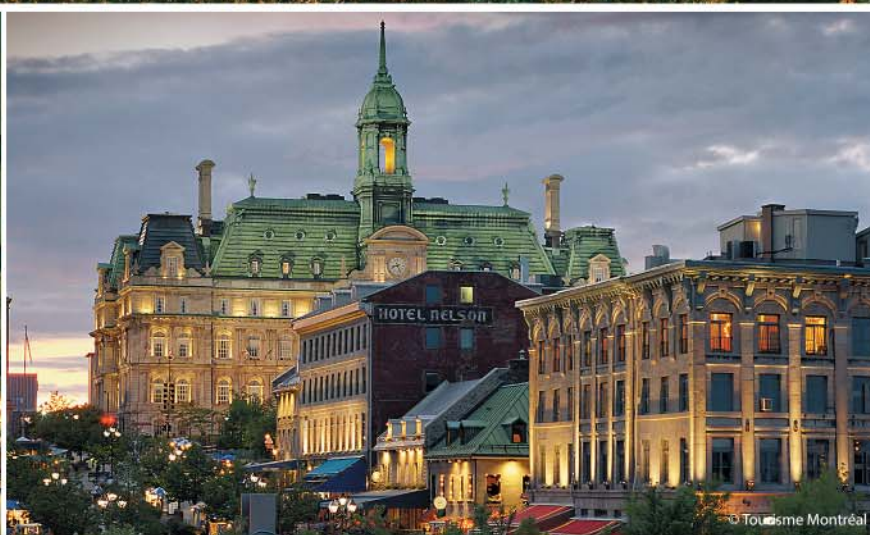


First Joint Conference

CSEE • CSZ • SCL

SCEE • SCZ • SCL

Première conférence conjointe



GENOMES TO/AUX BIOMES 2014

Official Program | Programme officiel

25 - 29 May / mai 2014 | Centre Mont-Royal | Montréal | Québec

GENOMES TO/AUX BIOMES MONTREAL 2014

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Andrew Hendry, McGill University, Canadian Society for Ecology and Evolution
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CONFERENCE INFORMATION INFORMATIONS SUR LA CONFÉRENCE

CENTRE MONT-ROYAL

Main conference location:

Centre Mont-Royal

2200, rue Mansfield, Montréal H3A 3R8

(also accessible via Sherbrooke)

<http://www.centremontroyal.com/>

CENTRE MONT-ROYAL

Lieu principal de la conférence :

Centre Mont-Royal

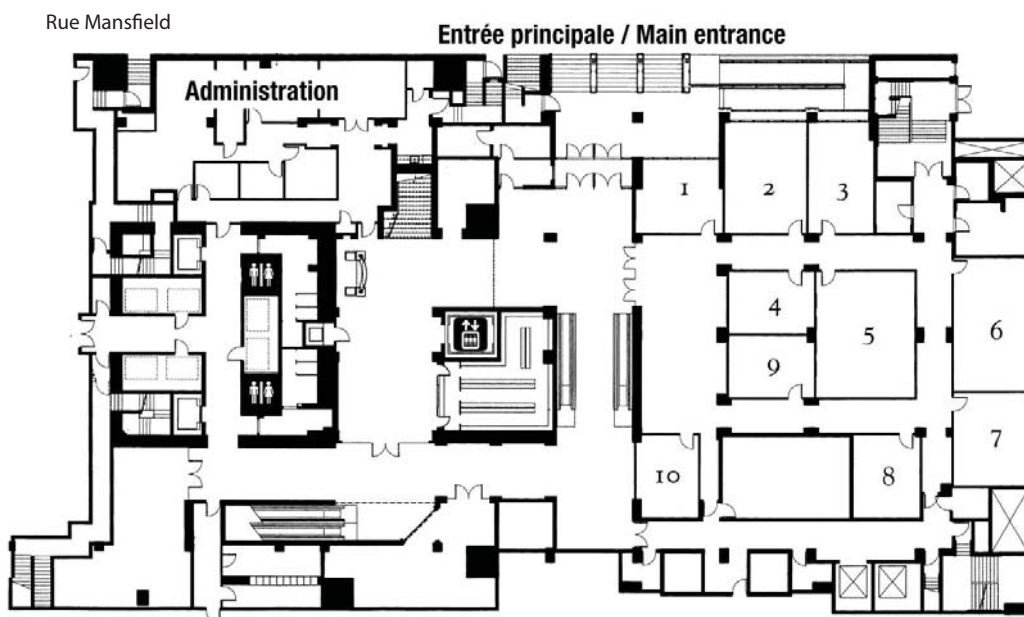
2200, rue Mansfield, Montréal H3A 3R8

(également accessible via la rue Sherbrooke)

<http://www.centremontroyal.com/>

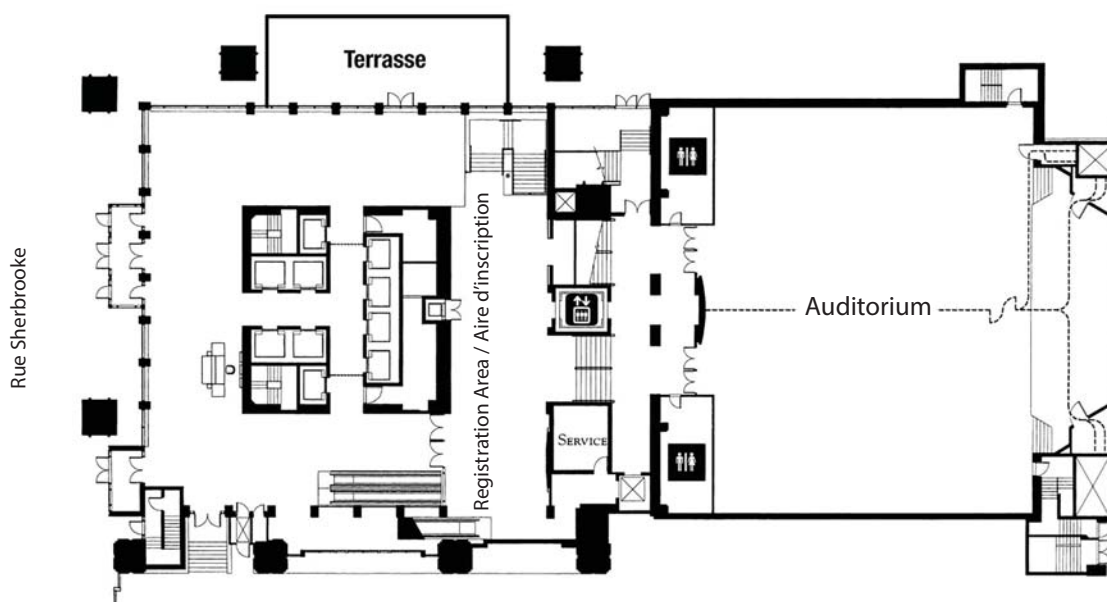
GROUND FLOOR (MANSFIELD ROOMS)

REZ-DE-CHAUSSÉE (SALLES MANSFIELD)



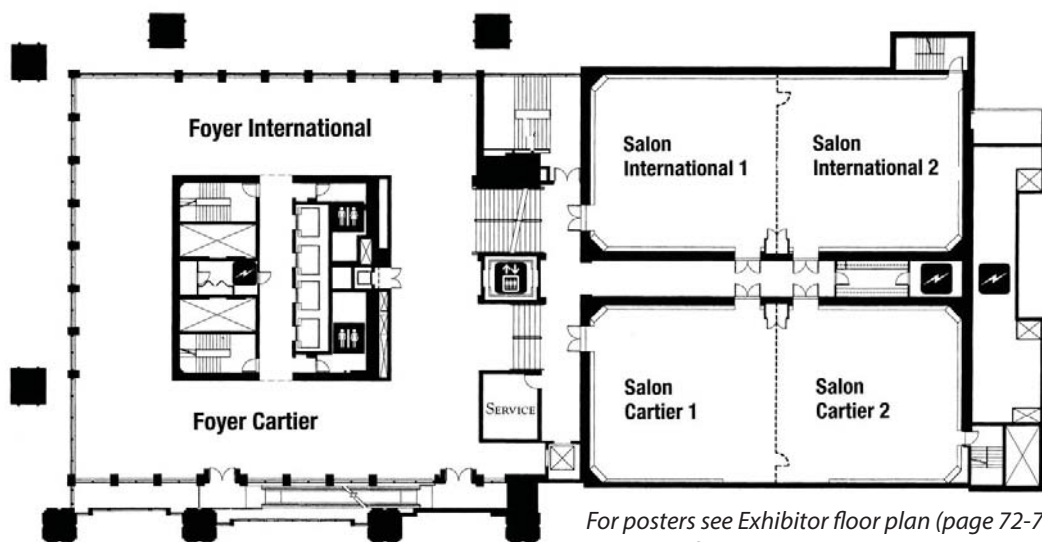
1ST FLOOR (AUDITORIUM)

1ER ÉTAGE (AUDITORIUM)



3RD FLOOR (CARTIER AND INTERNATIONAL ROOMS)

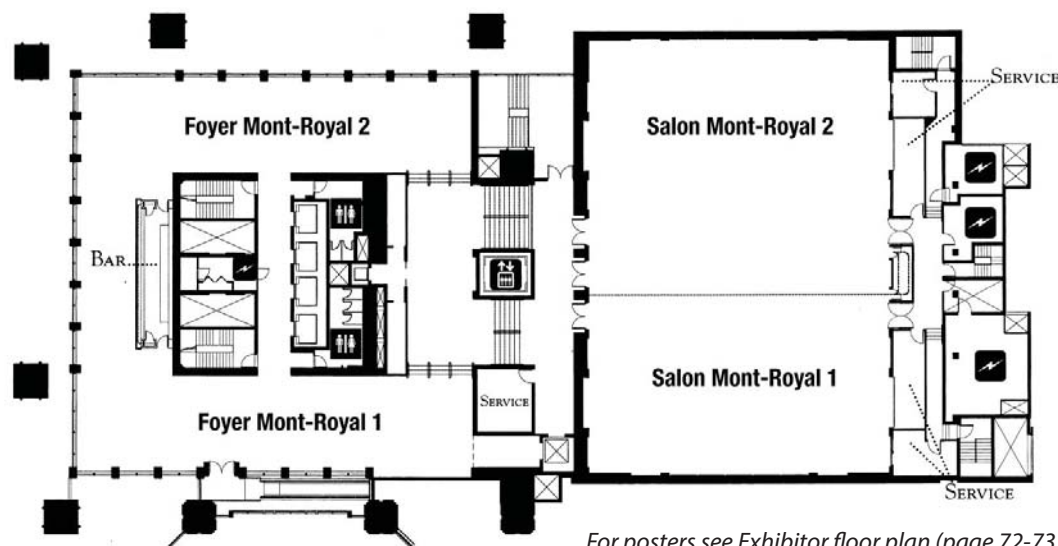
3E ÉTAGE (SALLES CARTIER ET INTERNATIONAL)



For posters see Exhibitor floor plan (page 72-73).
Pour les affiches voir le plan des exposants (pages 72-73).

4TH FLOOR (MONT-ROYAL ROOMS)

4E ÉTAGE (SALLES MONT-ROYAL)



For posters see Exhibitor floor plan (page 72-73).
Pour les affiches voir le plan des exposants (pages 72-73).

OTHER VENUES

Welcome Reception	Coeur des Sciences, UQAM
Student Mixer	Bar Le Saint-Sulpice
Pub Night	Pub St-Paul
Redpath Reception	Redpath Museum
Closing Reception	La Sucrierie de la Montagne

For more information about the other venues, please refer to Social Activities (p. 7).

AUTRES SITES

Réception de bienvenue	Coeur des Sciences, UQAM
Soirée étudiante	Bar Le Saint-Sulpice
Soirée au Pub	Pub St-Paul
Réception Redpath	Musée Redpath
Réception de clôture	La Sucrierie de la Montagne

Pour de plus amples informations sur ces sites, veuillez vous référer à la section Activités sociales (p. 7).

WI-FI AND MOBILE APP

All participants may access wireless internet throughout Centre Mont-Royal. The network name is **G2B** and the password is **Montreal2014**. If you have any trouble accessing the internet, please visit the registration desk.

A cross-platform mobile app, featuring speaker information, poster and talk session schedules, and much more, is available here: <http://g2b2014.sched.org/>. It is accessible from any device with an internet browser: smartphones, tablets, laptops, and even desktops. Among other features, the app provides fully searchable and customizable personal schedules for both talks and posters.

SOCIAL MEDIA (TWITTER, FACEBOOK)

Genomes to/aux Biomes 2014 strives to provide as many channels of interaction as possible among all participants. Follow us on Facebook <https://www.facebook.com/genomesauxtobiomes> and Twitter <https://twitter.com/GenomesBiomes> to get last-minute updates and to exchange with fellow scientists. Help us promote our social presence by including those who will not be able to attend but would love to be a part of the Genomes to/aux Biomes conference! Tweet during the event with the following hashtag: #G2B2014.

REGISTRATION DESK

Sunday, May 25:
17:30 – 21:30 Main hall, Cœur des Sciences, UQAM

Monday, May 26:
7:00 – 18:30 Foyer, 1st floor, Centre Mont-Royal (CMR)

Tuesday, May 27:
7:00 – 18:00 Centre Mont-Royal (CMR)

Wednesday, May 28:
7:00 – 18:00 Centre Mont-Royal (CMR)

Thursday, May 29:
7:00 – 18:00 Centre Mont-Royal (CMR)

Please be sure to wear your name badge at all times. Your badge will be required for admission to all sessions, social events, and exhibits. Badges are included in your registration package. If you should lose your name badge, please visit the Registration Desk.

SPEAKER READY ROOM/PRESENTATION UPLOAD

Location: Centre Mont-Royal ground floor, Mansfield 6

Authors presenting Monday morning may upload their presentations on Sunday during the Welcome Reception at the Registration Desk. Throughout the remainder of the conference, we invite speakers to upload their presentations at the Speaker Ready Room no later than **3 hours prior** to their scheduled presentation time and where possible, the morning or afternoon prior. Please bring a copy of your presentation on a USB key or CD-ROM. A volunteer is available to assist with reviewing your presentation.

Monday, May 26: _____ 7:00 – 17:00
Tuesday, May 27: _____ 7:00 – 17:00
Wednesday, May 28: _____ 7:00 – 17:00
Thursday, May 29: _____ 7:00 – 15:00

CONNEXION INTERNET SANS FIL ET APPLICATION MOBILE

Une connexion internet sans fil est disponible à tous les participants au Centre Mont-Royal. Pour vous connecter, veuillez sélectionner le réseau **G2B** et saisir le mot de passe **Montreal2014**. Si vous rencontrez des difficultés, veuillez vous adresser au comptoir d'inscription pour obtenir de l'aide.

Une application mobile multiplateforme, listant les conférenciers, les présentations sur affiche, l'horaire détaillé du programme, et bien d'autres informations utiles est disponible à cette adresse : <http://g2b2014.sched.org/>. Cette application mobile est accessible avec tout type d'appareil connecté à l'internet : téléphone intelligent, tablette, ordinateur portatif et fixe. Parmi toutes les fonctionnalités disponibles, l'application mobile offre une fonction de recherche dans le programme de la conférence, et la possibilité de bâtir son propre agenda pour la conférence, afin de ne manquer aucune présentation, qu'elle soit orale ou sur affiche.

MEDIA SOCIAUX (TWITTER, FACEBOOK)

La conférence Génomes to/aux Biomes 2014 s'efforce d'offrir à ses participants de multiples canaux de communication et interaction. De ce fait, nous vous encourageons à suivre notre page Facebook <https://www.facebook.com/genomesauxtobiomes> et notre profile Twitter <https://twitter.com/GenomesBiomes> pour avoir accès aux dernières mises à jour et interagir avec vos collègues. Aidez-nous à accroître notre présence sur ces réseaux sociaux en partageant votre expérience avec ceux qui ne peuvent pas être à la conférence ! Envoyez vos « tweets » sur la toile lors de la conférence en utilisant le hashtag : ##G2B2014.

COMPTOIR D'INSCRIPTION

Dimanche 25 mai :
17:30 – 21:30 Main hall, Cœur des Sciences, UQAM

Lundi 26 mai :
7:00 – 18:30 Foyer, 1er étage, Centre Mont-Royal (CMR)

Mardi 27 mai :
7:00 – 18:00 Centre Mont-Royal (CMR)

Mercredi 28 mai :
7:00 – 18:00 Centre Mont-Royal (CMR)

Jeudi 29 mai :
7:00 – 18:00 Centre Mont-Royal (CMR)

Veuillez porter votre cocarde en tout temps pendant la conférence. Votre cocarde vous permet d'accéder aux sessions scientifiques, aux activités sociales, et à l'exposition. Pour recevoir votre cocarde et le reste de votre matériel, veuillez vous présenter au comptoir d'inscription dès votre arrivée à la conférence.

SALON DES CONFÉRENCIERS / DÉPÔT DES PRÉSENTATIONS

Lieu : Rez-de-chaussée du Centre Mont-Royal, salle Mansfield 6

Les auteurs présentant le lundi matin sont invités à téléverser leur présentation le dimanche, durant la réception de bienvenue, au comptoir d'inscription. Durant la conférence, nous invitons les présentateurs à téléverser leurs présentations dans le salon des

MESSAGE BOARD

Two message boards are located near the registration desk. One board is dedicated to the students and the other to general messages. The boards are a great way for participants to share resources such as transportation or lodging.

FOOD AND BEVERAGE

Coffee will be served daily in the foyers on the 3rd and the 4th floors, in the morning (10:00 – 10:30) and in the afternoon (15:00 – 15:30).

A large number of restaurants for all budgets are available within easy walking distance of the Centre Mont-Royal and at the food court in the lower level.

SILENT AUCTION

From Monday, May 26 to Wednesday, May 28 from 16:30 to 18:00, at the Registration desk.

In the spirit of collaboration, the student councillors from CSZ, CSEE and SCL have joined forces in running a silent auction. Funds obtained will help to support student events during the conference, student travel awards and other initiatives. We hope that you will be able to help with the silent auction by donating items. Donations of any kind would be greatly appreciated, science related or not! That includes books, clothing, artwork, gift certificates and even some rare and exceptional beers! This event is always a lot of fun, so we hope to see you all there. Any donations may be dropped off at the registration desk or with your student councillors

LIMERICK CONTEST

Limericks will be collected during the closing banquet. The top three, as selected by a panel of highly poetic and totally unbiased student judges, will be read out at the banquet and will receive a bottle of Hendry wine.

POSTER & MIXER SESSIONS

Three poster & mixer sessions are scheduled Monday to Wednesday, 16:30-18:00, in the Exhibit on the 3rd and 4th floors, to allow authors to present their posters and interact with other conference participants. The poster sessions are held in the foyers of the 3rd and the 4th floors. One drink is included with registration and a cash bar will be open during the poster sessions.

Poster Set-up: _____ 7:00-8:00 (Mon), 7:30-8:30 (Tue-Wed)

Daily Poster Removal: _____ 18:00 – 20:00

conférenciers le jour précédent ou au plus tard **3 heures avant** leur présentation. Veuillez à prendre une copie de votre présentation sur une clé USB ou un CD-ROM. Un volontaire sera présent pour vous assister dans votre préparation.

Lundi 26 mai : _____ 7:00 – 17:00

Mardi 27 mai : _____ 7:00 – 17:00

Mercredi 28 mai : _____ 7:00 – 17:00

Jeudi 29 mai : _____ 7:00 – 15:00

BABILLARD

Deux babillards seront disponibles à côté du comptoir d'inscription. Un babillard sera dédié aux messages s'adressant aux étudiants, tandis que le second sera consacré aux messages d'ordre général. Les babillards seront fortement utiles si vous cherchez ou offrez du transport ou un hébergement.

NOURRITURE ET BOISSON

Du café sera servi du lundi au jeudi inclus dans les foyers des 3ème et 4ème étages durant les pauses cafés (10:00 – 10:30 et 15:00 – 15:30).

Une variété de restaurants pour tous budgets est facilement accessible tout autour mais également au sous-sol du Centre Mont-Royal.

VENTE À L'ENCAN SILENCIEUSE

Du lundi 26 mai au mercredi 28 mai de 16:30 à 18:00 ; située à côté du comptoir d'inscription.

Les conseillers étudiants des différentes sociétés impliquées se sont réunis dans un esprit de pleine collaboration afin de mettre en place cette vente à l'encan silencieuse. Les fonds récoltés serviront à venir en aide aux étudiants pendant la conférence, mais aussi à financer les bourses de voyage et d'autres initiatives. Le Comité Organisateur vous invite à participer en offrant un article à vendre. Tous les dons seront grandement appréciés, qu'ils soient de nature scientifique ou non ! Ceci inclut des livres, vêtements, œuvre d'art, certificats cadeaux ou encore des bières rares et/ou exceptionnelles ! Soyez des nôtres pour cet événement apprécié de tous ! Tous les dons peuvent être remis au comptoir d'inscription ou à votre conseiller étudiant.

CONCOURS DE LIMERICK

Toutes les limericks seront recueillies pendant la réception de clôture. Un panel de juges, composé d'étudiants amoureux de poésie et objectifs, désignera les 3 meilleures limericks qui seront lues à la fin de la réception de clôture. Les auteurs des limericks sélectionnées recevront une bouteille de vin Hendry.

SÉANCES DE PRÉSENTATIONS SUR AFFICHE ET RÉSEAUTAGE

Trois séances de présentations sur affiche et réseautage sont programmées du lundi au mercredi, de 16:30 à 18:00 dans l'aire d'exposition des foyers du 3e et 4e étages. Ces séances seront l'occasion pour les participants d'accéder aux présentations sur affiche mais également d'interagir avec les auteurs et leurs pairs. Une boisson par session est incluse dans vos frais d'inscription et un bar payant sera disponible lors de ces séances.

Montage des présentations

sur affiche : _____ 7:00-8:00 (lun), 7:30-8:30 (mar-mer)

Démontage journalier des

présentations sur affiche : _____ 18:00 – 20:00



WELCOME RECEPTION

Date: Sunday, May 25
Time: 18:00 – 21:30
Location: Salle Polyvalente, Cœur des Sciences, UQAM,
Pavillon (SH) Sherbrooke
200 Sherbrooke Ouest
Montréal H2X 3P2 (métro Place-des-Arts)
Price: Free. This activity is included with the conference registration.

STUDENT MIXER

Date: Monday, May 26
Time: From 19:45
Location: Bar Le Saint-Sulpice
1680 Saint-Denis
Montréal H2X 3K6 (métro Berri-UQAM)
Price: No cover charge

Under the theme “How to be the best: Strategies for success”, this session and mixer will provide students with a unique opportunity to meet with postdocs and professors of diverse backgrounds to discuss aspects of successful careers in research.

Situated in Montréal’s lively Latin Quarter, Saint-Sulpice pub has something for everyone, including multiple bars, dance floors, atmospheric rooms and one of the largest *terrasses* in Montréal.

PUB NIGHT

Date: Tuesday, May 27
Time: From 19:00
Location: Pub St-Paul
124 Saint-Paul Est
Montréal H2Y 1G6 (métro Champ-de-Mars)
Price: No cover charge

Pub night is open to all, and an ideal opportunity to network, participate in activities and talk science while enjoying drink specials and poutine! Located on Saint-Paul Street in beautiful Old Montréal, the pub is easily accessed by metro (Champ-de-Mars, orange line) or, for those who like a good walk, by foot (approx. 30 minutes from Centre Mont-Royal). Come and experience classic Montréal: drinks with friends (new and old) in a historic setting under the stars.

RÉCEPTION DE BIENVENUE

Date : Dimanche 25 mai
Heure : 18:00 – 21:30
Lieu : Salle Polyvalente, Cœur des Sciences, UQAM,
Pavillon (SH) Sherbrooke
200 Sherbrooke Ouest
Montréal H2X 3P2 (arrêt de métro Place-des-Arts)
Prix : inclus dans vos frais d’inscription.

SOIRÉE ÉTUDIANTE

Date : Lundi 26 mai
Heure : à partir de 19:45
Lieu : Bar Le Saint-Sulpice
1680 Saint-Denis
Montréal H2X 3K6 (arrêt de métro Berri-UQAM)
Prix : à la consommation

Sous le thème « Être le meilleur : des pistes pour le succès », cette séance et soirée de réseautage sera une occasion unique pour les étudiants de rencontrer et discuter avec des post-doctorants et professeurs provenant d’horizons divers sur les prérequis pour une carrière réussie en recherche.

Situé dans le quartier latin, le pub Le Saint-Sulpice est un lieu rassembleur, proposant de nombreux bars, des pistes de dance, des ambiances différentes selon les salles, ainsi qu’une des plus grandes terrasses de Montréal.

SOIRÉE AU PUB

Date : Mardi 27 mai
Heure : à partir de 19:00
Lieu : Pub St-Paul
124 Saint-Paul Est
Montréal H2Y 1G6 (arrêt de métro Champ-de-Mars)
Prix : à la consommation

La soirée au pub est ouverte à tous. Cette soirée sera l’occasion idéale de réseauter avec vos pairs, de participer aux activités organisées ainsi que de discuter de vos travaux tout en savourant une bière et une poutine ! Situé sur la rue Saint-Paul, au Cœur du Vieux-Montréal, le pub est facilement accessible en métro (ligne orange, arrêt de métro Champ-de-Mars). Pour ceux qui préfèrent marcher, il faut compter environ 30 minutes entre le Centre Mont-Royal et le pub. Joignez-vous à nous pour découvrir cette expérience montréalaise typique : partager un bon moment avec des amis (jeunes ou moins jeunes), dans un lieu plein d’histoire à ciel ouvert.

REDPATH RECEPTION

Date: Wednesday, May 28
Time: 19:45 – 22:45
Location: Redpath Museum
 859 Sherbrooke Ouest
 Montréal H3A 0C4 (métro Peel)
Price: SOLD OUT

Please join us for a reception with National Geographic photographer Paul Nicklen at McGill University's historic Redpath Museum. The event will follow Paul Nicklen's public talk at the Centre Mont-Royal. Attendees will have the opportunity to meet Paul and to explore the Museum after hours.

