

## Program at a Glance

Sunday 11.May.2008

09:00-4:30 Symposium for Women entering Ecology and Evolution Today (SWEET)

5:00-9:00 Registration in Woodward Lobby IRC

6:00-7:00 **Public Lecture IRC2, Ian Stirling**, Canadian Wildlife Service

7:00-9:00 Reception, Woodward Lobby

Monday 12.May.2008

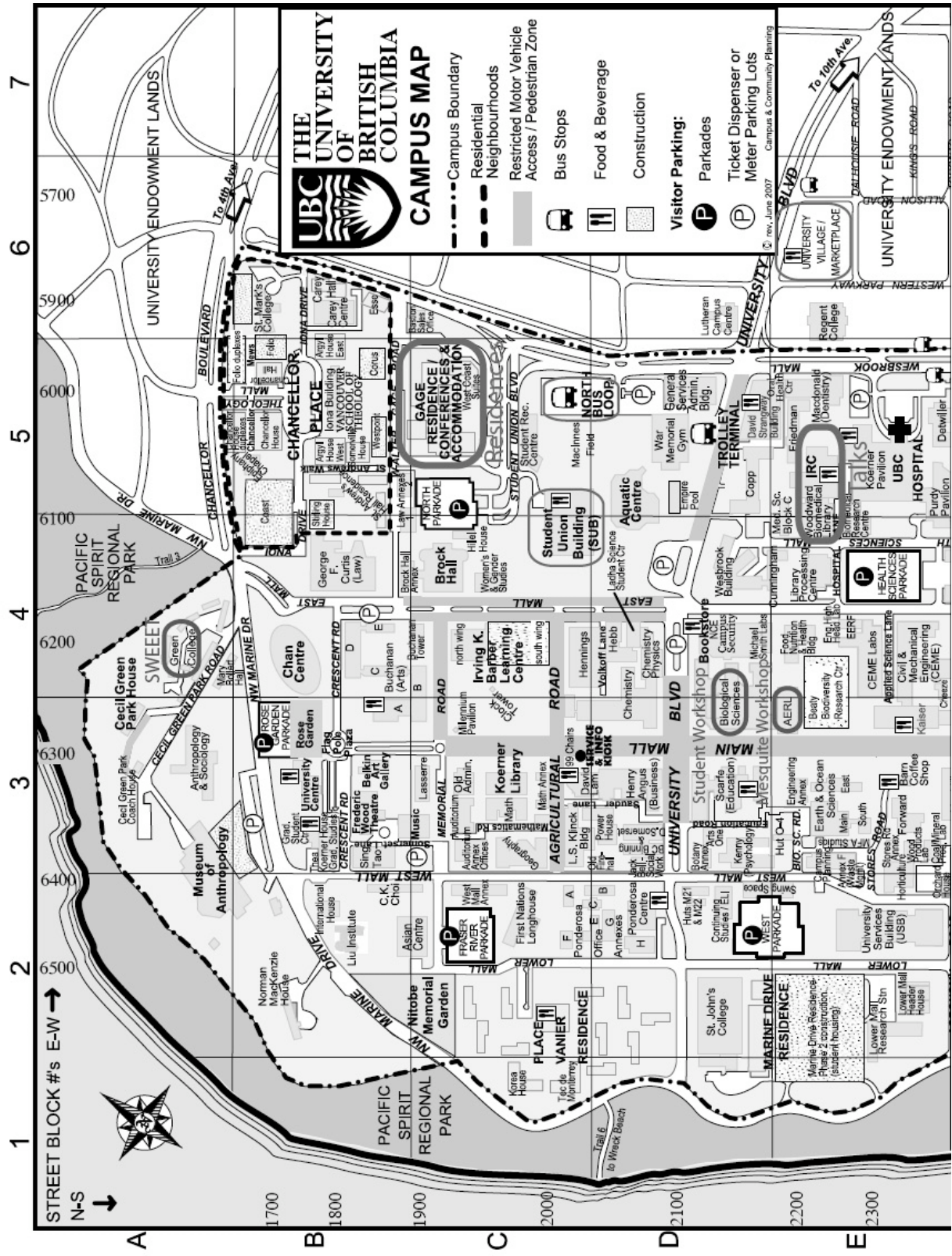
	IRC1	IRC3	IRC4am IRC2pm	IRC6
8:10	Invasive Species	Plant Ecology	Aquatic Communities	Symposium on Evolutionary Applications
10:00	Coffee			
10:30	Conservation	Plant Ecology	Host-Pathogen	Continued
12:15	Lunch			
1:30	Plenary Session, Graham Bell			
2:30	Disturbance	Plant Ecology	Predation	Salmonid Genetics
3:30	Coffee			
4:00	Evolution & Ecology	Polyploidy	<b>CSEE General Business Mtg</b>	NSERC student & postdoc programs
5:00	<b>Poster Session</b>			

Tuesday 13.May.2008

	IRC1	IRC3	IRC4am IRC2pm	IRC6
8:15	Evolution	Conservation	Population genetics	Symposium to Honour Ram Myers
10:00	Coffee			
10:30	Plant Evolution / Genetics	Conservation / Genetics	Biodiversity	Continued
12:00	Lunch – Student Workshop (Bio Sci 2000)			
1:30	Plenary Session, Michel Loreau			
2:30	Evolution	Conservation	Consumer / Resource	Reproductive Biology
3:30	Coffee			
4:00	Nutrients	Conservation	Interactions	<b>NSERC Review</b>
6:00	<b>Buses to Aquarium</b>			

Wednesday 14.May.2008

	IRC1	IRC3	IRC4am IRC2pm	IRC6
8:10	Social Behaviour	Mating Systems	Climate Change	Symposium on Metacommunities
10:00	Coffee			
10:30	Evolutionary Ecology	Reproductive Biology	Plant Ecology	continued
12:15	Lunch			
1:30	Plenary Session, Isabel Côté			
2:30	Conservation	Parent / Offspring	Insect Ecology & Evolution	Theoretical & Statistical Ecology
3:30	Coffee			
4:00	Evolution	Genetics	Community Ecology	Speciation



