:00 **SYMPOSIUM 3: NEW DIRECTIONS IN EXPERIMENTAL EVOLUTION.**
SOCIETY FOR THE STUDY OF EVOLUTION
Organizers: Adam Chippindale and Michael R. Rose

2:45 130 The Experimental Wonderland (Introduction).
*Michael R. Rose

3:10 131 Evolution of Mutation Rates in *E. coli*.
*Paul Sniegowski and Philip Gerrish

3:35 132 Laboratory Evolution, Hybridization and the Genetic Basis of Stress Responses.
*Miriam Hercus and Ary Hoffmann

4:00 – 4:30 Break

4:30 133 Experimental Evolution of Specialization and Plasticity.
*Graham Bell

4:55 134 Interlocus Contest Evolution (ICE) and the Evolution of Counter-Adapted Gene Complexes: Experimental Evidence.
*William Rice and Brett Holland

5:20 135 Experimental Studies of Adaptation in Natural Populations of Guppies.
*David Reznick and Helen Rodd

5:45 136 Genetical Trade-Offs between Growth, Size, and Survival in a Complex Life-Cycle.
*Adam Chippindale

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Room IRC 4
Sunday, June 21

2:45-4:00 **SESSION 19: EVOLUTIONARY THEORY**
Chair: Michael Grant

2:45 137 Using a Nonrecursive Formula to Determine Cladogram Probabilities.
*J.R. Stone, J. Repka

3:00 138 Feedback: A Novel Mechanism of Background Extinction.
*M.C. Grant, D. Robertson

3:15 139 Adequacy of Evolutionary Models with Correlations and Rate Heterogeneity.
*M. Schoeniger

3:30 140 Phylogenetic Estimation of HIV Population Parameters.
*D.A. Vasco, D. Posada, Y.-X. Fu, K.A. Crandall

3:45 141 Testing Hypotheses of Simultaneous Branching of Evolutionary Lineages Using Molecular Sequence Data.
*T. Jackman, A. Larson, K. DeQueiroz, J. Losos

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Room Henn 202
Sunday, June 21

2:45-4:00 **SESSION 20: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - INSECTS**
Chair: Paul Chippindale

2:45 142 The Neotropical *Hister servus* Clade: Phylogenetics and Biogeographical Implications.
*M.S. Caterino

3:00 143 Biogeography of the Genus *Liosphex* Townes (Rhopalosomatidae, Hymenoptera, Insecta): Examining a Disjunct Distribution.
*A.E. Guidotti

3:15 144 Molecular Systematics of Black Flies (Subgenus *Inseliellum*) Endemic to the Society Islands, French Polynesia.
*D.A. Joy

3:30 145 Molecular Phylogeography of Ischnurine Damselflies I: Invasion and Radiation of the Genus *Ischnura* in North America.
*J.V. Robinson, P.T. Chippindale

3:45 146 Molecular Phylogeography of Ischnurine Damselflies II: Evolutionary History of the Genus *Ischnura* on a Global Scale.
*P.T. Chippindale, J.V. Robinson

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Room IRC 1
Sunday, June 21

2:45-3:45 **SESSION 21: COEVOLUTION/SPECIES INTERACTIONS - VERTEBRATES**
Chair: Edmund Brodie III

2:45 147 Cancelled

3:00 148 Coevolution of Predators and Dangerous Prey: Costs of Tetrodotoxin Resistance in Garter Snakes.
*E.D. Brodie III, E.D. Brodie, Jr.

3:15 149 Incipient Host-Race Formation in the Common Cuckoo (*Cuculus canorus*).
*K. Marchetti, H. Nakamura, H.L. Gibbs

3:30 150 Coevolution among Hantaviruses and their Murid Hosts.
*C.J. Conroy, J.A. Cook, O. Vapalahti, A. Lundkvist, S. Hirvonen, V. Fedorov, K. Fredga, H. Hentonnen, A. Vaheri, A. Plyusnin

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Room IRC 3
Sunday, June 21

2:45-4:00 **SESSION 22: QUANTITATIVE TRAIT LOCI**
Chair: Robert Latta

2:45 152 Phylogenetic Analysis of Chemosensory Behavior of Rhabditid Nematodes: A Starting Point for Comparative QTL Analysis.
*M. Juliet, B. Armstrong, P.C. Phillips

3:00 153 Population Differentiation of Allelic Frequencies at Quantitative Trait Loci Affecting Locally

Adaptive Traits.
*R.G. Latta

3:15 154 Courtship Song Quantitative Trait Loci in *Drosophila melanogaster.*
*J.M. Gleason

3:30 155 Genotype x Environment Interaction for Quantitative Trait Loci Affecting Bristle Number in *Drosophila melanogaster.*
*M.C. Gurganus, J.D. Fry, S.V. Nuzhdin, T.F.C. Mackay

3:45 156 A QTL Mapping Paradigm for Evolutionists.
*K. Ritland

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Room Hebb Th
Sunday, June 21

2:45-3:30 **SESSION 23: MOLECULAR EVOLUTION/SYSTEMATICS - METHODS**
Chair: James Lyons-Weiler

2:45 159 Unequivocal Coding and Optimal Weighting of Ambiguously Aligned Nucleotide Sequences for Phylogenetic Analyses.
*F.M. Lutzoni, V. Reeb

3:00 160 Phylogenetic Analysis is Signal Processing.
*J. Lyons-Weiler

3:15 161 Invariable Sites Models.
*M.A. Steel, P. Lockhart

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Room IRC 5
Sunday, June 21

2:45-3:45 **SESSION 24: MACROEVOLUTION**
Chair: Arne Mooers

2:45 162 A Hypothesis About Hierarchies.
*D.W. McShea

3:00 163 Allometry, Morphological Integration and Evolution of Form.
*B. Chernoff, P.M. Magwene

3:15 165 Phylogenies and Macroevolution: Sexual Selection and Diversification in Cranes.
*A. Mooers, S. Vamosi, D. Schluter

3:30 166 Evolutionary Relationships of *Phalanger gymnotis* (Marsupialia:Phalangeridae): Using Molecular Data to Interpret the Fossil Record.
*A.T. Hamilton, M. Springer

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Room Henn 201
Sunday, June 21

2:45-4:00 **SESSION 25: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - AMPHIBIANS**
Chair: Blair Hedges

2:45 167 Molecular Phylogeny of Caecilian Amphibians and Gondwanan Biogeography.
*J.A. Sheps, B.L. Cohen, R.A. Nussbaum, M. Wilkinson

3:00 168 Morphological and Trophic Variability in Populations of *Plethodon cinereus* and *P. hoffmani* in South-Central Pennsylvania.
*D.C. Adams

3:15 169 Cancelled

3:30 170 An Ancient Caribbean Frog Fauna.
*B. Hedges

3:45 171 Possible Origins of Genetic Structuring and Diversification in the Canyon Treefrog, *Hyla arenicolor.*
*P.H. Barber

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Room IRC 6
Sunday, June 21

2:45-4:00 **SESSION 26: CONSERVATION GENETICS - MOLECULAR MARKERS**
Chair: Jack Sites

2:45 172 Rapid Radiation and Phylogeny of Canaries (Genus *Serinus*) and Goldfinches (Genus *Carduelis*) Established by Cytochrome b Gene Sequence Comparison.
*A.A. Arnaiz-Villena, M. Alvarez, V. Ruiz-Del-Valle, C. Garcia-Torre, P. Varela, M.J. Recio, S. Ferre, J. Martinez-Laso

3:00 173 Genetic Variation and the Potential Hybrid Origin of the Rare Yellow Larkspur, *Delphinium luteum.*
*J.A. Koontz, P.S. Soltis, S.J. Brunsfeld

3:15 174 Molecular Genetics of a Bottleneck in a Natural Song Sparrow Population.
*L.F. Keller

3:30 175 Conservation Genetics of the Amazonian River Turtle (*Podocnemis expansa*): Inferences from Molecular Markers in an Ecological Vacuum.
*J.W. Sites, N.N. FitzSimmons, N. Jorge da Silva, V.H. Cantarelli

3:45 176 Genetic Analyses of Western Pond Turtle (*Clemmys marmorata*) Using Microsatellite DNA.
*C.M. Ingram

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Room Henn 200
Sunday, June 21

2:45-4:00 **SESSION 27: MOLECULAR EVOLUTION - DISEASE AND IMMUNE RESPONSE**
Chair: Michael Worobey

2:45 177 Organization, Structure and Evolutionary Implication of the Human and Murine T-Cell Receptor Gamma Locus.
Q. Zhou, *M.J. Parlee, M. Zhan, B.F. Koop

3:00 178 The Molecular Evolution of Dengue Viruses: New Perspectives on the Origin and Spread of an Emerging Disease.
*M.G. Worobey, E.C. Holmes

3:15 179 Conservation of Cytotoxic T Lymphocyte Epitopes as an Host Strategy to Constrain Parasite Adaptation: Evidence from the nef Gene of Human Immunodeficiency Virus 1.
*J. da Silva, A.L. Hughes

3:30 180 Patterns of HIV Evolution and Disease Progression.
R.B. Markham, W. Wang, *A.E. Weisstein, Z. Wang

3:45 181 Evidence for Replication Slippage at Short Tandem Repeats in Human Cytomegalovirus: Implications for Genome Evolution and Epidemiology.
*C.L. Davis, D. Field, D.L. Metzgar, C. Wills

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Room IRC 4
Sunday, June 21

4:30-6:00 **SESSION 28: EVOLUTIONARY THEORY**

Chair: Maria Servedio

4:30 182 Insights into the Evolution of Aposematic Coloration from Models of Predator Learning.
*M.R. Servedio

4:45 183 Somatic Mutation in Clonal Organisms: Selection on Chimeric Individuals.
*M.E. Orive

5:00 184 A Genetic Model for the Evolution of Genomic Imprinting.
*H.G. Spencer, M.W. Feldman, A.G. Clark

5:15 185 The Mitochondrial Germline Bottleneck and the Evolutionary Maintenance of Mitochondrial Genomes.
*C.T. Bergstrom J.K. Pritchard

5:30 186 Dynamics of Speciation on Holey Adaptive Landscapes.
*S. Gavrilets

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Room Henn 202
Sunday, June 21

4:30-6:00 **SESSION 29: PHYLOGEOGRAPHY/GEOGRAPHIC VARIATION**
Chair: Harilaos Lessios

4:30 187 Interpopulation Variation in Physiological Traits and Implications for Habitat Invasions.
*C.Eunmi Lee

4:45 188 Word-Wide Phylogeny of the Sea Urchin *Diadema*: New Species and Unexpected Phylogenetic Patterns.
*H.A. Lessios, B.D. Kessing, J.S. Pearse

5:00 189 After the Invasion: Comparative Phylogeography of Trans-Arctic Migrants in the North Atlantic.
*J.P. Wares, C.W. Cunningham

5:15 190 Phylogeographic Differences of Two Squids (*Loligo pealei* & *L. pleii*) as Shown by mtDNA.
*S.W. Herke, D.W. Foltz

5:30 191 Phylogeography of Rock Ptarmigan: A Test of the Glacial Refugia Hypothesis.
*K. Holder, R. Montgomerie, V.L. Friesen

5:45 192 Was the Passenger Pigeon a Pigeon?: Molecular Systematics of an Extinct Species.
*K.P. Johnson, D.H. Clayton

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Room Henn 200
Sunday, June 21

4:30-6:00 **SESSION 30: MOLECULAR EVOLUTION/SYSTEMATICS**
Chair: John Stiller

4:30 193 Dramatic mtDNA Gene Rearrangement in Arthropods Defines Systematically Perplexing Anomuran Crustaceans?
*C.L. Morrison

4:45 194 Phylogeny of the Kingsnakes and Milksnakes (Colubridae: Lampropeltis) Based on Cytochrome-b DNA Sequences.
*J.W. Fetzner, L.R. Miller

5:00 195 C-myc Gene Evolution and Amniote Phylogeny.
*W.T. McJilton, T.W. Reeder

5:15 196 Mitochondrial DNAs of the Most Basal Metazoan Branches - Sequences and Rates in the Sponges, Ctenophores, and Cnidarians.

*R.F. Watkins, A. Beckenbach

5:30 197 Molecular Analyses of *Mastigamoeba invertens*: Enigmatic Genes from an Enigmatic Protist.
*J.W. Stiller, B.D. Hall

5:45 198 Reconstructing Metazoan Phylogeny Through Mitochondrial Gene Arrangement Comparisons.
*J.L. Boore, D.V. Lavrov, W.M. Brown

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Room Henn 201
Sunday, June 21

4:30-6:00 **SESSION 31: COMBINED-DATA SYSTEMATICS - INSECTS**
Chair: Brian Wiegmann

4:30 199 Treehopper Trees: Synthesis of Molecular and Morphological Evidence of Higher-Level Phylogeny in the Membracidae (Insecta: Hemiptera).
*J.R. Cryan, B.M. Wiegmann

4:45 200 Parsimony Analysis of Large Data Sets Using Ancestral States as Terminal Taxa: An Empirical Study of Noctuoid Moths.
*A. Mitchell, C. Mitter

5:00 201 Combined Analysis of Phylogenetic Relationships among Microgastrine Braconid Wasp Genera Using Data from the 16S, COI and 28S Genes and Morphology.
*J.B. Whitfield, P. Mardulyn

5:15 202 The Shape of Fly Evolution: Phylogenetic Inference from Multiple Datasets.
*B.M. Wiegmann, D.K. Yeates, S. Tsaur

5:30 203 Strepsiptera and Long-Branch Distraction.
*M.F. Whiting

5:45 204 A Systematic Revision of Eurybia (Lepidoptera: Riodinidae).
*R.H. Hanner

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Room Hebb Th
Sunday, June 21

4:30-6:00 **SESSION 32: MOLECULAR SYSTEMATICS – PLANTS**
Chair: Elena Conti

4:30 205 Interspecific Hybrid Origins and Adaptive Radiation of the Hawaiian Silversword Alliance.
*M. Barrier, B.G. Baldwin, R.H. Robichaux, M.D. Purugganan

4:45 206 Evidence for an Allopolyploid Origin of Subfamily Maloideae S. L. (Rosaceae) from the Nuclear Granule-Bound Starch Synthase (GBSS) or Waxy Gene.
*R.C. Evans, L. Alice, C.S. Campbell, E.A. Kellogg

5:00 207 Life History Evolution in the Silver Saxifrages: A Phylogenetic Perspective.
*E. Conti, D. Soltis, R. Gornall

5:15 208 Trans-Species Polymorphism and Paraphyly at the RNA Polymerase II Locus in Rhododendron.
*A.L. Denton, B.D. Hall

5:30 209 Molecular Systematic Analysis of *Ulva* and *Enteromorpha* (Ulvales, Chlorophyta).
*I.H. Tan, H.J. Sluiman

5:45 210 Patterns of Genetic Variation in Morphologically Heterogeneous Apomictic Populations of North American *Crepis* (Asteraceae).
*J. Whitton

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Room IRC 5
Sunday, June 21

4:30-5:45 **SESSION 33: MACROEVOLUTION**
Chair: Damhnait McHugh

4:30 211 Biogeography and Molecular Systematics of Deep-Sea Hydrothermal Vent Shrimp (Caridea; Alvinocarididae).
*T.M. Shank, R.C. Vrijenhoek

4:45 212 The Trinity Diversity-Disparity-Phylogeny: Concepts and Data, with Examples from Echinoids.
*G.J. Eble

5:00 214 Deciphering Metazoan Phylogeny Using Elongation Factor-1Alpha.
*D. McHugh, K. Halanych, B. Richter

5:15 215 Molecular and Morphological Phylogenetics of Cryptic Species Complexes in Marine Bryozoans.
*D.R. Brumbaugh .