Wine from Hendry Ranch Wines, Napa Valley, California will be available for purchase. Mike Hendry, Vineyard Manager and Head of Marketing, will be present and happy to talk with you about wine (www.hendrywines.com).

CLOSING RECEPTION

Date: Thursday, May 29
Time: 18:30 – 1:00
Location: Sucrierie de la Montagne
 300 Chemin Saint-Georges
 Rigaud J0P 1P0
Price: SOLD OUT
Note: Coach transfer will depart at
 18:30 from 2200 Mansfield Street

Join us for a unique evening of traditional Québécois hospitality, with a multi-course dinner, drinks and dance in a naturally gorgeous maple forest setting.

RÉCEPTION AU MUSÉE REDPATH

Date : Mercredi 28 mai
Heure : 19:45 – 22:45
Lieu : Musée Redpath
 859 Sherbrooke Ouest
 Montréal H3A 0C4 (métro Peel)
Prix : COMPLET

Rendez-vous au musée Redpath de l'université McGill pour rencontrer Paul Nicklen, photographe au National Geographic. Cette réception suivra la présentation que Paul Nicklen donnera au Centre Mont-Royal lors des séances ouvertes au public. Les participants auront l'occasion de rencontrer Paul et de visiter le musée privatisé pour l'occasion.

Le vin produit par les vignobles Hendry Ranch Wine à Napa Valley en Californie sera en vente sur place. Mike Hendry, gérant du vignoble et responsable marketing, sera présent pour répondre à vos questions sur le vin (www.hendrywines.com).

RÉCEPTION DE CLÔTURE

Date : Jeudi 29 mai
Heure : 18:30 – 1:00
Lieu : Sucrierie de la Montagne
 300 Chemin Saint-Georges
 Rigaud J0P 1P0
Prix : COMPLET
Note : Départ des autobus prévu à 18h30 au débarcadere du 2200 rue Mansfield.

Venez partager cette expérience traditionnelle québécoise, et savourez un repas copieux, et dansez au son de musique traditionnelle au cœur d'une magnifique forêt d'érables.



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INVITED SPEAKERS

Detailed lists of symposium titles and times can be found in the daily schedule.

All Public Outreach talks are open to conference attendees and to the general public.

MONDAY, MAY 26



CSEE Symposium

8:30 – 15:00 | Auditorium

■ Biodiversity change across spatial scales during the Anthropocene

Moderated by Isla Myers-Smith

INV-01 Isla H. Myers-Smith, University of Edinburgh

INV-02 Mark Vellend, Université de Sherbrooke

INV-03 Julia K. Baum, University of Victoria

INV-04 Jeremy T. Kerr, University of Ottawa

INV-05 Graham Bell, McGill University

INV-06 Mary I. O'Connor, University of British Columbia

INV-07 Brian McGill, University of Maine

■ Effects of community diversity and composition on evolutionary change

Moderated by Elizabeth Kleyhans

INV-08 Elizabeth J. Kleyhans, University of British Columbia

INV-09 Mark C. Urban, University of Connecticut

INV-10 Martin M. Turcotte, University of Toronto at Mississauga

INV-11 Sinead Collins, University of Edinburgh

INV-12 Andrew Gonzalez, McGill University

CSEE Plenary

15:30 – 16:30 | Auditorium

■ From tangled banks to tangled priorities: Ecology, evolution, and the communication of science

INV-13 Jeffrey Hutchings, Dalhousie University

G2B Public Outreach Lecture

18:30 – 19:30 | Auditorium

■ Halting deforestation: One piece of the climate mitigation puzzle

INV-14 Catherine Potvin, McGill University @Dialogsustainab

CONFÉRENCIERS INVITÉS

La liste détaillée des horaires et thèmes des symposia se trouve dans l'horaire par journée.

Toutes les séances ouvertes au public sont ouvertes aux participants et au public en général.

LUNDI 26 MAI



Symposium SCEE

8:30 – 15:00 | Auditorium

■ Biodiversity change across spatial scales during the Anthropocene

Animé par Isla Myers-Smith

INV-01 Isla H. Myers-Smith, University of Edinburgh

INV-02 Mark Vellend, Université de Sherbrooke

INV-03 Julia K. Baum, University of Victoria

INV-04 Jeremy T. Kerr, University of Ottawa

INV-05 Graham Bell, McGill University

INV-06 Mary I. O'Connor, University of British Columbia

INV-07 Brian McGill, University of Maine

■ Effects of community diversity and composition on evolutionary change

Animé par Elizabeth Kleyhans

INV-08 Elizabeth J. Kleyhans, University of British Columbia

INV-09 Mark C. Urban, University of Connecticut

INV-10 Martin M. Turcotte, University of Toronto at Mississauga

INV-11 Sinead Collins, University of Edinburgh

INV-12 Andrew Gonzalez, McGill University

Séance plénière de SCEE

15:30 – 16:30 | Auditorium

■ From tangled banks to tangled priorities: Ecology, evolution, and the communication of science

INV-13 Jeffrey Hutchings, Dalhousie University

Séance ouverte au public G2B

18:30 – 19:30 | Auditorium

■ Halting deforestation: One piece of the climate mitigation puzzle

INV-14 Catherine Potvin, McGill University @Dialogsustainab

TUESDAY, MAY 27

**SCL Symposium****8:30 – 15:00 | Auditorium**

■ From lakes to coastal zones – Integrating aquatic ecosystems at different scales

Moderated by Alison Derry

INV-15 Jules M. Blais, University of Ottawa

INV-16 Karen Kidd, University of New Brunswick

INV-17 Roxane Maranger, Université de Montréal, GRIL

INV-18 Beatrix Beisner, Université du Québec à Montréal

INV-19 Shelley E. Arnott, Queen's University

INV-20 Warwick F. Vincent, CEN, Université Laval

SCL Plenary**15:30 – 16:30 | Auditorium**

■ Prediction, prescription, precaution and management in a rapidly changing world

INV-21 Daniel Schindler, University of Washington

Special presentation 18:30 – 18:45 | 3rd Floor, Cartier Foyer

■ CSZ Battle and Holeyton Poster Competition

WEDNESDAY, MAY 28

**CSZ Symposium****8:30 – 15:00 | Auditorium**

■ Crossing Boundaries and Building Bridges - Integrative Zoology

Moderated by Chris Cameron & Angela Shamchuk

INV-22 Robert Shadwick, University of British Columbia

INV-23 Richard E. Lee Jr., Miami University

INV-24 Kevin L. Campbell, University of Manitoba

INV-25 Adam Summers, University of Washington

INV-26 Leonard J. Foster, University of British Columbia

INV-27 Tyrone Hayes, University of California, Berkeley

Special presentation**12:00 – 13:30 | Auditorium**

■ Recent developments in the support and use of science by the Canadian Federal Government

Scott Findlay, University of Ottawa

MARDI 27 MAI

**Symposium SCL****8:30 – 15:00 | Auditorium**

■ From lakes to coastal zones – Integrating aquatic ecosystems at different scales

Animé par Alison Derry

INV-15 Jules M. Blais, University of Ottawa

INV-16 Karen Kidd, University of New Brunswick

INV-17 Roxane Maranger, Université de Montréal, GRIL

INV-18 Beatrix Beisner, Université du Québec à Montréal

INV-19 Shelley E. Arnott, Queen's University

INV-20 Warwick F. Vincent, CEN, Université Laval

Séance plénière de SCL**15:30 – 16:30 | Auditorium**

■ Prediction, prescription, precaution and management in a rapidly changing world

INV-21 Daniel Schindler, University of Washington

Présentation spéciale 18:30 – 18:45 | 3e étage, foyer Cartier

■ Concours d'affiches SCZ Battle et Holeyton

MERCREDI 28 MAI

**Symposium SCZ****8:30 – 15:00 | Auditorium**

■ Crossing Boundaries and Building Bridges - Integrative Zoology

Animé par Chris Cameron & Angela Shamchuk

INV-22 Robert Shadwick, University of British Columbia

INV-23 Richard E. Lee Jr., Miami University

INV-24 Kevin L. Campbell, University of Manitoba

INV-25 Adam Summers, University of Washington

INV-26 Leonard J. Foster, University of British Columbia

INV-27 Tyrone Hayes, University of California, Berkeley

Présentation spéciale**12:00 – 13:30 | Auditorium**

■ Recent developments in the support and use of science by the Canadian Federal Government

Scott Findlay, University of Ottawa

CSZ Wardle Lecture 13:30 – 14:30 | Mont-Royal 2 (MR2)

■ Through the looking glass and beyond: Studies of parasitism, immunity, and ecology of dragonflies

MR2-48 Mark Forbes, Carleton University

CSZ Plenary 15:30 – 16:30 | Auditorium

■ The sex lives of fish: Science, policy and beyond

INV-28 Glen Van Der Kraak, University of Guelph

CSEE / CSZ / ZET Public Outreach Lecture 18:30 – 19:30 | Auditorium

■ Polar Obsession

INV-29 Paul Nicklen, National Geographic Society @PaulNicklen

Conférence Wardle de SCZ 13:30 – 14:30 | Mont-Royal 2 (MR2)

■ Through the looking glass and beyond: Studies of parasitism, immunity, and ecology of dragonflies

MR2-48 Mark Forbes, Carleton University

Séance plénière de SCZ 15:30 – 16:30 | Auditorium

■ The sex lives of fish: Science, policy and beyond

INV-28 Glen Van Der Kraak, University of Guelph

Séance ouverte au public SCEE / SCZ / FEZ 18:30 – 19:30 | Auditorium

■ Polar Obsession

INV-29 Paul Nicklen, National Geographic Society @PaulNicklen

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THURSDAY, MAY 29

**G2B Symposium 8:30 – 15:00 | Auditorium**

■ From genomes to biomes
Moderated by Andrew Hendry

INV-31 Patrik Nosil, University of Sheffield

INV-32 Zoe Finkel, Mount Allison University

INV-33 Anja Geitmann, Université de Montréal

INV-34 Fanie Pelletier, Université de Sherbrooke

INV-35 Paul Del Giorgio, Université du Québec à Montréal

INV-36 Joe Bailey, University of Tennessee

JEUDI 29 MAI

**Symposium G2B 8:30 – 15:00 | Auditorium**

■ Génomes aux biomes
Animé par Andrew Hendry

INV-31 Patrik Nosil, University of Sheffield

INV-32 Zoe Finkel, Mount Allison University

INV-33 Anja Geitmann, Université de Montréal

INV-34 Fanie Pelletier, Université de Sherbrooke

INV-35 Paul Del Giorgio, Université du Québec à Montréal

INV-36 Joe Bailey, University of Tennessee

Young Investigator Symposium 15:30 – 18:30 | Auditorium**■ Excellence in upcoming Canadian scientists in the biological sciences***Moderated by Beatrix Beisner***INV-37** Peter R. Leavitt, University of Regina**INV-38** Jennifer Sunday, University of British Columbia**INV-39** Rowan D.H. Barrett, McGill University**INV-40** Dominic Vachon, Université du Québec à Montréal**INV-41** Erin Cameron, University of Helsinki**INV-42** Julie Gelfand, Federal Commissioner of the Environment and Sustainable Development**SOCIETY GENERAL BUSINESS MEETINGS**

All Society members welcome and encouraged to attend.

SCL Business Meeting Tuesday, May 27
12:00 – 13:30 | Cartier 1CSZ Business Meeting Tuesday, May 27
12:00 – 13:30 | Mont-Royal 1CSZ/CPB Meeting Wednesday, May 28
12:00 – 13:30 | Mont-Royal 1CSZ/EEE Meeting Wednesday, May 28
12:00 – 13:30 | Mansfield 5CSEE Business Meeting Thursday, May 29
12:00 – 13:30 | Cartier 1CSZ/PIE Meeting Thursday, May 29
12:00 – 13:30 | International 1CSZ/CMD Meeting Thursday, May 29
12:00 – 13:30 | International 2**COUNCIL MEETING**CIEE Board Meeting Tuesday, May 27
17:30 – 19:30 | Redpath MuseumCSZ Council Meeting 2 Friday, May 30
8:30 – 11:30 | Redpath Museum**WORKSHOPS**NSERC / 2014 DG competition results and how to apply Monday, May 26
12:00 – 14:00 | Mansfield 5NSERC / Scholarships & Fellowships Tuesday, May 27
12:00 – 13:30 | International 1**Symposium Jeunes Investigateurs 15:30 – 18:30 | Auditorium****■ Excellence in upcoming Canadian scientists in the biological sciences***Animé par Beatrix Beisner***INV-37** Peter R. Leavitt, University of Regina**INV-38** Jennifer Sunday, University of British Columbia**INV-39** Rowan D.H. Barrett, McGill University**INV-40** Dominic Vachon, Université du Québec à Montréal**INV-41** Erin Cameron, University of Helsinki**INV-42** Julie Gelfand, Federal Commissioner of the Environment and Sustainable Development**RÉUNIONS GÉNÉRALES D'AFFAIRES DES SOCIÉTÉS**

Tous les membres sont fortement encouragés à participer à ces réunions.

Réunion générale SCL Mardi 27 mai
12:00 – 13:30 | Cartier 1Réunion générale SCZ Mardi 27 mai
12:00 – 13:30 | Mont-Royal 1Réunion SCZ/CPB Mercredi 28 mai
12:00 – 13:30 | Mont-Royal 1Réunion SCZ/EEE Mercredi 28 mai
12:00 – 13:30 | Mansfield 5Réunion d'Affaires SCEE Jeudi 29 mai
12:00 – 13:30 | Cartier 1Réunion SCZ/PIE Jeudi 29 mai
12:00 – 13:30 | International 1Réunion SCZ/CMD Jeudi 29 mai
12:00 – 13:30 | International 2**RÉUNION DU CONSEIL**Réunion du comité CIEE Mardi 27 mai
17:30 – 19:30 | Musée Redpath2ème Réunion du conseil SCZ Friday, May 30
8:30 – 11:30 | Musée Redpath**ATELIERS**NSERC / 2014 DG résultats du concours et instructions de participation Lundi 26 mai
12:00 – 14:00 | Mansfield 5NSERC / Bourses d'études et de recherches Mardi 27 mai
12:00 – 13:30 | International 1

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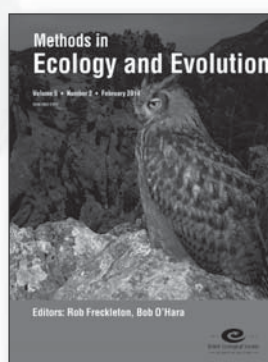
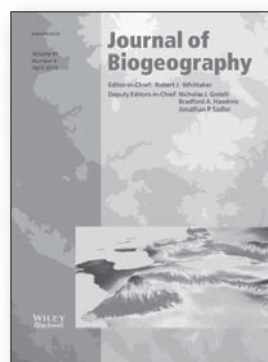
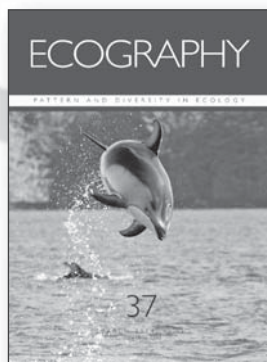
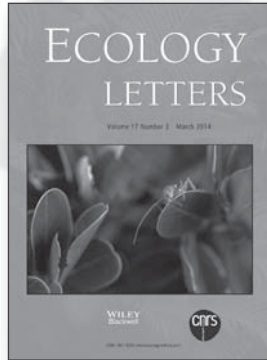


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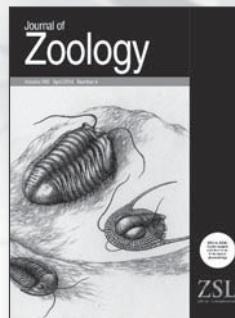
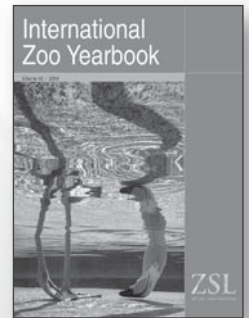
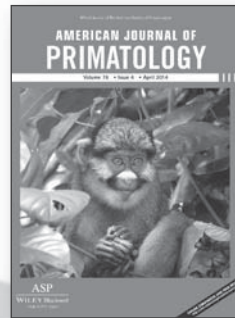


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Key Journals and Books

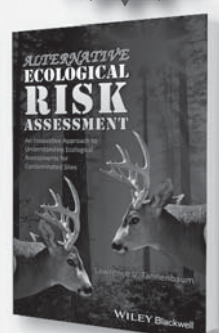
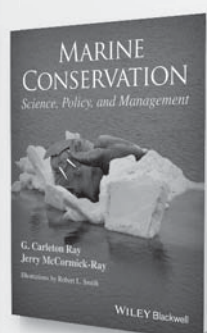
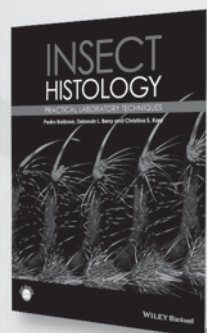
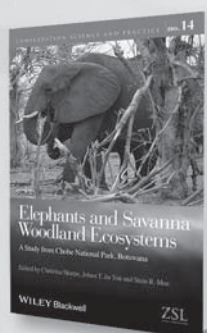
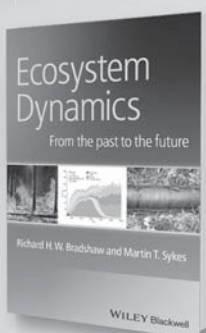
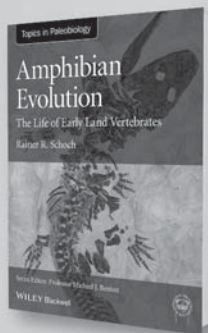
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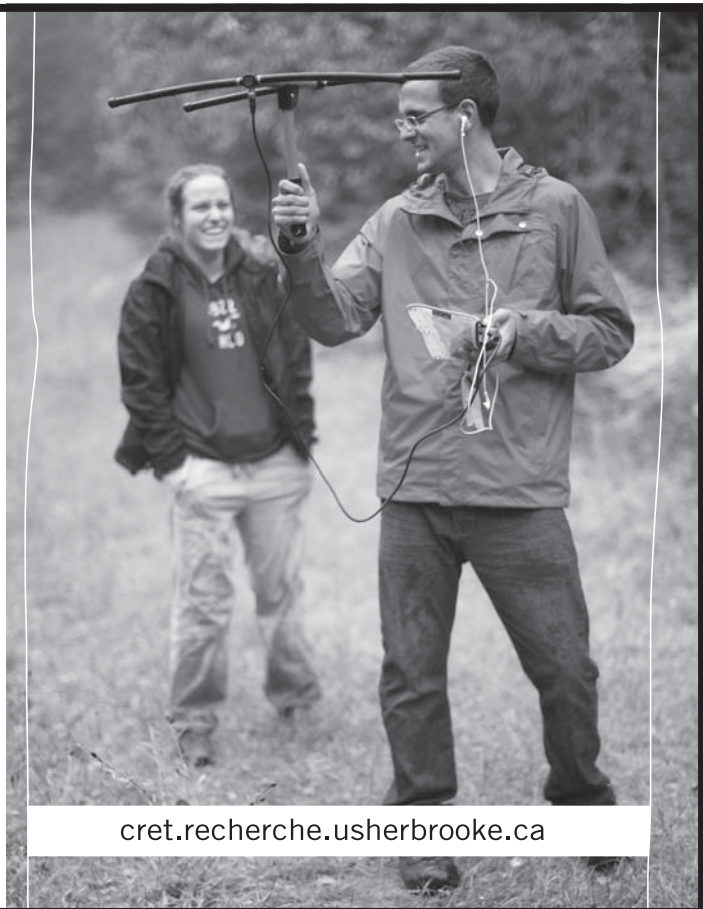
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- (iii) les réseaux aquatiques en relation avec le paysage et la société.

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The Group for Interuniversity Research in Limnology and Aquatic Environments (GRIL) is an FRQNT - Strategic research Group which includes **39 professors** from **eight Quebec universities and research institutes**, and **more than 150 graduate students and postdoctoral fellows**.

GRIL researchers focus on improving scientific understanding of the functioning of aquatic ecosystems by addressing a broad spectrum of biological, biogeochemical, and physical questions.

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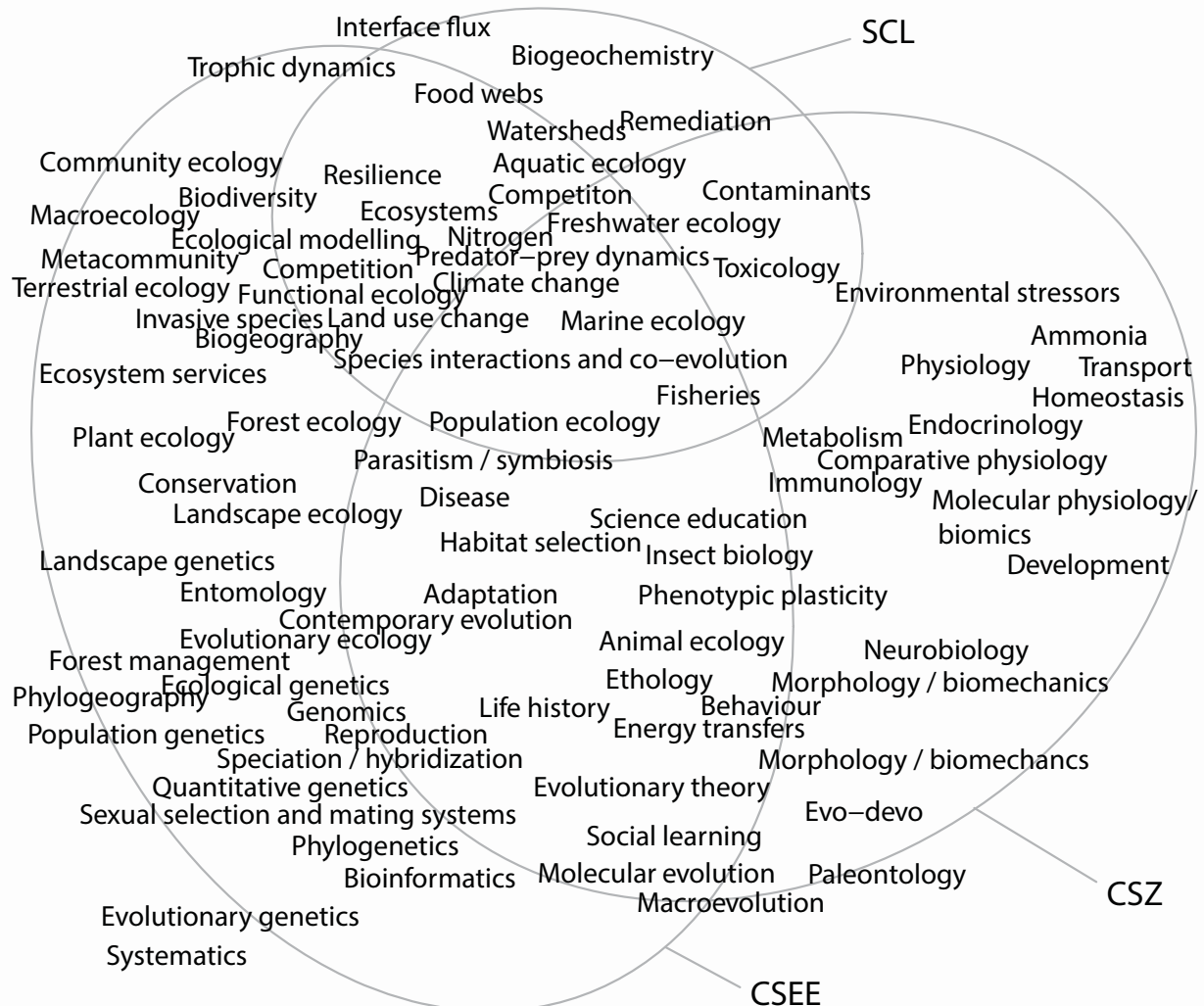


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Ordination of keyword co-occurrence in submitted presentations. Ellipses represent 95% confidence intervals around presentations submitted by members of different societies.

Ellipses des mots-clefs

L'ordination de cooccurrence de mots-clefs dans les présentations soumises. Les ellipses représentent des intervalles de confiance de 95 % autour des présentations soumises par les membres des différentes sociétés.