Sunday, 11.May.2008

**CSEE Council Meeting**

IRC G42  
2PM–5PM

**Symposium for Women Entering Ecology and Evolution Today (SWEEET)**

(separate registration required)  
Green College  
9AM–4:30PM

**Mesquite Workshop** (separate registration required)

AERL 107  
Sat/Sun

**Meeting Registration**

Woodward Lobby (IRC)  
5-9PM

**Public Lecture:**

**Consequences of climate warming on polar bear and seals  
in western Hudson Bay and the High Arctic**

Dr. Ian Stirling, Canadian Wildlife Service

IRC 2  
6-7PM

**Opening Reception**

Woodward Lobby (IRC)  
7-9PM

Monday, 12.May.2008

**IRC6 Symposium: Evolutionary Applications**, Organizers: Louis Bernatchez, Michelle Tseng

8:10		Introduction
8:20	Sally Aitken UBC	Long time running: The potential for adaptation or migration in forest trees in response to climate change
8:40	Spencer Barrett U.Toronto	Reproductive systems and evolution during plant invasion
9:00	Jacques Brodeur U. Montreal	Fever in crickets infested by entomopathogenic fungi : from behavior to the molecule
9:20	Troy Day Queen's U	The evolutionary epidemiology of infectious diseases
9:40	Dany Garant U. Sherbrooke	Climate change and the quantitative genetics of reproductive traits in birds
<b>10:00</b>	<b>Coffee Break</b>	
10:30	Mart Gross U. Toronto	What is wild?
10:50	Andrew Hendry McGill U	Human impacts on adaptive radiation
11:10	Judy Myers, UBC Jenny Cory, SFU	Applying evolutionary principles to improve biological control practice
11:30	Loren Rieseberg UBC	Evolutionary Genomics of Invasive Plants
11:50	Ric Taylor UBC	The rise and fall of sympatric and parapatric species: the role of habitat integrity

**IRC 1 Invasive species**

8:30	Sarah Dudas (Chair) Oregon State U.	Matrix demographic models as a tool for investigating marine invertebrate invasions
8:45	Anders Goncalves da Silva, UBC Ok.	Population genetics of the Monk parakeet in native and naturalized ranges: implications for invasion success
9:00	Lisa Jones McGill U.	Colonization and succession of invasive driessenid mussels
9:15	Michael Rennie U. Toronto Miss.	Assessing the role of invasive species on the growth and condition of lake whitefish
9:30	Dominique Roche McGill U.	Is it worth playing ecological roulette? Toward an applied integrative framework to evaluate invasive species eradication
9:45	Bronwyn Williams U. Alberta	Co-invasion by crayfish and their symbiotic worms

**IRC 3 Plant Ecology**

8:30	Diana Robson Manitoba Museum	Flower-Visitor Composition in Tall-grass Prairie
8:45	Antonina Internicola U. Lausanne	When should a food-deceptive plant species flower?
9:00	Jonathan Bennet U. Alberta	Temporal patterns in pollinator visitation following mycorrhizal suppression
9:15	Steven Kembel UC Berkeley	Local and regional influences on the diversification of leaf ecological strategies
9:30	William Cornwell UBC	Regulation of carbon isotope discrimination during photosynthesis: Results from a global database
9:45	Matthew King UBC (Chair)	Evidence of a widespread distribution of <i>Carex macrocephala</i> during the Last Glacial Maximum

**IRC 4 Aquatic Communities**

8:30	John Richardson UBC	Controls on stream and riparian foodwebs by cross-ecosystem subsidies
8:45	Marta Coll Monton Dalhousie	Impacts of historical degradation on ecosystem structure in Mediterranean Sea food webs
9:00	Jennifer Gow (Chair) UBC	Ecological predictions lead to the discovery of a benthic-limnetic sympatric species pair of threespine stickleback
9:15	Ingrid Ng U. Guelph	Effects of logging on lacustrine zooplankton communities
9:30	Stephen Cole St. Francis Xavier U.	Spatial Scales of Variability in Intertidal invertebrates and Seaweeds from the Gulf of St. Lawrence
9:45	Margot Hensing- Lewis, Oregon St. U.	Determining seagrass-macroalgae interactions along an upwelling-influenced nutrient gradient

**10:00-10:30 Coffee Break****IRC 1 Conservation**

10:30	Frédéric Guillaume UBC (Chair)	Predicting population fitness and time to extinction in small fragmented populations
10:45	Jacob Goheen UBC	Of mice and megaherbivores: demographic bottlenecks and resource palatability in African savannas
11:00	Emily Darling SFU	Interaction between fishing and coral bleaching on Kenyan reefs moderated by disturbance history
11:15	Brendan Connors UBC	Trophic transmission of sea lice in Pacific salmonids
11:30	Melanie Dionne U. Laval	MHC gene diversity and pathogen resistance in Atlantic salmon
11:45	Katie Gibbs U. Ottawa	Assessing the effectiveness of endangered species legislation
12:00	Joseph DiBattista McGill U.	A genetic assessment of polyandry and breeding site fidelity in lemon sharks

**IRC 3 Plant ecology**

10:30	Kathryn Flinn (Chair) McGill U.	Environmental and spatial controls on plant community composition in wetlands within an upland forest
10:45	Sarah Pinto U. Guelph	The importance of habitat & dispersal for violet distribution
11:00	Karen Samis U. Toronto	Genetic variation across species geographical ranges: the central-marginal hypothesis and beyond
11:15	Sébastien Dupuis UQ Rimouski	Preindustrial forests in the balsam fir-yellow birch bioclimatic zone in eastern Canada
11:30	Chris Sears UBC	Systematic studies in the North American <i>Crepis</i> agamic complex: evidence from morphology, flow cytometry and cpDNA sequence data
11:45	Caroline Longtin St. Francis Xavier U.	The distribution of epiphytes across environmental stress gradients and factors limiting recruitment on hosts
12:00	Scott Burley St. Mary's U.	Predictors of successional status in coastal barrens