5:30 216 Likelihood Estimates of Phylogenies for Fossil Taxa and the Evolutionary Implications.
*P.J. Wagner

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Room IRC 3
Sunday, June 21

4:30-5:45 **SESSION 34: EVOLUTION AND ADAPTIVE SIGNIFICANCE OF SEXUAL DIMORPHISMS**
Chair: Josepha P. Kurdziel

4:30 217 Cancelled

4:45 218 Laryngeal Evolution and Sexual Dimorphism in the Frog Genus *Physalaemus*.
*C. Infante, D. Cannatella

5:00 219 Male Dimorphism and Combat in the Marine Amphipod *Jassa*: Do Big Thumbs Have it Hands Down?
*J.P. Kurdziel, J.S. Levinton

5:15 220 Hormonal Control of Male Horn Length Dimorphism in a Beetle.
*D.J. Emlen

5:30 221 The Molecular Systematics of Stalk-Eyed Flies (Diopsidae): A Phylogenetic Analysis of Sexual Dimorphism and Eye Stalk Evolution.
*R.H. Baker, G.S. Wilkinson

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Room IRC 1
Sunday, June 21

4:30-6:00 **SESSION 35: CONSERVATION GENETICS - PLANTS**
Chair: Lyn Loveless

4:30 223 Are Islands Islands? Genetic Structure of *Catasetum viridiflavum*.
*C.J. Murren, C.D. Schlichting

4:45 224 Effects of Timber Extraction on the Genetics of Mahogany (*Swietenia macrophylla*) in Bolivia.
*M.D. Loveless, R.E. Gullison

5:00 225 Interpreting Patterns of Genetic Diversity in the Endangered Dwarf Milkweed, *Asclepias uncialis*, and Related Taxa.
*J.P. Therrien, K.D. James, J.H. Locklear

5:15 226 Genetic Variation in the Rare *Lomatium* (Apiaceae) Species *L. bradshawii* and *L. ochocense* as Determined from AFLP Markers.

*M.A. Gitzendanner, P.S. Soltis

5:30 227 Deleterious Mutation Accumulation in Collections of Selfing and Outcrossing Plants.
*D.J. Schoen

5:45 228 Patterns of Endangerment among Lineages in the Hawaiian Flora.
*A.K. Sakai, W.L. Wagner, L.A. Mehrhoff

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Room IRC 6
Sunday, June 21

4:30-6:00 **SESSION 36: MOLECULAR EVOLUTION**
Chair: Laura Landweber

4:30 229 Detecting Non-Neutral Evolution of Proteins Using Sequences from Thermophilic and Mesophilic Prokaryotes.
*J.H. McDonald

4:45 230 Rhyme Or Reason in RNA Evolution.
*L.F. Landweber

5:00 231 Evolution of DNA Repair Proteins and Processes: Analysis of Complete Genomes.
*J.A. Eisen, P.C. Hanawalt

5:15 232 Analyzing Molecular Sequences When the Rate of Evolution Evolves.
*J.L. Thorne, H. Kishino

5:30 233 Horizontal Gene Transfer: Pitfalls and Promises.
*J.P. Gogarten, L. Olendzenski, R.D. Murphey

5:45 234 Ancient DNA in Greenlandic Icecores.
*A.J. Hansen E. Willerslev, P. Arctander, B. Christensen

MONDAY, JUNE 22

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Room IRC 2
8:30 – 12:00 Monday, June 22
SYMPOSIUM 4: THE FUTURE OF RECONSTRUCTING THE PAST: ASYMMETRIC TRANSFORMATION PROBABILITIES AND ANCESTRAL CHARACTER STATE RECONSTRUCTION.
SOCIETY OF SYSTEMATIC BIOLOGISTS
Organizers: Cliff Cunningham, Kevin Omland

8:30 235 Examining the Reliability and Assumptions of Ancestral State Reconstructions: The Repeated Loss of Dimorphism in Birds.
*Kevin Omland

9:00 236 Estimating Ecological Transformations using Maximum Likelihood
*Dolph Schluter and Arne Mooers

9:30 237 Asymmetric Transformation Probabilities and the Evolution of Flower Symmetry.
*Rick Ree and Michael Donoghue

10:00 – 10:30 Break

10:30 238 The Role of Subjectivity in Reconstructing Ancestral Character States: A Bayesian Approach to Unknown Rates, States and Transformation Asymmetries.
*Ted Schultz and Gary Churchill

11:00 239 Testing Evolutionary Hypotheses with Ancestral Character State Reconstructions: The Future of Reconstructing the Past.

*Cliff Cunningham and Todd Oakley

11:30 240 Panel discussion

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Room IRC 5
Monday, June 22

8:15-10:00 **SESSION 37: ADAPTATION - BEHAVIOUR**
Chair: Thomas Getty

8:15 241 Phylogenetic Analysis of a Complex Courtship Display in *Pipra* (Aves: Pipridae) Lends Insight into the Evolution of Mechanical Sounds in *Machaeropterus deliciosus*.
*K.S. Bostwick

8:30 242 The Value of Ethology for Addressing Evolutionary Questions.
*A.E. Stuart, D.C. Currie

8:45 243 Why the Handicap Principle of Signaling Is Superfluous.
*T. Getty

9:00 244 Cannibalism as an Exaptation for Colonization in a Ladybird Beetle.
*W.E. Snyder, S.B. Joseph, R.F. Preziosi, A.J. Moore

9:15 245 Effect of Brood Size on Parental Care Behavior in the Burying Beetle *Nicrophorus orbicollis* (Coleoptera: Silphidae).
*C.M. Rauter, A.J. Moore

9:30 246 Behavioral Specialisation in Nest-Weaving Ants (*Polyrhachis*).
*S.K. Robson

9:45 247 Individual Variation in Chemical Defense in the Northwestern Garter Snake.
*C.E. Allen

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Room Henn 202
Monday, June 22

8:15-10:00 **SESSION 38: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - PLANTS**
Chair: Maria Clauss

8:15 248 Performance of a Gall-Forming Insect on Host Plant Genotypes within and among Terrestrial Islands in the Southwest.
*D.A. Downie

8:30 249 Bet-Hedging and Environmental Gradients: Delayed Seed Germination in Desert Annual Plants Revisited.
*M.J. Clauss, D.L. Venable

8:45 250 Clinal Variation in Morphology and Physiology of the Annual Legume, *Chamaecrista fasciculata*: Greenhouse Drought Studies.
*J.R. Etterson, T.D. Lee

9:00 251 Genetic Relationships among Distinct Geographic Populations of a Large Red Alga *Grateloupia doryphora*.
*M.F. Marston, M. Villalard-Bohnsack

9:15 252 Cancelled

9:30 253 An Allozyme Study of Allopatric Speciation in *Pinus balfouriana*.
*D.K. Oline

9:45 254 New and Improved Phylogeny of the *Asteriscus* Alliance: Evidence from the External Transcribed Spacer of the nrDNA.

*L.R. Goertzen, J. Francisco-Ortega, A. Santos-Guerra, C.R. Linder, R.K. Jansen

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Room Henn 200
Monday, June 22

8:15-10:00 **SESSION 39: SELECTION EXPERIMENTS - *DROSOPHILA***
Chair: Stephen Stearns

8:15 255 Experimental Life History Evolution in *Drosophila.*
*S.C. Stearns

8:30 256 Immunological Trade-Offs in *Drosophila melanogaster*: Preliminary Results.
*K.A. McKean, L. Nunney

8:45 257 Evolution of Tolerance to Nitrogenous Waste in *Drosophila melanogaster.*
*D.J. Borash, L.D. Mueller

9:00 258 Reverse Experimental Evolution in *Drosophila melanogaster.*
*H.K. Brar, M.R. Rose

9:15 259 Convergence in the Laboratory Evolution of *Drosophila melanogaster.*
*H. Teotonio, M.R. Rose

9:30 260 Trade-Offs in the Evolution of Host Defence to Parasitoid Attack.
*M.D.E. Fellowes, A.R. Kraaijeveld, H.C.J. Godfray

9:45 261 Stress Resistance in Four Species of *Drosophila* Selected for Postponed Aging.
*D.J. Deckert Cruz, J.L. Graves, Jr., M.R. Rose

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Room IRC 3
Monday, June 22

8:15-10:00 **SESSION 40: PLANT POLLINATION/ REPRODUCTION**
Chair: Jeffrey Karron

8:15 262 Size-Dependent Gender Modification in *Trillium* (Liliaceae).
*S.I. Wright, S.C.H. Barrett

8:30 263 Pollination Biology of Monomorphic and Dimorphic Populations of *Wurmbea dioica* (Colchicaceae).
*A.L. Case, S.C.H. Barrett

8:45 264 General Mechanisms of Pollen Discounting and their Implication for Mating-System Evolution.
*L.D. Harder, W.G. Wilson

9:00 265 Wind Pollination, Reproductive Assurance and Mating System Evolution in *Linanthus* (Polemoniaceae).
*C. Goodwillie

9:15 266 Factors Influencing Outcrossing Rates and Patterns of Paternity in Monkeyflower, *Mimulus ringens.*
*J.D. Karron

9:30 267 Morph-Specific Pollinator Limitation of Fruit Set in the Gynodioecious Plant, *Lobelia siphilitica.*
*D.A. Dudle

9:45 268 Does Wind Pollination Precede Or Follow the Evolution of Sexual Dimorphism?
*S.G. Weller, A.K. Sakai, A.E. Rankin, A. Golonka, B. Kutcher, K.E. Ashby

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Room IRC 6
Monday, June 22

8:15-10:00 **SESSION 41: ADAPTATION**
Chair: John Endler

8:15 269 The Genetics of Adaptation: *Drosophila sechellia*'s Adaptation to its Host.
*C.D. Jones

8:30 270 On the Convergent Evolution of Molluscivory in Teleosts: The Perspective from Muscle Physiology.
*J.R. Grubich

8:45 271 Ambient Light, Signalling, and Microhabitat Choice.
*J.A. Endler

9:00 272 Dynamic Geographic Structure and Gene Flow in a Wild Leafminer Metapopulation.
*S. Mopper

9:15 273 A Meta-Analysis of Local Adaptation of Phytophagous Insects to their Host Plants.
*P.A. Van Zandt, S. Mopper

9:30 274 Testing Hypotheses of Local Adaptation in *Arabis fecunda*, a Rare Plant.
*J.K. McKay, J. Lin, T. Mitchell-Olds

9:45 275 Lungs on Legs: Evolutionary History and Adaptive Significance of Secondary Respiratory Structures for Intertidal Crabs.
*J.H. Stillman

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Room Henn 201
Monday, June 22

8:15-10:00 **SESSION 42: COEVOLUTION - HOST/PATHOGEN INTERACTIONS**
Chair: Judith Myers

8:15 276 Testing the Disease Resistance and Reduced Virulence Hypotheses in Cyclic Populations of Tent Caterpillars.
*J.H. Myers

8:30 277 Susceptibility of *Pinus contorta - banksiana* Complex to *Endocronarium harknessii*: Host - Pathogen Interactions and Geographic Variation.
*R.-C. Yang, Z. Ye

8:45 278 The Effect of a Pathogenic Fungus on Seed Weight and Seedling Growth of an Understory Tree.
*M. Heuhsen, H. Wilbur, M. Hood

9:00 279 Pathogen Succession on Seedlings of *Anacardium excelsum*: Implications for Density-Dependent Regulation of Tropical Tree Diversity.
*J.M. Davidson, S.A. Rehner, M. Santana, E. Lasso, E.A. Herre

9:15 280 Disease and Competitive Abilities of Host Genotypes.
*J. Brunet, C. Mundt

9:30 281 Virulence and the Mode of Transmission in a Plant Virus.
*S.E. Kelley

9:45 282 Spatial Patterns of Disease Resistance in a Population of *Phlox paniculata*: Host Relatedness Is Not the Answer.
*P. McElhany, L.A. Real

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Room Hebb Th
Monday, June 22

8:30-10:00 **SESSION 43: EVOLUTION AND GENETICS OF MICROORGANISMS**

Chair: Alistair Cullum

8:30 283 Relative Fitness of Generalist and Specialist Lines of *E. coli* in Thermally Variable Environments.
*A.J. Cullum, A.F. Bennett, R.E. Lenski

8:45 284 Patterns of Compensation for Deleterious Mutations in *E. coli*.
*F. Moore, D. Rozen, R.E. Lenski.