	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>CSEE Symposium: Biodiversity change across spatial scales during the Anthropocene / Symposium SCEE : Changement de la biodiversité à différentes échelles spatiales au cours de l'anthropocène</p> <p>Moderator/Modérateur Isla H. Myers-Smith</p>	Invasions I / Envahissement I	Climate Change and Biodiversity / Changement climatique et biodiversité	Reproductive Isolation / Isolement reproductif
8:00	Welcome / Bienvenue	Moderator/Modérateur Erin Cameron	Moderator/Modérateur Dawn Bazely	Moderator/Modérateur Philip McLoughlin
8:30	<p>08:30 - 08:40</p> <p>INV-01 Biodiversity change across spatial scales during the anthropocene</p> <p>Isla H. Myers-Smith, Mark Vellend</p>	<p>MR1-01 Clash of the Titans: Predicting the coexistence of two dominant invaders</p> <p>Michael Ton, Robin G. Marushia, Marc W. Cadotte</p>	<p>MR2-01 Shifting synchrony: How climate change alters the timing of species interactions</p> <p>Heather M. Kharouba, Johan Ehrlen, Kjell Bolmgren, Jenica Allen, Elizabeth Wolkovich</p>	<p>IN1-01 Reproductive isolation between lake and stream threespine stickleback</p> <p>Dieta Hanson, Andrew Hendry, Rowan Barrett, Jean-Sebastien Moore, Eric Taylor</p>
8:45	<p>08:40 - 09:00</p> <p>INV-02 A global meta-analysis reveals no net change in local-scale plant biodiversity over time</p> <p>Mark Vellend</p>	<p>MR1-02 Long-term ecological consequences of the introduced Peacock bass, <i>Cichla monoculus</i>, in Panama</p> <p>Diana Sharpe, Luis Fernando De Leon, Mark Torchin</p>	<p>MR2-02 Climate refugia: An examination of local population persistence and extinction among avian species</p> <p>Laura Coristine, Renee Catullo, Paul Galpern, Andrew Plowright, Simon Ferrier, Arne Mooers, Jeremy Kerr</p>	<p>IN1-02 Are female reproductive tactics growth dependent in kokanee salmon?</p> <p>Yelin Xu, Yolanda Morbey</p>
9:00	<p>09:00 - 09:20</p> <p>INV-03 Marine biodiversity in a changing world</p> <p>Julia K. Baum, Jana M. McPherson, Ivor D. Williams, Logan D. Wiwchar, Mairin Deith, James P.W. Robinson, Mark Vellend, Russell E. Brainard</p>	<p>MR1-03 Exotic Asteraceae escape enemy pressure near northern range limits</p> <p>Krystal Nunes, Colin Cassin, Peter Kotanen</p>	<p>MR2-03 Utilizing germination parameters to determine adaptation to predicted future climate scenarios</p> <p>Michael P. Schellenberg, Melissa Kehler</p>	<p>IN1-03 Spatially dynamic sex ratios in Sable Island horses from interacting effects of local density, habitat, and weather</p> <p>Philip D. McLoughlin, Jeff A. Manning, Sarah A. Medill</p>
9:15	<p>09:20 - 09:40</p> <p>INV-04 Human footprint, climate change, and rapid pollinator population losses in North America and Europe</p> <p>Jeremy T. Kerr, Diane Debinski, Alana Taylor-Pindar, Paul Galpern</p>	<p>MR1-04 Not the end of the story: Purple loosestrife populations 20 years after the introduction of biological control</p> <p>Excedera St. Louis, Risa Sargent</p>	<p>MR2-04 Global climate change impacts on bumblebees across Europe and North America over the past century</p> <p>Alana Pindar, Paul Galpern, Jeremy T. Kerr</p>	<p>IN1-04 Male competition generates fitness landscapes that explain forward and reverse speciation</p> <p>Janette W. Boughman, Jason Keagy, Liliana Lettieri</p>



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Evolutionary Genetics / Génétique évolutive	Invertebrate Development / Développement des invertébrés	Behaviour: Personality and Signalling / Éthologie : personnalité et signalisation	Aquatic Ecosystems in a Changing World: Nutrients and Primary Producers / Les écosystèmes aquatiques dans un monde changeant : nutriments et producteurs primaires	Contaminants and Fish I / Contaminants et poissons I
Moderator/Modérateur Adam Chippindale	Moderator/Modérateur Richard A. Palmer	Moderator/Modérateur Peter Hurd	Moderator/Modérateur Marianne Bachand	Moderator/Modérateur Patrice Couture
IN2-01 Heterozygosity fitness correlations and identity disequilibrium: A metaanalysis Joshua M. Miller , David W. Coltman	CA1-01 Epigenetics, developmental plasticity and transitions in larval evolution Glenys Gibson	CA2-01 Range-dependent flexibility in the acoustic field of view of echolocating whales Danuta M. Wisniewska, John M. Ratcliffe , Kristian Beedholm, Christian B. Christensen, Mark Johnson, Jens C. Koblitz, Magnus Wahlberg, Peter T. Madsen	MF2-01 Coastal defense structures: Ecological factors determining their quality as artificial habitats for epibiota Filippo Ferrario , Ljiljana Iveša, Beth Strain, Shimrit Perkolo-Finkel, Laura Airoidi	MF5-01 MHC evolution in fish exposed to varying levels of aquatic contaminants Erika Crispo , Silvia Rodriguez, Keith Thomas, Karina Shendrik, Haley Tunna, Sean Rogers
IN2-02 Genome-wide patterns of recombination in the opportunistic pathogen, <i>Pseudomonas aeruginosa</i> Jeremy Dettman , Nicolas Rodrigue, Rees Kassen,	CA1-02 Injection of vivo morpholino oligonucleotides into developing sea urchin rudiments: A technique for manipulating development of juvenile tissues Andreas Heyland, Jason Hodin, Cory Bishop	CA2-02 Mechanics and function of complex acoustic signals in the red turpentine beetle (<i>Dendroctonus valens</i>) Amanda A. Lindeman , Jayne E. Yack	MF2-02 Marine mussel beds: A case study to better understand the role of habitat geometry on community dynamics Laurence Paquette , Frederic Guichard, Philippe Archambault	MF5-02 Physiological approaches to predicting chronic copper toxicity to rainbow trout Chris M. Wood , Jasim Chowdhury, Tania Ng, Scott Smith
IN2-03 The effect of genetic quality on the mutation rate, estimated from genome sequences of mutation accumulation lines Nathaniel Sharp , Aneil F. Agrawal	CA1-03 Growing a shell: How do snails control shell ornamentation? Nicole B. Webster , A. Richard Palmer	CA2-03 Developmental influence on personality as a life history trait Peter L. Hurd , Michele K. Mosnicki	MF2-03 Surf's up! Waves affect the swimming performance of marine fish Sandra A. Binning , Dominique G. Roche, Mark K. Taylor, Jacob L. Johansen, Paolo Domenici, John F. Steffensen	MF5-03 Effet d'une exposition à deux facteurs de stress combinés : une forte température et deux contaminants métalliques (Cd et Ni) sur la composition des acides gras membranaires et le système de défense antioxydant Mariam Fadhlouli , Patrice Couture
IN2-04 Genetic interactions between beneficial mutations in <i>Saccharomyces cerevisiae</i> Jasmine Ono , Aleeza Gerstein, Sarah P. Otto,	CA1-04 Phylogenetic history of two sea urchin larval neural structures: The apical sensory organ and the adoral lobe Katelyn MacNeil , Cory Bishop	CA2-04 Exploring the link between dopamine and novelty seeking across generations in a teleost fish, the Trinidadian guppy (<i>Poecilia reticulata</i>) Alex De Serrano , Helen Rodd	MF2-04 Sea urchin (<i>Strongylocentrotus droebachiensis</i>) demography across the Estuary and Gulf of Saint Lawrence Carla Narvaez , Ladd Johnson, Bernard Sainte-Marie	MF5-04 Protective effect of metal mixtures containing nickel or zinc on cadmium-induced olfactory dysfunction in rainbow trout William A. Dew , Greg G. Pyle

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
9:30	<p>09:20 - 09:40</p> <p>INV-04 Human footprint, climate change, and rapid pollinator population losses in North America and Europe</p> <p>Jeremy T. Kerr, Diane Debinski, Alana Taylor-Pindar, Paul Galpern</p>	<p>MR1-05 Evidence that invasive earthworms play major role in forest seedbank dynamics</p> <p>Colin M. Cassin, Peter M. Kotanen</p>	<p>MR2-05 Experimental climate change alters Collembolan community composition and body size distributions</p> <p>Matthew S. Turnbull, Zoë Lindo</p>	<p>IN1-05 Assortative mating and divergence in a fish characterized by a trophic polymorphism</p> <p>Scott Colborne, Shawn Garner, Fred Longstaffe, Bryan Neff</p>	
9:45	<p>09:40 - 10:00</p> <p>INV-05 Experimental community rescue in a microbial microcosm</p> <p>Graham Bell, Andrew Gonzalez, Etienne Low-Decarie, Andrea Lofano</p>		<p>MR2-06 10 years after: Climate and landuse change affect Odonata community composition</p> <p>Aaron Hall, Dan Bert, Lenore Fahrig, Marie-Josée Fortin</p>	<p>IN1-06 Characterization of a gene influencing behavioural isolation between species</p> <p>Ryan Calhoun, Stephen Chen, Tara Edwards, Meghan Laturney, Amanda Moehring</p>	
10:00	BREAK				
	<p>CSEE Symposium: Biodiversity change across spatial scales during the Anthropocene / Symposium SCEE : Changement de la biodiversité à différentes échelles spatiales au cours de l'anthropocène</p> <p>Moderator/Modérateur Isla H. Myers-Smith</p>	<p>Invasions II / Envahissement II</p> <p>Moderator/Modérateur Ladd Johnson</p>	<p>Niches</p> <p>Moderator/Modérateur Azim Mallik</p>	<p>Pollination and Reproduction / Pollinisation et reproduction</p> <p>Moderator/Modérateur Marc Johnson</p>	
10:30	<p>10:30 - 10:50</p> <p>INV-06 Diversity in coastal marine communities: Species richness, diversity and human activities</p> <p>Mary I. O'Connor, Jarrett Byrnes, Robin Elahi</p>	<p>MR1-06 Origin matters: Non-native species are more disruptive than natives</p> <p>Anthony Ricciardi</p>	<p>MR2-07 The ecological niche: A history of simultaneous diversity and unity in research</p> <p>Michael Pedruski, Gregor Fussmann, Andrew Gonzalez</p>	<p>IN1-07 Below the surface: Do mycorrhizal associations influence pollination in low bush blueberry?</p> <p>Irene McKechnie, Risa Sargent</p>	
10:45	<p>10:50 - 11:10</p> <p>INV-07 Diversity trends - scale and structure matter</p>	<p>MR1-07 The consequences of nonnative omnivory</p> <p>Monica Granados, Gregor F. Fussmann</p>	<p>MR2-08 Discovering the climatic niche: A combined spatial and temporal approach</p> <p>Christopher Searcy, H. Bradley Shaffer</p>	<p>IN1-08 Density-dependent reproduction of forest herbs in logged landscapes – local vs. landscape effects on seed size</p> <p>Sarah Johnson, Ralph Cartar</p>	

	International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
	IN2-05 Recognizing the signs of balancing selection in the honey bee genome Brock Harpur , Amro Zayed	CA1-05 Evolution of predatory feeding in gastropods: Emergence of a complex feeding system from a developmental novelty Brenda Hookham , Louise Page	CA2-05 Juvenile personality correlates with characteristics of the early postnatal environment in free-living North American red squirrels Amanda Kelley , Murray Humphries, Andrew McAdam, Stan Boutin	MF2-05 Multi-century ice dynamics of Lake Suwa and Tornio River: Climate change, large-scale climate drivers, and weather Sapna Sharma , Jonathan Ruppert, John Magnuson	MF5-05 Subcellular partitioning and metabolic consequences of exposure to a mixture of cadmium and nickel in yellow perch (<i>Perca flavescens</i>) Ophelie Drevet , Peter G.C. Campbell, Patrice Couture
	IN2-06 Association mapping reveals the evolutionary forces maintaining genetic variation for gene expression Emily B. Josephs , Young Wha Lee, John R. Stinchcombe, Stephen I. Wright	CA1-06 Morphological clues to a mirrorimage developmental organizer on the wing surfaces of Vanessa butterflies Roohollah Abbasi , Jeffrey M. Marcus	CA2-06 Threats of predation and parasitism on tadpole foraging behaviour: Which enemy to avoid? Janet Koprivnikar , Laura Penalva	MF2-06 Development of an integrated habitat model of Rainy and Namakan Lakes Marianne Bachand , Jean Morin, Marie-Andrée Tougas-Tellier, Valérie Ouellet, Olivier Champoux, Patrice Fortin, Sylvain Martin, Julio Novia	MF5-06 Quantification of polycyclic musks HHCB and AHTN in fathead minnows from Edmonton, North Saskatchewan River, around Gold Bar Wastewater Treatment Plant Claudine Lefebvre , Linda Kimpe, Vance Trudeau, Jules Blais, Chris Metcalfe
PAUSE					
	Population Genetics / Génétique des populations	Aquatic Ecosystems in a Changing World: Nutrients and Primary Producers / Les écosystèmes aquatiques dans un monde changeant : nutriments et producteurs primaires	Behaviour: Competition and Cooperation / Éthologie : compétition et coopération	Invertebrate Neurobiology / Neurobiologie des invertébrés	Contaminants and Fish II / Contaminants et poissons II
	Moderator/Modérateur Howard Rundle	Moderator/Modérateur Andre L. Martel	Moderator/Modérateur Jeff Bowman	Moderator/Modérateur Russell Wyeth	Moderator/Modérateur Craig Purchase
	IN2-07 Evolution and origin of sympatric shallow-water morphotypes of lake trout, <i>Salvelinus namaycush</i> , in Canada's Great Bear Lake Les N. Harris , Louise Chavarie, Robert Bajno, Kimberly L. Howland, Simon H. Wiley, William M. Tonn, Eric B. Taylor	CA1-07 Changes in net anthropogenic phosphorus inputs to the St. Lawrence basin over the last 100 years Jean-Olivier Goyette , Elena Bennett, Robert W. Howarth, Roxane Maranger	CA2-07 Temperature-mediated changes in body size in <i>Daphnia pulex</i> : The role of the insulin pathway France Dufresne	MF2-07 Orienteering slugs: A potential role for magnetoreception in primarily odour-based navigation by the nudibranch <i>Tritonia diomedea</i> Russell C. Wyeth , James A. Murray	MF5-07 Lampricide (TFM) exposure impairs the olfactory response and feeding of young-of-the-year lake sturgeon (<i>Acipenser fulvescens</i>) Kathy Sakamoto , Bill Dew, Stephen Hecnar, Greg Pyle
		CA1-08 Regulation of algal community composition by fluxes of chemically reduced nitrogen – A synthesis of 20 years of ecosystem lake ecology Peter R. Leavitt , Matthew J. Bogard, Richard J. Vogt, Derek B. Donald, Kerri Finlay, Vanessa J. Swarbrick, Alain Patoine, Lynda Bunting, Eric Jeppesen, Morten Søndergaard	CA2-08 Male phenotype tracks competitive context in western black widow spiders (<i>Latrodectus hesperus</i>) Sheena Fry , Maydianne Andrade	MF2-08 Novel CUB domain accessory subunits of molluscan Nav1 channel Julia Fux , Neil Hsueh, J. David Spafford	MF5-08 Exposure to waterborne copper differentially inhibits sodium uptake by the skin and gills of larval rainbow trout Alex Zimmer , Colin Brauner, Chris Wood

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
11:00	<p>10:50 - 11:10</p> <p>INV-07 Diversity trends - scale and structure matter</p> <p>Brian McGill, Maria Dornelas, Anne Magurran, Nicholas Gotelli, Hideyasu Shimadzu, Faye Moyes</p>	<p>MR1-08 Early recruitment patterns reveal “hotspots” and “notspots” for the early detection of an invasive marine invertebrate</p> <p>Samuel B. Collin, Paul Edwards, Brian Leung, Ladd Johnson</p>	<p>MR2-09 Testing speciation by niche shifts using phylogenies</p> <p>Simon Joly, Peter B. Heenan, Peter J. Lockhart</p>	<p>IN1-09 Behavioural flexibility trumps the Marginal Value Theorem: A quantitative test using bumblebees and artificial flowers</p> <p>Paul Simpson, Lawrence Harder</p>	
11:15	<p>Moderator/Modérateur Elizabeth Kleynhans</p> <p>11:10 - 11:30</p> <p>INV-08 Community context and adaptation in a long-term field experiment</p> <p>Elizabeth J. Kleynhans, Sarah P. Otto, Peter B. Reich, Mark Vellend</p>	<p>MR1-09 Variation in cold tolerance among populations of the Asian clam <i>Corbicula fluminea</i></p> <p>Emilija Cvetanovska, Anthony Ricciardi</p>	<p>MR2-10 Functional niche differentiation in co-occurring congeneric plants</p> <p>Saiful I. Khan, Azim U. Mallik,</p>	<p>IN1-10 Do pollinators play a role in the evolution of plant defence against herbivores?</p> <p>Christina Thomsen, Risa Sargent</p>	
11:30	<p>11:30 - 12:00</p> <p>INV-09 Eco-evolutionary dynamics in communities across space</p> <p>Mark C. Urban</p>	<p>MR1-10 Population dynamics of invasive green crabs in mudflat and rocky intertidal zones in the upper Bay of Fundy</p> <p>Amelia MacDonald, Diana Hamilton, David Drolet</p>	<p>MR2-11 The influence of physiological traits on climatic niche occupancy and competitive ability in the polyploid plant, <i>Chamerion angustifolium</i> (Onagraceae)</p> <p>Ken A. Thompson, Brian C. Husband, Hafiz Maherali</p>	<p>IN1-11 The impact of global warming on floral traits in a high altitude plant: The interplay between genetics and the environment</p> <p>Johanne Brunet, Megan Van Etten</p>	
11:45			<p>MR2-12 Are Hutchinsonian Demons more abundant in natural vegetation?</p> <p>Brandon S. Schamp, Kaitlyn N. Teller, Jordan M. Fresque</p>	<p>IN1-11.1 Pollen limitation and its influence on natural selection</p> <p>Magdalena Bartkowska, Mark O. Johnston</p>	

12:00

NSERC 2014 DG competition results and how to apply (12:00-14:00 | Mansfield 5)

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-09 Population size is weakly related to quantitative genetic variation and trait differentiation in a stream fish</p> <p>Jacquelyn L.A. Wood, Dylan J. Fraser</p>	<p>CA1-09 Century-long variability of phytoplankton abundance in an oligotrophic estuary and possible influences of climate, agriculture and peat extraction</p> <p>Alain Patoine, Frantz Dorcel Ady</p>	<p>CA2-09 Using exponential random graph models to explore dominance networks in a cooperatively breeding bird</p> <p>Cody Dey, James Quinn</p>	<p>MF2-09 Evolution of novel Kv3 potassium channels from <i>Polyorchis penicillatus</i></p> <p>Warren Gallin</p>	<p>MF5-09 Effects of antidepressant drug venlafaxine on hypothalamic-pituitary interrenal axis in rainbow trout</p> <p>Nataliya Melnyk-Lamont, Mathilakath M. Vijayan</p>
<p>IN2-10 The population structure and genetic variation in Atlantic Wolffish in the North Atlantic using mitogenomics</p> <p>Linda Lait, Steve Carr</p>	<p>CA1-10 Modeling algal toxin concentrations in a changing world: The importance of space-time and cross-scale interactions</p> <p>Zofia Ecaterina Taranu, Pierre Legendre, Irene Gregory-Eaves, Marieke Beaulieu</p>	<p>CA2-10 Correlates of alternative migratory strategies in a partially migratory passerine</p> <p>Catherine Dale, Joseph Nocera, Trent University, Kurt Kyser, Laurene Ratcliffe</p>	<p>MF2-10 Seasonal photoperiod dependent plasticity in GABAergic signaling in anoxia-intolerant snail neurons is due to a shift in GABA reversal potential</p> <p>Leslie Buck, Hilary Bond</p>	<p>MF5-10 Ionocytes differentiation and gill development in larval zebrafish: Importance of the parathyroid hormone</p> <p>Raymond W.M. Kwong, Steve F. Perry</p>
	<p>CA1-11 A periphyton-based bioassessment index to assess cumulative effects on lakes within the Muskoka River watershed</p> <p>Mark MacDougall, Andrew Paterson, Jennifer Winter, Roland Hall</p>	<p>CA2-11 Linking personality and emission of alarm calls in eastern chipmunks (<i>Tamias striatus</i>), based on observations and experiments in a natural system</p> <p>Charline Couchoux, Dany Garant, Denis Réale</p>	<p>MF2-11 Locust multineuronal responses to simple and complex visual motion</p> <p>Jack Gray, Paul Dick</p>	<p>MF5-11 Probing the mechanisms of zinc- and calcium-induced mitotoxicity using real-time flow cytometry</p> <p>Mahmoud Sharaf, Michael van den Heuvel, Don Stevens, Collins Kamunde</p>
<p>IN2-12 Adoption, twinning, and heritability: Lessons learned from a pedigree of 4106 polar bears in Western Hudson Bay</p> <p>René Malenfant, David Coltman, Evan Richardson, Nicholas Lunn, Ian Stirling, Elizabeth Adamowicz, Corey Davis</p>	<p>CA1-12 Metagenomics insights into the taxonomic identity and functional profile of toxic cyanobacteria bloom communities in a tropical reservoir</p> <p>Marcele Laux, Ricardo Vialle, Gabriel R. Fernandes, Miguel J. Ortega, Alessandra Giani</p>	<p>CA2-12 Non-kin co-operation in flying squirrels</p> <p>Jeff Bowman, Paul J. Wilson</p>	<p>MF2-12 Flight muscle coordination and body orientation during collision avoidance in flying locusts</p> <p>Cody Manchester, Jack Gray</p>	<p>MF5-12 Substrate specificity of zebrafish cytochrome 1B1 using high throughput screening</p> <p>Derek Alsop, Joanna Wilson</p>

Résultats du concours DG CRSNG 2014 et comment soumettre sa candidature (12:00-14:00 | Mansfield 5)

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>CSEE Symposium: Effects of community diversity and composition on evolutionary change / Symposium CSEE : Effets de la diversité et de la composition de la communauté sur les changements évolutifs</p> <p>Moderator/Modérateur Elizabeth Kleynhans</p>	<p>Invasions III / Envahissement III</p>	<p>Functional traits / Caractères fonctionnels</p>	<p>Self-Incompatibility and Inbreeding / Auto-incompatibilité et consanguinité</p>
		Moderator/Modérateur Anthony Ricciardi	Moderator/Modérateur David Green	Moderator/Modérateur Jillian Detwiler
13:30	<p>13:30 - 14:00</p> <p>INV-10 Evolutionary history, plant traits, and community composition as drivers of aphid contemporary evolution</p> <p>Martin M. Turcotte, Nash E. Turley, Amaneet Lochab, Marc T. J. Johnson</p>	<p>MR1-12 Incorporating biotic interactions in species distribution models: A theoretical analysis</p> <p>Kristina Enciso, Brian Leung</p>	<p>MR2-13 Animal body size change: Climate, abundance, complexity</p> <p>David M. Green</p>	<p>IN1-12 In what type of environments is inbreeding depression strongest?</p> <p>Ahmad Kamran-Disfani, Aneil Agrawal</p>
13:45		<p>MR1-13 Intelligent distribution of detection efforts: Accounting for correlated probability of detection</p> <p>Dylan Schneider, Brian Leung</p>	<p>MR2-14 What is body size - from the 'plants-eye view'?</p> <p>Amanda Tracey, Kimberly Stephens, Lonnie Aarssen</p>	<p>IN1-13 Role of parasite transmission in promoting inbreeding: The impact on sib-transmission</p> <p>Jillian Detwiler, Charles Criscione</p>
14:00	<p>14:00 - 14:30</p> <p>INV-11 Evolution in situ: Evolutionary responses to ocean acidification in microbial communities</p> <p>Sinead Collins</p>	<p>MR1-14 Modeling uncertainty in propagule supply: Potential implications of stochastic chains towards patterns of species establishment</p> <p>D. Andrew R. Drake, Nicholas E. Mandrak</p>		<p>IN1-14 The genomic signature of selection for self-compatibility in <i>Leavenworthia alabamica</i></p> <p>Adam Herman</p>
14:15		<p>MR1-15 Studying 2 sides of the same coin: Resource impacts and responses to spotted wing drosophila invasion</p> <p>Tanya Stemberger, Bernie Roitberg</p>	<p>MR2-16 Graph theoretical analysis of competitive hierarchies</p> <p>Mark R.T. Dale, Tan Bao Nguyen-Phuc</p>	<p>IN1-15 Increased reproductive effort in response to declining reproductive value within a semelparous reproductive episode</p> <p>P. William Hughes, Andrew M. Simons</p>