**IRC 4 Host pathogen**

10:30	Mario Pineda-Krch UC Davis	Ecological dynamics and the basis for sympatric phenotypic diversification [Co-authors: R. Svanbäck, M. Doebeli]
10:45	Samuel Alizon Queen's U.	Co-infections and virulence evolution
11:00	Maarten Voordouw U. Victoria (Chair)	Male reproductive success in the malaria vector <i>Anopheles gambiae</i>
11:15	Guy Drouin U. Ottawa	Increased gene conversion in pathogenic bacteria
11:30	Jessamyn Manson U. Toronto	Consumption of "toxic" nectar alkaloids reduces pathogen load in infected bumble bees
11:45	Amy Hurford Queen's U.	Autoimmune disease and the evolution of molecular mimicry
12:00	Art Poon BC Centre for Excellence in HIV/AIDS	Mapping complex phenotypes in HIV-1 by phylogenetic and machine learning methods

**12:15 – 1:30 LUNCH**

## Plenary Session

1:30 IRC2

Graham Bell

### Adapt, or Die

#### IRC 1 Disturbance

2:30	Jill Johnstone U. Saskatchewan	Resilience of black spruce forests to changes in fire regime
2:45	Alison Wardlaw U. Western Ontario	Genetic structure of three yeast species: no sex, some sex, and lots of sex. [Co-authors: Tanya Berkers, Karen Man, and Marc-André Lachance]
3:00	Jeremy Lundholm St. Mary's U.	Post-hurricane vegetation recovery in Point Pleasant Park, Halifax, NS
3:15	Paul Richardson U. of Guelph (Chair)	Biodiversity and stability in the restoration of a high-stress ecosystem

#### IRC 3 Plant Ecology

2:30	Lonnie Aarssen Queen's U. (Chair)	Offspring for the next generation: most are produced by small plants within herbaceous populations
2:45	Andrew MacDonald U. Toronto	Natural enemies and fitness in Common Ragweed
3:00	Sina Adl Dalhousie U	Soil functional diversity indices along plant diversity gradient
3:15	Stephen Heard U. New Brunswick	Population regulation of plants by insect herbivores

#### IRC 2 Predation

2:30	Douglas Morris Lakehead U.	Competition, apparent predation risk, and habitat selection
2:45	Ann McKellar McGill U.	How predators and resource levels influence sex ratio in guppies
3:00	Paul Mages SFU	The effects of sea lice on Predation risk of Juvenile Pink salmon
3:15	Annie-Éve Gagnon U. Laval (Chair)	Detecting intraguild predation between arthropod natural enemies using a molecular approach

#### IRC 6 Salmonid genetics

2:30	Michael Morrissey U. Guelph	The quantitative genetics of natural selection in a salmonid fish
2:45	Christian Roberge U. Laval,	Transcriptomics of behavioural plasticity in Atlantic salmon [laboratoire Bernatchez]
3:00	Eric Normandeau U. Laval	Domestication, hybridation and gene expression in <i>Salmo salar</i>
3:15	Wendy Tymchuk UBC (Chair)	Comparative gene expression patterns among and within Atlantic Salmon populations of the Bay of Fundy

**3:30 – 4:00 Coffee Break**

**4:00-5:00 IRC 2 CSEE General Business Meeting**

**4:00-5:00 IRC 6 Tiffany Lancaster**

**NSERC Student and Post-Doctoral Programs**

**IRC 1 Evolution and Ecology**

4:00	Angeline Tillmanns U. Ottawa	The merging of evolutionary and ecological time scales: Implications for planktonic food webs
4:15	Jamie Tam St. Francis Xavier	Testing the Abundant Centre Hypothesis at Regional and Local Scales using NW Atlantic Mussels
4:30	Danusha Foster U. Calgary	Causes of wing wear in bumble bees ( <i>Bombus</i> spp.)
4:45	Kai M. A. Chan UBC (Chair)	Value and advocacy in ecology and evolution: pitfalls, prospects, and CSEE policy

**IRC 3 Polyploidy**

4:00	Root Gorelick Carleton U.	Does polyploidy induce diversity in seed plants?
4:15	Keith Adams UBC	Subfunctionalization of genes duplicated by polyploidy in response to abiotic stress
4:30	Allen Liu UBC	Molecular adaptation and expression evolution following duplication of organellar ribosomal protein genes
4:45	Aleeza Gerstein UBC (Chair)	Utilizing experimental evolution to estimate the dominance of novel beneficial mutations

**5:00-7:30 IRC Lobby Poster Session**

**7:30 - ?? Social at Pit Pub** – After the poster session, come out and socialize at the Pit Pub in the Student Union Building on campus. The Pit Pub has agreed to offer us inexpensive drinks and has reasonably priced pub food.

Tuesday, 13.May.2008

**IRC6 Symposium in Honour of Ram Myers**, Organizer: Jeff Hutchings

8:20		Introduction
8:30	Daniel Pauly UBC	On the emergence of fisheries conservation biology
9:00	Ray Hilborn U. Washington	What meta-analysis of recruitment data tells us about overfishing: from Maximum Sustainable Yield to Pretty Good Yield
9:30	Julia Baum Scripps, San Diego	Inspired by Ram: data-driven marine conservation biology
<b>10:00</b>	<b>Coffee Break</b>	
10:30	Derek Roff UC Riverside	Life history evolution: a Ram Myers' perspective
11:00	Robin Waples National Marine Fisheries Center	Anthropogenic evolution in a species at risk: a confluence of salmonid life history, altered selective regimes, and applied conservation biology
11:30	Jeff Hutchings Dalhousie U.	On threshold traits, conservation biology, Ram, and <i>r</i> .