9:00 285 Evolution of *E. coli* Under Extreme Thermal Conditions.
*D.C. Scholl-Meeker, M.E. White

9:15 287 Genome Evolution Through Interaction between Selfish Restriction Modification Genes and their Host.
*Y. Nakayama, N. Handa, I. Kobayashi

9:30 288 Bacterial Homologous Recombination in Conflict and Collaboration with Selfish Genetic Elements.
N. Handa, A. Ichige, K. Kusano, *I. Kobayashi

9:45 289 Experimental Drift: Mutation Accumulation in Small Populations of *Saccharomyces cerevisiae*.
*C. Zeyl, A. DeVisser

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Room IRC 4
Monday, June 22

8:15-10:00 **SESSION 44: MOLECULAR EVOLUTION/POPULATION GENETICS**
Chair: Gilean McVean

8:15 290 Patterns of Evolutionary Rate Variation among Genes of the Anthocyanin Biosynthetic Pathway.
*M.D. Rausher, R.E. Miller, P. Tiffin

8:30 291 Evolution of 'Trans-Specific' Hypervariable Motifs in the Major Histocompatibility Complex.
*S.K. McWeeney

8:45 292 Understanding the Overdispersed Molecular Clock.
*D.J. Cutler

9:00 293 A Coalescent Approach to Detecting Recombination.
*M.K. Kuhner, J.A. Yamato, J. Felsenstein

9:15 294 Interference between Weakly Selected Sites.
*G.T. McVean, B. Charlesworth

9:30 295 Coalescent Theory for a Partially Selfing Population.
*Y.-X. Fu

9:45 296 Explaining Rate Variation in Proteins with Known Tertiary Structure.
*B. Golding, A. Dean

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Room IRC 1
Monday, June 22

8:15-10:00 **SESSION 45: MOLECULAR EVOLUTION**
Chair: Susan Cropp

8:15 297 Allelic Variation in the X-Linked Color Vision Gene of Squirrel Monkeys.
*S. Cropp

8:30 298 Evolutionary Mechanisms Regulating Stress-Mediated Ldh-B Gene Expression between Populations of the Teleost, *Fundulus heteroclitus*.
*H.C. Glemet, P.M. Schulte, D.A. Powers

8:45 299 Molecular Evolution and Tissue-Specific Expression of Anthocyanin Genes in *Ipomoea purpurea* (Common Morning Glory).
*B.C. McCaig, M.L. Durbin, M.T. Clegg

9:00 300 Evolutionary Patterns of Primate Male Reproduction Associated Genes.
*G.J. Wyckoff, C. Wu

9:15 301 Timing the Divergence of Cichlid Major Groups.
*J.T. Streelman, S.A. Karl

9:30 302 Meiotic Drive of Knobs Reshaped the Maize Genome.
*E.S. Buckler, T.L. Phelps, C.S.K. Buckler, J.F. Doebley, T.P. Holtsford

9:45 303 Molecular Evolution of the Structural Gene Family, Chalcone Synthase, in the Grasses.
*V.M. Oberholzer, M.T. Clegg

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Room IRC 6
Monday, June 22

10:30-12:00 **SESSION 46: MOLECULAR EVOLUTION/POPULATION GENETICS**
Chair: Giacomo Bernardi

10:30 304 Concerted Evolution of MHC Class II Genes Revealed by Sequencing of a Red-Winged Blackbird Cosmid Clone.
*S.V. Edwards, J. Gasper, D. Martindale, B. Koop

10:45 305 Rates of Molecular Evolution in Mammalian mtDNA.
*D.M. Weinreich

11:00 306 Estimating within-Host Migration of HIV-1.
*G.H. Learn, A.G. Rodrigo, J.I. Mullins

11:15 307 Human Demographic History Inferred from Nuclear Genetic Haplotype Data.
*S.A. Tishkoff, A.G. Clark

11:30 308 Oceanographic and Ecological Barriers to Gene Flow in Black Surfperch Populations Along the California Coast.
*G. Bernardi

11:45 309 Evolution and Maintenance of XY Females in Sigmodontine Rodents.
*H.E. Hoekstra, S.V. Edwards

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Room Henn 202
Monday, June 22

10:30-11:45 **SESSION 47: PHYLOGEOGRAPHY/GEOGRAPHIC VARIATION**
Chair: Steven Carr

10:30 310 Maximum Likelihood Estimates and Profile Likelihood of Migration Rates and Population Sizes in Systems with N Subpopulations.
*P. Beerli

10:45 312 Molecular Systematics of Gadid Fishes: The Origins of Pacific Basin Species.
*S.M. Carr, D.S. Kivlichan, P. Pepin, D.C. Crutcher

11:00 313 Tracking Marine Invasions of Freshwater: Systematics and Biogeography of Needlefishes (Belonidae).
*N.R. Lovejoy

11:15 314 Molecular Systematics and Biogeography of the Crotalinae (Serpentes:Viperidae).
*C.L. Parkinson

11:30 315 Cancelled

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Room IRC 4
Monday, June 22

10:30-12:00 **SESSION 48: COMBINED-DATA SYSTEMATICS**
Chair: Richard Strauss

10:30 316 Phylogeny of Neotropical Monkeys: The Interplay of Morphological, Molecular and Parasitological Data..
*J.-P. Hugot

10:45 317 The Statistical Significance of Bootstrap Support Frequencies for Nodes on Phylogenetic Trees.
*R.E. Strauss, W.S. AlGharaibeh

11:00 318 The Problem of Determining a Rooting for Bilateria with 18S rRNA Sequences.
*D.J. Eernisse

11:15 319 Using Branch Flexibility to Detect Uncertainties in Phylogenies.
*M.T. Holder

11:30 320 New Tools from the Chloroplast Genome for Inferring the Phylogeny of the Basal Angiosperms.
*S.W. Graham, R.G. Olmstead

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Room IRC 1
Monday, June 22

10:30-12:00 **SESSION 49: MATING (BREEDING) SYSTEMS – INSECTS AND FUNGI**
Chair: Else Fjerdingstad

10:30 321 Phenotypes and Fitness of Males and Queens in the Multiply-Mating Ant *Lasius niger* - Individual and Colony Level Effects.
*E.J. Fjerdingstad, L. Keller

10:45 322 Sex Ratio Evolution in Wood Ants: The Impact of Kinship and Ecological Factors.
*W.D. Brown, L. Keller

11:00 323 The Evolution of Genetic Relatedness and Inbreeding Levels in Eusocial Thrips: A Phylogenetic Perspective.
*T.W. Chapman, B.J. Crespi

11:15 324 Geographic Variation in Epicuticular Hydrocarbons in *Drosophila mojavensis*.
M.A. Ahrens, *W.J. Etges

11:30 325 Female Adaptations for Control in Mating.
*A. Ortigosa, L. Rowe

11:45 326 A Molecular Phylogenetic Analysis of Breeding Strategies in *Cochliobolus* (Ascomycota, Fungi).
*M.L. Berbee, S. Yun, O.C. Yoder, B.G. Turgeon

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Room IRC 3
Monday, June 22

10:30-12:00 **SESSION 50: SELF-INCOMPATIBILITY**
Chair: Joshua Kohn

10:30 327 Self-Incompatibility Alleles in *Lycium* (Solanaceae).
*J.R. Kohn, A.D. Richman

10:45 328 Self-Incompatibility in Distylous *Turnera spp.*
*A. Athanasiou, J.S. Shore

11:00 329 Population Genetics of Self-Incompatibility in *Witheringia*.

*A.D. Richman

11:15 330 Evolutionary Relationships of Self-Incompatibility-Related Proteins.
*J.E. Steinbachs, K.E. Holsinger

11:30 331 Linkage Disequilibrium at Self-Incompatibility Loci: Recombination and Selection at *Brassica* Sl Alleles.
*P. Awadalla, D. Charlesworth

11:45 332 Selfing and the Self-Incompatibility System of the Fungus *Cryphonectria parasitica.*
*R.E. Marra, M.G. Milgroom

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Room Henn 201
Monday, June 22

10:30-12:00 **SESSION 51: COEVOLUTION/SPECIES INTERACTIONS - MULTIPLE SPECIES**
Chair: Peter Abrams

10:30 333 Adaptation of Larval Anurans to Different Community Types.
*J.M.L. Richardson

10:45 334 Nematodes Stage the Encounter: Amphipod Prey and Migrating Sandpipers.
D.G. McCurdy, *M.R. Forbes, S.J. Boates

11:00 335 Centrifugal Community Organization: A Modeling Analysis of Density-Dependent Habitat Selection between Interspecific Competitors.
*C.G. Guthrie, D.L. Moorhead

11:15 336 Centrifugal Community Organization: Quantifying Fitness for Two Competing Species.
*D.L. Moorhead, C.G. Guthrie

11:30 337 Consequences of the Dynamics of Prey Choice by Predators.
*P.A. Abrams

11:45 338 An Evolutionary Explanation of Energy Equivalence in Animal Size-Abundance Relationships.
*J.D. Damuth

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Room Hebb Th
Monday, June 22

10:30-12:00 **SESSION 52: EVOLUTION AND GENETICS OF MICROORGANISMS**
Chair: Rosemary Redfield

10:30 339 An Experimental Examination of the Role of Ecological Opportunity in Adaptive Radiation.
*M. Travisano, P.B. Rainey

10:45 340 Consequences of Evolutionary Specialization in Long-Term Evolving Populations of *Escherichia coli.*
*V.S. Cooper, R.E. Lenski

11:00 341 Conservation Genetics of *Escherichia coli.*
*J. Blanchard, I. Williams, N. Afzali, M. Lynch

11:15 342 Evolution of Ecological Polymorphism in a Long-Term Evolving Population of *E. coli.*
*D.E. Rozen, D. Schneider, M. Blot, R.E. Lenski

11:30 343 Evolution by Accident: The Causes of Genetic Variation in Bacteria.
*R.J. Redfield

11:45 344 Does Periodic Selection in Bacteria Make Physiology Recapitulate Phylogeny? A Phenotypic Characterization of the *Bacillus subtilis* Species Complex.
*M. Feldgarden, F.M. Cohan

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Room IRC 5
Monday, June 22

10:30-12:00 **SESSION 53: MECHANISMS OF POST-MATING REPRODUCTIVE ISOLATION**
Chair: Hope Hollocher

10:30 345 Developmental Analysis of Female Hybrid Sterility Rescue in Crosses between *Drosophila simulans* and *Drosophila melanogaster.*
*H. Hollocher, K. Agopian

10:45 346 Reproductive Isolation and Sperm-Egg Incompatibility.
*T.L. Karr, S. Pitnick

11:00 347 Evidence for Coadapted Gene Complexes in the Marine Copepod *Tigriopus.*
*R.S. Burton

11:15 348 Sexual Selection against F_1 Sticklebacks: Cold Showers for Young Hybrids.
*S.M. Vamosi, D. Schluter

11:30 349 The Evolution of Reproductive Isolation among Spatially Distributed Populations.
*S.A. Church, D.R. Taylor

11:45 350 Haldane's Rule is Obeyed in Taxa Lacking a Hemizygous X.
*D.C. Presgraves, H. Orr

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Room IRC 4
Monday, June 22

10:30-12:00 **SESSION 54: MOLECULAR SYSTEMATICS - ANIMALS**
Chair: Joe Staton

10:30 351 Misled by Mitochondria?
*T.W. Taggart, B.I. Crother

10:45 352 Geographic Pattern of mtDNA in a Contact Zone between Two Subspecies of the Salamander *Ensatina eschscholzii.*
*D.S. Parks

11:00 353 Phylogenetic Analysis of the Genus *Hemiergis* (Squamata: Scincidae) Based upon mtDNA Data.
*J.D. Reichert, T.W. Reeder

11:15 354 Comparison of Codon-Position Dependent and Codon-Position Independent Substitution Models in Maximum Likelihood Phylogeny Estimation: An Example from Closely-Related Species of the Genus *Pimephales.*
*J.P. Bielawski, J.R. Gol

11:30 355 Molecular Phylogeny of the Phylum Sipuncula Using Cytochrome Oxidase Subunit I.
*J.L. Staton

11:45 356 Cytochrome b as a Comparative Molecular Yardstick for Vertebrate Taxa.
*G.C. Johns, J.C. Avise

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Room: Chan Centre
Monday, June 22

1:30 – 2:30 **PRESIDENTIAL ADDRESS**
SOCIETY OF SYSTEMATIC BIOLOGISTS
Paula Mabee
*****CANCELLED*****

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Room: IRC 2

2:45 – 6:00 Monday, June 22

SYMPOSIUM 5*: CHARACTER EVALUATION AND PHYLOGENETIC ANALYSIS

SOCIETY OF SYSTEMATIC BIOLOGISTS

Organizer: Mia Molvray

2:45 843 Good Characters, Bad Characters, Neutral Space and Stationarity in Molecular Data.
*Gavin Naylor

3:15 844 The Genetic Complexity of Morphological Characters: Implications for Systematics and Studies of Adaptation.
*David Baum

3:45 845 Should Molecular Characters be Evaluated Individually or as Classes?
*Dick Olmstead

4:15 – 4:30 Break

4:30 846 Observations on Morphological and Molecular Characters in Phylogenetic Analysis.
*Michael Donoghue

5:00 847 Floral Characters in Orchidaceae: Deceiving both Pollinators and Taxonomists.
*Mia Molvray

5:30 848 Phylogenetic Spectra and Character Analysis.
*Mike Charleston

*Note: This symposium was originally scheduled Wednesday morning.

##

Room: IRC 3

Monday, June 22

2:45 – 5:00 **SPECIAL SESSION*: EDUCATIONAL ISSUES IN EVOLUTIONARY BIOLOGY**

Chair: Peter Wimberger

2:45 919 Professional Societies and Education in Evolutionary Biology.
*I.A. Eckstrand

3:00 920 Rationales of College Freshmen for Rejecting Evolution.
*B.J. Alters

3:15 921 Lab Exercises in Evolutionary Biology: Building Through the Undergrad Curriculum.
*J.M. Brown

3:30 922 Introduction to the Molecular Clock.
*R.E. Dean

3:45 923 Seventh Graders Debate What Is Deforming the Frogs of Minnesota: A Model for Using the Internet to Build Collaborations between Research Biologists and Middle School Teachers.
*J.L. Froehlig, D. Parks

4:00 924 Authentic Research on Salmon Population Genetics in High School and College Classrooms.
*P.H. Wimberger

4:15 – 4:30 Break

4:30 925 Evolutionary Constraints and the Origins of Higher Taxa: Artificial Selection on Stamen Dimorphism in a Mustard.
*K. Karoly

4:45 926 Evolution Classes at the College Level and High Schools.

*W.B. Provine

*Note: This special session was originally scheduled Wednesday morning.

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Room: Sub-Ballroom
Monday, June 22

2:45 – 6:00 **POSTER SESSION**
Authors will be present at their posters.
Posters remain up until Wednesday morning.