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Arctic and Alpine Population Genetics / Génétique des populations arctiques-alpines	Phenotypic Response and Sexual Selection / Réponse phénotypique et sélection sexuelle	Social Behaviour / Comportement social	The Ecology of Mercury / L'écologie du mercure	Environmental Physiology / Physiologie environnementale
Moderator/Modérateur Albrecht Schulte-Hostedde	Moderator/Modérateur Gregor Fussmann	Moderator/Modérateur Simon Reader	Moderator/Modérateur Alexandre Poulain	Moderator/Modérateur Kathleen Gilmour
<p>IN2-13 High-resolution analysis using genetic marker, SNPs to resolve population differentiation in polar bears (<i>Ursus maritimus</i>) of the Hudson Bay complex</p> <p>Michelle Viengkone, Rene Malenfant, Corey S. Davis, Andrew E. Derocher, Vicki Sahanatian, Markus Dyck, Martyn Obbard, Evan Richardson, Ian Stirling</p>	<p>CA1-13 Condition-dependent sexual dimorphism in body shape: Testing Rowe's Rule in antler flies</p> <p>Mathew Oudin, Russell Bonduriansky, Howard Rundle</p>	<p>CA2-13 When being the center of the attention is detrimental: The presence of copiers may promote the use of evasive tactics aimed at preventing social learning opportunities</p> <p>Frédérique Dubois</p>	<p>MF2-13 Ecosystem and limnological influences on mercury in lake food webs across Nova Scotia</p> <p>Linda Campbell, Carolyn Stevens, Jason LeBlanc</p>	<p>MF5-13 Regulation of energy metabolism during social interactions in rainbow trout: A role for AMPK</p> <p>Kathleen M. Gilmour, Paul M. Craig, Rashpal S. Dhillon, Gigi Y. Lau, Jeffrey G. Richards</p>
	<p>CA1-14 Evolution of egg size in polyandrous shorebirds: Limited male incubation or female limited production?</p> <p>Darryl Edwards</p>	<p>CA2-14 Do eastern carpenter bees use cuticular hydrocarbons to recognize nest-mates?</p> <p>Miriam Richards, Andreea Botezatu, Jess Vickruck, Gary Pickering</p>	<p>MF2-14 Hg biogeochemistry in tundra lakes following retrogressive shoreline thaw slump events</p> <p>Adam J. Houben, Jules M. Blais</p>	<p>MF5-14 The amphibian (<i>Xenopus laevis</i>) type I interferon response to Frog Virus 3: New insight into ranavirus pathogenicity</p> <p>Leon Grayfer, Jacques Robert</p>
<p>IN2-15 Developing genetic markers to distinguish Ontario caribou ecotypes in the presence of atypical molecular evolution</p> <p>Adam Marques, Paul Wilson, Ken Abraham, Cornelya Klutsch</p>	<p>CA1-15 Between-sex genetic covariance constrains the evolution of sexual dimorphism in <i>Drosophila melanogaster</i></p> <p>Fiona Ingleby, Paolo Innocenti, Howard D. Rundle, Edward H. Morrow</p>	<p>CA2-15 Behavioural plasticity and division of labour in advanced ant societies</p> <p>Ana Sofia Ibarraran-Viniegra, James Traniello, Marc Seid, Ehab Abouheif</p>	<p>MF2-15 Evaluating how the metabolically diverse purple non-sulfur bacterium <i>Rhodobacter capsulatus</i> can affect mercury redox cycling</p> <p>Daniel S. Grégoire, Alexandre J. Poulain</p>	<p>MF5-15 Thermal sensitivity of mitochondria from arctic charr heart: Mitochondrial respiration and ROS production</p> <p>Felix Christen, Véronique Desrosiers, Nathalie LeFrançois, France Dufresne, Grant W. Vandenberg, Pierre U Blier</p>
<p>IN2-16 Assessment of the extirpated Maritimes walrus using morphological and ancient DNA analyses</p> <p>Timothy R. Frasier, Brenna A. McLeod, Zoe Lucas</p>	<p>CA1-16 Correlations between male and female genitalia and sexually dimorphic ornamentation in the feather mite genus <i>Trouessartia</i> (Arachnida: Acari)</p> <p>Kaylee Byers, Heather Proctor</p>	<p>CA2-16 Brain levels of isotocin and vasotocin are related to status and social behaviour in a cooperatively breeding cichlid fish</p> <p>Adam Reddon, Constance O'Connor, Susan Marsh-Rollo, Sigal Balshine, Magdalena Gozdowska, Ewa Kulczykowska,</p>	<p>MF2-16 You are what you eat, and where you live: Habitat-use and mercury concentrations in the Nile perch stock of Lake Nabugabo, Uganda</p> <p>Dalal Hanna, Lauren Chapman, Amanda Poste</p>	<p>MF5-15.1 Mechanism of olfactory toxicity of copper: From gene to behaviour</p> <p>Ali Azizishirazi, Bill Dew, Greg Pyle</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
14:30	14:30 - 15:00 INV-12 Back from the brink: Population and community evolutionary rescue in changing environments Andrew Gonzalez	MR1-16 The European fire ant in Eastern Canada: Origin, population structure, nuptial flights and impact on native fauna Barry Hicks , Dawn Marshall	MR2-17 Using functional traits to predict predator/prey interactions Pierre-Marc Brousseau , Dominique Gravel, Camille Albouy, Timothée Poisot, Tanya Handa	IN1-16 Evidence for reproductive interference between sexual and asexual populations of the Easter daisy (<i>Townsendia hookeri</i> , Asteraceae) Alice Garani, Jeannette Whitton	
14:45		MR1-17 Biological characteristics of a rodent species in expansion Adrien André , Johan Michaux, Virginie Millien	MR2-18 Why are genomes larger in polar environments? Nicholas Jeffery , T. Ryan Gregory	IN1-17 Mutations, the G-matrix and stable long-term partial self-fertilization Mark Johnston	
15:00	BREAK				
15:30	Auditorium				
	15:30 - 16:30 CSEE Plenary Moderator: Judith Myers, CSEE President INV-13 From tangled banks to tangled priorities: Ecology, evolution, and the communication of science Jeffrey Hutchings				
16:30	Foyers (3rd and 4th floors)				
	16:30 - 18:00 Poster and Mixer Session 1 (see page 63-65 for more détails)				
18:30	Auditorium				
	18:30 - 19:30 G2B Public Outreach Lecture Moderator: Andrew Hendry INV-14 Halting deforestation: One piece of the climate mitigation puzzle Catherine Potvin @Dialogsustainab				

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-17 Spatial and temporal genetic structure of the Macoun's Arctic butterfly (<i>Oeneis macounii</i>)</p> <p>Angela Gradish, Gard Otis, Nusha Keyghobadi, Felix Sperling</p>	<p>CA1-17 The evolution of weaponry and aggressive behaviour in North American field crickets</p> <p>Kevin A. Judge, Briana E. Smith, Shawna Ohlmann, William H. Cade</p>	<p>CA2-17 Ectoparasites modify escape behaviour, but not performance, in a coral reef fish</p> <p>Jeffrey Barnes</p>	<p>MF2-17 Dissolved organic matter kinetically controls mercury bioavailability to bacteria</p> <p>Sophie A. Chiasson-Gould, Jules M. Blais, Alexandre J. Poulain</p>	<p>MF5-15.2 High-altitude adaptation and mitochondrial physiology in deer mice</p> <p>Sajeni Mahalingam, Alex D. Connaty, Grant B. McClelland</p>
<p>IN2-18 Contrasting spatial patterns of neutral and functional genetic variation across the widespread distribution of wolverine (<i>Gulo gulo</i>) in Canada</p> <p>Yessica Rico, James Morris-Pocock, Joanna Zigouris, Joseph J. Nocera, Christopher J Kyle</p>	<p>CA1-18 Fitness-associated sex in the filamentous fungus <i>Aspergillus nidulans</i></p> <p>Nicolas O. Rode, Sijmen Schoustra, Devin Arbuthnott, Howard Rundle, Rees Kassen,</p>	<p>CA2-18 Experience and evolution shape how fish learn from others</p> <p>Simon M. Reader</p>		<p>MF5-15.3 GLUT Family Relationships: It's Complicated</p> <p>Courtney A. Deck, Chris M.R. LeMoine, Patrick J. Walsh</p>

PAUSE

Auditorium

15:30 - 16:30

Conférence plénière de la SCEE

Modérateur : Judith Myers, présidente SCEE

INV-13

From tangled banks to tangled priorities: Ecology, evolution, and the communication of science

Jeffrey Hutchings

Foyers (3e et 4e étages)

16:30 - 18:00

1ère séance de présentations sur affiche & réseautage (voir page 63-65 pour plus de détails)

18:30 - 19:30

Session ouverte au public G2B

Modérateur : Andrew Hendry

INV-14

Halting deforestation: One piece of the climate mitigation puzzle

Catherine Potvin @Dialogsustainab

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>SCL Symposium: From lakes to coastal zones - integrating aquatic ecosystems at different scales / Symposium SCL : Des lacs aux zones côtières : Intégration des écosystèmes aquatiques à différentes échelles</p> <p>Moderator/Modérateur Alison Derry</p>	<p>Landscape Ecology I / Écologie des paysages I</p>	<p>Natural Selection and Adaptation / Sélection naturelle et adaptation</p>	<p>Osmoregulation / Osmorégulation</p>
		Moderator/Modérateur Steven Brady	Moderator/Modérateur Graham Bell	Moderator/Modérateur Jason Bystriansky
8:30	<p>08:30 - 09:15</p> <p>INV-15 Biovector transport of contaminants from oceans to terrestrial and freshwater ecosystems</p> <p>Jules M. Blais</p>	<p>MR1-18 Picking up puke: A method to monitor small mammal communities across landscapes</p> <p>Leanne M. Heisler, Chris M. Somers, Ray G. Poulin</p>	<p>MR2-19 Human influences on the strength and shape of phenotypic selection</p> <p>Vincent Fugère, Andrew Hendry</p>	<p>IN1-18 Role of acid sensing ion channels (ASICs) in Na⁺ transport in rainbow trout</p> <p>Agnieszka Dymowska, Aaron Schultz, Salvatore Blair, Danuta Chamot, Greg Goss</p>
8:45		<p>MR1-19 The landscape of food: a new deer forage quality index based on near-infrared spectra of feces</p> <p>Pierre-Olivier Jean, Robert Bradley, Jean-Pierre Tremblay</p>	<p>MR2-20 Evolution of Daphnia populations in contaminated environments</p> <p>Katie Millette, Melania Cristescu</p>	<p>IN1-19 Ion balance during smoltification in pink salmon (<i>Oncorhynchus gorbuscha</i>): Characterization of sodium flux rates and whole body permeability</p> <p>Emily J. Gallagher, Colin J. Brauner</p>
9:00		<p>MR1-20 The nettle in the haystack: tracking pollen distribution to locate important plant populations</p> <p>Rebecca J. Parker, Lesley G. Campbell, Eric de Noronha Vaz,</p>	<p>MR2-21 Fluctuating natural selection in red squirrels: The role of the environment and alternative tactics</p> <p>Andrew G. McAdam, Murray M. Humphries, Stan Boutin</p>	<p>IN1-20 The effects of lampricide, 3-Trifluoromethyl-4-nitrophenol, on gill-function and structure in rainbow trout and larval lamprey in ion-poor water</p> <p>Lisa A. Sorensen, Jonathan M. Wilson, Michael P. Wilkie</p>
9:15	<p>09:15 - 10:00</p> <p>INV-16 Direct and indirect effects of a potent estrogen on an aquatic food web</p> <p>Karen Kidd, Mike Paterson, Mike Rennie, Cheryl Podemski, Dave Findlay, Paul Blanchfield, Karsten Liber</p>	<p>MR1-21 From pollen DNA to floristic mapping</p> <p>Philippe Marchand, Ignacio H. Chapela</p>	<p>MR2-22 Effects of red squirrel seed predation on natural selection of white spruce cones</p> <p>Kayla Deasley, Dr. Murray Humphries, Dr. Stan Boutin, Dr. Andrew McAdam</p>	<p>IN1-21 The effect of water ion composition and exercise level on the rate and degree of acid-base compensation during hypercarbia exposure in rainbow trout</p> <p>Katelyn Tovey, Colin J. Brauner</p>



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Heat/Cold Stress I / Thermostress et cryostress I	Ecology and Evolution / Écologie et evolution	Forest Animal Ecology / Écologie des animaux forestiers	Metabolism and Mitochondria / Métabolisme et mitochondries	Skeletal Development / Développement du squelette
Moderator/Modérateur Brent Sinclair	Moderator/Modérateur Marie-Julie Favé	Moderator/Modérateur Judith Myers	Moderator/Modérateur Kenneth Welch	Moderator/Modérateur Tamara Franz-Odenaal
<p>IN2-19 A mechanistic approach to multiple stressor effects: Using thermal performance curves to predict non-additive outcomes</p> <p>Christopher Harley, Kristy Kroeker, Becca Kordas, Brian Cheng, Jill Bible, Seth Miller,</p>	<p>CA1-19 Testing the eco-evolutionary dynamics of habitat selection with foraging behaviour</p> <p>Douglas Morris</p>	<p>CA2-19 Managing for mature and old-growth forest in Quebec's boreal: How much is enough to maintain native birds?</p> <p>Rebecca Tittler, Pierre Drapeau, Alain Leduc</p>	<p>MF2-18 Glucose, fructose, and sucrose flux through the flight muscles of hummingbirds and nectar bats</p> <p>Kenneth C. Welch Jr., Chris Chin-Wah Chen</p>	<p>MF5-16 Experimentally induced homeotic shifts in anterior axial patterning mimic events in the evolution of the tetrapod skull</p> <p>Hillary C. Maddin, Nadine Piekarski, James Hanken</p>
<p>IN2-20 What mechanisms underlie low-temperature loss of ion homeostasis in insects?</p> <p>Lauren Des Marteaux, Brent J. Sinclair</p>	<p>CA1-20 Characterizing the ecological effects of stickleback evolution: A stoichiometric approach</p> <p>Rana W. El-Sabaawi, Misha Warbanski, Blake Matthews, Seth Rudman</p>	<p>CA2-20 Trends among cyclic populations of forest Lepidoptera and their responses to climate change</p> <p>Judith Myers, Jenny S. Cory</p>	<p>MF2-19 Characterization of nesfatin-1, a novel metabolic protein in domestic animals</p> <p>Katie A. Morton, Matthew Loewen, John Harding, Julia Montgomery, Lynn Weber, Suraj Unniappan</p>	<p>MF5-17 Quantative descriptions of limb tissues in 3D, cells, vessels and ECM</p> <p>Donald A. Fowler, Hans C.E. Larsson</p>
<p>IN2-21 Chillin' in Ontario?! - Overwintering stress tolerance of <i>Drosophila suzukii</i></p> <p>Ruth Jakobs, Tara D. Gariepy, Brent J. Sinclair</p>	<p>CA1-21 The importance of plant genetic variation and contemporary evolution in driving ecosystem processes</p> <p>Connor Fitzpatrick, Nathan Basiliko, Michael Preston, Marc Johnson</p>	<p>CA2-21 The dynamic lives of tree cavities, a critical multi-annual resource for cavity-using vertebrates: change in cavity characteristics and the sequence of use by birds and mammals across 17 years</p> <p>Amanda Edworthy, Kathy Martin, Karen Wiebe</p>	<p>MF2-20 Genotype incompatibility in <i>Drosophilids</i>: A complex mitochondrial issue</p> <p>Pierre U. Blier, David M. Rand, Nicolas Pichaud, Robert M. Tanguay</p>	<p>MF5-18 Skeleton development of the feather star <i>Florometra serratissima</i> and evolution of spicule matrix associated proteins in ambulacrarians</p> <p>Ariane Comeau, Christopher Cameron</p>
<p>IN2-22 What's Frost got to do with it? Some hand-wringing about a cold-related gene in <i>Drosophila</i></p> <p>Brent J. Sinclair, Steffen P. Graether, Hiroko Udaka</p>	<p>CA1-22 Climate change on Sky Islands drive novelty in a core developmental gene network and its phenotype</p> <p>Marie-Julie Favé, Robert A. Johnson, Ehab Abouheif</p>	<p>CA2-22 The life and times of black spruce on permafrost: tree ring studies in the warming north</p> <p>Anastasia Sniderhan, Jennifer Baltzer</p>	<p>MF2-21 Wild-type vs. cybrid, how far mitochondria can be influent in northern redbelly dace (<i>Chrosomus eos</i>)?</p> <p>Léo Deremiens, Hélène Glémet, Annie Angers, Bernard Angers</p>	<p>MF5-19 The sclerotic ring: Evolution and development in squamates</p> <p>Jade Atkins, Tamara Franz-Odenaal</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
9:30	09:15 - 10:00 INV-16 Direct and indirect effects of a potent estrogen on an aquatic food web Karen Kidd , Mike Paterson, Mike Rennie, Cheryl Podemski, Dave Findlay, Paul Blanchfield, Karsten Liber	MR1-22 The effects of narrow forest trails on movement patterns of carnivores and their prey in the foothills of the Rocky Mountains Colin A. Pattison , Michael S. Quinn, Pat Dale, Carla P. Catterall	MR2-23 Adaptation to new environments: Using introduced Great Lakes Chinook salmon as a model system Michael Thorn , Yolanda Morbey	IN1-22 Characterization of Na ⁺ uptake in white sturgeon (<i>Acipenser transmontanus</i>) to gain insight into the mechanism of acid-base and ion regulation in a basal, water-breathing actinopterygian Ryan B. Shartau , Kevin V. Brix, Colin J. Brauner	
9:45		MR1-22.1 Climate, habitat, and competitive species: Hierarchical models to understand factors influencing species range dynamics Ilona Naujokaitis-Lewis , Marie-Josée Fortin	MR2-24 Examining the adaptive potential of ragweed (<i>Ambrosia artemisiifolia</i>) Brechann McGoey	IN1-23 Physiological responses of digestion in the crabs <i>Carcinus maenas</i> and <i>Cancer irroratus</i> in low salinity Chantelle Penney , Iain McGaw	
10:00	BREAK				
	SCL Symposium: From lakes to coastal zones - integrating aquatic ecosystems at different scales / Symposium SCL : Des lacs aux zones côtières : Intégration des écosystèmes aquatiques à différentes échelles Moderator/Modérateur Alison Derry	Landscape Ecology II / Écologie des paysages II	Sexual Selection / Sélection sexuelle	Blood and Respiration / Sang et respiration	
		Moderator/Modérateur Stephen Petersen	Moderator/Modérateur Clint Kelly	Moderator/Modérateur Jonathan Stecyk	
10:30	10:30 - 11:15 INV-17 Nitrogen in aquatic systems 100 years after Haber-Bosch: A Québec perspective Roxane Maranger	MR1-23 Endangered species and climate change in Canada Dennis Murray , Michael Peers, Yasmine Majchrzak, Catarina Ferreira	MR2-25 Battle of the sexes: May the best fly win in reproduction Trinh Nguyen , Amanda Moehring	IN1-24 The effects of feeding, temperature, sex, and weight on respiratory motor output from brainstem-spinal cord preparations of the cane toad, <i>Bufo marinus</i> Andrew D. Peters , Stephen G. Reid	
10:45		MR1-24 Wolverine range contraction in the Canadian Rockies: Is it the weather, or the neighbourhood? Jason T. Fisher , Nicole Heim, Anthony Clevenger, John Paczkowski	MR2-26 Intersexual differences in mating swarm dynamics in temperate bats: Do males acquire higher frequent flyer status? Lynne Burns , Hugh Broders	IN1-25 Comparing blood flow between diploid and triploid zebrafish Christopher Small , Dr. Bryan Crawford, Dr. Tillmann Benfey	

	International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
	<p>IN2-23 Does high extracellular K⁺ cause muscle depolarization and chill-coma? An in vivo test with the migratory locust</p> <p>Heath MacMillan, Anders Findsen, Thomas Holm Pedersen, Johannes Overgaard</p>	<p>CA1-23 Eco-evolutionary feedbacks in a seasonal world and Chitty super-cycles</p> <p>Gustavo S. Betini, Andrew McAdam, Cortland Griswold, Ryan Norris</p>	<p>CA2-23 Aggression and social dominance of small mammals in recently logged forests</p> <p>Nikhil Lobo, Lila Karolak, Lindsey Valliant, John S. Millar</p>	<p>MF2-22 Effects of diet macronutrient composition on flight performance and fuel use in a migratory songbird</p> <p>Christopher G. Guglielmo, Alexander R. Gerson</p>	<p>MF5-20 Secondary cartilage and chondroid bone in dinosaur embryos: Insights on the evolution of skeletal tissues</p> <p>Alida Bailleul</p>
	<p>IN2-24 Stress and reproductive hormones, and performance of a global invader (cane toad) during exposure to acute and chronic thermal stressors</p> <p>Edward Narayan</p>	<p>CA1-24 Comparative transcriptomics of viable and nutritive embryos in the direct developing marine snail, <i>Crepidula navicella</i></p> <p>Maryna Lesoway, Rachel Collin, Ehab Abouheif</p>	<p>CA2-24 From the lab to the real world: Understanding the effects of population density on stress and maternal care in a wild rodent (<i>Peromyscus maniculatus</i>)</p> <p>Gillian Merritt, Dr. Amy Newman, Dr. Andrew McAdam</p>	<p>MF2-23 Metabolism and ecophysiology of the anadromous climbing gobies (Sicydiinae) in Guadeloupe</p> <p>Christophe LeMoine, Frederic Busson, Clara Lord, Ludovic Merveille, Philippe Keith, Dominique Monti</p>	<p>MF5-21 What is a tooth socket? The development and phylogenetic significance of thecodonty in amniotes</p> <p>Aaron R.H. LeBlanc, Robert R. Reisz</p>
PAUSE					
	Heat/Cold Stress II / Thermostress et cryostress II	Ecology and Evolution of Disease / Écologie et évolution des maladies	Comparative and Evolutionary Biomechanics / Biomécanique comparative et évolutive	The Ecology of Carbon II / L'écologie du carbone II	Parasite and Parasitoid Host Ranges / Gammes d'hôtes des parasites et parasitoïdes
	Moderator/Modérateur Jennifer Sunday	Moderator/Modérateur Graham Thompson	Moderator/Modérateur Chrisopher Cameron	Moderator/Modérateur Michael Rennie	Moderator/Modérateur Jonathan Mee
	<p>IN2-25 Cooling off hot headed lizards: Thermoregulatory bias and behaviours in bearded dragons</p> <p>Ian Black</p>	<p>CA1-25 Feeding damage induces transgenerational disease resistance in insects</p> <p>Grant L. Olson, Judith H. Myers, Jenny S. Cory</p>	<p>CA2-25 Interspecies comparison of the mechanical properties and biochemical composition of byssal threads</p> <p>Zeineb Bouhlef, Bertrand Genard, Frédéric Byette, Emily Carrington, José Babarro, Augusto A.V. Flores, Christian Pellerin, Isabelle Marcotte, Réjean Tremblay,</p>	<p>MF2-24 Climate change drives a shift in peatland ecosystem plant communities: Implications for ecosystem function and stability</p> <p>Catherine M. Dieleman, Brian A. Branfireun, Zoe Lindo</p>	<p>MF5-22 Behaviour and host-symbiont relationships in thysirid bivalves</p> <p>Suzanne C. Dufour, Jason Laurich, Heather Zanzler</p>
	<p>IN2-26 Thermal pollution as novel habitat: A case study of mallard ducks (<i>Anas platyrhynchos</i>) overwintering in Edmonton, Alberta, Canada</p> <p>Patrick O. Welsh, Keith B. Tierney, Cynthia A. Paszkowski</p>	<p>CA1-26 Evolution of drug resistance in natural populations of <i>Pseudomonas aeruginosa</i></p> <p>Gabriel G. Perron, Rees Kassen</p>	<p>CA2-26 Functional constraints of ciliated gills and the hemichordate evolutionary stasis</p> <p>Maureen Vo, Fernando Villalpando, Dominique Pelletier, Christopher Cameron</p>	<p>MF2-25 Effects of temperature and atmospheric carbon dioxide on microbe-mediated nitrogen and carbon dynamics of the boreal bryosphere</p> <p>Margaret Elaine Sawatzky, Zoe Lindo</p>	<p>MF5-23 Impact of attack by <i>Eurosta</i> and <i>Rhopalomyia</i> on their ancestral and novel <i>Solidago</i> hosts</p> <p>Zoryana Shibel, Stephen Heard</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
11:00 ↑	10:30 - 11:15 INV-17 Nitrogen in aquatic systems 100 years after Haber-Bosch: A Québec perspective Roxane Maranger	MR1-25 Knowledge gaps in disturbance-mediated biodiversity loss studies Grace Murphy , Tamara Romanuk	MR2-27 Context-dependent inbreeding avoidance: Female mating status alters the expression of two forms of kin recognition in the guppy Mitchel Daniel , Helen Rodd	IN1-26 Comparing cardiac troponin C from three vertebrates: Insight into the evolution of cardiac contractile function Elizabeth Sears , Todd Gillis	
11:15	11:15 - 12:00 INV-18 Plankton ecology in spatially variable environments Beatrix Beisner	MR1-26 Land use dynamics and the shelf life of conservation solutions in Canada Cassandra Robillard , Jeremy Kerr	MR2-28 Evidence of multiple paternity in the Deep-Sea shrimp <i>Acanthephyra pelagica</i> Erika Jorquera , Ellen Kenchington, Daniel Ruzzante	IN1-27 Larval lamprey (<i>Lampetra tridentata</i>) provide insight into possible selective pressures driving the evolution of early chordate gill function Michael Sackville , Jonathan Wilson, Colin Brauner	
11:30		MR1-27 Wise choice of snow metrics: Fresh snow more relevant than snow cover for space use of an alpine ungulate Julien H. Richard , Steeve D. Côté	MR2-29 Male mating behaviour in relation to the temporal variation in operational sex ratio Guillaume Body , Robert B. Weladji, Øystein Holand, Mauri Nieminen	IN1-28 The oxygen supply and demand of shark hearts Georgina K. Cox , Anthony P. Farrell	
11:45		MR1-28 Distribution of polar bear denning habitat in Canada: A meta analysis of existing sources and gaps Stephen D. Petersen , Jeff W. Higdson, Heather Penner, Geoff York	MR2-30 Sexually antagonistic and frequency-dependent selection in bank voles modulates investment towards reproduction or survival Mikael Mokkonen , Esa Koskela, Tapio Mappes	IN1-29 Validation of the iSTAT system for the analysis of fish blood Till Harter , Ryan Shartau, Tony Farrell, Colin Brauner	

12:00

NSERC Scholarships & Fellowships (12:00-13:30 | International 1)