**IRC 1 Evolution**

8:15	Michael Doebeli UBC	Cooperation made easy
8:30	Sijmen Schoustra U. Ottawa	Distribution of fitness effects of beneficial mutations, an experimental study
8:45	Steven Vamosi U. Calgary	Community phylogenetics: progress to date and prescriptions for the future
9:00	Jana Vamosi U. Calgary	Concentrated extinction risk in small clades of angiosperms
9:15	Susan Bertram Carleton U.	Cricket Behavioural Syndromes [Co-author: Alexander Wilson]
9:30	Sam Yeaman UBC	Explorations at the migration-selection threshold
9:45	Kay Hodgins UBC (Chair)	Natural selection on floral traits through male and female function in wild populations of the heterostylous daffodil <i>Narcissus triandrus</i>

### IRC 3 Conservation

8:15	Emily J. Herdman UBC Okanagan	Habitat use of the Nuttall's cottontail in a fragmented landscape
8:30	Jason Fisher (Chair) UVIC / Alberta Research Council	Scale of habitat selection by mammals correlates with body size
8:45	Fanie Pelletier Centre for Population Biology, London	Seasonal phenotypic plasticity of body mass in wild sheep
9:00	Denis Reale UQAM	Personality affects mating success in bighorn rams
9:15	Justin Roy U. Laval	Negative density-dependent dispersal in American black bear
9:30	Allan McDevitt UC Dublin	A new challenge for caribou management in the Rockies: reconciling present-day demographics with Quaternary evolutionary history
9:45	Jeffrey Higdon U. Manitoba / DFO	Geographic range sizes of world pinnipeds (Carnivora: Mammalia)

### IRC 4 Population Genetics

8:15	Jennifer Chambers U. Sherbrooke	Population Genetic Structure of the Eastern Chipmunk
8:30	Karolyn Keir UBC	The population genetics of Pacific dogwood ( <i>Cornus nuttallii</i> )
8:45	Catherine Cullingham NRDPFC - Trent U.	Differential permeability of rivers to raccoon gene flow corresponds to rabies incidence in Ontario, Canada
9:00	Stacey Lee Thompson Canadian Forest Service	Biased gene flow in contact zones of exotic and native poplars
9:15	Jeannette Whitton UBC	Evidence for interspecific gene flow from analysis of geographic patterns of genetic variation
9:30	Ian Bradbury Dalhousie	Contrasting gene flow, morphology, and reproductive isolation in postglacially derived allopatric and sympatric ecotypes of rainbow smelt
9:45	Moira Scasitelli UBC (Chair)	Hybridization and introgression of adaptive traits in annual sunflowers?

### 10:00-10:30 Coffee Break

### IRC 1 **Plant Evolution/Genetics**

10:30	Aron Fazekas U. Guelph (Chair)	A barcode for plants? Similar resolution rates among multiple combinations of plastid loci
10:45	Katrina Dlugosch UBC	Rapid loss of inbreeding depression in founding populations of an introduced plant
11:00	Lawrence Harder U. Calgary	The role of structural and life-history tradeoffs in plant architecture: a model study of <i>Protea lepidocarpodendron</i> [Co-authors: Brendan Lane and Premysla Prusinkiewicz]
11:15	Jason Holliday UBC	Diversity and selection in cold hardiness-related candidate genes in Sitka spruce
11:30	Prasad Kesanakurti U. Guelph	Evaluation of candidate barcodes to characterise a local Ontario flora
11:45	Kermit Ritland UBC	Genetical genomics of spruce

### IRC 3 **Conservation/Genetics**

10:30	Paul Wilson Trent U.	Genetic characterization of the eastern coyote
10:45	Gregory Wilson U. Alberta (Chair)	Landscape genetics of western Canadian deer: implications for the spread of chronic wasting disease
11:00	Tara Fulton U. Alberta	Systematic and biogeographic implications for the true seals (Phocidae, Pinnipedia) from a novel multiple gene phylogeny
11:15	Philippe Henry UBC Okanagan	In situ and ex situ conservation genetics of the endangered Amur tiger
11:30	Stephen Petersen Trent U.	Kin-related spatial genetic structure in female polar bears ( <i>Ursus maritimus</i> ) with and without cubs
11:45	Elizabeth G. Boulding, U. Guelph	Conservation Genomics of Atlantic Salmon

### IRC 4 **Biodiversity**

10:30	Rachelle Desrochers U. Ottawa	Landscape correlates of change in species richness
10:45	Michael Pedruski Queen's U.	Effect of dispersal and regional heterogeneity on biodiversity of artificial pond metacommunities
11:00	Bria Starzomski Dalhousie U.	Local and regional species richness
11:15	Melissa Ranalli Saint Mary's U.	Functional group richness and greenroof ecosystem functions
11:30	Lyanne Burgoyne St. Francis Xavier	Habitat complexity and estuarine biodiversity in the southern Gulf of St. Lawrence: patterns and predictions.
11:45	Zoe Lindo (Chair) U. Victoria	Scale dependent diversity patterns in arboreal mites

**12:00 – 1:30 LUNCH**

## 12-1:30PM Student/Post-doctoral Workshop: Biological Sciences 2000

“Searching for and landing a job: How to get prepared for academia”

Daniel Promislow, Department of Genetics, University of Georgia

(Pick up a bag lunch in IRC lobby and bring it to the workshop in Biological Sciences.)

### Plenary Session

1:30 IRC2

Michel Loreau

### Food webs, biodiversity and ecosystem functioning

#### IRC 1 Evolution

2:30	Damian Elias UBC (Chair)	Complex signal evolution in a diverse group of jumping spiders
2:45	Robert Laird Carleton U.	The evolution of senescence through limits to selection on repair mechanisms
3:00	Tim Boland Carleton U.	Interactions in the bacterial world - an antibiotic resistance paradigm
3:15	Gabriel Perron U. Oxford	The effect of immigration on bacterial adaptation

#### IRC 3 Conservation

2:30	Elly Chmelnitsky U. Manitoba/DFO	Classification and comparison of beluga whale, <i>Delphinapterus leucas</i> , vocalizations
2:45	Dennis Murray Trent U.	Temporal shifts in density dependence among North American ducks
3:00	Christian Pengelly U. Calgary	Does forestry impact the distribution of bumblebees across floral resources?
3:15	Marylene Boulet Duke U. (Chair)	Do Odorants Advertise the Genetic Quality of Female Lemurs?