357 The Evolutionary Response of *E. coli* Membranes to Novel Thermal Environments.
*J.K. Larabee, A.G. Gibbs

358 Independent Origins of Hawaiian Cave-Dwelling Isopods.
*M.J. Rivera, G.K. Roderick, S. Taiti, F.G. Howarth

359 Cross-Generational Acclimation Effects on Fitness in *Drosophila melanogaster.*
*G.W. Gilchrist, S. Bennett

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564 Phylogenetic Utility of 28 S Ribosomal DNA in *Drosophila*.
*G. Spicer, C.D. Bell, K.R. Peterson

565 The Use of Mitochondrial and Nuclear Genes to Investigate Phylogenetical Relationships in the *repleta* Radiation (Genus *Drosophila*).
*R.A. de Brito, M.H. Manfrin

566 Family Level mtDNA Sequence Comparisons of Diptera (Flies): Problems and Prospects for Phylogenetic Reconstruction.
*A.T. Beckenbach, T. Laberge

567 Morphological and Molecular Systematics of the Hawaiian Damselfly Genus *Megalogrion*: Implications for Conservation.
*S. Jordan, D.A. Polhemus, C. Simon

568 Convergence vs. Phylogeny in the Systematics of Trigonalid Wasps.
*D.A. Carmean

569 How Heterogeneous are ITS 1 and ITS 2 within Individuals?
*D.J. Harris, K.A. Crandall

570 Mitochondrial Gene Order and Arthropod Phylogeny.
*D.V. Lavrov, J.L. Boore, W.M. Brown

571 Molecular Phylogeny of the Lithodidae (Anomura; Crustacea).
*S.D. Zaklan, C.W. Cunningham

572 The Mitochondrial Genome of the Brachiopod *Terebratalia transversa*.
*K.G. Helfenbein, J.L. Boore, W.M. Brown

573 An Unusual Piscine Phylogeny.
*A.-S.G. Rasmussen, A. Janke, U. Arnason

574 Genetic Relationship between Masu and Amago Salmon Examined Through Sequence Analysis of Nuclear and Mitochondrial DNA.
*S.J. McKay, I. Nakayama, M.J. Smith, R.H. Devlin

575 Locus Specific Intron Primers in Actinopterygian Fishes: Intraspecific and Interspecific Utility.
*W.J. Jones, J.M. Quattro

576 Cancelled

577 Phylogenetic Analysis of Lake Malawi Cichlid Fishes Using AFLPs.
*C. Albertson, T.D. Kocher

578 Phylogenetic Analysis of Ribosomal ITS1 Sequences Supports Three Subgroups of Dolly Varden Char (*Salvelinus malma*).
*R.B. Phillips, L.I. Gudex, K.M. Westrich, F. DeCicco

579 Can Mitochodrial Sequence Data Resolve Higher Level Relationships within the Galliformes?
*E.L. Braun, R.T. Kimball

580 Craciformes are More Closely Related to Anseriformes Than to Galliformes as Suggested by mt DNA Sequence Analysis.
*s.L. Pereira, A. Wajntal

581 A mtDNA Phylogeny of the Genus *Dipodomys*.
*D.B. Pires, G.S. Spicer

582 Megachiropteran Intergeneric Relationships Based on Mitochondrial rRNA Gene Sequences.
M.L. Romagnoli, D.J. Kao, *M.S. Springer

583 Molecular Phylogeny of the Genus *Reithrodontomys* (Rodentia: Muridae).
*E. Arellano, D.S. Rogers

584 Molecular Systematics of North American Hares (*Lepus*): Evidence from Cytochrome B and 16S Genes.
*F.X. Gonzalez, D.S. Rogers, F.A. Cervantes

585 Systematics of the Endemic Red-Backed Vole of Southeast Alaska.
*A.M. Runck, J.A. Cook

586 Molecular Epidemiology of Hantavirus in Taiwan Based on Phylogenetic Analysis.
*T.-H. Yang, C. Chin, C. Shen, T.-M. Wang

587 Molecular Phylogenies and the Evolution of Dinoflagellate-Invertebrate Symbioses.
*T.P. Wilcox

588 Phylogeny of Retroviridae Using Whole Genomes and Partitions.
*D. Posada, K.A. Crandall

589 The Evolutionary History of Frogs and their Lung Flukes Told by DNA.
*V. Leon-Regagnon, D.R. Brooks, G. Perez-Ponce de Leon

590 Does the T-PTP Test Tell Us Anything We Want to Know?
*J. Harshman

591 Gene-Based and Structure-Based Partitions: Maximum Likelihood Analyses of Mammal Mitochondrial DNA Data.
*R.W. DeBry

592 Quantifying Sources of Error in AFLP.
*N.J. Garnhart, T.D. Kocher

593 The Utility of Opsin Genes in Molecular Systematics: Resolving Issues of Base Composition and Codon Bias.
*B.S. Chang, D.L. Campbell

594 Use of Incremental Bootstrapping to Investigate Sampling Properties of Protein Coding Sequences from Closely-Related Members of the Subgenus *Notropis*.
*J.P. Bielawski, J.R. Gold

595 Molecular Phylogeny of Emberizinae Subfamily Based on Mitochondrial Cytochrome B.
*A. Grapputo, A. Pilastro, G. Marin

596 Molecular Systematics of Lower Central American Hyphessobrycon: A Test of Bussing's Model.
*G. Ybazeta, E. Bermingham

597 Are Skunks Mustelids?
*J.W. Hsu, M.A. Nedbal, J.J. Flynn

598 Building Phylogenetic Trees Based on Minimizing Inconsistencies among the Trees for Quartets of Taxa.
*S.J. Willson

599 Disparity and the Cambrian Radiation.
*L.H. Smith, B.S. Lieberman

600 Relationships among Haplotypes of Barley Yellow Dwarf Virus: Do Clades Share Host Species or Localities?
*S.K. Remold

601 Testing Hypotheses of Coevolution and Biogeography among the Marine Fish *Kyphosus* and its Digenean Fauna.
*G. Perez-Ponce de Leon, V. Leon Regagnon, D.R. Brooks

602 The Systematics and Floral Host Relationships of the *Andrena krigiana* Group. (Hymenoptera: Andrenidae: Callandrena)
*L.L. Larkin, J.L. Neff, B.B. Simpson

603 Hybrid Speciation in *Encelia virginensis* (Asteraceae): Evidence from Multiple ITS. Chimeras.
*C. Clark, R. Pant, G.J. Allan

604 Rapid Sequence Divergence in Sex-Related Genes. Are Sexual Traits the Main Target of Change During Speciation?
*A. Civetta, R.S. Singh

605 Host Plant - Associated Genetic Differentiation in a Polyphygous Grasshopper, *Schistocerca emarginata*.
*E.B. Dopman, G.A. Sword

606 Recent Explosive Speciation of Enallagma Damselflies: Effects on Species Diversity in 2 Habitats.
*J.M. Brown, M.A. McPeek

607 Unexpected Distribution of mtDNA Variation in a European Bushcricket (Katydid).
*J.M. Gleason, M.G. Ritchie

608 Hawaiian Flower Spiders: Molecular Phylogenetics of a Newly Discovered Radiation.
*J.E. Garb, R.G. Gillespie, G.K. Roderick

609 How Many Ways to Make a Spider? Convergent Ecomorphs in the Hawaiian Tetragnatha Radiation.
*R.G. Gillespie

610 Does Divergence in Allorecognition Behavior Drive Speciation in a Family of Colonial Marine Invertebrates?
*S. Cohen

611 Patterns of Speciation in Frogs.
*M.M. Sasa, P.T. Chippindale N.A. Johnson

612 Cancelled

613 The Role of Sex Determining Mechanisms in Sympatric Speciation.
*D.E.L. Promislow, D. Hoyt

614 Evolution by Natural Selection in 13 Weeks or Less.
*M.W. Salata

615 The Evolution of Evolutionary Thinking in Undergraduate and Graduate Students Under the Selective Pressures of UC Berkeley.
*M. Marlowe, J.L. Froehlig

616 The U.S. National Committee for the International Union of the Biological Sciences: A Mechanism for Connection of U.S. Scientists with International Researchers.
*T.M. Bert, B. Chernoff

TUESDAY, JUNE 23

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Room IRC 2
Tuesday, June 23

8:30 – 12:00 **SYMPOSIUM 6: SIMULATED EVOLUTION AND THE ORIGIN OF LIFE.**
SOCIETY FOR THE STUDY OF EVOLUTION
Organizer: Niles Lehman

8:30 617 Evolution in a Test Tube: Irrational Design, Mimicking Organismal Evolution, and Testing Teleology.
*Niles E. Lehman

9:00 618 Probing the Structural and Catalytic Repertoire of RNA and DNA.
*Ronald Breaker

9:30 619 Knight Moves: In vitro Evolution and a DNA Computer.
*Laura Landweber

10:00 – 10:30 Break

10:30 620 RNA Catalysis in Chemical Evolution.
*Bruce Eaton

11:00 621 The Limits of Nucleic Acid Catalysis.
*Dipankar Sen

11:30 622 The Translation Repertoire in Early Evolving Systems.
*Margaret Saks

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Room IRC 3
Tuesday, June 23

8:15-10:00 **SESSION 55: COEVOLUTION/SPECIES INTERACTIONS – PARASITES, PARASITOIDS**
Chair: Paul Schmid-Hempel

8:15 623 Coevolution and Variability in Social Insects and their Parasites.
*P. Schmid-Hempel

8:30 624 Geographic Structure of Parasitoid-Host Interactions: Patterns of Population Structure for Two Parasitoid Species and their Hosts.
*D.M. Althoff, J.N. Thompson

8:45 625 Parasitoid Decisions on Novel and Familiar Hosts.
*H.R. Koepfer, P.C. Chabora

9:00 626 Parasitic Infection in *Daphnia*: Genes Versus Ecology.

*T.J. Little

9:15 627 Local Adaptation and Genetic Variation in *Daphnia*-Parasite Interactions.
*H. Carius

9:30 628 Parasite Virulence and Host Stress.
*J. Jokela

9:45 629 Mechanisms of Parasite Local Adaptation: Infectibility and Developmental Rate in a Line-Cross Experiment.
*M.F. Dybdahl, C.M. Lively

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Room IRC 4
Tuesday, June 23

8:15-10:00 **SESSION 56: HYBRID ZONES**
Chair: Theresa Bert

8:15 630 Evolutionary Trends and Recombinational Speciation in a Sunflower Hybrid Zone.
*S.E. Carney, L.H. Rieseberg

8:30 631 Survival of Parental and Hybrid Offspring Across an *Ipomopsis* Hybrid Zone.
*D.R. Campbell, N.M. Waser

8:45 632 Floral Isolation Across an *Aquilegia formosa/A. pubescens* Hybrid Zone.
*M. Fulton, S. Hodges

9:00 633 Components of Reproduction in a Stone Crab (Genus *Menippe*) Hybrid Zone: Searching for Evidence of Reduced Hybrid Fitness.
*T.M. Bert, S. Geiger, K. McCarthy

9:15 634 Population Dynamics of a Hybrid Zone Accompanying the Invasion of the Rusty Crayfish in Northern Wisconsin.
*W.L. Perry, J.L. Feder, D.M. Lodge

9:30 635 Can Local Climate Patterns Influence the Structure of a Field Cricket Mosaic Hybrid Zone?
*C.L. Ross

9:45 636 Genetic Structure in a Hybrid Zone between Chromosomal Races of House Mice: Evidence from Microsatellite DNA.
*C.J. Hanus, M.W. Nachman

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Room Henn 201
Tuesday, June 23

8:15-10:00 **SESSION 57: PHYLOGENY-BASED COMPARATIVE ANALYSES**
Chair: Trevor Price

8:15 637 Multiple Origins of Nonplanktotrophic Species in the Marine Gastropod Genus *Conus*.
*T.F. Duda, S.R. Palumbi

8:30 638 Phylogeny of the Agriotypinae (Hymenoptera: Ichneumonidae) with a Discussion of the Evolution of Aquatic Parasitism in Hymenoptera.
*A.M. Bennett

8:45 639 Cancelled

9:00 640 Phylogeny of African Lipotyphlans Based on Morphological and Protein Sequence Data.
*R.J. Asher

9:15 641 Phylogenetic Systematics, Size Evolution, and the Evolution of Gliding Performance in Flying Lizards (Genus *Draco*).

*J.A. McGuire

9:30 642 A Phylogenetic Analysis of the Evolution of Sexually Dimorphic Coloration in the Yarrow's Spiny Lizard (*Sceloporus jarrovii* Complex).
*J.J. Wiens, T.W. Reeder, A. Nieto Montes de Oca

9:45 643 Adaptive Radiations of Warblers on Two Continents.
*T.D. Price, H.L. Gibbs, A.D. Richman

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Room Henn 202
Tuesday, June 23

8:15-10:00 **SESSION 58: SPECIATION AND CLADOGENESIS**
Chair: Craig Moritz

8:15 644 Differential Rates of Speciation in Two Species of Jumping Spiders: A Genealogical Comparison.
*S. Masta

8:30 645 Speciation and Historical Biogeography of Tropical Rainforest Invertebrates.
*C. Moritz, A. Hugall, B. Rusell, J. Ovenden

8:45 646 Divergence in a Sea Urchin Gamete Recognition Protein Parallels Reproductive Isolation and Not Genomic Divergence Across the Isthmus of Panama.
*M.A. McCartney, H.A. Lessios

9:00 647 Sympatric Sister Species and Rapid Sperm Protein Divergence in *Tegula* Snails.
*M.E. Hellberg

9:15 648 Frozen Phenotype, Explosive Diversification: The Case of *Hyalella* in Inland Waters.
*J.D. Witt, P.D.N. Hebert

9:30 649 Why Not Speciate While You Wait? rDNA Investigation of Speciation in Parasitic Nematodes that Wait in the Prey of their Carnivorous Hosts.
*A.M.V. Brown

9:45 650 Ecological Settings of Host Capture: Precursors to Parasite Speciation.
*S.N. Bennett

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Room Henn 200
Tuesday, June 23

8:15-10:00 **SESSION 59: MATING (BREEDING) SYSTEMS - ANIMALS**
Chair: David Carlon

8:15 651 Mating System and Population Structure of a Tropical Reef Coral.
*D.B. Carlon

8:30 652 Testing a Model for Maintenance of a Mixed Mating System: Encounter Rates between Males and Hermaphrodites of an Androdioecious Crustacean are Not Random.
*V.L. Medland, N. Zucker, S.C. Weeks

8:45 653 Ecological Differences between Sexual and Obligately Asexual *Daphnia pulex*.
*D.J. Innes, C.J. Fox, G.L. Winsor

9:00 654 Microsatellite Analysis of Parentage and Cuckoldry in the Redbreast Sunfish, *Lepomis auritus*.
*J.A. DeWoody, D.E. Fletcher, W.S. Nelson, J.C. Avise

9:15 655 Microsatellite Evidence for Sneaking and Egg Stealing in Fifteenspine Sticklebacks.
*A.G. Jones, S. Ostlund-Nilsson, J.C. Avise

9:30 656 Polygyny, Mate-Guarding, and Posthumous Fertilizations as Alternative Male Mating Strategies.
*K.R. Zamudio, B. Sinervo

9:45 657 Genetic Analysis of Cooperative Breeding in Meerkats.
*A.S. Griffin, J.M. Pemberton, T.H. Clutton-Brock

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Room IRC 5
Tuesday, June 23

8:15-10:00 **SESSION 60: INBREEDING DEPRESSION**
Chair: Shawn Meagher

8:15 658 Competition Reveals Severe and Sex-Biased Inbreeding Depression in House Mice.
*S. Meagher, W.K. Potts

8:30 659 Inbreeding Depression and Population Persistence in *Silene alba*.
*C.M. Richards

8:45 660 Biparental Inbreeding and Offspring Fitness in a Gynodioecious Species.
*L.F. Delph

9:00 661 Inbreeding Depression Due to Slightly Deleterious Mutations in Finite Populations: Size Does Matter!
*T. Bataillon, M. Kirkpatrick

9:15 662 Inbreeding Depression in the Outcrosser *Arabis petrea*.
*C. Vogl

9:30 663 Inbreeding Depression Under Joint Selfing, Outcrossing, and Asexuality.
*C. Muirhead, R. Lande

9:45 664 Inbreeding and Inbreeding Depression: Linking Molecular and Quantitative Genetics.
*B.G. Milligan

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Room Hebb Th
Tuesday, June 23

8:15-10:00 **SESSION 61: PHYLOGENETIC METHODOLOGY**
Chair: Allen Rodrigo

8:15 665 A Comparison of the Phylogenetic Jacknife and Phylogenetic Bootstrap.
*A.G. Rodrigo

8:30 666 Character Weighting in Phylogenetic Analyses - Evidence from Simulations and Real Data.
*B. Oxelman, T. Eriksson

8:45 667 Bad Day at Big Tree: How Tree Reconstruction Methods Fail on Large Trees.
*K.A. Rice, T.J. Warnow