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-27 Stress profiles of New World flying squirrels: Impacts of acute stress induced by live-trapping and handling</p> <p>Lanna M. Desantis, Candace V. Lahoda, Jeff Bowman, Rudy Boonstra, Gary Burness</p>	<p>CA1-27 Climate change or human activities: What is the principal determinant of malaria vector distributions in East Africa through time?</p> <p>Emily Acheson, Jeremy Kerr</p>	<p>CA2-27 Mechanical properties of striped bass fish skin: Evidence of an exotendon function of the stratum compactum</p> <p>Lawrence Szewciw, Deju Zhu, Frank Vernerey, Francois Barthelat</p>	<p>MF2-26 Global budget of GHG for beaver ponds in Quebec, Canada</p> <p>Annick St-Pierre, Jason Samson, Paul A. del Giorgio</p>	<p>MF5-24 Study of the host range of a hymenopteran parasitoid found in the Nearctic but endemic to the Palearctic</p> <p>Vincent A. D. Hervet, Kevin D. Floate, Rob A. Laird</p>
<p>IN2-28 Fish in hot water: The effects of multi-day heat stress on wild juvenile Atlantic salmon (<i>Salmo salar</i>)</p> <p>Emily Corey, Natalie Donaher, Sacha LeBlanc, Dr. Tommi Linnansaari, Dr. Suzanne Currie, Dr. Richard Cunjak</p>	<p>CA1-28 Experimental evolution of antibiotic resistance in <i>Pseudomonas aeruginosa</i></p> <p>Anita Melnyk, Rees Kassen</p>	<p>CA2-28 Links between morphology and behaviour in scallops with different swimming styles</p> <p>Isabelle Tremblay, Helga E. Guderley</p>	<p>MF2-27 Quantifying methane ebullition flux with an echosounder: New insights into lake methane dynamics</p> <p>Tonya DelSontro, Ilia Ostrovsky, Sebastien Sollberger, Bernhard Wehrli</p>	<p>MF5-25 Parasite communities of two three-spined stickleback (<i>Gasterosteus aculeatus</i>) populations in subarctic Norway - Effects of a local-scale host introduction</p> <p>Jesper Andreas Kuhn, Jonas Jakobsen, Roar Kristoffersen, David J. Marcogliese, Rune Knudsen, Per-Arne Amundsen</p>
<p>IN2-29 The heat shock response in embryonic lake whitefish (<i>Coregonus clupeaformis</i>)</p> <p>Daniel I. Stefanovic, Chris M. Somers, Joanna Y. Wilson, Doug R. Boreham, Bruce Power, Richard G. Manzoni</p>	<p>CA1-29 Sex in eukaryotic pathogens</p> <p>Valdirene Lima, Anna Marie Jansen, Louisa A. Messenger, Michael A. Miles, Martin S. Llewellyn</p>	<p>CA2-29 Beyond the threshold of functional configuration: on the origin of novel defensive organ "Nasus" in Nasutitermitinae (Isoptera: Termitidae)</p> <p>Tomonari Kaji, Thomas Bourguignon, Jonas Keiler, Toru Miura</p>	<p>MF2-28 Carbon sources supporting native and naturalized fish populations in a large central Saskatchewan reservoir</p> <p>Chance C. Prestie, Jeff J. Hudson, Jeff M. Sereda</p>	<p>MF5-26 The evolution of nondiscrimination in parasites: An individual based model</p> <p>Jen Schellinck, Mark Forbes</p>
<p>IN2-30 Limited variation in thermal acclimation of thermal tolerance, heat shock proteins and metabolic scope among lake trout (<i>Salvelinus namaycush</i>) populations</p> <p>Nicholas I. Kelly, Gary Burness, Jenni L. McDermid, Chris C. Wilson</p>	<p>CA1-30 Experimental evolution of resistance to parasites under relaxed selection in the wild and the repeatable loss of sexual dimorphism</p> <p>Felipe Dargent, Marilyn E. Scott, Andrew P. Hendry, Gregor F. Fussmann</p>	<p>CA2-30 Myosin heavy chain expression of the flight and leg muscles of hummingbirds and zebra finches</p> <p>Brandy P. Velten, Kenneth C. Welch, Jr.</p>	<p>MF2-29 Drivers of pelagic respiration in boreal lakes</p> <p>Matthew Bogard, Paul del Giorgio,</p>	<p>MF5-27 On the ecological relevance of specialist parasites: Lessons from guppies and Gyrodactylus</p> <p>Felipe Pérez-Jvostov, Andrew Hendry, Gregor Fussmann, Marilyn Scott</p>

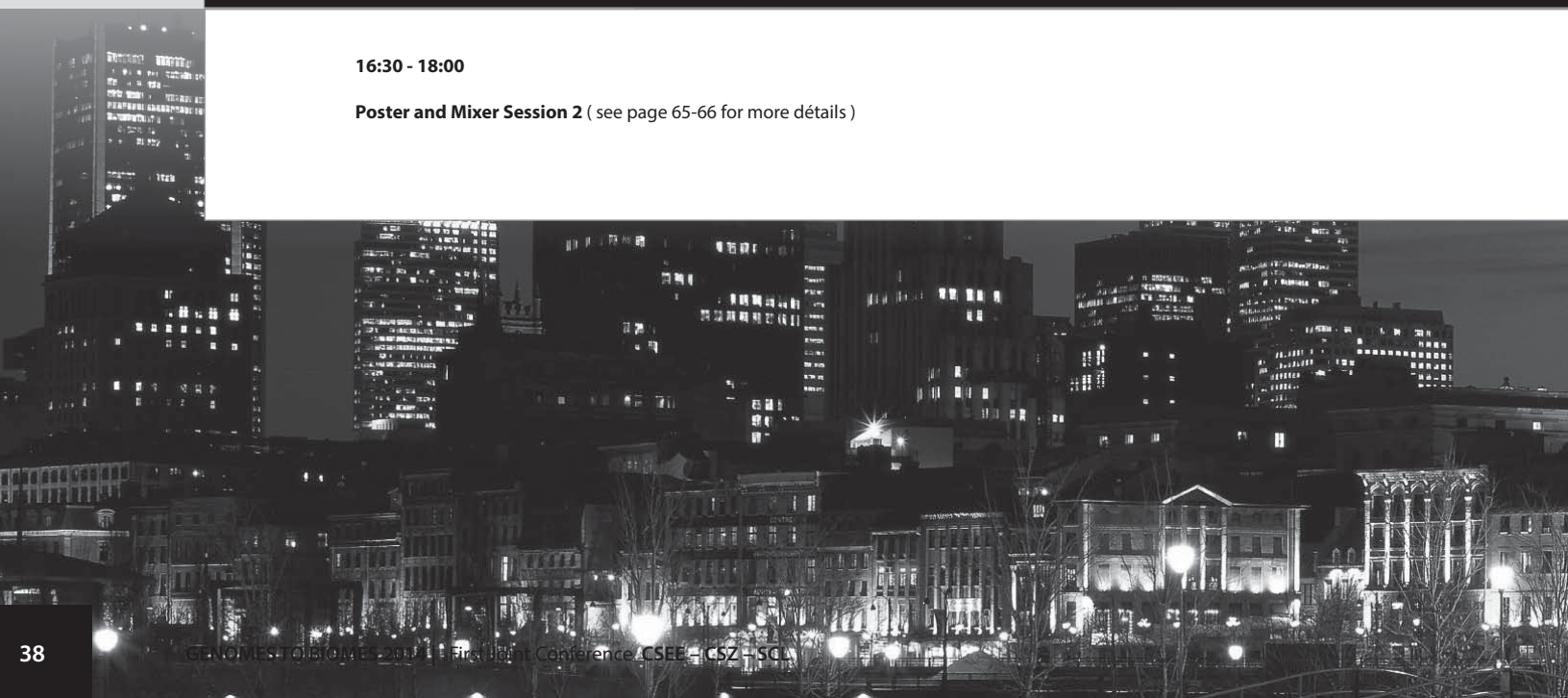
Les bourses du CRSNG (12:00-13:30 | International 1)

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>SCL Symposium: From lakes to coastal zones - integrating aquatic ecosystems at different scales / Symposium SCL : Des lacs aux zones côtières : Intégration des écosystèmes aquatiques à différentes échelles</p> <p>Moderator/Modérateur Alison Derry</p>	<p>Landscape Genetics / Génétique du paysage</p>	<p>Toxicology and Reproduction / Toxicologie et reproduction</p>	<p>Respiratory Physiology / Physiologie respiratoire</p>
		Moderator/Modérateur Sally Aitken	Moderator/Modérateur Michael Wilkie	Moderator/Modérateur Kevin Campbell
13:30	<p>13:30 - 14:15</p> <p>INV-19 Disentangling the relative importance of local- versus regional-scale processes on community responses to environmental change</p> <p>Shelley E. Arnott</p>	<p>MR1-29 Connectivity within a longnose sucker (<i>Catostomus catostomus</i>) hierarchical metapopulation in northern Labrador</p> <p>Sarah J. Salisbury, Robert Perry, Donald Keefe, Gregory R. McCracken, Daniel E. Ruzzante</p>	<p>MR2-31 Transcriptional profiles of copepodid sea lice (<i>Lepeophtheirus salmonis</i>) exposed to commonly used therapeutants in aquaculture</p> <p>Jordan Poley, Ben Sutherland, Okechukwu Igboeli, Sara Purcell, Mark Fast</p>	<p>IN1-30 Effects of ploidy and cell size on erythrocyte volume control in brook charr (<i>Salvelinus fontinalis</i>)</p> <p>Nicole Nader, Tillmann Benfey</p>
13:45		<p>MR1-30 Integrated landscape genetics of the Lyme disease vector (<i>Ixodes scapularis</i>) and its host (<i>Peromyscus leucopus</i>) in southern Quebec</p> <p>Sarah S.T. Leo, Andrew Gonzalez, Nicholas Ogden, Virginie Millien</p>	<p>MR2-32 Mechanisms of reproductive inhibition in zebrafish exposed to EE2 and NH3</p> <p>Cory Schilling, Dr. Glen Van Der Kraak, Dr. Deborah MacLatchy</p>	<p>IN1-31 Control of breathing and adaptation to high altitude hypoxia in deer mice (<i>Peromyscus maniculatus</i>)</p> <p>Catherine M. Ivy, Graham R. Scott</p>
14:00		<p>MR1-31 Landscape genetics and effective population size of the Common Galaxias (<i>Galaxias maculatus</i>) in a Northern Patagonian post-glacial lake system</p> <p>Livia E. Anthes, Gregory McCracken, Sandra J. Walde, Daniel E. Ruzzante</p>	<p>MR2-33 Effects of chronic, parental pharmaceutical exposure on zebrafish (<i>Danio rerio</i>) offspring</p> <p>Michal Galus, Sahaana Rangaranjan, Anderson Lai, Lana Shaya, Sigal Balshine, Joanna Y. Wilson</p>	<p>IN1-32 Critical windows in embryonic development: Cardiac and survival effects of shifting temperatures in Whitefish embryos (<i>Coregonus clupeaformis</i>)</p> <p>John Eme, Casey A. Mueller, Douglas R. Boreham, Richard G. Manzoni, Christopher M. Somers, Joanna Y. Wilson</p>
14:15	<p>14:15 - 15:30</p> <p>INV-20 Tundra aquatic biomes: Thaw lakes on permafrost landscapes in transition</p> <p>Warwick F. Vincent, Isabelle Laurion, Connie Lovejoy</p>	<p>MR1-32 Effective size and connectivity among small populations of brook trout (<i>Salvelinus fontinalis</i>) in Nova Scotia</p> <p>Samantha Parmelee, Gregory McCracken, John MacMillan, Sandra J. Walde, Daniel E. Ruzzante</p>	<p>MR2-34 Effet du stress maternel sur la survie et la croissance des premiers stades de vie de l'omble de fontaine (<i>Salvelinus fontinalis</i>)</p> <p>Laurence Deneault-Tremblay, Céline Audet, Nadia Aubin-Horth</p>	<p>IN1-33 Future predicted increases in CO2 on the growth, metabolism, olfaction, and behavior in the early life stages of pink salmon, <i>Oncorhynchus gorbuscha</i></p> <p>Michelle Ou, Junho Eom, Trevor Hamilton, Emily Lyall, Joshua Gallup, Sang Sun Yung, David Close, Colin J. Brauner</p>



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Heat/Cold Stress III / Thermostress et cryostress III	Organismal Response to Infectious Disease / Réaction de l'organisme aux maladies infectieuses	Fish Morphological Evolution / Évolution morphologique des poissons		Climate Change in Aquatic Environments: From the Equator to the Arctic / Changement climatique et milieux aquatiques : de l'Équateur au Cercle arctique
Moderator/Modérateur Heath MacMillan	Moderator/Modérateur Gregor Fussmann	Moderator/Modérateur Jessica Willis		Moderator/Modérateur Julia Baum
	CA1-31 Effects of subzero temperatures on the intraerythrocytic parasite, <i>Hepatozoon catesbianae</i> , infecting freeze-tolerant wood frogs, <i>Rana sylvatica</i> Amye Harrigan , Chelsea Hammer, Sean McGee, Laura Ferguson, Donald Stewart, Todd Smith,	CA2-31 Polypterus and the evolution of pectoral musculature in fish Benjamin Wilhelm		MF5-28 Thermal tolerance of tropical freshwater fishes: Predicting the effects of climate change in equatorial waters Elizabeth A. Nyboer , Lauren J. Chapman
IN2-32 Characterizing killifish mitochondrial function in response to thermal acclimation Dillon Chung , Trish Schulte		CA2-32 Behavioural and anatomical changes in a fish raised on land E.M. Standen , T.Y. Du, H.C.E. Larsson		MF5-29 Thermal tolerance in a widespread African cichlid fish: Implications for climate change in equatorial waters Laura McDonnell , Dr. Lauren Chapman,
IN2-33 The adaptive capacity of thermal tolerance in Chinook salmon Nico Muñoz , Anthony Farrell, John Heath, Bryan Neff	CA1-33 Identification of MH Class IIβ alleles conferring resistance/susceptibility to <i>Flavobacterium psychrophilum</i> in <i>Oncorhynchus mykiss</i> families Calvin Kellendonk , Lowia Al-Hussiney, John Lumsden, Brian Dixon,	CA2-33 Long, cold, and dark – Embryonic development in the lake whitefish Charles Mitz , Chris Thome, Mary Ellen Cybulski, Joanna M. Wilson, Douglas R. Boreham		MF5-30 Climatic drivers of fish life history traits at the Experimental Lakes Area Michael D. Rennie , Sandy Chalanchuk, Jessica Mai
IN2-34 Effects of freshwater acclimation on thermal tolerance and the heat shock response in marine stickleback David Metzger, Timothy Healy, Patricia Schulte	CA1-34 Effects of the benzimidazole anthelmintic drug flubendazole on filarial nematodes in vitro Maeghan O'Neill , Abdelmoneim Mansour, Utami Dicosy, Michael Dzimianski, Scott McCall, Jélil Abdel Njouendou, Samuel Wanji, John McCall, Charles D. Mackenzie, Timothy G. Geary,	CA2-34 Microscopic identification of novel cell types in larval lake sturgeon (<i>Acipenser fulvescens</i>) Lauren Shute , Dr. Gary Anderson, Dr. Erwin Huebner		MF5-31 Probable consequences of climate change on lake metabolism and function Yves Prairie , Beatrix Beisner

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
14:30 ↑	14:15 - 15:30 INV-20 (continued / suite) Tundra aquatic biomes: Thaw lakes on permafrost landscapes in transition Warwick F. Vincent , Isabelle Laurion, Connie Lovejoy	MR1-33 Adaptation with gene flow? A study of an arctic seabird along a latitudinal cline Anna Tigano , Allison J. Shultz, Scott V. Edwards, Vicki L. Friesen	MR2-35 In situ incubation of lake whitefish (<i>Coregonus clupeaformis</i>) embryos in the vicinity of a nuclear generating station coolant water discharge Chris Thome , Joanna Wilson, Douglas Boreham	IN1-34 CO2 accumulation during air exposure reduces mangrove rivulus hemoglobin-O2 binding affinity via expression of embryonic hemoglobin isoforms Cayleigh Robertson, Andy Turko , Michael Jonz, Patricia Wright
14:45		MR1-34 Contemporary and historical gene flow in a Patagonian fish metapopulation Ivan Vera-Escalona , Evelyn Habit, Jorge Gonzalez, Daniel E. Ruzzante	MR2-36 mRNA and protein expression of aquaporins in larval mosquitoes and the effects of salinity Hina Akhter , Phuong Bui, Andrew Donini,	IN1-35 Elevational effects upon hummingbird hovering flight: Examining metabolic and mechanical requirements during flight challenges Derrick Jordan Edgar Groom , Maria Cecilia Barbosa Kenneth Collins Welch Jr.,
15:00	BREAK			
15:30	Auditorium			
	15:30 - 16:30 SCL Plenary Moderator: Jules Blais, SCL President INV-21 Prediction, prescription, precaution and management in a rapidly changing world Daniel Schindler			
16:30	Foyers (3rd and 4th floors)			



16:30 - 18:00

Poster and Mixer Session 2 (see page 65-66 for more details)

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-35 Out of the frying pan into the air – Emersion behaviour and evaporative heat loss in an amphibious mangrove fish (<i>Kryptolebias marmoratus</i>)</p> <p>Daniel Gibson, Emma Sylvester, Glenn Tattersall, Andy Turko, Patricia Wright</p>	<p>CA1-35 Optimizing an HCT-8 cell-culture immunofluorescence assay to assess infectivity of <i>Cryptosporidium parvum</i> isolated from oysters (<i>Crassostrea virginica</i>)</p> <p>Jessica E. Willis, J.T. McClure, Carol McClure, Jonathan Spears, Gary Conboy, Jeff Davidson, Spencer J. Greenwood</p>	<p>CA2-35 Variations in levels of polymorphism and gene expression of major histocompatibility class I classical and non-classical genes in Arctic charr (<i>Salvelinus alpinus</i>)</p> <p>Terin Robinson, Pablo Conjeros, N.T.K. Vo, Michael Power, Brian Dixon</p>		<p>MF5-32 Biodiversity of rotifers in the permafrost thaw lakes of Nunavik and their potential role in food webs and greenhouse gas emissions</p> <p>Paschale N. Bégin, Warwick F. Vincent</p>
<p>IN2-36 The heat shock response and the development of thermotolerance in embryonic lake whitefish (<i>Coregonus clupeaformis</i>)</p> <p>Katherine J. Sessions, Chris M. Somers, Joanna Y. Wilson, Doug R. Boreham, Bruce Power; Richard G. Manzon</p>	<p>CA1-36 Expression analysis of acute phase proteins in <i>Trypanosoma carassii</i> infected goldfish (<i>Carassius auratus</i> L.)</p> <p>Nikolina Kovacevic</p>	<p>CA2-36 Combining RAD-QTL mapping and geometric morphometrics to investigate selection and modularity of fish shape in lake whitefish species pairs</p> <p>Martin Laporte, Sean M. Rogers, Anne-Marie Dion-Côté, Eric Normandeau, Pierre-Alexandre Gagnaire, Anne C. Dalziel, Jobran Chebib, Louis Bernatchez</p>		<p>MF5-33 Arctic zooplankton responses to climate change: Effects of temperature and cyanobacteria on polyploid <i>Daphnia pulex</i></p> <p>Anna Przytulska-Bartosiewicz, Maciej Bartosiewicz, Milla Rautio, France Dufresne, Warwick F. Vincent</p>

PAUSE

Auditorium

15:30 - 16:30

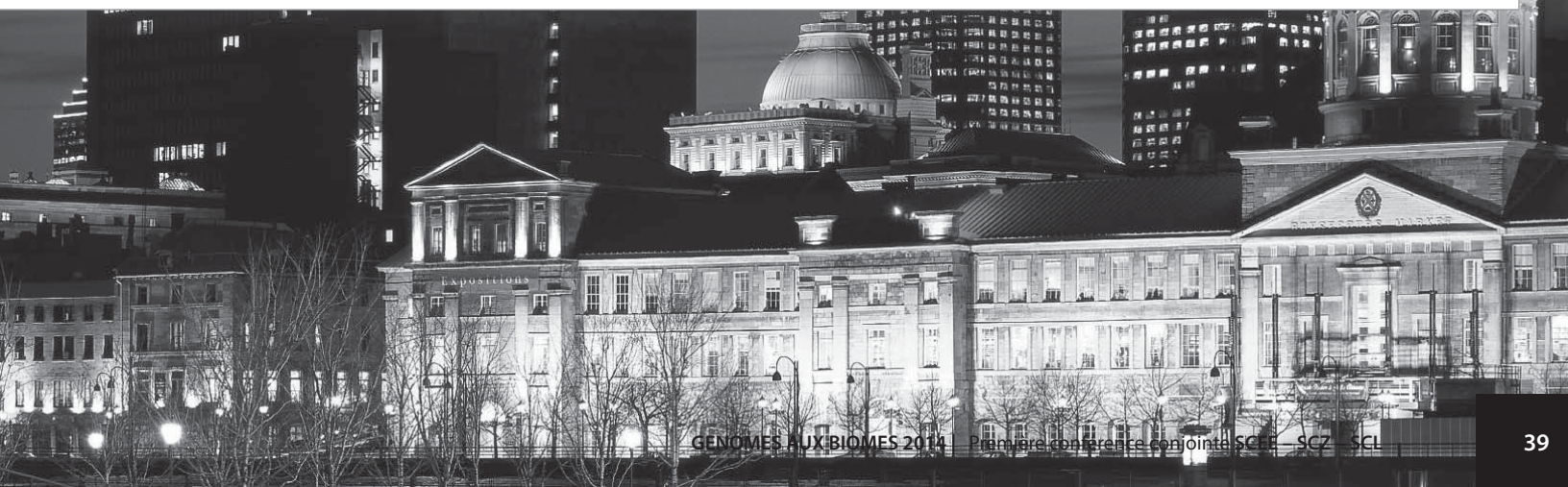
Conférence plénière de la SCL
Modérateur : Jules Blais, président SCL

INV-21
Prediction, prescription, precaution and management in a rapidly changing world
Daniel Schindler

Foyers (3e et 4e étages)

16:30 - 18:00

2ème séance de présentations sur affiche & réseautage (voir page 65-66 pour plus de détails)



	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>CSZ Symposium: Crossing Boundaries and Building Bridges - Integrative Zoology / Symposium SCZ : Zoologie intégrative : Franchir les barrières et bâtir des ponts</p> <p>Moderators/Modérateurs Chris Cameron & Angela Shamchuk</p>	<p>Foraging and Habitat Selection I / Recherche de nourriture et sélection de l'habitat I</p>	<p>Hoar Award Finalists / Finalistes du prix Hoar</p>	<p>Phenotypic Plasticity and Variation I / Plasticité phénotypique et variation génétique I</p>
		Moderator/Modérateur Barbara Frei	Moderator/Modérateur Suzie Currie	Moderator/Modérateur Luis Fernando De Leon
8:30	<p>08:30 - 09:15</p> <p>INV-22 Using morphology to infer physiological function: Case studies on large whales</p> <p>Robert Shadwick</p>	<p>MR1-35 On the move: How food, genes, and environmental heterogeneity affect dispersal</p> <p>Allan Edelsparre, Mark Fitzpatrick, Marco Rodríguez</p>	<p>MR2-37 Moms matter: Maternal social status affects development of the stress response in zebrafish larvae</p> <p>Jennifer D. Jeffrey, Kathleen M. Gilmour</p>	<p>IN1-36 The ecological determinants of colour pattern variation in Trinidadian guppies</p> <p>Kiyoko M. Gotanda, Darrell J. Kemp, Andrew P. Hendry</p>
8:45		<p>MR1-36 Influence of prey patches on <i>Daphnia pulex</i> foraging behavior</p> <p>Audrey Helen Reid, W. Gary Sprules</p>	<p>MR2-38 Context-dependent modulation and decoupling of motor control and kinematics during locomotion in the green anole (<i>Anolis carolinensis</i>)</p> <p>Kathleen L. Foster, Timothy E. Higham</p>	<p>IN1-37 Rapid evolution in a slow-living species: The genetic basis of lake charr <i>Salvelinus namaycush</i> phenotypic plasticity</p> <p>Shauna Baillie, Andrew Muir, Mara Zimmerman, Nancy Nate, Charles Krueger, Paul Bentzen</p>
9:00		<p>MR1-37 Radiotelemetry of migrating Semipalmated Sandpipers (<i>Calidris pusilla</i>) reveals new information on movement patterns, duration of stay and habitat use in the upper Bay of Fundy</p> <p>Sarah Neima, Diana Hamilton, Julie Paquet, Cheri Gratto-Trevor</p>	<p>MR2-39 Group 1 late embryogenesis abundant (LEA) proteins enhance desiccation and freeze tolerance of the crustacean, <i>Artemia franciscana</i></p> <p>Jantina Toxopeus, Alden H. Warner, Thomas H. MacRae,</p>	<p>IN1-37.1 What structures the shape of flowering schedules? The roles of flower deployment, floral longevity, and the environment</p> <p>Susana M. Wadgymer, Matthew N. Cumming, Emily J. Austen, Arthur E. Weis</p>
9:15	<p>09:15 - 10:00</p> <p>INV-23 Stress tolerance in the Antarctic midge</p> <p>Richard E. Lee Jr.</p>	<p>MR1-38 Changing habitat selection in response to forage availability and predation risk: A case study in woodland caribou (<i>Rangifer tarandus caribou</i>)</p> <p>Madeleine McGreer, John Fryxell</p>	<p>MR2-40 Selective signal transduction by two endogenous GnRH isoforms in goldfish, <i>Carassius auratus</i>: Differential activation of class I phosphoinositide 3-kinase catalytic subunits</p> <p>Joshua Pemberton, James Stafford, John Chang</p>	<p>IN1-39 The joint expression of phenotypic plasticity and diversification bet hedging</p> <p>Andrew Simons</p>