#### IRC 2 Consumer Resource Interactions

2:30	Claire de Mazancourt McGill U.,	Evolution of luxury consumption
2:45	Angélique Dupuch UQ à Trois-Rivières	Testing the effects of inherent habitat riskiness and resource distribution on simultaneous habitat selection by predators and prey
3:00	Rebecca Tyson UBC Okanagan	Specialist predators and the snowshoe hare population cycle: A modelling study
3:15	Karen Hodges(Chair) UBC Okanagan	Snowshoe hare dynamics in fragmented western forests

**IRC 6 Reproductive biology**

2:30	Erica Jeffery (Chair) SFU	Primate reproductive proteins: sperm competition and molecular evolution
2:45	Howard Rundle U. Ottawa	Good genes and the intersex genetic correlation for fitness across environments
3:00	Albrecht Schulte-Hostedde Laurentian U.	Phenotypic correlates of ejaculate investment in red squirrels
3:15	Tristan Long UC Santa Barbara	Sexual conflict over adult locomotory behaviour in <i>Drosophila melanogaster</i>

**3:30 – 4:00 Coffee Break****IRC 1 Nutrients**

4:00	Carrie Woods (Chair) U. Guelph	Microbes in the black spruce forest canopy: their role in nitrogen transformation
4:15	Kevan Berg U. Guelph	Community patterns and nitrogen dynamics of epiphytic lichen in northern Ontario conifer plantations
4:30	Jonathan Whitely McGill U.	Distribution of nitrogen-fixing cyanobacteria in boreal forest moss and implications for nutrient cycling
4:45	Suzanne Tank SFU	Elevated pH regulates bacterial carbon cycling in lakes with high photosynthetic activity
5:00	Mehdi Cherif McGill U.	A theoretical study of interactive effects of herbivores and decomposers on nutrient recycling
5:15	Rolf Vinebrooke U. Alberta	Synergistic effects of nutrients on alpine primary producers: A meta-analysis

**IRC 3 Conservation**

4:00	Jeff Bowman Ontario Ministry of Natural Resources	Effects of feral mink on wild mink in Canada
4:15	Bronwyn Rayfield U. Toronto	Incorporating consumer-resource spatial interactions in reserve design
4:30	Jason Pither UBC Okanagan	The implications of functional equivalence for paleoenvironmental research: a simulation study
4:45	Jacqueline Ngai UBC	Habitat size and complexity mediate predator effects on nitrogen cycling
5:00	Belinda Ward-Campbell U. Guelph	Short-term Effects of Drain Maintenance on Fish Assemblages Inhabiting Agricultural Drains in Southwestern Ontario
5:15	Marco (Chair) Festa-Bianchet U. de Sherbrooke	Alpine ibex life-history strategy: life in the slow lane

## IRC 2 Species interactions

4:00	Edd Hammill (Chair) U. Victoria	Benefits and costs of inducible defenses
4:15	Anita Narwani U. Victoria	Resource species diversity modifies rates of consumption: palatability matters
4:30	Pavel Kratina U. Victoria	Functional responses modified by indirect effects
4:45	Jason Rip U. Guelph	The importance of trophic interaction strength on the stability of an experimental community
5:00	Shawn Leroux McGill U.	The subsidy hypothesis and the strength of trophic cascades across ecosystems
5:15	Spencer Wood UBC	An empirical assessment of the predictability of community-wide species interactions

**4-5:30PM Matt Vincelli and Dr. Andrew Woodsworth (NSERC)**

**IRC 6 NSERC International Review and GSC Structure Review  
(Presentation and Q&A)**

**6-7PM Buses to Aquarium**

**7-10PM Reception at Aquarium**

**9:30-10:30 Buses return to UBC**

# Ecology & Evolution

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**Victor Rico-Gray and Paulo Oliveira**  
PAPER \$28.00



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Wednesday, 14.May.2008

**IRC6 Symposium: Food Webs in metacommunities,**  
Organizers: Andrew Gonzalez and Shawn Leroux

8:10		Introduction
8:20	Kevin McCann U. Guelph	Flexible food webs in space and time
8:45	J. Rasmussen U. Lethbridge	A nested hierarchy approach to modelling food webs in space
9:10	Tarik Gouhier McGill U.	Dynamical marine metacommunities
9:35	Pedro Peres-Neto UQAM	Empirical and analytical challenges in trophic approaches to aquatic metacommunities
<b>10:00</b>	<b>Coffee Break</b>	
10:30	Peter Abrams U. Toronto	Adaptive movement and interactions in metacommunities
11:55	Heather McPhee U. Alberta	Time to kill in heterogeneous landscapes: implications for functional responses in a multi-prey system
11:20	Pradeep Pillai McGill U.	A patch-dynamic framework for studying food-web metacommunities
11:45	Jon Shurin UBC	Why do larger habitats have longer food chains?

**IRC 1 Social behaviour**

8:30	Leticia Aviles UBC	Insect size, scaling relationships, and the geographical distribution of spider sociality
8:45	Steven Ferguson DFO Canada	How Social Behaviour Links Environment and Body Size
9:00	Jennifer Guevara UBC	Sociality and species coexistence in the spider genus <i>Anelosimus</i>
9:15	Sandra Rehan Brock U.	Evidence for transitions to sociality in the small carpenter bees (Apidae, Ceratinini)
9:30	Jessica Purcell UBC	Gradients of precipitation and ant abundance may contribute to the altitudinal range limit of subsocial spiders: insights from a transplant experiment
9:45	Patricio Salazar UBC (Chair)	The joint evolution of life history and sociality in spiders

### IRC 3 **Mating systems**

8:30	Jessica Ward (Chair) U. Toronto	Divergent female responses to potential mates, rather than divergent male traits, explains asymmetric assortative mating patterns between two lineages of a freshwater fish
8:45	Nathaniel Sharp U. Toronto	Assortative mating in <i>Drosophila melanogaster</i>
9:00	Minyoung Wyman U. Toronto	Condition dependence in the sexually dimorphic <i>Drosophila melanogaster</i> transcriptome
9:15	Leithen M'Gonigle UBC	Assortative mating and spatial structure in hybrid zones
9:30	Janice Ting Carleton U.	Geographic variation in male mate preference in damselflies
9:45	Mario Vallejo-Marin U. Toronto	Selfing through harsh times: The role of phenotypic plasticity in the evolutionary transition toward self-fertilization