9:00 668 Comparison of Three Methods for Approximating Maximum Likelihoods in Phylogenetic Tree Searches.
*J.S. Rogers, D.L. Swofford

9:15 669 A Computer Simulation Evaluation of the Effect of Homoplasy Based Character Weighting on the Success of Finding Expected Trees.
*T. Eriksson, A.D. Yoder

9:30 670 Factors Influencing Phylogenetic Inference: A Case Study of the Mammalian Carnivores.
*O.R.P. Bininda-Emonds

9:45 671 Strongest Evidence Parsimony: Maximum Phylogenetic Signal as a New Cladistic Inference Criterion.
*B.A. Salisbury

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Room IRC 6
Tuesday, June 23

8:15-10:00 **SESSION 62: PHENOTYPIC PLASTICITY – COSTS AND CONSTRAINTS**
Chair: Thom DeWitt

8:15 672 Costs and Limits of Phenotypic Plasticity: Tests with Predator-induced Morphology and Behavior in a Freshwater Snail.
*T.J. DeWitt

8:30 673 Measuring the Cost of Plasticity in *Daphnia pulex*.
*S.M. Scheiner, D. Berrigan

8:45 674 Developmental Constraints on Shade-Avoidance Responses.
*C. Weinig

9:00 675 Plastic Elongation Responses in Natural Populations of *Impatiens capensis*: Expression and Maintenance of Plasticity.
*K. Donohue

9:15 676 Does a Cost of Homeostasis Explain the Persistence of Non-Adaptive Plasticity in Leaf Traits in an Annual Plant?
*A. Winn

9:30 677 Testing for Density-Dependent Selection and Costs of Plasticity in *Arabidopsis thaliana*.
L. Dorn, E. Hammond, *J. Schmitt

9:45 678 Costs of an Inducible Morphological Defense in Crucian Carp.
*L.B. Pettersson, C. Brönmark

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Room IRC 1
Tuesday, June 23

8:15-10:00 **SESSION 63: CONSERVATION GENETICS - MAMMALS**
Chair: Brian Bowen

8:15 679 Comparative Biogeography of North American Flying Squirrels Based on Multiple Molecular Data Sets.
*R. Browne, B. Arbogast, P. Weigl

8:30 680 Phylogeography of the West Atlantic Manatees: How Many Populations and How Many Species?
A.I. Garcia-Rodriguez, *B.W. Bowen

8:45 681 Conservation Genetics of Kermode Bears in Northwestern British Columbia.
*H.D. Marshall, K.M. Ritland

9:00 682 Loss of Variation in the Landlocked Lake Saimaa Seal During 9000 Years of Isolation.
*J.U. Palo, H. Makinen, R. Vainola

9:15 683 How the Need to Define Population Boundaries in Advance Can Reduce Your Ability to Detect Population Structure.
*K.K. Fear, B.L. Taylor, S. Chivers

9:30 684 Population Genetics of the Northern Elephant Seal.
*C. Garza

9:45 685 Characterization of the Impact of Historical Hybridization on North American Bison Populations.
*T.J. Ward, J. Bielawski, S.K. Davis, J.N. Derr

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Room Henn 201
Tuesday, June 23

10:30-12:00 **SESSION 64: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - FISH**

Chair: Mark Belk

10:30 686 Cancelled

10:45 687 Competition and Biogeography of Marine Fishes.
*S. Grant, B. Bowen

11:00 688 Counter-Gradient Variation in Growth Rate of Leatherside Chub, *Gila copei*: Environmental or Phylogenetic Effects.
*M.C. Belk, J.B. Johnson, M.E. Smith, K.W. Wilson

11:15 689 Environmental Correlates to Spatiotemporal Variation in Population Density and Male Life History Strategy in Coho Salmon (*Oncorhynchus kisutch*).
*K.K. Young

11:30 690 Historical Relationships among Populations of *Pantosteus* (Teleostei, Catostomidae) in the Desert Southwest.
*C.L. Secor, T.E. Dowling

11:45 691 Experimental Evidence of Declining Interspecific Competition During Character Displacement.
*J.R. Pritchard, D. Schluter

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Room Henn 202
Tuesday, June 23

10:30-12:00 **SESSION 65: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - MAMMALS**
Chair: Jack Sullivan

10:30 692 Phylogeny of the Tenrecidae: Biogeographic Implications.
*L.E. Olson

10:45 693 Phylogeography of Highland Rodents.
*J. Sullivan

11:00 694 Higher Level Relationships and Biogeographic History of South American Sigmodontine Rodents: Evidence from mtDNA Sequence Data.
*M.F. Smith

11:15 695 Emerging Molecular Evidence for a Mid-Pleistocene Split in Some Western North American Vertebrates: Changing Perspectives on Post-Glacial Dispersal Routes.
*A.S. Byun, B.F. Koop, T.E. Reimchen

11:30 696 A Review of Bergmann's Rule in Mammals: Is it Valid?
*K.G. Ashton, M.R. Tracy

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Room IRC 6
Tuesday, June 23

10:30-12:00 **SESSION 66: SOCIAL BEHAVIOUR/STRUCTURE**
Chair: Allen Moore

10:30 697 Evolutionary Changes in *Myxococcus xanthus* Social Behavior.
*G.J. Velicer, L. Kroos, R.E. Lenski

10:45 698 Social Organization in Sperm Whales, *Physeter macrocephalus*, Inferred from Nuclear and Mitochondrial DNA.
*S.L. Mesnick, B. Taylor, A.E. Dizon,

11:00 699 The Importance of Social Interactions in Evolution: Social Selection and Indirect Genetic Effects.
*A.J. Moore, J.B. Wolf, E.D. Brodie III

11:15 700 Social Structure Predicts Genetic Structure in a Baboon Hybrid Zone.

*T. Woolley-Barker, C.J. Jolly, J.E. Phillips-Conroy, F.L. Brett

11:30 701 Phylogenetic Relationships and the Origin of Social Behaviors in the Four Tribes of the Subfamily Polistinae with the Use of Molecular Markers.
*E. Arevalo, Y. Zhu, D.C. Queller, J.E. Strassmann

11:45 702 Indirect Genetic Effects in the Evolution of Social Interactions.
*J. Wolf, A.J. Moore, E.D. Brodie III

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Room IRC 1
Tuesday, June 23

10:30-12:00 **SESSION 67: SPECIATION AND CLADOGENESIS - INSECTS**
Chair: Dianne Gleeson

10:30 703 Effects of Pleistocene Glaciations on Diversification of Montane Grasshoppers in the Rockies.
*L.L. Knowles, D.J. Futuyma

10:45 704 Factors Affecting the Evolution of Premating Isolation.
*H.D. Rundle, A.Ø. Mooers, M.C. Whitlock

11:00 705 Weather You're Ready or Not: The Effects of Climate on Diapause and the Genetics of Apple and Hawthorn Host Races of *Rhagoletis pomonella*.
*K.E. Filchak, J.L. Feder, J.B. Roethele

11:15 706 Genetic Evidence for Inversion Polymorphism Differentiating Host Races of the Apple Maggot Fly, *Rhagoletis pomonella*.
*J.L. Feder, K. Filchak, J.B. Roethele

11:30 707 Pheromone Evolution and Speciation in New Zealand's Leafroller Moths.
*D.M. Gleeson, R.D. Newcomb

11:45 708 Convergent Evolution of Courtship Songs among Cryptic Species of the Carnea- Group of Green Lacewings (Neuroptera: Chrysopidae: *Chrysoperla*).
*C.S. Henry, M.M. Wells

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Room Hebb Th
Tuesday, June 23

10:30-11:45 **SESSION 68: MOLECULAR EVOLUTION/SYSTEMATICS**
Chair: Michael Stanhope

10:30 709 Phylogenetic Analyses Suggest Convergent Evolution in Tissue Migration Strategies within Animal Parasitic Nematodes (Order Strongylida).
*S.C. Sukhdeo, A.D. Bansemir, M.V.K. Sukhdeo

10:45 710 Insights into the Evolution of Nuclear Transport from Phylogenetic Analyses of Karyopherins.
*L.A. Katz

11:00 711 Rates of Molecular Evolution Differ between African and Neotropical Cichlids.
*I. Farias, I. Sampaio, A. Meyer, G. Orti

11:15 712 Phylogeny of Parabasalian Symbionts from Lower Termite Hindguts and the Nature of the Ancestral Parabasalian.
*P.J. Keeling, G.I. McFadden

11:30 713 Molecular Phylogenetic Perspectives on the Possible Paraphyly of Microbats.
*M.J. Stanhope, V.G. Waddell, E. Teeling

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Room IRC 3
Tuesday, June 23

10:30-12:00 **SESSION 69: COEVOLUTION – PLANT/INSECT INTERACTIONS**
Chair: Diana Pilson

10:30 715 Tolerance to Herbivory and Competition in the Common Morning Glory, *Ipomoea purpurea.*
*P. Tiffin

10:45 716 Cost of Glandular Trichomes, a "Resistance" Character in *Datura wrightii.*
*E. Elle, N.M. van Dam, J. Hare

11:00 717 Polyploidy and the Ecology of Gene Flow: Floral Traits and Insect Visits to *Heuchera grossulariifolia.*
*K.A. Segraves, J.N. Thompson

11:15 718 A Positive Association between Oviposition by a Pre-Dispersal Seed Predator and Fruit Set: Female Choice Or Manipulation.
*S. Morita, A. Brody

11:30 719 Barley Yellow Dwarf Virus Modification of Host Plant Choice in the Common Green Aphid *Schizaphus graminum.*
*A.D. Stewart, S.E. Kelley

11:45 720 The Effect of Variation in Branching Morphology and Flowering Phenology on Resistance and Tolerance of Herbivory in Wild Sunflower, *Helianthus annuus.*
*D. Pilson

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Room Henn 200
Tuesday, June 23

10:30-12:00 **SESSION 70: MATING (BREEDING) SYSTEMS - PLANTS**
Chair: Matthew Olson

10:30 721 The Influence of Flower Number and Herkogamy on the Mating System of the Common Morning Glory, *Ipomoea purpurea.*
*S. Chang

10:45 722 Contributions of Autogamy and Geitonogamy to Self-Fertilization in a Mass-Flowering, Clonal Plant.
*C.G. Eckert

11:00 723 Gender Modification and the Evolution of Dioecy in *Astilbe biternata.*
*M.S. Olson

11:15 724 Ecological and Genetic Factors in the Evolution of Autogamy in *Arenaria uniflora* (Caryophyllaceae).
*L. Fishman

11:30 725 Sex Ratio Evolution in Structured Populations of a Gynodioecious Plant.
*D.E. McCauley

11:45 726 The Evolution and Functional Significance of Enantiostyly.
*L.K. Jesson, S.C.H. Barrett

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Room IRC 4
Tuesday, June 23

10:30-12:00 **SESSION 71: HYBRIDIZATION/ECOLOGICAL GENETICS**
Chair: Mitch Cruzan

10:30 727 Genetic Interactions and Natural Selection in Louisiana Iris Hybrids.
*J.M. Burke, T.J. Voss, M.L. Arnold

10:45 728 Genomic Interactions in Intraspecific Hybrids of *Arabidopsis thaliana* (Brassicaceae).

*M.C. Ungerer, L.H. Rieseberg

11:00 729 Genetic and Evolutionary Aspects of Natural Hybridization between *Orchis laxiflora* and *O. palustris* (Orchidaceae).
*F. Verra, R. Cianchi, P. Arduino, L. Bullini

11:15 730 Geographic Variation and Hybridization in the *Piriqueta caroliniana* Complex.
*M.B. Cruzan

11:30 731 Morphological and Molecular Analyses of the Extent of Hybridization in *Penstemon* (Scrophulariaceae): An Example from an Isolated Population.
*S.L. Datwyler, A.D. Wolfe

11:45 732 Gene Flow between Cultivated and Wild Beets in California?
*D. Bartsch, N. Ellstrand

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Room IRC 5
Tuesday, June 23

10:30-12:00 **SESSION 72: CONSERVATION GENETICS**
Chair: Michael Pfrender

10:30 733 A Role for Inter- or Intra-Specific Hybridization in Determining an Exotic's Invasiveness?
*N.C. Ellstrand, K.A. Schierenbeck

10:45 734 Relationships between Quantitative and Molecular Genetic Variation in Natural Populations.
*M.E. Pfrender, M. Lynch

11:00 735 Genetic Diversity and Gene Flow at a Snail's Pace? The Story of the Iowa Pleistocene Snail.
*T.K. Ross

11:15 736 New DNA Markers Provide Insight to Temporal Change in Hybridization.
*J.D. Baker, P. Bentzen, P. Moran

11:30 737 Genetic Mechanisms Underlying Outbreeding Depression in an Intertidal Copepod.
*S. Edmands

11:45 738 Patterns of Introduction and Dispersal of the Vector of Avian Malaria in Hawaii: Data from Microsatellite and mtDNA Variation.
*D.M. Fonseca, D. LaPointe, R.C. Fleischer

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Room: Chan Centre
Tuesday, June 23

1:30 – 2:30 **PRESIDENTIAL ADDRESS**
SOCIETY FOR THE STUDY OF EVOLUTION
The Bridge from Micro- to Macroevolution: a Tour of the Construction Site
Stevan J. Arnold

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3:00 – 6:00 Room: IRC 2
Tuesday, June 23
SYMPOSIUM 7: YOUNG INVESTIGATORS
AMERICAN SOCIETY OF NATURALISTS

3:00 739 Codon Bias Evolution in *Drosophila*: Detecting the Footprint of Natural Selection at 'Silent' sites in DNA.
*Hiroshi Akashi

3:30 740 Ecological Genetics of Plant-Herbivore Interactions: Integrating Pattern and Process.