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Performance and Stress Along Gradients / Performance et stress le long des gradients	Ecosystem Services / Écoservices	Aquatic Trophic Dynamics / Dynamique trophique des écosystèmes aquatiques	The Ecology of Carbon I / L'écologie du carbone I	Parasitism and Behaviour / Parasitisme et comportement
Moderator/Modérateur Alison Derry	Moderator/Modérateur Irene Gregory-Eaves	Moderator/Modérateur Gesche Winkler	Moderator/Modérateur Roxane Maranger	Moderator/Modérateur Carl Lowenberger
<p>IN2-37 On the burning edge: Potential tree recruitment after fire at high latitude treelines</p> <p>Jill Johnstone</p>	<p>CA1-37 Reporting the first year of results towards a Canada-wide evaluation of freshwater health by 2017</p> <p>James Snider, Anna Labetski, Sophie Taddeo, Steven Price</p>	<p>CA2-37 Decrease in lake food chain length with loss of littoral structure</p> <p>Jacob P. Ziegler, Christopher T. Solomon, Bruce P. Finney, Irene Gregory-Eaves</p>	<p>MF2-35 The ecology of the permafrost-carbon feedback</p> <p>Merritt R. Turetsky</p>	<p>MF5-34 Intensifying subsistence agriculture in areas endemic for soil transmitted helminths modifies transmission dynamics: A case study from rural Panama</p> <p>Rachel Krause, Kristine Koski, Odalis Sinisterra, Marilyn Scott</p>
<p>IN2-38 Demographic consequences of soil moisture variation for an invasive, hybridizing weed</p> <p>Zachary Teitel, Lesley G. Campbell</p>	<p>CA1-38 Emerge and spatial dynamics of ecosystem service interactions in South-Eastern Quebec from 1960 to 2006</p> <p>Delphine Renard, Jeanine M. Rhemtulla, Elena M. Bennet</p>	<p>CA2-38 Ocean acidification alters predator-prey interactions in echinoderms</p> <p>Megan Vaughan, Chris Harley</p>	<p>MF2-36 Climate and defoliation effects on belowground carbon storage in the northern Great Plains</p> <p>Diego F. Steinaker, Scott D. Wilson, Edward W. Bork, James F. Cahill</p>	<p>MF5-35 Retention and viability of a fish microsporidian parasite (<i>Loma salmonae</i>) within the blue mussel (<i>Mytilus edulis</i>)</p> <p>Sarah McConnachie, Nicole Guselle, David Speare</p>
	<p>CA1-39 Water level drawdowns in temperate reservoirs as drivers of water quality and biodiversity: What we know, what we don't and what we're doing about it</p> <p>Irene Gregory-Eaves, Chris Solomon, Christian Nozais, Katrine Turgeon, Cristian Correa Guzman, Leanne Elchyshyn, Gabrielle Trottier, Raphaëlle Thomas, Shannon Boyle, Holly Embke</p>	<p>CA2-39 Sharing the top of the bottom: Environmental influences on trophic niche dimensions and overlap of co-habiting benthivorous fishes in boreal lakes</p> <p>Ashley Stasko, Tom Johnston, Graeme Hamilton, Brett Nugent, Pete Cott, John Gunn</p>	<p>MF2-37 CO₂, CH₄ and DOC from soil to streams</p> <p>Terhi Rasilo, Clara Ruiz Gonzalez, Paul del Giorgio</p>	<p>MF5-36 Testing for dual impacts of contaminants and parasites on hosts: The importance of skew</p> <p>André Morrill, Jennifer Provencher, Mark R. Forbes</p>
<p>IN2-40 Northern snakes are dumbbells: Understanding movement and habitat use near range limits</p> <p>Christopher Somers, Laura Gardiner, Jessica Martino, Dennilyn Parker, Ray Poulin</p>	<p>CA1-40 Importing bumblebees is not viable; supplementation has no effect on cranberry pollination rates</p> <p>Julie Sircom, Barry Hicks</p>	<p>CA2-40 Life-long dietary-niche partitioning exhibited by sympatric whitefish in Lake Huron</p> <p>Rebecca Eberts, Richard Manzon, Joanna Wilson, Douglas Boreham, Bruce Power, Christopher Somers</p>	<p>MF2-38 Landscape and chemical controls of the color of dissolved organic carbon in boreal lakes and rivers</p> <p>Jean-François Lapierre, Clara Ruiz-Gonzalez, Paul A. del Giorgio</p>	<p>MF5-37 Exposure to diatomaceous earth increases mortality in flour beetles (<i>Tribolium confusum</i>) infected with tapeworm parasites (<i>Hymenolepis diminuta</i>)</p> <p>Allen W. Shostak, Ranon Cook</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
9:30	09:15 - 10:00 INV-23 Stress tolerance in the Antarctic midge Richard E. Lee Jr.	MR1-39 Crazy for kelp? Movement behaviour of the green sea urchin (<i>Strongylocentrotus droebachiensis</i>) in the presence of a preferred food Katie MacGregor , Ladd Johnson	MR2-41 Osmoregulation and acid-base balance in white sturgeon (<i>Acipenser transmontanus</i>) during exposure to elevated salinity and aquatic hypercarbia Ciaran A. Shaughnessy , Daniel W. Baker, Colin J. Brauner, John D. Morgan, Jason S. Bystriansky	IN1-40 Do asexuals, which lack genetic variation, display greater phenotypic plasticity than sexuals in variable environments? Jonathan Mee , Matthew Morris, Sean Rogers	
9:45		MR1-40 Finding a home where tree kangaroos roam: A spatial analysis of habitat requirements using ArcGIS Wesley Hauser	MR2-42 Generational effects of bisphenol A on somatotrophic and stress axes functioning in rainbow trout Oana Birceanu , Mathilakath Vijayan	IN1-41 Color variation in introduced Guppy (<i>Poecilia reticulata</i>) populations in Panama Luis Fernando De Leon , Celestino Martínez, Carmen Chavarria, Diana Sharpe	
10:00	BREAK				
	CSZ Symposium: Crossing Boundaries and Building Bridges - Integrative Zoology / Symposium SCZ : Zoologie intégrative : Franchir les barrières et bâtir des ponts Moderators/Modérateurs Chris Cameron & Angela Shamchuk	Foraging and Habitat Selection II / Recherche de nourriture et sélection de l'habitat II	The Science of Ecology and Evolution / La science de l'écologie et évolution	Phenotypic Plasticity and Variation II / Plasticité phénotypique et variation génétique II	
		Moderator/Modérateur Dave Shutler	Moderator/Modérateur Charles Ramcharan	Moderator/Modérateur Karen Samis	
10:30	10:30 - 11:15 INV-24 Resurrecting genotypes and phenotypes from long-extinct species: Promises and perspectives Kevin L. Campbell	MR1-41 Implications of foraging selection and patch reuse for stable home range development in elk Dana Paige Seidel , Mark S. Boyce	MR2-43 On beauty in scientific writing Stephen B. Heard	IN1-42 Disentangling phenotypic plasticity and genetic differences underlying variation in hibernation phenology: An experimental approach Jeffrey Lane	
10:45		MR1-42 Small-bodied forest specialists navigating the dangerous matrix: Does adding forest corridors impede long-term primate survival and maintenance of genetic diversity in severely fragmented habitats? Becky E. Raboy	MR2-44 Rising complexity and falling explanatory power in ecology Etienne Low-Décarie , Corey Chivers, Monica Granados	IN1-43 The contribution of rare and common variants to quantitative trait variation in <i>Capsella grandiflora</i> Young Wha Lee , Emily Josephs, Stephen Wright, John Stinchcombe	

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-41 Climate change and habitat fragmentation drive the occurrence of <i>B. burgdorferi</i>, the agent of Lyme disease, at the northern limit of its distribution</p> <p>Virginie Millien, Andrew Gonzalez, Francois-Joseph Lapointe, Nicholas Ogden</p>	<p>CA1-41 Would you like carbon or chimpanzees with that? Synergies and trade-offs in restoring biodiversity and ecosystem services in degraded African tropical rainforest</p> <p>Aerin L. Jacob, Martin J. Lechowicz, Pete Parker, Colin A. Chapman</p>	<p>CA2-41 Foraging strategies of co-occurring mysid species: Niche partitioning in the St. Lawrence estuarine transition zone</p> <p>Gesche Winkler</p>	<p>MF2-39 Effect of landscape on the composition of dissolved organic matter in the Quebec boreal biome</p> <p>Ryan H.S. Hutchins, Paul del Giorgio, Yves Prairie, Thorsten Dittmar</p>	<p>MF5-38 How adventurous are chewing lice (Insecta: Phthiraptera) infesting Canada geese?</p> <p>Alexandra Grossi</p>
<p>IN2-42 Climate change reduces genetic diversity of Canada lynx at the trailing range edge</p> <p>Erin L. Koen, Jeff Bowman, Dennis L. Murray, Paul J. Wilson</p>	<p>CA1-42 Phylogenetic diversity of trees predicts human population density in southern Africa</p> <p>Jonathan Davies, Olivier Maurinb, Kowiyou Yessoufoub, Barnabas Darub, Bezeng Bezeng, Ledile Mankga, Hanno Schaefer, Wilfried Thuiller, Michelle van der Bank</p>	<p>CA2-42 Krill density and depth distribution drive the optimal foraging strategies and maneuverability of lunge feeding blue whales</p> <p>Jeremy Goldbogen, Elliott Hazen, Ari Friedlaender</p>	<p>MF2-40 Patterns of carbon burial efficiency in temperate and boreal lakes</p> <p>Adam J. Heathcote, Yves T. Prairie, Paul A. del Giorgio</p>	<p>MF5-39 Behavioural modifications in <i>Rhodnius prolixus</i> infected with <i>T. rangeli</i> but not <i>T. cruzi</i> are linked to strong changes in the expression of the foraging gene</p> <p>Alessandra Guarneri, Newmar Marlière, José Manuel Estivalis, David Carrasco, Carl Lowenberger</p>
PAUSE				
<p>Aquatic Environmental Stressors / Agents stressants du milieu aquatique</p>	<p>Urban Ecology / Écologie urbaine</p>	<p>Forest Entomology / Entomologie forestière Forest Entomology / Entomologie forestière</p>	<p>Endocrinology and Stress / Endocrinologie et stress</p>	<p>Zooplankton: From Communities to Food Webs / Zooplancton : des communautés aux réseaux trophiques</p>
<p>Moderator/Modérateur Céline Audet</p>	<p>Moderator/Modérateur Jeremy Lundholm</p>	<p>Moderator/Modérateur Leanna Lachowsky</p>	<p>Moderator/Modérateur Anju Philip</p>	<p>Moderator/Modérateur Yves Prairie</p>
<p>IN2-43 Multiple stressor impacts on phytoplankton in Ontario lakes</p> <p>Michelle Palmer, Andrew Paterson, Jennifer Winter, Norman Yan</p>	<p>CA1-43 Adaptive and maladaptive responses of roadside amphibians</p> <p>Steven Brady</p>	<p>CA2-43 Pines vs. pests: Consequences of the identity, diversity and abundance of plant defences for the success of a tree-killing bark beetle</p> <p>Jagdeep Sekhon, Mary Reid</p>	<p>MF2-41 With a little help from my friends: Conspecifics lower acute stress in juvenile lake sturgeon</p> <p>Alexander Hare, W.G. Anderson</p>	<p>MF5-40 Meta-population dynamics in zooplankton communities: Untangling the role of parasites, predators, and food availability</p> <p>Amanda Valois, Robert Poulin</p>
<p>IN2-44 Effects of increased levels of carbon dioxide on freshwater plankton community interactions</p> <p>Julia Hart, Beatrix Beisner, Yves Prairie</p>	<p>CA1-44 Occupancy modelling of native and exotic solitary bees in urban landscapes</p> <p>J. Scott MacIvor, Dr. Laurence Packer</p>	<p>CA2-44 Does fine-scale genetic structure matter in an irruptive forest pest?</p> <p>Jasmine Janes, Amanda Roe, Adrienne Rice, David Langor, Felix Sperling</p>	<p>MF2-42 Serotonergic regulation of the hypothalamic-pituitary-interrenal axis in rainbow trout via the 5HT1a receptor</p> <p>Laurence Dionne-Wilson, Kathleen M. Gilmour</p>	<p>MF5-41 Is zooplankton production affected by community diversity in lakes?</p> <p>Nicolas F. St-Gelais, Paul A. del Giorgio, Beatrix E. Beisner</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
11:00	10:30 - 11:15 INV-24 Resurrecting genotypes and phenotypes from long-extinct species: Promises and perspectives Kevin L. Campbell	MR1-43 Benthic cyanobacterial mats serve as a refuge and food for the amphipod <i>Gammarus fasciatus</i> David Lévesque , Christiane Hudon, Antonella Cattaneo	MR2-45 Troubleshooting public data archiving: Suggestions to increase participation Dominique G. Roche , Robert Lanfear, Sandra A. Binning, Tonya M. Haff, Lisa E. Schwanz, Kristal E. Cain, Hanna Kokko, Michael D. Jennions, Loeske E. B. Kruuk	IN1-44 Differences in phenotypic covariation structure of multiple populations of <i>Gasterosteus aculeatus</i> from Pender Harbour, BC Tegan Barry , Heather Jamniczky, Sean Rogers	
11:15	11:15 - 12:00 INV-25 The importance of basic research in the life sciences - how comparative morphology leads to patents Adam Summers	MR1-44 Red flour beetles balance thermoregulation and food acquisition in density-dependent habitat selection William D. Halliday , Gabriel Blouin-Demers	MR2-46 Establishing a community based research network to evaluate cumulative impacts of environmental change on winter sea ice ecosystems in east Hudson Bay Joel P. Heath	IN1-45 Tidal wrack and dune plants: Interactions at the habitat edg J. Amanda Butler, Karen E. Samis	
11:30		MR1-45 Using foraging behaviour and habitat selection to evaluate coexistence in a community of sciurids Stephanie Tessier , William Vickery	MR2-47 The changing nature of ecology and evolution revealed through publication trends Charles Ramcharan , David Lesbarreres, Pierre Echaubard	IN1-46 Freeze tolerance in the intertidal: plasticity in the mussel <i>Mytilus trossulus</i> Katie E. Marshall , Christopher D. G. Harley	
11:45		MR1-46 Foraging movements of Leach's storm-petrels <i>Oceanodroma leucorhoa</i> during incubation Ingrid L. Pollet, Robert A. Ronconi, Ian. D. Jonsen, Marty L. Leonard, Philip D. Taylor, Dave Shutler		IN1-47 Do plants evolve differently? Somatic mutation in a woody species Daniel Schoen , Kyle Bobiwash	
12:00	Special presentation: Recent developments in the support and use of science by the Canadian Federal Government (12:00-13:30 Auditorium)				

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-45 Dealing with bad weather: Latitudinal variation in zooplankton dormancy dynamics</p> <p>Natalie Jones, Benjamin Gilbert</p>	<p>CA1-45 Nest site selection of Red-headed woodpeckers across three spatial scales in an urban environment</p> <p>Elsa C. Anderson, Jalene M. LaMontagne</p>	<p>CA2-45 Influence of forest management legacies on outbreaks of defoliating insects: Observations at the landscape level</p> <p>Louis-Etienne Robert, Daniel Kneeshaw, Brian R. Sturtevant, Patrick M. A. James</p>	<p>MF2-43 Macronutrients differentially regulate Nucleobindin-2/Nesfatin-1 in vivo in male mice and in vitro in cultured stomach ghrelinoma (MGN3) cells from mice</p> <p>Haneesha Mohan, Hiroshi Iwakura, Suraj Unniappan</p>	<p>MF5-42 Declining aquatic calcium affects the recovery of zooplankton communities in acid-damaged lakes</p> <p>Alex Ross, Shelley Arnott</p>
<p>IN2-46 Effects of environmental temperature on cold tolerance in threespine stickleback</p> <p>Taylor Gibbons, Patricia Schulte</p>	<p>CA1-46 Plants make a difference: Species diversity and traits drive green roof ecosystem functioning</p> <p>Jeremy Lundholm, Steph Tran, Amy Heim, Scott MacIvor, Brett Weddle, Lori Miller, Tyler Smith</p>	<p>CA2-46 Examining the relative importance of bottom-up vs. top-down control of spruce budworm outbreak dynamics</p> <p>Patrick James</p>	<p>MF2-44 Maternal stress and cortisol dynamics during zebrafish development</p> <p>Matt Vijayan, Carol Best, Erin Faught</p>	<p>MF5-43 Crustacean zooplankton functional traits: Linking organisms to ecosystems</p> <p>Marie-Pier Hébert, Beatrix Beisner, Roxane Maranger</p>
<p>IN2-47 Learning from the past: Genetic analyses of ancient and contemporary samples identify how historic and pre-historic events have shaped modern whale populations</p> <p>Stephanie Béland, Dr. Jim Darling, Dr. Timothy Frasier</p>	<p>CA1-47 Testing mechanisms for plant species persistence and coexistence in green roof ecosystems: Spatial heterogeneity and facilitation</p> <p>Amy Heim, Jeremy Lundholm</p>	<p>CA2-47 Heritability of aphid resistance in balsam fir: Estimate discrepancies between traditional linear mixed models and generalized linear mixed models</p> <p>Sara Fraser</p>	<p>MF2-45 Nutrient status modulates the expression of nesfatin-1 encoding nucleobindin 1A and 2A mRNAs in zebrafish gut and brain</p> <p>Azadeh Hatef, Sooraj Shajan, Suraj Unniappan</p>	<p>MF5-44 Factors influencing intraspecific phenotypic variation in zooplankton</p> <p>Cristina Charette, Alison Derry</p>
<p>IN2-48 Increased environmental variability in reproductive success decreases resilience to fishing and increases uncertainty of recovery</p> <p>Anna Kuparinen, David M. Keith, Jeffrey A. Hutchings</p>	<p>CA1-48 Urban cladoceran phylogenetic diversity and reserve design in the presence of phylogenetic uncertainty</p> <p>El-Amine Mimouni, Beatrix E. Beisner, Bernadette Pinel-Alloul</p>	<p>CA2-48 Population variation in sex ratios of mountain pine beetles: Tests of direct and indirect environmental influences</p> <p>Leanna Lachowsky, Mary Reid</p>	<p>MF2-46 Stress-immune-growth interactions in fish: A role for suppressors of cytokine signalling (SOCS)</p> <p>Anju Mary Philip, Dr. Mathilakath M. Vijayan</p>	<p>MF5-45 Biodiversity changes in lakes from a subarctic mining region: Integration of paleoecology and molecular techniques</p> <p>Amanda K. Winegardner, Natasha Salter, Beatrix E. Beisner, Alison Derry, Stéphane Aebischer, Didier Debroas, Isabelle Domaizon, Mehrdad Hajibabaei, Reinhard Pienitz, Shadi Shokralla, Lyle White, Boswell Wing, Irene Gregory-Eaves</p>

Présentation spéciale :
Recent developments in the support and
use of science by the Canadian Federal Government (12:00-13:30 | Auditorium)

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	<p>CSZ Symposium: Crossing Boundaries and Building Bridges - Integrative Zoology / Symposium SCZ : Zoologie intégrative : Franchir les barrières et bâtir des ponts</p> <p>Moderators/Modérateurs Chris Cameron & Angela Shamchuk</p>	<p>Behaviour of Large Mammals / Comportement des grands mammifères</p>	<p>CSZ Wardle Lecture / Conférence Wardle (SCZ)</p>	<p>Phenotypic Plasticity and Variation III / Plasticité phénotypique et variation génétique III</p>
		Moderator/Modérateur Quinn Fletcher	Moderator/Modérateur Brian Dixon	Moderator/Modérateur Nadia Aubin-Horth
13:30	<p>13:30 - 14:15</p> <p>INV-26 Tracking host-pathogen responses in honey bees with quantitative proteomics</p> <p>Leonard J. Foster, Amanda Van Haga, Sarah Michaud, Joost Gouw, Nichollas Scott, Marta Guarna</p>	<p>MR1-47 Guts, brains, and... cheeks? Links between anatomy and competition in primates</p> <p>Kaia Tombak, Andrea Reid, Colin Chapman, Jessica Rothman, Caley Johnson, Rafael Reyna-Hurtado, Joanna Lambert</p>	<p>13:30 - 14:30</p> <p>MR2-48 Through the looking glass and beyond: Studies of parasitism, immunity, and ecology of dragonflies</p> <p>Mark R. Forbes</p>	<p>IN1-48 Morphological variation in a hybrid complex: With or without sex!</p> <p>Thomas Grünbaum, Kevin Duclos, Christelle Leung, Louise Cloutier, Richard Cloutier, Bernard Angers</p>
13:45		<p>MR1-48 Evidence of reciprocal allonursing in captive reindeer, <i>Rangifer tarandus</i></p> <p>Sacha C. Engelhardt, Robert B. Weladji, Øystein Holand, Knut H. Røed, Mauri Nieminen</p>		<p>IN1-49 Plastic responses in the timing of reproduction to annual variation in spring temperature of a migratory songbird across North America</p> <p>D. Bradley, A. McAdam, D. Hussell, F. Bonier, R. Clark, R. Dawson, A. Horn, M. Leonard, W. Rendell, R. Robertson, D. Shutler, D. Winkler, D.R. Norris</p>
14:00		<p>MR1-49 Patterns of social associations in bighorn ewes</p> <p>Audrey Gagné-Delorme, Marco Festa-Bianchet, Fanie Pelletier</p>		<p>IN1-50 Effect of rearing environment on the genomic response to a social challenge</p> <p>Cecilia Wikström, Barbara Taborsky, Nadia Aubin-Horth</p>
14:15	<p>14:15 - 15:00</p> <p>INV-27 Atrazine castrates males: A tale of toads and men</p> <p>Tyrone Hayes</p>	<p>MR1-50 Reproductive timing and reliance on hoarded capital resources by lactating red squirrels</p> <p>Quinn E. Fletcher, Manuelle Landry-Cuerrier, Stan Boutin, Andrew G. McAdam, John R. Speakman, Murray M. Humphries</p>		<p>IN1-51 Adaptation and acclimation of energy metabolism among lake whitefish (<i>Coregonus clupeaformis</i>) ecotypes</p> <p>Anne C. Dalziel, Martin Laporte, Nicolas Martin, Louis Bernatchez</p>



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Fish Ecology / Écologie des poissons	Phenology and Defence / Phénologie et défense	Immunology / Immunologie	The Ecology of Carbon III / L'écologie du carbone III	Contaminants and Invertebrates / Contaminants et invertébrés
Moderator/Modérateur Ross Tallman	Moderator/Modérateur Arthur Weis	Moderator/Modérateur Barb Katzenback	Moderator/Modérateur Shawn Leroux	Moderator/Modérateur Greg Pyle
<p>IN2-49 The evolutionary consequences of staying in freshwater: Seawater performance, physiological and endocrine differences between landlocked and anadromous salmon</p> <p>Stephen McCormick, Amy Regish, Michael O'Dea, Nicholas Bernier</p>	<p>CA1-49 How phenology and local temperature variation structure communities</p> <p>E. M. Wolkovich</p>	<p>CA2-49 Testing the trade-offs between testosterone and immunity in a free ranging African ground squirrel</p> <p>Kelsey O'Brien, Dr. Jane Waterman</p>	<p>MF2-47.1 The evolutionary ecology of predator-driven elemental cycling</p> <p>Shawn J. Leroux, Oswald Schmitz,</p>	<p>MF5-46 What's up DOC?: Protective effects of dissolved organic carbon on nickel toxicity to sea urchin early life-stages</p> <p>Tamzin A. Blewett, Chris N. Glover, Chris M. Wood</p>
<p>IN2-50 The adaptive capacity of thermal tolerance: Reintroduction of Atlantic salmon into Lake Ontario</p> <p>Kayla J. Gradil, Chris C. Wilson, Anthony P. Farrell, Bryan D. Neff</p>	<p>CA1-50 Experimental exclusion of rabbits drives contemporary evolution of plant defenses and decreases plant phylogenetic diversity</p> <p>Nash E. Turley, Michael J. Crawley, Marc T. J. Johnson</p>	<p>CA2-50 Identification and functional characterization of goldfish (<i>Carassius auratus</i> L.) high mobility group box 1 (HMGB1) chromatin-binding protein</p> <p>Jiasong Xie, Jordan W. Hodgkinson, Chao Li, Nikolina Kovacevic, Miodrag Belosevic</p>	<p>MF2-47.2 Ecosystem experiment reveals effects of terrestrial DOC on lake food webs and carbon cycles</p> <p>Christopher T. Solomon, Nicola Craig, Stuart E. Jones, Patrick T. Kelly, Brian C. Weidel, Jake A. Zwart</p>	<p>MF5-47 Benthic invertebrates in Saint John Harbour: Are spatial distributions related to habitat type and contaminants?</p> <p>Heather Hunt, Karen Kidd, Marie-Josée Abgrall, Marie-Josée Maltais, Angella Mercer</p>
<p>IN2-51 Get a grip: The effect of substrate on the swimming behaviour of juvenile shortnose sturgeon (<i>Acipenser brevirostrum</i>)</p> <p>Lindsay May, James Kieffer</p>	<p>CA1-51 Genetically based latitudinal patterns in physical, chemical and life history defence traits in the native plant <i>Oenothera biennis</i></p> <p>Daniel Anstett, Jeff Ahern, Marc T.J. Johnson, Juha-Pekka Salminen</p>	<p>CA2-51 Discovering functional immune markers in rainbow trout (<i>Oncorhynchus mykiss</i>) for resistance and susceptibility against <i>Flavobacterium psychrophilum</i></p> <p>Shawna Semple, Lowia Al-Hussiney, John Lumsden, Brian Dixon</p>	<p>MF2-47.3 Variations in sources of organic matter to zooplankton diet across a boreal landscape: Inferences from carbon and nitrogen stable isotope analyses</p> <p>M.U. Mohamed Anas, Kenneth A. Scott, Björn Wissel,</p>	<p>MF5-48 The result of acute co-exposures to metals and polycyclic aromatic hydrocarbons (PAHs) on the bioaccumulation of metals, survival, and behaviour of <i>Hyalella azteca</i></p> <p>Patrick Gauthier, Greg Pyle, Ellie Prepas</p>
<p>IN2-52 Mechanisms of population regulation in stream salmonids: Insights from field and laboratory studies</p> <p>James Grant, Amanda Lindeman, Asra Toobaie, Jackie Wood</p>	<p>CA1-52 Effects of experimental warming on phenology and morphology of an aquatic insect (Odonata)</p> <p>Shannon McCauley, John Hammond, Dachin Frances, Karen Mabry</p>	<p>CA2-52 Regulation of rainbow trout (<i>Oncorhynchus mykiss</i>) cytokines in vitro and in vivo following immunostimulation</p> <p>Cheryl Soulliere, Lital Sever, Susy Lam, Nguyen Vo, Jack Iwanczyk, Joel Kooistra, Niels Bols, Brian Dixon</p>	<p>MF2-47.4 Insights into the activity of aerobic anoxygenic phototrophic bacteria in freshwater systems</p> <p>Carolina Garcia-Chaves, Paul del Giorgio</p>	<p>MF5-49 Nickel and copper mixture toxicity to sensitive aquatic invertebrates in soft water</p> <p>Prachi Deshpande, James McGeer</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
14:30	14:15 - 15:00 INV-27 Atrazine castrates males: A tale of toads and men Tyrone Hayes	MR1-51 Brown bear habitat selection personality in Scandinavian managed landscape Martin Leclerc , Eric Vander Wal, Andreas Zedrosser, Jon E. Swenson, Jonas Kindberg, Fanie Pelletier		IN1-52 Epigenetic differentiation of sympatric asexual hybrids Christelle Leung , Sophie Breton, Bernard Angers	
14:45		MR1-52 Seasonal variation in both temperature and resource availability influence habitat selection by Ontario moose Garrett M. Street , Arthur R. Rodgers, John M. Fryxell		IN1-53 Extraordinary sexual behavior of capelin extends to bizarre behaving sperm José Beirão, Jason Lewis, Craig Purchase	
15:00	BREAK				
15:30	Auditorium				
	15:30 - 16:30 CSZ Plenary Moderator: Pat Walsh, CSZ President INV-28 The sex lives of fish: Science, policy and beyond Glen Van Der Kraak				
16:30	Foyers (3rd and 4th floors)				
	16:30 - 18:00 Poster and Mixer Session 3 (see page 67-68 for more détails)				
18:30	Auditorium				
	18:30 - 19:30 CSEE / CSZ / ZET Public Outreach Lecture Moderator: Andrew Hendry INV-29 Polar obsession Paul Nicklen @PaulNicklen				