### IRC 4 **Climate change**

8:30	Tongli Wang UBC	Integrating ecological and genetic effects to predict responses of lodgepole pine populations to climate
8:45	Chris Harley UBC	The impacts of warming on intertidal invertebrate communities
9:00	Xavier Morin McGill U.	Relating range size and ecological space in woody species
9:15	Colin Garroway Trent U.	Is there evidence for hybridization as a result of climate change induced range expansion in flying squirrels?
9:30	Paul Weidman U of Alberta	Climate Change and the Phenological Plasticity of Zooplankton in Mountain Lakes
9:45	Isla Myers-Smith U. Alberta (Chair)	Shrubline advance in alpine tundra of the Kluane Region: Tall willow expansion alters ecosystem function

### **10:00-10:30 Coffee Break**

### IRC 1 **Evolutionary Ecology**

10:30	Laura White UBC (Chair)	Invasion and restructuring of an intertidal community
10:45	Travis Ingram UBC	Adaptive Radiation and Community Assembly in Pacific Rockfish ( <i>Sebastes</i> )
11:00	Sandra Ann Binning McGill U.	Eco-morphological mismatch in an African cichlid fish: Implications for biocontrol
11:15	Scott Colborne U. Guelph	Field experimental test of competition between sympatric sunfish ecomorphs
11:30	Francesco Santini U. Toronto	Was the radiation of teleost fish linked to the Fish Specific Genome duplication
11:45	Lynda Corkum U. Windsor	Behavioural responses of female round goby, an invasive fish, to steroidal pheromones
12:00	Grigoris Kylafis McGill U.	Ecological and Evolutionary Consequences of Niche Construction

**IRC 3 Reproductive biology**

10:30	Aneil Agrawal U. Toronto	Selection for sex in heterogeneous habitats
10:45	Miriam Ferrer Acadia U.	Turnover rates of self-incompatible angiosperms lineages
11:00	Andrew Simons Carleton U.	Evolution under uncertainty: diversification and phenotypic plasticity in the timing of seed germination
11:15	Sarah Yakimowski U. Toronto	Evolutionary Genetics of Sexual System Hybridization
11:30	Jay Biernaskie U. Toronto	The effect of competitive contests on sex allocation and selection for unisexuality
11:45	Jennifer Perry U. Toronto	Sexual conflict and nuptial gifts: assessing the evidence in a ladybird beetle
12:00	Christine Parent SFU (Chair)	Intraspecific phenotypic variation in <i>Bulimulus reibischi</i> parallels the adaptive radiation of Galapagos endemic bulimulid snails

**IRC 4 Plant ecology**

10:30	Samson Nyanumba U. Alberta	Can plants predict future environmental conditions?
10:45	Jennifer Lau Saint Mary's U.	Population differentiation between barrens and forest plants
11:00	Brandon Schamp U. Regina	Competition and community assembly in forest communities
11:15	Ping Wang U. Alberta	Exploring relationship between competitive effect and response in 23 grassland species
11:30	Gord McNickle U. Alberta	Plant root foraging behaviour and the marginal value theorem; an experimental test
11:45	Rachel Mayberry SFU	Demography of a rare understory plant, <i>Actaea elata</i>
12:00	Brian Tucker U. Alberta (Chair)	Characterizing the spatial structure of clonal plants: an application to strawberry

**12:15 – 1:30 LUNCH**

**Plenary Session  
1:30 IRC2**

**Isabelle Côté**

**Ecological mythbusting, tropical-style**

**IRC 1 Conservation**

2:30	Andrew Hurly U. Lethbridge	Landmark Use By Rufous Hummingbirds
2:45	Kathryn Aitken Environment Canada/CWS	Resource availability and limitation for cavity-nesting communities in mature forests of British Columbia, Canada [Co-author: Kathy Martin]
3:00	Laura Beaudoin U. Guelph	Consequences of Predator management and Hunting Pressure on the Dispersal of postfledging Mallards
3:15	Alaine Camfield UBC (Chair)	Using demographic data to evaluate management scenarios for streaked horned larks [Co-authors: Scott F. Pearson and Kathy Martin]

**IRC 3 Parent-offspring**

2:30	Darren Johnson Oregon St. U. (Chair)	Genetic links between adult size and larval quality in a marine fish
2:45	Kathryn Morton Memorial U.	Observed tradeoffs in larval fish development
3:00	Laura Weir Dalhousie U.	The influence of competitor number and life history strategy on patterns of paternity in Atlantic salmon
3:15	Miriam Richards Brock U.	Maternal quality and brood allocation decisions in a twig-nesting carpenter bee

**IRC 2 Insect Ecology and Evolution**

2:30	Leanna Lachowsky U. Calgary	Variation in sex ratios of mountain pine beetle <i>Dendroctonus ponderosae</i>
2:45	Alex Chubaty SFU	Mountain pine beetle condition and timing of emergence: who emerges when?
3:00	Nicholas Bartell UNBC	Genetic Analysis of the Western Canadian Mountain Pine Beetle Epidemic: Phylogeography and Long Distance Dispersal Patterns
3:15	Michelle Franklin UBC (Chair)	The role of population structure in determining Bt resistance in cabbage loopers

**IRC 6 Theoretical and Statistical Ecology**

2:30	Sylvie Guenette UBC	Ecosystem modelling of the Peruvian ecosystem: what have we learned?
2:45	Sybille Haeussler UBC	Modeling terrestrial ecosystem diversity and resilience in a changing environment
3:00	Gabriel Gellner U. Guelph	The Geometry of Ecological Stability
3:15	David Delaney McGill U. (Chair)	False negatives: Exactly how reliable is presence-absence data?