*Rodney Mauricio

4:00 – 4:30 Break

4:30 741 A Molecular Phylogeny of the New World Orioles *Icterus*: a Framework for Reconstructing the History of Plumage Evolution.
*Kevin Omland

5:00 742 Determinants of Sexual Isolation and Mating Success in *Drosophila pseudoobscura* and *D. persimilis.*
*Mohamed Noor

5:30 743 Development of Better Models for Phylogenetic Analysis: Thesis Results and Problems Ahead with Vertebrate mtDNA, Early Eukaryotes, and Mammals.
*Peter Waddell

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Room IRC 4
Tuesday, June 23

2:45-4:00 **SESSION 73 - SPECIATION AND CLADOGENESIS**
Chair: Harvey Ballard

2:45 745 Origin and Ecological Significance of Polyploidy in *Achillea millefolium* (Asteraceae).
*J.M. Ramsey

3:00 746 Floral Characters and Reproductive Isolation between Interfertile *Nicotiana* Species.
*A. Ippolito, T.P. Holtsford

3:15 747 Insights into Geographic Speciation in the *Viola canadensis* Complex, Based on Internal Transcribed Spacer DNA Sequences.
*H.E. Ballard, Jr., M.D. Devine, K.J. Sytsma

3:30 748 Host-Associated Differentiation in a Recently Generalized Aphid: Prospects for Speciation in *Uroleucon ambrosiae.*
*D.J. Funk

3:45 749 Are Edaphic Factors Influencing Incipient Speciation in *Lasthenia californica* (Asteraceae) ?
*N. Rajakaruna

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Room Henn 201
Tuesday, June 23

2:45-4:00 **SESSION 74- BIOGEOGRAPHY/GEOGRAPHIC VARIATION - INSECTS**
Chair: William Bradshaw

2:45 750 Cancelled

3:00 751 Behavioral and Genetic Differentiation Between Native and Introduced Populations of the Argentine Ant..
*A.V. Suarez, N.D. Tsutsui, D.A. Holway, T.J. Case

3:15 752 Physiological and Phenological Adaptation to Temperate Climates.
*W.E. Bradshaw, C.M. Holzapfel, S. Fujiyama

3:30 753 Evolution and Biogeography of New Zealand Alpine Cicadas: Evidence from Mitochondrial DNA Sequences.
*T.R. Buckley, C.M. Simon, P.A. Arensburger, G.K. Chambers

3:45 754 The Influence of Dispersal and Diet Breadth on Patterns of Genetic Isolation by Distance in Phytophagous Insects.
*M.A. Peterson, R.F. Denno

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Room Henn 202
Tuesday, June 23

2:45-3:45 **SESSION 75: BIOGEOGRAPHY/GEOGRAPHIC VARIATION - MAMMALS**
Chair: Anne Yoder

2:45 755 Using Microsatellite Loci to Investigate the Evolutionary History and Behavioural Ecology of Migratory Species: Dealing with Uncertainty About Mutation Models.
*G.M. O'Corry-Crowe, M. DeAngelis, A.E. Dizon

3:00 756 Molecular Zoogeography of the Red Sea Region with a Focus on the Hamadryas Baboon.
*D.E. Wildman, A. Al-Aghbari, T.R. Disotell, C.J. Jolly

3:15 757 DNA Sequences from Extinct Giant Lemurs: Consequences for Biogeographic and Phylogenetic Hypotheses of the Extant.
*A.D. Yoder, T.J. Parsons

3:30 758 Preliminary Results on the Population Genetics of Central American Howler Monkeys.
*J.A. Ellsworth, G.A. Hoelzer

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Room IRC 6
Tuesday, June 23

2:45-4:00 **SESSION 76: ADAPTATION - LIFE HISTORY**
Chair: Jeff Leips

2:45 759 Larval Nutrition and Early Juvenile Performance: Field Studies with Barnacles.
*R.B. Emlet

3:00 760 Divergent Life-History Phenotypes among Populations of *Brachyrhaphis rhabdophora* (Pisces: Poeciliidae): Potential Role of Predation.
*J.B. Johnson

3:15 761 Adaptive Variation in Offspring Size among Populations of the Least Killifish, *Heterandria formosa*: Local Adaptation to Population Density?
*J.W. Leips, J. Travis

3:30 762 Tests of the Adaptive Menopause Hypothesis with East African Lions and Baboons.
*M. Tatar, C. Packer

3:45 763 Evolution of Correlated Germination and Post-Germination Traits: A Two-Locus Model.
*G.A. Fox, A.S. Evans

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Room IRC 5
Tuesday, June 23

2:45-4:00 **SESSION 77: CONSERVATION GENETICS - FISH**
Chair: Craig Stockwell

2:45 764 Salinity and Pgdh in an Endangered Species, the White Sands Pupfish (*Cyrinodon tularosa*).
*C.A. Stockwell, M. Mulvey

3:00 765 The Relationship between Genetic Diversity and Fitness in Pacific Salmon.
*D.D. Heath, J. Kelly

3:15 766 Analysis of Metapopulation Structure in Bull Trout (*Salvcelinus confluentus*) Using Microsatellite Loci.
*P. Spruell, B.E. Rieman, K.L. Knudsen, F.W. Allendorf

3:30 767 White Sturgeon in British Columbia: A Preliminary Survey of Stock Structure.
*S.J. McKay, S. Pollard, B.F. Koop

3:45 768 Correlation between Extent of Reproductive Isolation and Phenotypic Divergence in Sympatric Lake Whitefish (*Coregonus sp.*) as Revealed by Microsatellite and Morphological Analyses.
*G. Lu, L. Bernatchez, A. Chouinard

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Room IRC 3
Tuesday, June 23

2:45-4:00 **SESSION 78: PHENOTYPIC PLASTICITY - PLANTS**
Chair: Geraldine Allen

2:45 769 Adaptiveness of Phenotypic Plasticity in *Aster*.
*G.A. Allen

3:00 770 Effects of Phytochrome-Mediated Neigbour Perception on Phenotypic Selection of Seedling Traits in High and Low Densities.
*S.A. Dudley, J.D. Sleeman, A. Fast

3:15 771 Phenotypic Plasticity among Families of *Danthonia spicata* with Different Dispersal Capabilities.
*M.K. McCormick, K.L. Gross

3:30 772 Plasticity in Gas Exchange and Morphological Traits in Response to Light Quality in the Androdioecious Species *Mercurialis annua*.
*J.D. Sleeman, J.R. Pannell, S.A. Dudley, S.C.H. Barrett

3:45 773 Evolution of Seed Size Plasticity in *Collinsia verna*: Maternal Genotype-Environment Interactions and Offspring Fitness in Variable Light Environments.
*B.B. Black

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Room IRC 1
Tuesday, June 23

2:45-4:00 **SESSION 79: MORPHOMETRICS**
Chair: F. James Rohlf

2:45 774 Morphological and Morphometric Approaches to Species Identification in a Sea Star (*Leptasterius*) Cryptic Species Complex.
*A.W. Hrincevich, D.W. Foltz, J.M. Flowers

3:00 775 Geometric Morphometrics Simplified - the Essentials.
*F.J. Rohlf

3:15 776 More Than Size and Shape: A New Look at Growth and Ontogeny.
*P.M. Magwene

3:30 777 A Morphometric Analysis of the Ontogeny of Skull Ossification in Pipoid Frogs.
*J. Yeh

3:45 778 Diversity of Skull Shapes in Terrestrial Squirrels (Marmotini, Sciuridae).
*D.L. Swiderski

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Room Hebb Th
Tuesday, June 23

2:45-4:00 **SESSION 80: POPULATION/ECOLOGICAL GENETICS - FISH**
Chair: Maureen Small

2:45 779 Microsatellites Discriminating Species and Stocks of Neotropical Fish.
*F.M.C. Fernandes-Matioli, L.F. Almeida-Toledo, S.A. Toledo-Filho

3:00 780 Population Structure of British Columbia Coho Salmon Based on Microsatellite Markers.
*M.P. Small

3:15 781 Low-Predation, High-Predation Guppy (*Poecilia reticulata*) Populations; a Microsatellite-Based Genetic Perspective.
*J.S. Taylor, F. Breden

3:30 782 Cancelled

3:45 783 Using Microsatellites to Test for Single vs Double Invasion in Sympatric Whitefish (*Coregonus*) Ecotypes.
*L. Bernatchez

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Room Henn 200
Tuesday, June 23

2:45-4:00 **SESSION 81: MOLECULAR EVOLUTION**
Chair: Lisa Vawter

2:45 784 Phylogenetic Analysis of the Olfactory Receptor Gene Family.
*L. Vawter

3:00 785 Evolutionary Dynamics of Transposable Elements in Self-Fertilizing Species.
*M.T. Morgan

3:15 786 Analysis of Young LINE-1 Elements After Isolation by PCR Amplification and Screening for ORF's.
*M.A. Cantrell, H.A. Wichman

3:30 787 Extinction of the LINE-1 Transposable Element Family in the Oryzomyini Tribe.
*R.A. Grahn, N.C. Casavant, H.A. Wichman

3:45 788 Orthologous Mys Retrotransposons in Two Species of *Peromyscus* Evolve at Different Rates.
*L. Scott, R.R. Sawby, C.J. Brown, H.A. Wichman

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Room IRC 3
Tuesday, June 23

4:30-6:00 **SESSION 82: PHENOTYPIC PLASTICITY - ANIMALS**
Chair: Lin Schwarzkopf

4:30 789 Life History Changes in Malaria Parasites Following Intervention Strategies.
*A.G.J. Buckling, A.F. Read

4:45 790 Geographic Variation in the Effect of Embryonic Environment on Offspring Growth Rates.
*L. Schwarzkopf

5:00 791 Different Mechanisms Underly Phenotypic Plasticity and Interspecific Variation for a Reproductive Character in Drosophilids.
*J. Hodin, L.M. Riddiford

5:15 792 Phenotypically Plastic Feeding Morphologies in Marine Herbivorous Snails - are they Adaptive?
*D.K. Padilla

5:30 793 Effects of Parasites on Gastropod Shell Size and Shape.
*A.C. Krist

5:45 794 The Reaction Norms in Isolated Populations of Wolf Spider *Hygrolycosa rubrofasciata.*
*L.T. Vertainen

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Room IRC 4
Tuesday, June 23

4:30-6:00 **SESSION 83: MATING (BREEDING) SYSTEMS - PLANTS**
Chair: Paula Kover

4:30 795 Does Outcrossing Reduce Progeny Susceptibility to Pathogens?
*P.X. Kover .

4:45 796 The Maintenance of Stigma-Height Polymorphisms in *Narcissus* (Amaryllidaceae).
*A.M. Baker, J.D. Thompson, S.C.H. Barrett

5:00 797 The Influence of Population Size and Flower Traits on Fitness of *Rudbeckia hirta*.
*C.M. Olson, D.L. Byers

5:15 798 The Intensity of Post-Pollination Selection Revealed by Complete Paternity Assignment Using AFLP.
*S.L. Krauss

5:30 799 Geographical Variation in Sexual Polymorphism in *Narcissus triandrus* (Amaryllidaceae).
*S.C.H. Barrett, L.D. Harder, W.W. Cole

5:45 800 Inbreeding, Deleterious Genes and the Evolution of Complex Hybridity in *Isotoma petraea* (Lobeliaceae).
*J.D. Bussell, S.H. James

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Room IRC 1
Tuesday, June 23

4:30-6:00 **SESSION 84: DEVELOPMENTAL EVOLUTIONARY BIOLOGY**
Chair: David Stern

4:30 801 Evolution by Small Steps with Big Genes: Ultrabithorax and Morphological Differences between *Drosophila* Species.
*D.L. Stern

4:45 802 Inferring Developmental Rules from Morphometric Variation and Asymmetry.
*C.P. Klingenberg

5:00 803 Characterization of the Mechanism of Parthenogenesis in a Cockroach with Alternate Modes of Development.
*L.S. Corley, A.J. Moore

5:15 804 Evolutionary Aspects of Insect Muscle Physiology.
*M.R. Wolf, G.H. Fitzhugh, J.H. Marden

5:30 805 Evolution of Paired Domains - Identification of Critical Amino Acids for Functional Divergency between Pax Groups.
*H. Sun, X. Gu, D. Dickinson, W.-H. Li

5:45 806 Concerted Evolution in the Egg Receptor for the Rapidly Evolving Abalone Sperm Protein Lysin.
*W.J. Swanson, V.D. Vacquier

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Room Henn 202
Tuesday, June 23

4:30-6:00 **SESSION 85: HYBRIDIZATION/ECOLOGICAL GENETICS**
Chair: Simon Goodman

4:30 807 Using ISSR Markers in Studies of Natural Populations.
*A.D. Wolfe, Q. Xiang, S.R. Kephart

4:45 808 Genetic Introgression Through Rare Hybridization: A Study of Red and Sika Deer (Genus *Cervus*) in South-West Scotland.
*S.J. Goodman, N.H. Barton, G. Swanson, J.M. Pemberton

5:00 809 Interspecific Genetics of AFLP Variation and Song Behaviors in the Hawaiian Cricket Genus *Laupala*.

*K.L. Shaw, Y.M. Parsons

5:15 810 Non-coalescence of Mitochondrial Haplotypes within *Manacus* (Aves) Species: Hybridization or Incomplete Lineage Sorting.
*R.T. Brumfield, M.J. Braun

5:30 811 Ecological Selection and the Likelihood of Hybrid Speciation.
*C.A. Buerkle, L.H. Rieseberg

5:45 812 Reticulate Evolution Under the Pure Drift Model.
*S. Xu, W. R. Atchley

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Room Hebb Th
Tuesday, June 23

4:30-6:00 **SESSION 86: POPULATION/ECOLOGICAL GENETICS**
Chair: Brian Charlesworth

4:30 813 Effects of Population Subdivision, Background Selection, Balancing Selection and Local Selection on Patterns of Genetic Diversity.
*B. Charlesworth, M. Nordborg, D. Charlesworth

4:45 814 The Response of a Gastropod Population to Microgeographic Selection Gradients Caused by a Predator is Constrained by Migration.
*E.G. Boulding

5:00 815 Genetics of Sex-Ratio Distortion in *Drosophila simulans/D. sechellia* Introgression Lines.
*E.T. Dermitzakis, J.P. Masly, A.G. Clark

5:15 816 Sex Chromosome - Cytoplasm Fitness Interactions and Sex-Specific Fitnesses of mtDNA in *Drosophila*.
*D.M. Rand

5:30 817 Intragenomic Variation of ITS2 of Ribosomal DNA Varies among Populations of *Anopheles nuneztovari*.
*D.Y. Onyabe, J. Conn

5:45 818 Comparison of Genetic Differentiation in a Pair of Generalist and Specialist Sister Species.
*S.T. Kelley, B.D. Farrell, J.B. Mitton

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Room IRC 5
Tuesday, June 23

4:30-6:00 **SESSION 87: QUANTITATIVE GENETICS**
Chair: Susan Mazer

4:30 819 Inbreeding and Predictions of Selection Response in *Nemophila menziesii*.
*D.L. Byers, R.G. Shaw, F.H. Shaw

4:45 820 Size-Dependent Sex Expression in *Clarkia unguiculata*: Changes within and Across Genotypes.
*S.J. Mazer

5:00 821 Accumulation of Spontaneous Mutations in *Arabidopsis thaliana*.
*R.G. Shaw, D.L. Byers

5:15 822 Mutation Accumulation in *C. elegans*.
*L. Vassilieva, M. Lynch

5:30 823 Estimating the Genomic Mutation Rate in a *Drosophila* Population Under Relaxed Selection.
*L. Yampolsky, S. Shabalina, A. Kondrashov

5:45 824 Effects of Temperature on Properties of Spontaneous Deleterious Mutation.