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-53 Heated discussions: Temperature dependence of communication signals in wild populations of African weakly electric fish</p> <p>Tyler Moulton, Lauren Chapman, Rudiger Krahe</p>	<p>CA1-53 The shape of selection: Using alternative fitness functions to test predictions for selection on flowering time</p> <p>Arthur E. Weis, Susana M. Wadgyman, Michael Sekor, Steven J. Franks</p>	<p>CA2-53 DsRNA production by fish viruses in fish cells</p> <p>Amal Aloufi</p>	<p>MF2-47.5 Influence of dissolved organic carbon (DOC) on growth of three fish species in north-temperate lakes</p> <p>Pierre-Olivier Benoit, Beatrix. E. Beisner, Christopher T. Solomon</p>	<p>MF5-50 Calcium uptake and the interactive effects of copper in <i>Daphnia pulex</i></p> <p>Andrew Liorti, Teresa Crease, Andreas Heyland</p>
<p>IN2-54 Persistence under intense fishing pressure: Distribution and condition of Nile perch (<i>Lates niloticus</i>) across habitats in Lake Nabugabo, Uganda</p> <p>Emmanuelle Chretien, Lauren J. Chapman</p>	<p>CA1-54 Among-plant consequences of within-plant variation: Variation among flowers drives selection on flowering time</p> <p>Emily J. Austen, Jessica R. K. Forrest, Arthur E. Weis</p>	<p>CA2-54 Effects of temperature and diet on immunity and fecundity in the mosquito, <i>Culex pipiens</i> (Diptera: Culicidae)</p> <p>Nicole Beckett, Laura Ferguson, Madeline Campbell, Sean Eckstein, Todd Smith, Shelley Adamo</p>		

PAUSE

Auditorium

15:30 - 16:30

Conférence plénière de la SCZ

Modérateur : Pat Walsh, président SCZ

INV-28

The sex lives of fish: Science, policy and beyond

Glen Van Der Kraak

Foyers (3e et 4e étages)

16:30 - 18:00

3ème séance de présentations sur affiche & réseautage (voir page 67-68 pour plus de détails)

18:30 - 19:30

Session ouverte au public SCEE / SCZ / FEZ

Modérateur : Andrew Hendry

INV-29

Polar obsession

Paul Nicklen

@PaulNicklen

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	LOC Symposium: From genomes to biomes / Symposium COL : Génomomes aux Biomes	Quantitative Ecology and Evolution / Écologie et évolution quantitatives	Genomics / Génomique	Contaminants: From Land to Sea / Contaminants : de la terre vers la mer
		Moderator/Modérateur Mark Dale	Moderator/Modérateur Cameron Weadick	Moderator/Modérateur Frances Pick
8:30	08:30 - 09:15 INV-31 Genome architecture and the dynamics of speciation V́ctor Soria-Carrasco, Zachariah Gompert, Aaron A. Comeault, Timothy E. Farkas, Thomas L. Parchman, J. Spencer Johnson, C. Alex Buerkle, Jeffrey L. Feder, Jens Bast, Tanja Schwander, Scott P. Egan, Bernard J. Crespi, Patrik Nosil	MR1-53 Replacement and richness difference components of beta diversity: New interpretation methods Pierre Legendre	MR2-49 From plant to animal: Cross-kingdom transfer of microRNAs and their regulatory effect in rainbow trout Paul Craig , Carol Bucking, Christophe LeMoine, Patrick Walsh, Thomas Moon	IN1-54 Are you really what you eat? Using GPS telemetry to unravel the sources of flame retardant contamination in birds foraging in anthropogenic landscapes Marie-Line Gentes , Marc Mazerolle, Jean-François Giroux, Jonathan Verreault
8:45			MR2-50 Finding the appropriate spatial scale a genomic study: Insights from transposable element data Brent Saylor , Tyler A. Elliott, Stefan Linquist, Stefan C. Kremer, T. Ryan Gregory, Karl Cottenie	IN1-55 Spatial assessment of the interactions between PCBs, organochlorine pesticides and organic matter in retrogressive thaw slump-affected lake sediments of the Mackenzie River Delta uplands, Canada David C. Eickmeyer , Linda E. Kimpe, Steve V. Kokelj, Michael F.J. Pisaric, John P. Smol, Hamed Sanei, Joshua R. Thienpont, Jules M. Blais
9:00		MR1-55 Rethinking co-occurrence and limiting similarity null models to better address community assembly Mike Lavender , Eric G. Lamb, Brandon Schamp	MR2-51 Transposable element richness in sequenced eukaryotes Tyler A. Elliott , T. Ryan Gregory	IN1-56 Characterizing polycyclic aromatic hydrocarbon (PAH) profiles in lake sediments near petrochemical activity in northwestern Canada Cyndy Desjardins , Linda E. Kimpe, Joshua Thienpont, Steven Kokelj, Jennifer Korosi, Michael F.J. Pisaric, John Smol, Michael Palmer, Jules M. Blais
9:15	09:15 - 10:00 INV-32 Size matters: From metabolic rate to macroevolutionary trajectories Zoe Finkel	MR1-56 Scaling plant-associated microbial biodiversity from trees to biomes Steven Kembel	MR2-52 Extensive copy-number variation of young genes across populations shapes the ecoresponsiveness of stickleback genomes Frédéric J.J. Chain , Philine G.D. Feulner, Mahesh Panchal, Christophe Eizaguirre, Irene E. Samonte, Martin Kalbe, Tobias L. Lenz, Monika Stoll, Erich Bornberg-Bauer, Manfred Milinski, Thorsten B.H. Reusch	IN1-57 Metal nanoparticles exposure effects inferred from transcriptome analysis Dana F. Simon , Rute F. Domingos, Charles Hauser, Colin M. Hutchins, William Zerges, Kevin J. Wilkinson



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Range Limits and Shifts / Changements des limites géographiques	Ecological Genetics / Génétique écologique	Population Dynamics / Dynamique des populations	Phylogeography / Phylogéographie	Oxidative Stress / Stress oxydatif
Moderator/Modérateur Carissa Brown	Moderator/Modérateur Melania Cristescu	Moderator/Modérateur William Vickery	Moderator/Modérateur Zhigang Jiang	Moderator/Modérateur Les Buck
IN2-55 Interspecific variation in range size and the climatic niche Véronique Boucher-Lalonde , David Currie	CA1-55 How predictable are the genetics of adaptation? Gina L. Conte , Matthew E. Arnegard, Jacob Best, Dolph Schluter, Catherine L. Peichel	CA2-55 The structure and balance of large mammal ecosystems Ian Hatton	MF2-47 The genetic structure and phylogeography of White Mountain Aves (<i>Dryas integrifolia</i>) in eastern Canada, from New Brunswick to Labrador Sabine Dietz , Karen Samis	MF5-52 Mitochondrial reactive oxygen species (ROS) metabolism: How do ectotherms compare to endotherms? Jason R. Treberg , Emianka Sotiri, Sheena Banh, Pamela Zacharias
IN2-56 Are southern range translocations likely to be viable under climate change? Michael Peers , Elizabeth Pearce, Dan Thornton, Dennis Murray	CA1-56 Life history and population genetic effects of dams on Sockeye salmon after 100 years Pasan Samarasin , Lyse Godbout, Helen Rodd, Brian Shuter	CA2-56 Longer ice-free seasons increase the risk of nest depredation by polar bears for colonial breeding birds in the Canadian Arctic Samuel A. Iverson , H. Grant Gilchrist, Paul A. Smith, Anthony J. Gaston, Mark R. Forbes	MF2-48 Variation in genetic structure, diversity and population size across the range of a Pacific coastal dune endemic plant Adriana López-Villalobos , Christopher G. Eckert	MF5-53 Development and ecotoxicological validation of a microbial bioreporter of oxidative stress Felix Morin , Alexandre Poulain, Thomas Moon
IN2-57 What range-edge population dynamics reveal about current and future range limits Anna Hargreaves , Christopher Eckert	CA1-57 Minimum theoretical and empirical spatial scales of local genetic adaptation to predatory crabs by poorly dispersing marine snails: Field experiments in Canada and in Spain Elizabeth Grace Boulding , Juan Galindo DaSilva, Nerea González-Lavín, Emilio Rolán Alvarez	CA2-57 Population fluctuation, synchrony and survival in Newfoundland caribou: Interactions between intrinsic and extrinsic drivers Guillaume Bastille-Rousseau , James A. Schaefer, Shane Mahoney, Dennis L. Murray	MF2-49 Degraded DNA in wildlife genetic studies: Does it affect molecular markers? Carly Graham , Douglas Boreham, Travis Glenn, Stacey Lance, Jessica Martino, Richard Manson, Jon Mee, Sean Rogers, Joanna Wilson, Christopher Somers	MF5-54 Evidence for a role of heme oxygenase-1 in regulating heart function in the zebrafish (<i>Danio rerio</i>) larvae exposed to changes in water oxygen levels Velislava Tzaneva , Steve F. Perry
IN2-58 Anti-climatic: How biotic and abiotic factors can constrain climate-induced range expansion of trees Carissa D. Brown , Jill F. Johnstone, Mark Vellend	CA1-58 Correlated genetic structure among interacting species: Coevolution, common environmental response, or covarying spatial autocorrelation? Catherine Cullingham , Jasmine Janes, Patrick James, Dario Alayon, Clement Tsui, Felix Sperling, Richard Hamelin, Janice Cooke, David Coltman	CA2-58 Unlikely survival of rodents in the desert: Exploring the impacts of refugia, dispersal, and rain pattern through a spatio-temporal simulation approach William Vickery , Julien Céré, Christopher Dickman	MF2-50 Population structure of a temperate bat: Gene flow and diversity of little brown bats on the islands and mainland areas of eastern Canada Brenna A. McLeod , Timothy R. Frazier, Lynne E. Burns, Krista Arseneault, Hugh G. Broders	MF5-55 The effects of strain and ploidy on the physiological responses of rainbow trout (<i>Oncorhynchus mykiss</i>) to pH 9.5 exposure. Andrew Thompson , Tammy Rodela, Jeffrey Richards

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
9:30	09:15 - 10:00 INV-32 Size matters: From metabolic rate to macroevolutionary trajectories Zoe Finkel	MR1-57 Using multiple imputation to estimate missing data in ecological meta-analysis Hance Ellington , Guillaume Bastille-Rousseau, Cayla Austin, Kristen Landolt, Bruce Pond, Erin Rees, Nic Robar, Dennis Murray	MR2-53 Genomic variation in yellow-rumped warblers David Toews , Alan Brelsford, Borja Mila, Christine Grossen, Darren Irwin	IN1-58 Explanations for seasonal variability in the sensitivity of sea lampreys to the chemical 3-trifluoromethyl-4-nitrophenol (TFM), used to control invasive sea lamprey in the Great Lakes Alexandra Muhametsafina , Chris Robinson, Hadi Dhiyebi; Benjamin Hlina, Tristan Long, Roger Bergstedt, Karen Slaght, Michael Wilkie	
9:45		MR1-58 Phylogenetic gradient analysis: Environmental drivers of phylogenetic variation across ecological communities Pedro Peres-Neto , Steven Kembel	MR2-54 Phylogenomics of African clawed frogs (<i>Xenopus</i>): implications for evolutionary dynamics of sex chromosomes Benjamin L.S. Furman , Ben J. Evans	IN1-59 Polyvinyl siloxane decreases invasive tunicate recruitment in the field Natalia Filip , Russell C. Wyeth	
10:00	BREAK				
	LOC Symposium: From genomes to biomes / Symposium COL : Génomes aux Biomes	Metacommunities and Models / Métacommunautés et modèles	Conservation Genomics and Genetics / Génomique et génétique de conservation	Ecology Along Gradients / Écologie le long des gradients	
		Moderator/Modérateur Pedro Peres-Neto	Moderator/Modérateur Silva Uusi-Heikkilä	Moderator/Modérateur Christopher Eckert	
10:30	10:30 - 11:15 INV-33 Achieving function through form Anja Geitmann	MR1-59 Écologie virtuelle : une approche écosystémique pour comprendre les mondes virtuels Julien Céré , Pierre-Olivier Montiglio	MR2-55 Will our forests look good in these genes? Genomics of local adaptation to climate in lodgepole pine and interior spruce Sally Aitken , Andreas Hamann, Kathryn Hodgins, Jason Holliday, Katharina Liepe, Katie Lotterhos, Ian MacLachlan, Sarah Markert, Robin Mellway, Kristin Nurkowski, Loren Rieseberg, David Roberts, Pia Smets, Tongli Wang, Michael Whitlock, Sam Yeaman	IN1-60 Elevation and phylogenetic diversity of neotropical insects Alex Smith , Winnie Hallwachs, Daniel H. Janzen	
10:45		MR1-60 A metacommunity model to demonstrate how generalist species dominate locally in complex regional landscapes Marie-Hélène Greffard , Hassen Allegue	MR2-56 Fragmentation effects on genetic structure and fitness in a calcareous grassland specialist, <i>Pulsatilla vulgaris</i> Michelle F. DiLeo , Helene H. Wagner	IN1-61 Contributions of species sorting and intraspecific variation to trait turnover among plant communities along a mountainside Geneviève Lajoie , Mark Vellend	

	International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
	<p>IN2-59 Dispersal mediates the predictability of multi-species range shifts</p> <p>Patrick Thompson, Andrew Gonzales</p>	<p>CA1-59 A paternity test to determine pollen movement and parent pairs in highbush blueberry</p> <p>Gwendolyn Huber, Kermit Ritland</p>	<p>CA2-59 Importance des effets cohorte chez une population d'ongulés alpins</p> <p>Gabriel Pigeon, Marco Festa-Bianchet, Fanie Pelletier</p>	<p>MF2-51 Asian gazelles Procra in anthropogenic landscape</p> <p>Zhigang Jiang</p>	<p>MF5-56 The role of oxidative stress in the aging and survivorship of teleost red blood cells</p> <p>Johanne M. Lewis, Amanda Burnette, Allyson McCormick, Emily McManus</p>
	<p>IN2-60 Critical review and synthesis of quantitative methods for measuring species' range shifts</p> <p>Semra Yalcin, Shawn J. Leroux</p>	<p>CA1-59.1 Growth regulation in brook charr: Investigations at the individual and family levels</p> <p>Aurélien Prinnet, Jocelyne Pellerin, Louis Bernatchez, Céline Audet</p>	<p>CA2-60 Size selectivity of predation by Alaskan brown bears depends on the density of their sockeye salmon prey</p> <p>Curry J. Cunningham, Gregory T. Ruggerone, Thomas P. Quinn</p>	<p>MF2-52 Genome-wide set of SNPs reveals evidence for the presence of a cryptic glacial refugium for thinhorn sheep</p> <p>Zijian Sim, Joshua M. Miller, Philippe Henry, David W. Coltman</p>	<p>MF5-57 Low hydrogen peroxide production in mitochondria of the long-lived <i>Arctica islandica</i>: Underlying mechanisms for slow aging</p> <p>Daniel Munro, Nicolas Pichaud, Frédérique Paquin, Vincent Keimed, Pierre U. Blier</p>
PAUSE					
	Aquatic Population Dynamics / Dynamique des populations aquatiques	Environmental DNA and Barcoding / ADN environnemental et codes à barres	Hybridization / Hybridation	Ammonia Toxicity / Toxicité de l'ammoniac	Response to Environmental Hypoxia / Réponse à l'environnement hypoxique
	Moderator/Modérateur Caroline Fox	Moderator/Modérateur Steven Kembel	Moderator/Modérateur Roland Vergilino	Moderator/Modérateur Sandra Fehsenfeld	Moderator/Modérateur Tammy Rodela
	<p>IN2-61 Spawning Pacific herring provide an important spatial subsidy to nearshore and intertidal species</p> <p>Caroline Fox, Paul Paquet, Thomas Reimchen</p>	<p>CA1-60 Assessment of below-ground plant biodiversity through environmental DNA from soil: A case study in the Peace-Athabasca Delta wetlands</p> <p>Nicole Fahner, Mehrdad Hajibabaei, Donald Baird</p>	<p>CA2-61 Hybrid zone dynamics of the <i>Papilio machaon</i> species group in western Canada</p> <p>Julian Dupuis, Felix Sperling</p>	<p>MF2-53 Fish on acid: A tale of urine, nitrogen metabolism, and acid-base regulation</p> <p>Michael James Lawrence, Pat A. Wright, Chris M. Wood</p>	<p>MF5-58 Living at the edge: Hypoxia as a driver of divergence in East African swamps</p> <p>Lauren Chapman</p>
	<p>IN2-62 Effects of competition with four non-native salmonid species on Atlantic salmon from three populations</p> <p>Aimee Lee Houde, Chris Wilson, Bryan Neff</p>	<p>CA1-61 Environmental DNA: A communal metagenomics approach to detecting amphibians in aquatic ecosystems</p> <p>Brandon K. Booker, David Coltman, Corey Davis, Cynthia Paszkowski</p>	<p>CA2-62 Consistent genomic signatures of reproductive isolation in a hybrid zone responding to climate change</p> <p>Scott A. Taylor, Thomas A. White, Wesley Hochachka, Valentina Ferretti, Robert L. Curry, Irby J. Lovette</p>	<p>MF2-54 High environmental ammonia during early life: Effects on the HPI axis and neuronal development of zebrafish</p> <p>Tegan Williams, Luke Bonham, Nick Bernier</p>	<p>MF5-59 Some like it cold... especially in hypoxia: developmental changes in the thermoregulatory response of hibernating and non-hibernating rodents</p> <p>Yvonne A. Dzal, William K. Milsom</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)	
11:00	10:30 - 11:15 INV-33 Achieving function through form Anja Geitmann	MR1-61 A game theoretic model of competition among plants predicts the global distribution of biomes Gordon G. McNickle , Miquel A. Gonzalez-Meler, Douglas Lynch, Jennifer Baltzer, Joel S. Brown	MR2-57 Flitting from coast to coast: Continent-wide spatial genetics of the recently endangered little brown Myotis (<i>Myotis lucifugus</i>) at the northern limits of its range Christina Davy , Cori Lausen, Craig Willis, Christopher Kyle	IN1-62 Trait dispersion in regional assemblages across elevational gradients Juan Zuloaga , Jeremy Kerr	
11:15	11:15 - 12:00 INV-34 The influence of phenotypic trait dynamics on population processes Fanie Pelletier	MR1-62 Non-hierarchical patterns of movement promote stability and resilience in a tri-trophic metacommunity Eric Pedersen , Justin Marleau, Monica Granados, Holly Moeller, Frederic Guichard	MR2-58 Co-varying genotypic changes associated with selective mortality at sea in Atlantic salmon Vincent Bourret , Mélanie Dionne, Louis Bernatchez	IN1-63 Competition, predation, physiology and the elevational limits of tropical birds Jill E. Jankowski , Gustavo A. Mark A. Chappell, Scott K. Robinson	
11:30		MR1-63 Habitat network structure mediates cooperation in microfluidic and simulation experiments Edward Wong , Michel Loreau, Andrew Gonzalez	MR2-59 Conservation genomics of anadromous Atlantic salmon (<i>Salmo salar</i>) in North America Jean-Sébastien Moore , Vincent Bourret, Patrick O'Reilly, Mélanie Dionne, Ian R. Bradbury, Louis Bernatchez	IN1-64 Plant-insect interactions do not determine the elevational range limits of a montane herb Anna L. Hargreaves, Linsey Falk, Jennifer Weiner, Christopher G. Eckert	
11:45		MR1-64 The emergence of nutrient colimitation in metaecosystems Justin Marleau , Frédéric Guichard, Michel Loreau	MR2-60 Evolutionary legacy of size-selected harvest extends from genes to populations Silva Uusi-Heikkilä , Andrew R Whiteley, Anna Kuparinen, Shuichi Matsumura, Paul A Venturelli, Christian Wolter, Jon Slate, Craig R Primmer, Robert Arlinghaus	IN1-65 Investigating adaptive constraints at latitudinal range margins in <i>Arabidopsis lyrata</i> Antoine Paccard	
12:00					

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-63 How much kelp does an urchin eat? Intraspecies differences in consumption rates</p> <p>Thew Suskiewicz, Ladd Johnson, Walter Adey</p>	<p>CA1-62 Early detection of aquatic invaders: Can next-generation sequencing accurately describe zooplankton communities?</p> <p>Emily A. Brown, Aibin Zhan, Jullien Flynn, Hugh MacIsaac, Melania Cristescu</p>	<p>CA2-63 The structure of hybrid zones between Arctic char (<i>Salvelinus alpinus</i>) and Dolly Varden (<i>Salvelinus malma</i>)</p> <p>Shannan May-McNally, Thomas P. Quinn, Eric B. Taylor</p>	<p>MF2-55 Ammonia independent apical sodium uptake in the integument of the freshwater ribbon leech (<i>Nephelopsis obscura</i>)</p> <p>Alex Quijada-Rodriguez, Aaron Schultz, Greg Goss, Dirk Weihrauch</p>	<p>MF5-60 Elasmobranchs as models of stress: The effects of hypo-osmotic stress on the chemical and molecular chaperone systems of the spiny dogfish shark (<i>Squalus acanthias</i>)</p> <p>Robyn MacLellan, Natalie Donaher, Dave Barnett, Patricia Wright, Tyson MacCormack, Suzie Currie</p>
<p>IN2-64 Choose your weapon: Selective cnidae sequestration in aeolid nudibranch <i>Hermisenda crassicornis</i></p> <p>Susan Anthony, A. Richard Palmer</p>	<p>CA1-63 Benthic invertebrate biodiversity in the central coastal and interior mountain ecosystems of British Columbia: From morphology and DNA barcoding to ecological function</p> <p>Aynsley Thielman, Marla Schwarzfeld, Anne-Marie Flores, Mark Shrimpton, Lisa Poirier, Daniel Erasmus, Brent Murray, Allan Costello, Dezene Huber, Michael Gillingham</p>	<p>CA2-64 Haldane's rule in <i>Caenorhabditis briggsae</i> and <i>C. sp. 9</i></p> <p>Joanna Bundus, Asher Cutter</p>	<p>MF2-56 Function and localization of the primitive ammonia transporter (Rhr-2) in the non-parasitic soil nematode, <i>Caenorhabditis elegans</i></p> <p>Aida Adlimoghaddam, Mike O'Donnell, David Merz, Jay Kormish, Dirk Weihrauch</p>	<p>MF5-61 Distinct physiological strategies are used to cope with constant and intermittent hypoxia in killifish (<i>Fundulus heteroclitus</i>)</p> <p>Brittney G. Borowiec, Kimberley L. Darcy, Graham R. Scott</p>
<p>IN2-65 A rigorous test of prey-, predator- and ratio-dependent functional response models in a zooplankton microcosm</p> <p>Christina M. Prokopenko, Katrine Turgeon, John M. Fryxell</p>	<p>CA1-64 Diel and seasonal dynamics of nitrifying prokaryotes in a small oligotrophic lake</p> <p>Stéphanie Massé, David Walsh, Roxane Maranger</p>	<p>CA2-65 Introns from the past: Hybridization misleads about the rate of intron gain in <i>Daphnia</i></p> <p>Roland Vergilino, Melania E.A. Cristescu, France Dufresne, Teresa J. Crease</p>	<p>MF2-57 Ammonia excretion in the marine fire worm <i>Eurythoe complanata</i>: Transport studies and identification of the "gills"</p> <p>Dirk Weihrauch, Heiko Meyer, Günter Purschke, Daniel Thiel, Maja Hugenschütt</p>	<p>MF5-62 An examination of hypoxia and ammonia tolerance in zebrafish: Understanding the mechanisms of multiple stressor tolerance</p> <p>Tammy Rodela, Jeff Richards</p>
<p>IN2-66 Wavelet analysis highlights shifting oceanography and fisheries signals in the long-term population dynamics of an oceanic apex predator</p> <p>Laura Tremblay-Boyer, Simon Nicol, Shelton Harley</p>	<p>CA1-64.1 Next generation sequencing for environmental biomonitoring</p> <p>Jennifer Spall, Shadi Shokralla, Donald Baird, Mehrdad Hajibabaei</p>	<p>CA2-66 What genome sequencing may be hiding from you: The lake whitefish as a cytogenetic case study</p> <p>Anne-Marie Dion-Côté, Radka Symonová, Šárka Pelikánová, Petr Ráb, Louis Bernatchez</p>	<p>MF2-58 An ancestral potassium channel = a novel ammonia transporter involved in crustacean acid - base balance?</p> <p>Sandra Fehsenfeld, Dirk Weihrauch</p>	<p>MF5-63 Living at the edge: Fish performance under extreme hypoxia in East African swamps</p> <p>Catherine Baltazar, Lauren J. Chapman</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	LOC Symposium: From genomes to biomes / Symposium COL : Génomes aux Biomes	Community Structure and Assembly / Synécologie	Evolution of Behaviour / Évolution des comportements	Phylogenies and Diversification / Phylogénie et diversification
		Moderator/Modérateur Diana Sharpe	Moderator/Modérateur Eric Vander Wal	Moderator/Modérateur Simon Joly
13:30	13:30 - 14:15 INV-35 Molecules, genes and ecosystem function: Linking the molecular structure of dissolved organic C to bacterial community composition and function across boreal aquatic ecosystems Paul Del Giorgio	MR1-65 Response of coral reef fish assemblages to a severe natural disturbance Thomas Lamy , Pierre Legendre, René Galzin, Joachim Claudet	MR2-61 Testing the pace-of-life syndrome hypothesis: A quantitative genetic study on bighorn ewes Denis Réale , Julien Martin, Dave Coltman, Jocelyn Poissant, Marco Festa-Bianchet	IN1-66 Global distribution and conservation of avian evolutionary distinctiveness Arne Mooers , Walter Jetz, Gavin Thomas, David Redding, Klaas Hartmann
13:45		MR1-66 Phylogenetic overdispersion of late Cenozoic ungulate communities Danielle Fraser , Root Gorelick, Natalia Rybczynski	MR2-62 Decomposing an individual's social network centrality into its genetic and environmental influences Eric Vander Wal , Marco Festa-Bianchet, Denis Réale, Fanie Pelletier	IN1-67 Estimating absolute rates of evolution using discrete morphological characters across an uncertain phylogeny: rates of anatomical evolution in modern birds Luke B. Harrison , Hans C.E. Larsson
14:00		MR1-67 Large-scale patterns of epigeic macroarthropod diversity and assemblage structure in Arctic Canada Crystal M. Ernst , Christopher M. Buddle	MR2-63 A molecular biologist's guide to social gene discovery Emma Mullen , Graham Thompson	IN1-68 Testing for adaptive radiation and ecological constraint in a major lineage of rodents (Hystricomorpha, Caviomorpha) Nathan S. Upham , Bruce D. Patterson
14:15	14:15 - 15:00 INV-36 Ecosystem consequences of contemporary evolution: A new hope for range shifts caused by climate change Joe Bailey , Jennifer Schweitzer	MR1-68 How does variation in moss communities and functional traits across forest types influence successional trajectories among deciduous, coniferous and mixed stands in interior Alaska? Mélanie Jean , Jill F. Johnstone, Michelle C. Mack, Heather D. Alexander	MR2-64 Foraging and vitellogenin gene expression patterns in eusocial sweat bees using qRT-PCR David Awde , Adonis Skandalis, Miriam Richards	IN1-69 Different clades, different rates: Exploring trait spaces in a phylogenetic context Gregor Rolshausen , Jonathan Davies, Gregor Fussmann, Eric van der Wal, Nash Turley, Andrew Hendry