**3:30-4:00 Coffee Break****IRC 1 Evolution**

4:00	Arianne Albert SFU (Chair)	The genetics of parallel evolution in sticklebacks
4:15	Rowan Barrett UBC	Natural selection on a major armour gene in threespine stickleback
4:30	Anne Dalziel UBC	Evolution of swimming performance in threespine sticklebacks
4:45	Kerry Marchinko UBC	Natural evidence for the role of underdominance in evolutionary diversification
5:00	Chris Neufeld U. Alberta & BMSC	The role of plasticity in evolution
5:15	Beren Robinson U. Guelph	Evolution of morphological reaction norms when marine stickleback invade Icelandic freshwaters

**IRC 3 Genetics**

4:00	Jessica Abbott Queen's U.	Intersexual genetic correlations as constraints and as adaptations
4:15	John Stinchcombe U. Toronto	Ecological genomics of photoperiod sensitivity
4:30	Alethea Wang U. Toronto	Epistasis Across Multiple Environments
4:45	Emilie Castonguay U. Montréal	Epigenetic silencing of alleles in a clonal hybrid fish
5:00	Donal Hickey Concordia U.	Why do short genes evolve faster?
5:15	Erin Rees (Chair) Trent U.	Genetic simulation modelling: Distinguishing between affects of landscape barriers and habitat corridors on populations

**IRC 2 Community Ecology**

4:00	Mark Vellend UBC	The structure of community ecology
4:15	Eric Lamb U. Saskatchewan	Shoot, but not root, competition reduces community diversity in experimental mesocosms
4:30	Rob McGregor Douglas College	Ground beetle diversity in urban habitat fragments
4:45	Annie Hibbert UQAM	Importance of fallen coarse woody debris to the abundance and diversity of flies in the boreal forest of Quebec
5:00	James Thomson U. Toronto	Altitudinal shifts in bumble bee distribution
5:15	Tyler Smith (Chair) Saint Mary's U.	Distinguishing between neutral and niche community assembly with spatial patterns

**IRC 6 Speciation**

4:00	Arne Mooers SFU	Are "EDGE" species odd and interesting?
4:15	Blake Matthews UBC	Divergent ecosystem effects of ecologically similar copepod species
4:30	Amanda Moehring U. Western Ontario	Genetics of behavioural isolation between two <i>Drosophila</i> species
4:45	Nicole Tunbridge SFU	Reproductive isolation among morphologically variable populations in the genus <i>Collinsia</i>
5:00	Alan Brelsford UBC	Incipient speciation in a warbler hybrid zone
5:15	Arne Nolte (Chair) U. Laval	Divergence in gene regulation at young life history stages of whitefish and the emergence of genomic isolation

**5:30 End of Meeting!**

## Monday, 12.May 4:00-7:30 IRC Lobby Poster Session

### Upper IRC Lobby

Posters will remain up for the entire conference

1	Lonnie Aarssen Queens U.	New Queen's course: Evolutionary Ecology of Humans
2	Angela Aivaz U. Calgary	The Effect of Oddity: To Synchronize or Not to Synchronize?
3	Jordan Bannerman UBC Okanagan	<i>Diplolepis variabilis</i> Gall Communities of the Okanagan Valley
4	Eleanor Bassett Thompson River U.	The effects of grazing on carabid beetles in a semi-arid grassland along an elevational gradient
5	Carolyn Bergstrom U. Victoria	The evolution of asymmetry in flatfishes
6	Bérénice Bougas U. Laval	Gene action in <i>Salvelinus fontinalis</i> : Hybrids versus parental strains
7	Amanda Brown UBC	Timing of Migration and Autumn Control of the Rosy Apple Aphid, <i>Dysaphis plantaginea</i>
8	Cameron Carlyle UBC	Interacting effects of climate-change and disturbance on grassland plant communities
9	Jackson Chu U. Alberta	Hexactinellid Reefs in the Strait of Georgia
10	Bridgette Clarkston U. New Brunswick	The DNA barcode as a tool for species identification in the taxonomically challenging family of red seaweeds
11	Andrea Clouston Carleton U.	Influence of scale on bird distribution in human-dominated landscapes of Eastern Ontario
12	Marta Coll Monton Dalhousie U.	Ecosystem impacts of removing higher trophic levels in rock pool communities
13	Sheila Colla York U.	Low levels of a new pesticide a threat to native bumblebees
14	Melissa Cuke UBC	Effects of landscape changes on tropical decomposition processes
15	Sierra Curtis-McLane UBC	Will whitebark pine ( <i>Pinus albicaulis</i> ) move north with climate change?
16	Danielle Defields Dalhousie U.	Spatial Pattern of the Forest-Tundra Ecotone in the Mealy Mountains, Labrador, Canada
17	Kari Dunfield U. Guelph	Impact of season and tillage on the community structure of nitrifying and denitrifying bacteria associated with field grown corn
18	Tammy Elliott UBC	Muskox grazing in the Canadian High Arctic
19	Richard FitzJohn UBC	Evolution of selfing in finite populations
20	Quinn Fletcher U. McGill	The functional response of red squirrel hoarding to territory food availability
21	Robert Fraser Nat. Res. Can.	A remote sensing based system to monitor the ecological integrity of Canada's national parks

22	Elizabeth Gillis Malaspina U.	Migration in American Dippers: A good strategy of making the best of a bad situation? [Co-authors: David J. Green, Holly A. Middleton, Christy A. Morrissey]
23	Root Gorelick Carleton U	Carleton University's graduate program and research in evolution, ecology, and behaviour
24	Simon Goring SFU	Tree Shapes from Pollen: Phylogenetic applications for paleoecology
25	Karen Harper Dalhousie U.	Causes and consequences of change at treeline: Preliminary results from the International Polar Year project PPS ARCTIC CANADA
26	Lee Henry SFU	Size-mediated optimal foraging: a host selection strategy for insect parasitoids
27	Katy Hind U. New Brunswick	Identification of articulated coralline algae using DNA barcoding
28	Trent Hoover UBC	Does geomorphology control the transfer of resources between ecosystems?
29	James Hudson UBC	Tundra in the 21st: How recent climate change is affecting Canadian high arctic tundra
30	Colin Huebert UBC	Conservation genetics of Garry oak ( <i>Quercus garryana</i> )
31	Shelley Hunt U. Guelph	Ecosystem processes in boreal conifer plantations
32	Majid Iravani WSL	Effect of red deer grazing on the seed bank of subalpine grasslands in the central European Alps
33	Darren Irwin UBC	Mitochondrial similarity conceals nuclear divergence: the case of the Yellowhammer and Pine Bunting
34	Leah James Queens U.	Effect of the invasive predator, <i>Bythotrephes longimanus</i> , on growth of fishes in Ontario lakes
35	Alida Janmaat UC Fraser Valley	Do fitness costs associated with <i>Bacillus thuringiensis</i> resistance in <i>Trichoplusia ni</i> differ between sexes?
36	Trish Kelley DFO	Brains Vs. Balls - The Effects of Promiscuity and Group Size on Brain Size in Cetaceans
37	Gavin Kernaghan Mt. St. Vincent U.	Diversity and specificity of fungi associated with <i>Cenococcum mycorrhizae</i> on boreal trees
38	Chris Kimber Queens U.	Genetic controls on senescence in <i>Drosophila melanogaster</i>
39	Kayla King Indiana U.	Red Queen hypothesis supported by the distribution of male snails in New Zealand streams
40	Stephanie Kirk UBC Okanagan	Population genomics in species conservation: implications for Okanagan Lake kokanee ( <i>Oncorhynchus nerka</i> )