*L. Latta, M. Lynch, J. Blanchard

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Room Henn 201
Tuesday, June 23

4:30-6:00 **SESSION 88: MOLECULAR EVOLUTION/POPULATION GENETICS**
Chair: Michael Purugganan

4:30 825 Excess Intraspecific Replacement Polymorphisms at *Arabidopsis thaliana* Genes: A Look at Flower Development Loci.
*M.D. Purugganan, J.I. Suddith

4:45 826 Evolutionary Analysis of Adh and Adhr in African and Worldwide Populations of *Drosophila melanogaster.*
*S. Tsaur, M.E. Kreitman

5:00 827 Evolution of Pheromone Binding Proteins in Moths.
*C.S. Willett

5:15 828 Let There Be Light: Click Beetle Luciferase and Bioluminescence as a Model for Molecular and Phenotypic Evolution.
*U. Stolz, J. Feder, K. Filchak, K. Wood

5:30 829 Molecular Insights into Colony and Population Structure of the Multiple Queened Ant *Polyrhachis doddi.*
*R.N. Johnson, R.H. Crozier

5:45 830 Intron Polymorphism and Concerted Evolution between EF1a Loci in Shrimp.
*S. Lavery, S. Palumbi

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Room Henn 200
Tuesday, June 23

4:30-6:00 **SESSION 89: MOLECULAR EVOLUTION/SYSTEMATICS**
Chair: Richard Broughton

4:30 831 A Test of "Male Driven Evolution" in Birds - Do Males Do it Faster?
*N.W. Kahn, T.W. Quinn

4:45 832 Molecular Evolution in Ratite Birds.
*O.P. Haddrath, A.J. Baker

5:00 833 Origin and Molecular Evolution of the Can Sine.
*M.A. Nedbal, J.J. Flynn

5:15 834 A Comparison of Different Genes and Data Partitions in Higher Level Mammalian Phylogenetics.
*H.M. Amrine, A. Burk, M.J. Stanhope, M.S. Springer

5:30 835 Phylogenetic Relationships in Seed Plants Based on Sequences of Highly Conserved Chloroplast Genes.
*M.J. Sanderson, M.F. Wojciechowski, J. Hu

5:45 836 The Relationship between Homoplasy and Divergence in Vertebrate Mitochondrial DNA Sequences.
*R.E. Broughton, S.E. Stanley

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Room IRC 6
Tuesday, June 23

4:30-6:00 **SESSION 90: CONSERVATION GENETICS - THEORY AND METHODOLOGY**

Chair: Ellen Williamson

4:30 837 Maximum Likelihood Estimator of Variance Effective Population Size.
*E.G. Williamson, M. Slatkin

4:45 838 A Bias Adjustment for a Common Sampling Artifact in Studies of Population Genetic Differentiation.
*R.S. Waples

5:00 839 Predicting Nuclear Gene Monophyly from Mitochondrial Data: The 3X Rule.
*M.P. Hare, F. Cipriano, S.R. Palumbi

5:15 840 Effectivness of Effective Population Size Estimators.
*B.J. Swanson, J.A. Curtis, P.M. Waser

5:30 841 Are Microsatellite Loci Really Neutral Genetic Markers?
*S.A. Karl, T. Streelman

5:45 842 Mechanisms of Metapopulation Evolution in Fragmented Populations Undergoing Extinction and Recolonization.
*A.M. McMillan

WEDNESDAY, JUNE 24

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8:30 – 12:30 Note: The symposium, ***Character Evaluation and Phylogenetic Analysis***, (contribution numbers 843 to 849) has been rescheduled on Monday afternoon.

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Room IRC 6
Wednesday, June 24

8:15-10:00 **SESSION 91: QUANTITATIVE GENETICS**
Chair: Derek Roff

8:15 850 Fluctuating Asymmetry in Pacific Salmon: Heritability and Fitness Consequences.
*C.A. Bryden, D.D. Heath

8:30 851 Conditions for Positive and Negative Correlations between Fitness and Heterozygosity.
*H. Deng, Y.-X. Fu

8:45 852 Quantitative Genetics of *Daphnia* pulicaria.
*K.K. Morgan, M. Lynch

9:00 853 Variation in Genetic Architecture of Calling Song in Crickets: Drift Or Selection?
*D.A. Roff, T.A. Mousseau, D.J. Howard

9:15 854 Changes in Genetic and Environmental Variance with Inbreeding in *Drosophila*.
*M.C. Whitlock, K. Fowler

9:30 855 Genetic Variation in Ovariole Number on a Microenvironmental Scale in *Drosophila melanogaster* from "Evolution Canyon", Israel.
*M.L. Wayne, A. Korol, E.N. Nevo, T.F.C. Mackay

9:45 856 The Genetics of Insect Resistance in *Arabidopsis thaliana*.
*B.M. Barker, T. Mitchell-Olds

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Room Henn 201
Wednesday, June 24

8:15-10:00 **SESSION 92: ADAPTATION - BEHAVIOUR**

Chair: Jordan West

8:15 857 Selective Consequences of Spiteful Behavior by an Avian Brood Parasite.
*J.N.M. Smith, M.J. Taitt

8:30 858 The Evolution of Locomotion in Pinnipeds - a Phylogenetic Perspective.
*P.J. Adam, A. Berta

8:45 859 Conflict Avoidance and Increased Shared Interest in a Community of Larval Parasites from Sand Crabs.
*K.D. Lafferty

9:00 860 The Influence of Stigma Closure on Pollinator Foraging Behavior in *Mimulus aurantiacus*.
*A.E. Fetscher

9:15 861 Evolution of Group Signatures in Bats.
*J.W. Boughman

9:30 862 Opportunity for Selection on Antipredator Response Traits of Larval Salamanders (Eurycea).
*S.M. Welter

9:45 863 Rare Predators Exploit Prey Antipredatory Responses - Adaptations to Flush-Pursue Foraging in Insectivorous Birds.
*P.G. Jablonski

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Room IRC 3
Wednesday, June 24

8:15-10:00 **SESSION 93: EVOLUTION OF SEX AND RECOMBINATION**
Chair: David Guttman

8:15 864 Sex and the Evolution of Intrahost Competition in RNA Viruses.
*P.E. Turner, L. Chao

8:30 865 High Levels of Genetic Variation in a Population of an Asexual Mycorrhizal Fungus *Acaulospora collosica*.
*A. Pringle, R. Vilgalys, J.-M. Moncalvo

8:45 866 An X-Linked Gene with a Degenerate Y-Linked Homologue in the Dioecious Plant *Silene latifolia*.
*D.S. Guttman, D. Charlesworth

9:00 867 The Role of Habitat in Structuring Mixed Populations of Sexual and Clonal *Potamopyrgus antipodarum*.
*S. Negovetic, J.W. Jokela

9:15 868 Sex and the Single Mayfly: Population Variation in Breeding System and its Influence on Genetic Structure.
*S.L. Ball

9:30 869 Temperature Dependent Sex Determination in the Giant River Turtle *Podocnemis expansa*.
*N. Valenzuela C.

9:45 870 Sex Ratio Bias and the Evolution of a Neo-Y Chromosome in *Musca domestica*.
*M.E. Clark, E.H. Bryant

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Room IRC 1
Wednesday, June 24

8:15-10:00 **SESSION 94: MEASURING SELECTION IN THE WILD**
Chair: Subodh Jain

8:15 871 Role of Gynodioecy and Life History Variation in the Colonizing Success of *Trifolium hirtum.*
*S.K. Jain

8:30 872 Natural Selection on Photosynthetic Genotypes of *Amaranthus hybridus* in Experimental Populations.
*A.M. Arntz, E.H. DeLucia, N. Jordan

8:45 873 Variation between Seasonal Cohorts of Offspring in a Desert Annual Plant.
*G. LeBuhn

9:00 874 Variable Selection by Herbivores Over an Elevational Gradient for *Solidago macrophylla* (Asteraceae).
*C. Kelly

9:15 875 Evolution of a Disease Resistance Gene in *Arabidopsis thaliana.*
*R. Mauricio

9:30 876 Natural Selection on Thermal Performance Curves of Caterpillar Feeding.
*J.G. Kingsolver

9:45 877 Life and Death Above 8000 Meters: Natural Selection on High-Altitude Mountain Climbers.
*R.B. Huey

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Room Henn 200
Wednesday, June 24

8:15-10:00 **SESSION 95: POPULATION/ECOLOGICAL GENETICS**
Chair: Micheal Hickerson

8:15 878 Patterns of Non-random Mating in a Sessile Marine Invertebrate, the Caribbean Octocoral, *Briarium asbestunum.*
*D. A. Brazeau

8:30 879 Genetic Differentiation in Marine Environments: A Test of Four Hypotheses Using mtDNA in Blennioid Fishes.
*C. Riginos, M.W. Nachman

8:45 880 Among-Locus Variance in F-Statistics: Results of a Meta-Analysis.
*C.F. Baer

9:00 881 Gene Flow and Phylogeography of the Northern Clingfish *(Gobbiesox maeandricus)* as Inferred from mtDNA Analysis.
*M.J. Hickerson, J.R.P. Ross

9:15 882 Tropical Seagrass Diversity: The Challenge of the Clonal Versus the Sexual.
*M. Waycott, P. Barnes, G. Inglis

9:30 883 The Evolution of Flammability: A Simulation Model of Niche Construction in Fire-Prone Shrublands.
*D.W. Schwilk

9:45 884 Cancelled

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Room IRC 5
Wednesday, June 24

8:15-10:00 **SESSION 96: COEVOLUTION – PLANTS, POLLINATORS AND PATHOGENS**
Chair: Aaron Liston

8:15 885 Floral Resource Predictability in Depauperate Floras and Pollen Specialization in Desert Solitary Bees.

*R.L. Minckley, J.H. Cane

8:30 886 Leaf Shape and its Influence on Pathogen Resistance in the Ivyleaf Morning Glory.
*K. L. Bright

8:45 887 Coevolution of a Plant Host - Pathogen Gene-For-Gene System in a Metapopulation Model without Cost of Resistance Or Cost of Virulence.
*C. Damgaard

9:00 888 The Importance of Spatial and Temporal Variability in Multiple Species Interactions.
*A.K. Brody

9:15 889 Pines, Gooseberries, and Pine Stem Rusts: Molecular Phylogenetic Analysis of a Tripartite Coevolutionary Relationship.
*A. Liston, D.R. Vogler, D. Pinero, E.R. Alvarez-Buylla

9:30 890 Fly Speciation in a Globeflower. Who Came First: The Parasite or the Mutualist?
*L. Despres, N. Jaeger

9:45 891 Do Co-Flowering Species Influence Pollinator-Mediated Selection on Plant Traits?: Tests Using *Ipomopsis aggregata.*
*C.M. Caruso

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Room IRC 4
Wednesday, June 24

8:15-10:00 **SESSION 97: SEXUAL SELECTION**
Chair: Goran Arnqvist

8:15 892 Effects of Variation in Parental Investment on Male and Female Mating Discrimination in the Striped Ground Cricket, *Allonembius socius.*
*J.A. Sadowski, A.J. Moore

8:30 893 Adaptive Significance of Mate Choice in the Ground Cricket.
*K.M. Fedorka, C. Roberts, T.A. Mousseau

8:45 894 Female Preference and Male Trait: Heritability and Genetic Correlation in a Field Cricket.
*D.A. Gray, W.H. Cade

9:00 895 Comparative Evidence for the Evolution of Genitalia by Sexual Selection.
*G. Arnqvist

9:15 896 Sexual Conflict Drives Morphological Divergence with Functional Convergence.
*L. Rowe

9:30 897 Heritability and Sexual Selection via Female Choice in a Moth *(Utetheisa ornatrix)*.
*V.K. Iyengar, T. Eisner

9:45 898 Molecular Mate Choice and Gamete Recognition Polymorphisms in Sea Urchins.
*S. Palumbi

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Room Henn 202
Wednesday, June 24

8:30-10:00 **SESSION 98: SELECTION EXPERIMENTS**
Chair: Veronique Delesalle

8:30 899 Fitness Costs and Trade-Offs Associated with Intra-Population Asexual Diapause Variation in the Rotifer *Synchaeta pectinata.*
*S.C. Fradkin

8:45 900 Nesting Behavior Responds to Selection for Increased Voluntary Activity in House Mice.

*P.A. Carter, J.G. Swallow, S. Davis, T. Garland, Jr.

9:00 901 Genetic Responses of Life-History Traits to Size-Dependent Predation in *Physa acuta* (Gastropoda).
*A. Monsutti, N. Perrin

9:15 902 Phenotypic and Evolutionary Responses to Environmental Stresses in a Ruderal Plant, *Sinapis arvensis* (Brassicaceae).
*M.L. Stanton, B.A. Roy, D.A. Thiede

9:30 904 Responses to Selection on Gender in *Spergularia marina* (Caryophyllaceae): The Accessory Traits.
*V.A. Delesalle, S.J. Mazer, P.R. Neal

9:45 905 Ancestral Polymorphisms in Phylogenetic Reconstruction: A Laboratory Study.
*M.E. White, B.I. Crother

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Room Hebb Th
Wednesday, June 24

8:15-10:00 **SESSION 99: MOLECULAR EVOLUTION**
Chair: Paul Rawson

8:15 906 Evolution of V4 and V7 Expansion Segments in the 18S Genes of Cladoceran Crustaceans.
*T.J. Crease, D.J. Taylor

8:30 907 Molecular Evolution of the X-Linked Color Vision Genes in New World Monkeys.
*Y. Tan, S. Boissinot, W.-H. Li

8:45 908 Evolution of Nest-Building Behavior in *Cornitermes bequaerti* (Isoptera: Termitidae).
V. Martins, V. Gavrilovic, *J.J. Smith

9:00 909 Intergenomic Coadaptation in *Tigriopus californicus:* Parallel Divergence in the Mitochondrial Subunits of Cytochrome Oxidase and its Nuclear Encoded Substrate Cytochrome c.
*P.D. Rawson, R.S. Burton

9:15 910 Mutational and Selective Forces Controlling Polyaminoacid Tract Abundances in Eukaryotic Proteins.
*D. Field

9:30 911 One Gene, One Lineage...Two Histories of Editing? Evolution of RNA Editing in Myxomycetes.
*T.L. Horton, L.F. Landweber

9:45 912 New Data on Bindin: Possible Implications for the Evolution of Reproductive Isolation in Echinometra.
*L.B. Geyer, S.R. Palumbi

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Room IRC 1
Wednesday, June 24

10:30-12:30 **SESSION 100: EVOLUTION OF SEX AND RECOMBINATION**
Chair: Nick Barton

10:30 913 Do Parasites Reproduce Sexually to Evade Host Immune Responses?
*K.A. Lythgoe

10:45 914 Random Drift and the Evolution of Recombination.
*N.H. Barton, S.P. Otto

11:00 915 A Theoretical Study of the Evolution of Mutation Rate in Sexual Organisms.
*T. Johnson

11:15 916 Testing for Epistasis between Deleterious Mutations.

*S.A. West, N.H. Barton

11:30 917 An Embarrassment of Riches: The Stochastic Generation of Beneficial Mutations.
*D. Gessler

11:45 918 Synthetic Lethals: Two-Locus Mutation-Selection Balance.
*P.C. Phillips, N.A. Johnson

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Presentations 919 – 926 have been moved to Monday, 2:45 – 4:45.

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Room IRC 5
Wednesday, June 24

10:30-12:30 **SESSION 101: SPECIES INTERACTIONS**
Chair: Michele Nishiguchi

10:30 927 Geographic Variation of Algal Symbiont Genotypes in Tropical Octocorals.
*T.L. Goulet, M.A. Coffroth

10:45 928 Promiscuity in the Crypts: Partner Swapping between Bobtail Squid and their Luminous Symbionts.
*M.K. Nishiguchi

11:00 929 Mycorrhizal Innovation and Specialization in a Non-Photosynthetic Orchid Genus.
*D.L. Taylor, T.D. Bruns, S.A. Hodges

11:15 930 Genetics of Protective Alkaloid Expression in Grass-Fungal Endophyte Mutualisms.
*H.H. Wilkinson, A.C. Mallory, J.D. Blankenship, C.L. Schardl

11:30 931 Dynamics of Cytoplasmic Incompatibility in Subdivided Populations.
*R. Haygood

11:45 932 Speciation and Heritable Microbes: The Evolution and Consequences of *Wolbachia*.
*S.R. Bordenstein, J.H. Werren

12:00 933 The Role of *Wolbachia* in the Evolution of Reproductive Isolation between *Drosophila recens* and *D. subquinaria*.
*D. Shoemaker, V. Katju, J. Jaenike

12:15 934 Patterns of Reproductive Isolation between Two Haplodiploid Species: *Nasonia vitripennis* and *N. longicornis*.
*M.D. Drapeau, S.R. Bordenstein, J.H. Werren

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Room Henn 201
Wednesday, June 24

10:30-12:30 **SESSION 102: ADAPTATION - LIFE HISTORY**
Chair: Renate Wesselingh

10:30 935 Threshold Size for Flowering: Variation, Heritability, and Selection.
*R.A. Wesselingh, T.J. de Jong, P.G.L. Klinkhamer

10:45 936 Evolutionary Differentiation in Sexuality and Life History in a Polyploid Agamic Complex, *Antennaria parlinii* (Asteraceae).
*L.M. O'Connell, C.G. Eckert

11:00 937 Evolution of Parental Care in Oysters.
*D.M. O'Foighil, D.J. Taylor

11:15 938 Costs of Predator Avoidance and Environmental Stress in Snails.

*M.C. Rigby, J. Taskinen, J. Jokela

11:30 939 Linking Herbivory and Pollination: Correlated Responses in Floral Characters and Pollination after Selection for Resistance to Herbivores.
*S.Y. Strauss, D. Siemens, T. Mitchell-Olds

11:45 940 Gender-Specific Clonal Reproduction in the Brittle Star *Ophiactis savignyi*.
*T. McGovern

12:00 941 Maternal Effects-Mediated Local Adaptation: Insights from Reciprocal Transplants of Population Hybrids.
*J. Bernardo, S.J. Arnold

12:15 942 Midlife Crises and Life History: Sudden Decrease in Offspring Quality of Middle-Aged House Flies.
*G.S. McIntyre, R.H. Gooding

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Room Henn 202
Wednesday, June 24

10:30-12:30 **SESSION 103: SEXUAL SELECTION**
Chair: Mark Blows

10:30 943 Sexual Selection and Evolution of Genetic Variation in Stalk-Eyed Flies.
*G.S. Wilkinson, M. Taper

10:45 944 X Chromosome Influences the Sexually-Selected Trait Eyespan in the Stalk-Eyed Fly, *Cyrtodiopsis dalmanni*.
*L.L. Wolfenbarger, G.S. Wilkinson

11:00 945 Long-Term Evolution of Mate Recognition After Hybridization between Two *Drosophila* Species.
*M. Blows

11:15 946 Cancelled

11:30 947 Call Duration Indicates Genetic Quality in Male Gray Treefrogs: Implications for the Evolution of Female Choice.
*A.M. Welch, R.D. Semlitsch, H.C. Gerhardt

11:45 948 Mate Choice for Offspring Performance in a Spider- Major Benefits Or Minor Costs?
*S. Parri, R.V. Alatalo, J. Kotiaho J. Mappes

12:00 949 Phylogenetic Analyses of Courtship-Related Character Evolution in a Jumping Spider Genus (*Habronattus*).
*M.C. Hedin, W.P. Maddison

12:15 950 Sensory Bias Drives Chorus Structure in a Frog and Katydid.
*A. Snedden

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Room IRC 6
Wednesday, June 24

10:30-12:30 **SESSION 104: ECOLOGICAL GENETICS**
Chair: Durrell Kapan

10:30 951 The Signature of Selection in Mimicry: Genetic and Phenotypic Correlations in Polymorphic *Heliconius* Butterflies.
*D.D. Kapan

10:45 952 The Interplay of Environmental and Genetic Factors in the Differentiation of *Platystemon californicus* Populations.

*T.J. Vision

11:00 953 Genetics of Sex Ratio Variation among Local Populations of a Dioecious Plant.
*D.R. Taylor

11:15 954 Microsatellite DNA Variation among Darwin's Finches.
*K. Petren, B.R. Grant, P.R. Grant

11:30 955 DNA Sequence Data and the Discovery of Ecological Diversity in Viruses and Plasmids.
*I. Mitrica

11:45 956 The Shell Game: Population Structure and Fusion in Hydroids.
*R. Grosberg, M. Hart

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Room Henn 200
Wednesday, June 24

10:30-12:15 **SESSION 105: VIRAL EVOLUTION**
Chair: Holly Wichman

10:30 957 Host Range Expansion in Bacteriophage: Interaction Patterns in Nature Can Predict the Results of Evolution in the Laboratory.
*G.P. Krukonis, F.M. Cohan

10:45 958 Surveying the Adaptive Landscape in an RNA Virus.
*C.L. Burch, L. Chao

11:00 959 Experimental Adaptation of a Virus: Temporal Pattern of Substitutions.
*J. Bull, H.A. Wichman, M. Badgett, L. Scott

11:15 960 Serial Evolution of Multiple Resistance.
*M.J. Brauer

11:30 961 Molecular Basis and Dynamics of Viral Adaptation to Novel Hosts.
*W.D. Crill, J.J. Bull, H.A. Wickman

11:45 962 Experimental Adaptation of a Virus: Molecular Mechanisms.
*H. Wichman, J.J. Bull, M. Badgett, L. Scott

12:00 963 Genotype-Phenotype Dynamics in a Virus Evolving Under Selection.
*M. Rain, H.A. Wichman

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Room IRC 4
Wednesday, June 24

10:30-12:30 **SESSION 106: QUANTITATIVE GENETICS OF LIFE HISTORY VARIATION**
Chair: Jamie Smith

10:30 965 Endocrine Genetics of Life History Variation in the the Wing-Polymorphic Cricket, *Gryllus firmus* .
*A.J. Zera

10:45 966 Physiological Genetics of the Trade-Off between Ovarian Growth and Flight Capability in the Wing-Polymorphic Cricket, *Gryllus firmus*.
*T.M. Rooneem, A.J. Zera

11:00 967 Genetics of Inbreeding Load in *Mimulus*.
*J. H. Willis

11:15 968 Consequences of Hierarchical Allocation for the Evolution of Life-History Trade-Offs.
*A.C. Worley, D. Houle, S.C.H. Barrett

11:30 969 Quantitative Genetics of Metamorphosis: Can Larval and Adult Forms Evolve Independently?
*J.M. West

11:45 970 Genetic Basis of the Trade-Off between Offspring Number and Quality: Experiments in the Bank Vole.
*E. Koskela, T. Mappes

12:00 971 Cancelled

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Room Hebb Th
Wednesday, June 24

10:30-12:30 **SESSION 107: MOLECULAR EVOLUTION - MICROSATELLITES**
Chair: Guillermo Orti

10:30 972 Microsatellite Evolution in the Polistinae Subfamily of Wasps.
*Y. Zhu, D.C. Queller, J.E. Strassmann

10:45 973 Phylogenetic Distribution of Microsatellite Length Variation within and between Species.
*G. Orti, I. Farias

11:00 974 Allelic Homoplasy in Tumor Necrosis Factor Microsatellite.
*K.D. Makova, R.J. Baker

11:15 975 Microsatellite Variation in *Daphnia pulex* and *pulicaria* of Western Oregon.
*J. Hicks, M. Lynch

11:30 976 Assessing the Utility of Microsatellite Data in Phylogenetic Studies of Closely Related Species.
*C.M. Durando, R. DeSalle, W.J. Etges, M. Wasserman

11:45 977 The Ages of Human Populations: A Study of Y Chromosome Microsatellites.
*J.K. Pritchard, M.T. Seielstad, A. Perez-Lezaun, M.W. Feldman

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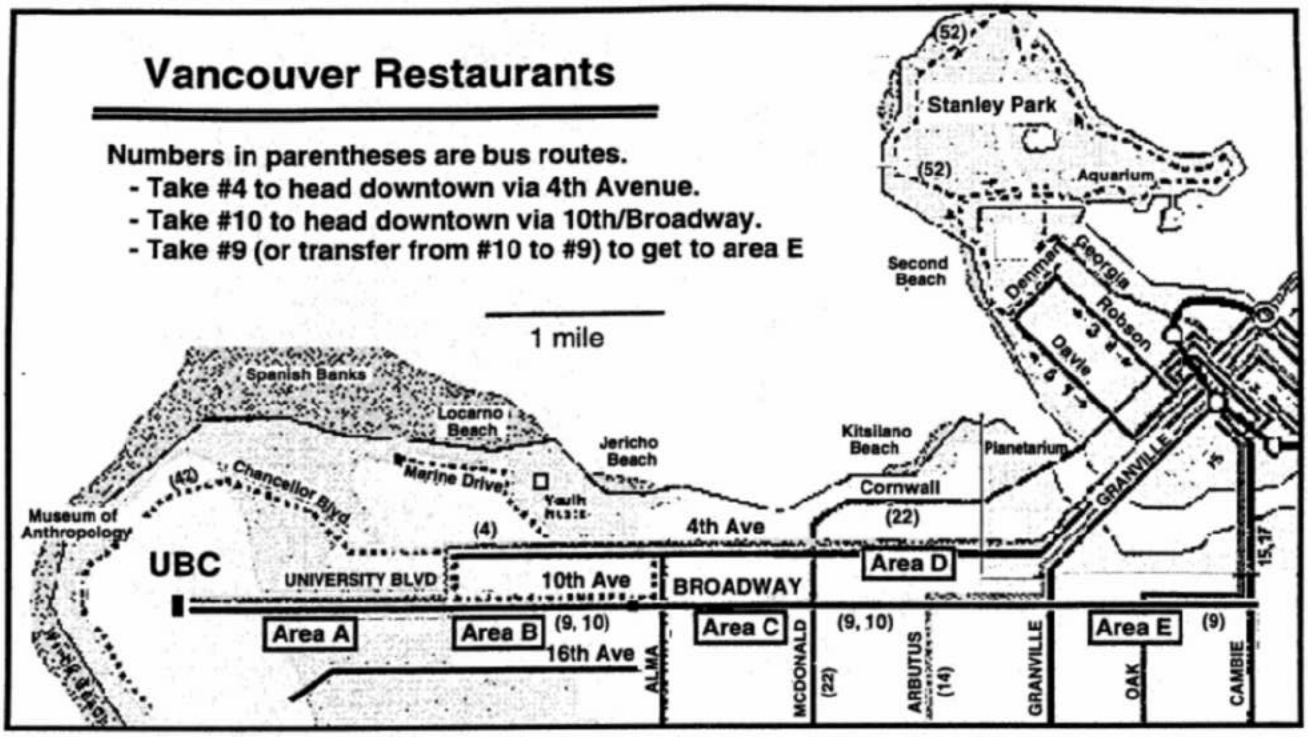
Vancouver Restaurants

Numbers in parentheses are bus routes.
- **Take #4 to head downtown via 4th Avenue.**
- **Take #10 to head downtown via 10th/Broadway.**
- **Take #9 (or transfer from #10 to #9) to get to area E**



0.25 miles (5 minute walk)

Area A

UBC Village 5700 block of University Blvd. Restaurants: McDonald's, Spaghetti-Spaghetti, Benny's Bagels, Village Chinese Restaurant, Second Cup Coffee, International Food Fair (mall food), UBC Campus Pizza, Red Leaf Cantonese. Recommended: Benny's Bagels for breakfast, lunch or coffee. $

1 mile (15 minute walk)

UBC Golf Club 224-7799. 5185 University Blvd. Lunch from 11:30-1:30 (M-F) and Sunday brunch. $$

1.75 miles (35 minute walk)

Area B

Many good restaurants between 4300-4600 W 10th. Particularly good are:

Chinese Impression Szechuan 228-0039, 4544 W 10th. Nice Szechuan dishes, lots of room. $$

Raku Kushiyaki 222-8188, 4422 W 10th. Tasty and unusual Japanese dishes. $$$

3 miles

Athene's 731-4135, 3618 W Broadway. Delectable Greek restaurant. $$$

Montri Thai 738-9888, 3629 W Broadway. Spicy, tasty Thai. $$

4 miles

Area C

Many good restaurants between 2800-3100 W Broadway. Particularly good are:

Calhouns 737-7062, 3035 W Broadway. Cafe with several cheap dinner options. $

Tokyo Joe's 739-4791, 2825 W Broadway. Hard to beat for cheap Japanese food. $.

Lumiere 739-8185, 2551 (#8) W Broadway. Inventive French. $$$$

Quattro 734-4444, 2611 4th. Excellent italian. $$$

5 miles

Area D

Many good restaurants between 1800-2300 W 4th Ave. Particularly good are:

Sophie's Cosmic cafe 732-6810, 2095 W 4th. Funky diner with best breakfast in town. $$

Surat Sweet 733-7363, 1938 W 4th. Delicious vegetarian curries and thalis. $$

6-10 miles (on Broadway)

Vij's 736-6664, 1453 W Broadway. Innovative Indian restaurant with a Pacific Northwest influence. Amazing! Line up early, reservations aren't accepted. $$$

Area E

Raga restaurant 733-1127, 1177 W Broadway. Delicious Indian food, especially the tandooris. $$

Bamboo Leaf Malaysian 731-6333, 1016 W. Broadway. Cozy place with delicious, authentic Malaysian food. $$

Wimaan Thai 730-9963, 1063 W Broadway. Delicious Thai food, with great service. The food ranges from mild to hot. $$

Tojo's 872-8050, 202-777 W Broadway. THE top-of-the-line Japanese restaurant in Vancouver. $$$$

Afghan Horseman 873-5923, 455 W Broadway. Only in Vancouver do you find an Afghan restaurant next door to a Russian restaurant and a block from an Ethiopian restaurant! Delicious kabobs and vegetarian plates. $$

Queen Sheba's (Ethiopian) restaurant 877-0189, 382 W Broadway. Amazing ethiopian food. $$

6-10 miles (Downtown)

Delilah's 687-3424, 1739 Comox (downtown near Denman). Hip restaurant with innovative set menus at $18 or $35 and killer martinis (go early on Friday or Saturday). $$$

Fish House in Stanley Park 681-7275, Stanley Park (downtown). A leading contender for best seafood restaurant in Vancouver. Elegant. $$$$

C 681-1164, 1600 Howe St (downtown). Best seafood restaurant; great patio. $$$

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