### Lower IRC Lobby

41	Danika Kleiber UBC	Intrasexual aggression in female song sparrows ( <i>Melospiza melodia</i> ) functions to guard against polygyny
42	Chris Lee UBC	<i>Townsendia</i> : Disambiguation of an asexually frustrating genus
43	Tristan Long Queens U.	Experimental Evolution of Numerical Discrimination in <i>Drosophila melanogaster</i> : Preliminary Results
44	Martin Mallet Queens U.	Fitness variation in <i>Drosophila melanogaster</i>
45	Marianne Marcoux McGill U.	Grouping patterns of narwhals on their summering grounds
46	Jennifer McCarter U. Guelph	Trophic Structure and Control in the Prairie Pothole Region
47	Daniel McDevit U. New Brunswick	Barcoding brown algae: Uncovering cryptic diversity in the Canadian Phaeophyceae
48	Emily Meuser SFU	Public attitudes toward species attributes
49	Rosalind Murray U Toronto	Experimental evolution in <i>Caenorhabditis elegans</i> sperm number
50	Edward Osborne UBC	Decoupling of the heat-shock response and whole animal thermal tolerance in tidepool sculpins ( <i>Oligocottus maculosus</i> )
51	Greg Owens U. Victoria	A fish eye out of water: A PCR based survey of opsin genes in the "Four-eyed" fish ( <i>Anableps anableps</i> )
52	Jocelyn Poissant U. Alberta	Genome-wide cross-amplification of domestic sheep microsatellite loci in bighorn sheep and mountain goat
53	Heather Ramsay UBC	Homologs of Plant Chalcone Synthases in Microbial Metagenomes
54	Richard Ree Field Mus. Nat. Hist.	Biodiversity Synthesis Center: accelerating science for the Encyclopedia of Life
55	Beren Robinson U. Guelph	The evolutionary ecology of heterospecific aggression
56	Amanda Roe U. Alberta	Phylogeography and distribution of mountain pine beetle fungal associates
57	Takashi Sakamaki UBC	Watershed effects on sediment properties and food webs of estuarine tidal flats in the Pacific Northwest coast
58	Rowan Sage U. Toronto	Photosynthetic Pathway Influences Xylem Structure and Function in <i>Flaveria</i> (Asteraceae)
59	Kieran Samuk U. Toronto	Division of labour in bumble bee ( <i>Bombus</i> spp.) colonies and its implications for the structure of social networks
60	Nora Saona York U.	Context-dependent mutualisms: A study of fungal endophyte-grass interactions

61	Patricia Schulte UBC	Counter-gradient variation in the thermal preference of common killifish
62	Graham Scott UBC	Evolutionary physiology of the high-flying bar-headed goose
63	Tyler Smith St. Mary's U.	Evolutionary ecology in <i>Carex</i> : a case study in niche conservatism at local and regional scales
64	Stephanie Stack Memorial U.	Habitat Associations of Invertebrates on some Sub-Arctic Islands in the Labrador Sea
65	William Stein SFU	Bayesian Methods Resolve Large Polytoomy in the Phasianidae
66	Tara Stephens U. Calgary	Habitat and Popualtion Analysis of Black-Tailed Prairie Dogs in Canada
67	Genlou Sun St. Mary's U.	The origin of Y genome in polyploid <i>Elymus</i> species
68	Dorina Szuroczki Brock U.	Does size refuge or unpalatability explain the co-existence of larval bullfrogs ( <i>Rana catesbeiana</i> ) with sunfish?
69	Felipe Tafoya UAA	Olfactory behavior of the guava weevil <i>Conotrachelus dimidiatus</i> (Coleoptera: Curculionidae)
70	Laura Tremblay-Boyer, UBC	Spatial and temporal heterogeneity amplify metapopulation dynamics in the intertidal
71	Michelle Tseng UBC	Evolutionary Applications
72	David Vasseur U. Calgary	Phase-locking enhances community synchrony in an experimental predator-prey system
73	Crystal Vincent Carleton U.	Behavioural avoidance in the Field Cricket <i>Gryllus texensis</i> of the acoustically locating parasitoid, <i>Ormia ochracea</i> [Co-auth: S. Bertram]
74	Laksanavadee Visanuvimol Carleton U.	How dietary phosphorus influences insect fitness [Co-author: Susan Bertram]
75	Ioan Wagner Carleton U.	A comparison of life-history characters of arctic and alpine populations of the annual <i>Koenigia islandica</i>
76	Paul Weidman U. Alberta	Pelagic Chironomid Larvae Create Benthic-Pelagic Links in Mountain Lake Food Webs
77	Emily Whattam Carleton U.	Trade-offs between the quantity and quality of a sexually-selected signal in <i>Gryllus texensis</i> [Co-author Susan Bertram]
78	Jill Wheeler U. Toronto	The evolution of female ornaments in a sex-role reversed fly ( <i>Rhamphomyia longicauda</i> )
79	Amy Wilson UBC	Micro-spatial genetic structure in song sparrows: A comparison among subspecies.
80	Scott Wilson UBC	Influence of environmental variation on life history strategies and demography of rock and white-tailed ptarmigan