International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
Physiological Response to Hypoxia / Réponse physiologique à l'hypoxie	Population Ecology / Écologie des populations	Parallel and Convergent Evolution / Évolutions parallèles et convergente	Life History and Aging / Cycle biologique et vieillissement	Symbioses and Host Associations / Symbioses et relations avec l'hôte
Moderator/Modérateur Nicholas Bernier	Moderator/Modérateur Easton R. White	Moderator/Modérateur Bonnie Fraser	Moderator/Modérateur Marco Festa-Bianchet	Moderator/Modérateur Terrence Bell
<p>IN2-67 The effects of hypoxia on branchial sodium exchange in freshwater acclimated killifish (<i>Fundulus heteroclitus</i>)</p> <p>Marina Giacomini, Trish Schulte, Chris Wood</p>	<p>CA1-65 Fronts, food and fitness: Linking environment to life history in two albatross species</p> <p>Lesley Thorne, Scott Shaffer, Elliott Hazen, Steven Bograd, David Foley, Melinda Connors</p>	<p>CA2-67 Persistent directional selection on body size revisited: The role of investment – production tradeoffs in evolutionary stasis</p> <p>Njal Rollinson, Locke Rowe</p>	<p>MF2-59 Dominance rank and reproductive success in male eastern grey kangaroos</p> <p>Elise Rioux-Paquette, Dany Garant, Marco Festa-Bianchet</p>	<p>MF5-64 Phylogenetic analysis of green algae living symbiotically with four north american amphibian egg masses: An environmental sequencing approach</p> <p>Yuan Lin, Cory Bishop</p>
<p>IN2-68 Turtle (<i>Trachemys scripta</i>) cardiac pacemaker mechanism is altered by temperature and anoxia</p> <p>Jonathan A.W. Stecyk, Christine S. Couturier, Theresa Cho, Natalia Dorofeyeva, Aurora Hoeffler, Gary Lose, Rhiannon Pattison, John Shero</p>	<p>CA1-66 How competition and resource fluctuation shape acquisition and allocation strategies in female ungulates: Insights from an energy-based model</p> <p>Laurence Puillet, Nicolas Friggens, Mélanie Dammhahn, Denis Réale</p>	<p>CA2-68 Ancestral developmental potential facilitates parallel evolution of a novel supersoldier caste in the hyperdiverse ant genus <i>Pheidole</i></p> <p>Rajendhran Rajakumar, Diego San Mauro, Michiel B. Dijkstra, Ming H. Huang, Diana E. Wheeler, Francois Hiou-Tim, Abderrahman Khila, Michael Cournoyea, Ehab Abouheif</p>	<p>MF2-60 Patterns of aging in two long-lived seabirds: What do they tell us about processes?</p> <p>Kyle H. Elliott, Tony Gaston, Scott Hatch, James Hare, Gary Anderson</p>	<p>MF5-65 ToxEcology: Using meta-'omics to reveal broad patterns in microbial-plant interactions in the presence of hydrocarbon and trace metal contaminants</p> <p>Terrence H. Bell, Yves Terrat, Antoine Pagé, Etienne Yergeau, Marc St-Arnaud</p>
<p>IN2-69 Variation in the brain water content of crucian carp and the common goldfish in response to ammonia and anoxia</p> <p>Michael P. Wilkie, Jonathan A.W. Stecyk, Christine S. Couturier, Sanya Sidhu, Zachary Lister, Guro K. Sandvik, Göran E. Nilsson</p>	<p>CA1-67 Context- and phenotype-dependent dispersal in an insect, <i>Notonecta undulata</i> (<i>Heteroptera: Notonectidae</i>)</p> <p>Celina B. Baines, Locke Rowe</p>	<p>CA2-69 The genomic signature of parallel adaptation from shared genetic variation</p> <p>Marius Roesti, Sergey Gavrilits, Andrew Hendry, Walter Salzburger, Daniel Berner</p>	<p>MF2-61 Critical hydrological windows influence the reproductive timing of kokanee</p> <p>Yolanda E. Morbey</p>	<p>MF5-66 The phyllosphere microbial communities of the natural and urban temperate forest of Quebec</p> <p>Isabelle Laforest-L., Steven Kembel, Christian Messier</p>
<p>IN2-70 A complex puzzle: Divergent mitochondrial function between mice and the hypoxia-tolerant naked mole rat</p> <p>Matthew E. Pamerter, Gigi Y. Lau, Jeffrey G. Richards, William K. Milsom</p>		<p>CA2-70 (Non)parallelism in lake-stream stickleback: Plastic, genetic, or both?</p> <p>Krista Oke, Mehvish Bukhari, Renaud Kaeuffer, Andrew Hendry</p>	<p>MF2-62 Mutation, condition, and the maintenance of extended lifespan in <i>Drosophila</i></p> <p>Chris Kimber, Adam Chippindale</p>	<p>MF5-67 Mutualist-mediated range expansion in a grass-fungal endophyte symbiosis: linking field and greenhouse tests of drought tolerance to range-wide species distribution models</p> <p>Michelle E. Afkhami, Patrick J. McIntyre, Sharon Y. Strauss</p>

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
14:30 ↑	14:15 - 15:00 INV-36 Ecosystem consequences of contemporary evolution: A new hope for range shifts caused by climate change Joe Bailey , Jennifer Schweitzer	MR1-69 Resources are not all created equal: Irrigation and nitrogen addition have opposing effects on plant community diversity Eric Lamb , Mike Lavender, Dilshan de Silva Benegarama, Sara Kuleza	MR2-65 Can social pheromones regulate reproduction in non-social insects? Alison L. Camiletti , Graham J. Thompson	IN1-70 Reconstructing the early evolution and morphology of fossil enteropneusts using experimental decay and consideration of new fossil taxa Karma Nanglu , Jean-Bernard Caron, Chris Cameron
14:45			MR2-66 A molecular realization of honey bee worker sterility Graham Thompson , Emma Mullen	IN1-71 Toward consilience in reptile phylogeny: MicroRNAs support an archosaur, not lepidosaur, affinity for turtles Daniel J. Field , Jacques A. Gauthier, Benjamin L. King, Davide Pisani, Tyler R. Lyson, Kevin J. Peterson
15:00	BREAK			
	Auditorium			
15:30	15:30 - 15:40 INV-37 Address by the President of the Canadian Institute for Ecology and Evolution Peter R. Leavitt			
	Young Investigator Symposium			
	Moderator Beatrix Beisner			
15:40	15:40 - 16:10 INV-38 The macroecology of range shifts in response to climate change Jennifer Sunday CSEE - 2013 Early Career Award, presented by Judith Myers			
16:10	16:10 - 16:40 INV-39 The genomic basis of local adaptation Rowan D.H. Barrett , Brant K. Peterson, Hopi E. Hoekstra CSEE - 2013 Early Career Award, presented by Judith Myers			

International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
<p>IN2-71 Divergent molecular responses in hypoxia tolerant and intolerant species of sculpin exposed to short-term hypoxia</p> <p>Milica Mandic, Jeffrey G. Richards</p>	<p>CA1-69 Ontogeny of mother-offspring distances reflects sex differences in fine-scale genetic structure of eastern grey kangaroos</p> <p>Wendy J. King, Elise Rioux-Paquette, Dany Garant, Anne Goldizen, Marco Festa-Bianchet</p>	<p>CA2-71 Population genomics of convergently and experimentally evolving populations of guppies</p> <p>Bonnie A. Fraser, Axel Künstner, David N. Reznick, Detlef Weigel, Christine Dreyer</p>	<p>MF2-63 Sex, mating system, and the evolution of lifespan in <i>Pristionchus</i> nematodes</p> <p>Cameron Weadick, Ralf Sommer</p>	<p>MF5-68 Assessing species boundaries and host ranges of bark beetle associated tortoise mites using morphometric and molecular markers</p> <p>Wayne Knee</p>
<p>IN2-72 Embryonic anoxia exposure favors the development of a proactive stress phenotype in adult zebrafish</p> <p>Nicholas J. Bernier, Catherine M. Ivy, Cayleigh E. Robertson</p>	<p>CA1-70 Population declines of six elasmobranch species at a marine protected area in the tropical eastern Pacific</p> <p>Easton R. White, Julia K. Baum, Joanna Mills-Fleming, Mark Myers</p>	<p>CA2-72 Rapid reversion towards wild population attributes after domesticated-wild hybridization in a fish</p> <p>Andrew Harbicht, Chris Wilson, Dylan Fraser</p>	<p>MF2-64 Les patrons de croissance et de reproduction de l'espèce fourragère <i>Neomysis americana</i> contrôlés par des facteurs environnementaux dans la zone de transition estuarienne du Saint-Laurent</p> <p>Lotus Kandy Bouchard, Gesche Winkler</p>	<p>MF5-69 Host seasonality and distribution explain the damselfly-water mite associations</p> <p>Julia J. Mlynarek, Mark R. Forbes</p>

PAUSE

Auditorium

15:30 - 15:40

INV-37

Président de l'Institut canadien d'écologie et d'évolution

Peter R. Leavitt

Symposium Jeunes Investigateurs

Modérateur
Beatrix Beisner

15:40 - 16:10

INV-38

The macroecology of range shifts in response to climate change

Jennifer Sunday**SCEE - 2013 Early Career Award, présenté par Judith Myers**

16:10 - 16:40

INV-39

The genomic basis of local adaptation

Rowan D.H. Barrett, Brant K. Peterson, Hopi E. Hoekstra**SCEE - 2013 Early Career Award, présenté par Judith Myers**

Auditorium

Young Investigator Symposium

Moderator
Beatrix Beisner

16:40

16:40 - 17:10

INV-40

Lake size and shape modulates gas exchange with the atmosphere: Biogeochemical implications at different spatial scales
Dominic Vachon, Yves T. Prairie

SCL - 2013 Peters Award, presented by Jules Blais

17:10

17:10 - 18:10

INV-41

Earthworm invasions in the boreal forest: Spread and effects of an exotic ecosystem engineer
Erin Cameron

CSZ - 2013 T.W.M. Cameron Outstanding PhD Thesis Award, presented by Pat Walsh

18:10

18:10 - 18:30

INV-42

Address by the Federal Commissioner of the Environment and Sustainable Development
Julie Gelfand



Auditorium

Symposium Jeunes Investigateurs

Modérateur
Beatrix Beisner**16:40 - 17:10**

INV-40

Lake size and shape modulates gas exchange with the atmosphere: Biogeochemical implications at different spatial scales

Dominic Vachon, Yves T. Prairie**SCL - 2013 Peters Award, présenté par Jules Blais****17:10 - 18:10**

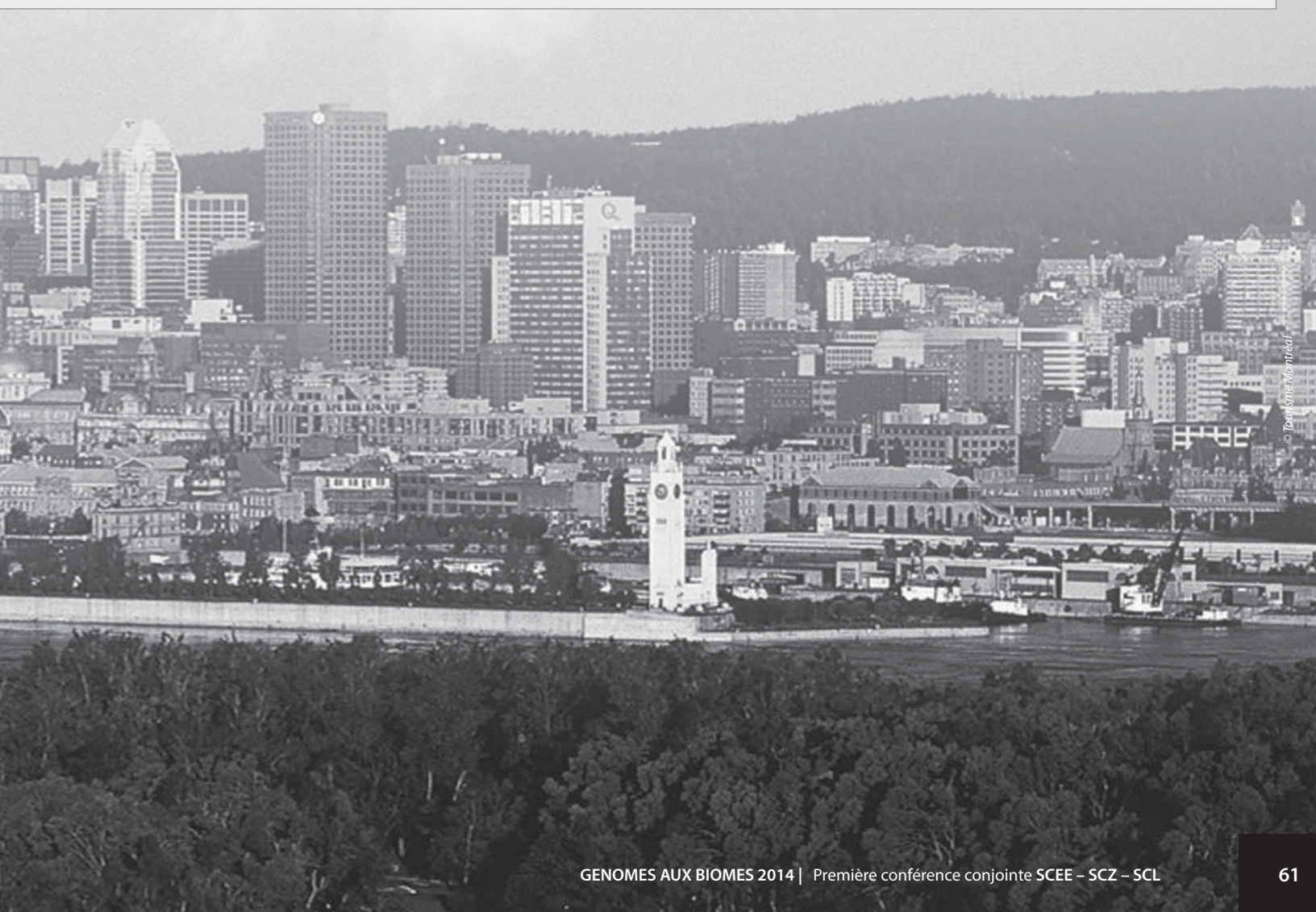
INV-41

Earthworm invasions in the boreal forest: Spread and effects of an exotic ecosystem engineer

Erin Cameron**SCZ - 2013 T.W.M. Cameron Outstanding PhD Thesis Award, présenté par Pat Walsh****18:10 - 18:30**

INV-42

Commissaire à l'environnement et au développement durable

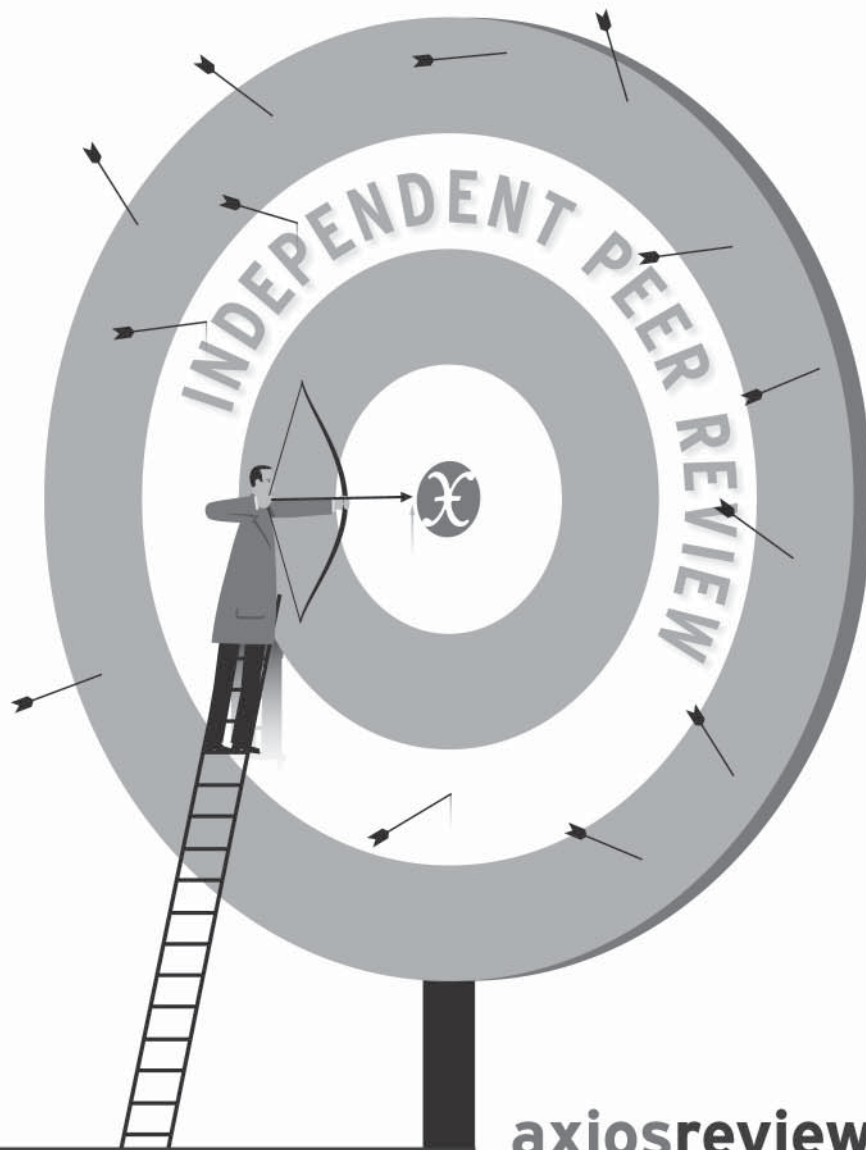
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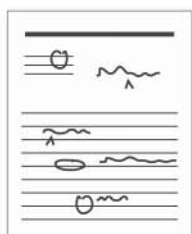
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POSTER SESSION 1 / SÉANCE DE PRÉSENTATION SUR AFFICHE 1

Monday May 26

Lundi 26 mai

16:30 - 18:00

3rd floor/3e étage

PO-M-01

Identifying target genes responsible for mating system variation in two pipefish species using whole brain transcriptomes

Emily Rose, Adam G. Jones

PO-M-02

Adaptive genetic variation of Canada lynx across their geographic range

Melanie Prentice, Jeff Bowman, Paul Wilson

PO-M-03

Sperm performance in the African cichlid *Pseudocrenilabrus multicolor victoriae* from divergent oxygen regimes

Brandon Varela, Kerry Perrault, Mery Martinez

PO-M-04

Impact of mineralocorticoid, glucocorticoid and thyroid hormones on respiratory control development in *Lithobates catesbeianus*

Jean-Philippe Rousseau, Pierre-Luc Dubé, Richard Kinkad

PO-M-05

Influence of physical barriers to gene flow in a widespread passerine

Rachael V. Adams, **Theresa M. Burg**

PO-M-06

Sensory and signal modulation by sex steroids: Do hormones affect visual mate choice in sailfin mollies?

Caitlin N. Friesen, Molly E. Cummings

PO-M-07

From whitefish to charr – The potential for fisheries mediated evolution in Arctic fishes based on life history and genetic characteristics

Ross F. Tallman

PO-M-08

Decoding the development of the bigheaded ant: A global invasive species

Benjamin Fung, Travis Chen, Ehab Abouheif, Rajendren Rajakumar, Matteen Rafiqi

PO-M-09

Population differentiation of lake trout in Mistassini Lake, QC

Kia Marin, Andrew Coon, Dylan J. Fraser

PO-M-10

Development of intracardiac innervation in the zebrafish (*Danio rerio*)

Frank M. Smith, Matthew R. Stoyek, Jordan Kennedy, Roger P. Croll

PO-M-11

Environmental effects on the African cichlid *Pseudocrenilabrus multicolor victoriae*'s fitness

Kerry Perrault, Mery Martinez-Garcia

PO-M-12

Impaired development of testes in the asexual strain of the planarian worm, *Schmidtea mediterranea*

John L. Brubacher, Ana P. Vieira, Phillip A. Newmark

PO-M-13

Artificial selection on embryonic gene expression patterns in *Drosophila*

Ab Matteen Rafiqi, Katherine Turner, David Juncker, Ehab Abouheif

PO-M-14

Static Allometry and the evolution of sexual dimorphism in the green frog (*Lithobates clamitans*)

Olivera Joksimovic, Stephen De Lisle

PO-M-15

The first complete, dated phylogeny of all Canadian butterflies

Jayme Lewthwaite, Arne Mooers

PO-M-16

Genomic consequences of adaptation to a novel host in the seed beetle, *Callosobruchus maculatus*

Meredith M. Doellman, Glen Hood, Greg Ragland, Scott Egan, Frank Messina, Jeffrey Feder

PO-M-17

Examining the potential of metabarcoding for measuring beta diversity

Lisa Ledger, Joel Gibson, Shadi Shokralla, Ian King, Mehrdad Hajibabaei

PO-M-18

Decoding the development of a model ant species, the carpenter ant

Travis Chen, Benjamin Fung, Rajendran Rajakumar, Abdul Matteen Rafiqi, Ehab Abouheif

PO-M-19

Longevity and temperature as selective pressures in the evolution of veneroid bivalves' mtDNA

Aurore Levivier, France Dufresne, Pierre Blier

PO-M-20

A role for rapid local adaptation in the differentiation of Haida Gwaii avifauna?

Nathaniel Clark, Tim Birt, Theresa Burg, Tony Gaston, Vicki Friesen

PO-M-21

Copy number variation in rDNA and the transposon, Pokey in *Daphnia*

Shannon Eagle, Kaitlynn Leriche, **Teresa Crease**

PO-M-22

Genomics of microsympatric host plant adaptation and speciation in western *Rhagoletis pomonella*

Charles C.Y. Xu, Glen R. Hood, Meredith M. Doellman, Jeffrey L. Feder

PO-M-23

Kinship within and among groups of beluga whales (*Delphinapterus leucas*) hunted in the Beaufort Sea: Are family groups and dispersal related?
Lianne Postma, Margaret Docker, Steve Ferguson

PO-M-24

Untangling evolutionary relationships of black widow spiders using nuclear and mitochondrial genes
Charmaine E. Condy, Jeremy A. Miller, Jessica E. Garb, Maydianne C.B. Andrade, Nathan R. Lovejoy

PO-M-25

Intraspecific variation in sperm morphometry of the African cyprinid *Barbus neumayeri* across divergent environments
Mery Martinez, Veronica Mullin, Albrecht Schulte-Hostedde

PO-M-26

Testing for hybridization between deer mice (*Peromyscus maniculatus*) and white-footed mice (*Peromyscus leucopus*)
Michelle McKay, Jeff Bowman, Paul J. Wilson

PO-M-27

Bone development: Cells, tissues and responses to laser ablation
Tamara Franz-Odenaal, Carolyn Chang, James Jabalee

PO-M-28

Exploring genome-wide divergence during speciation with gene flow
Laura Southcott, Marcus R. Kronforst

PO-M-29

Host shifts in herbivorous insects: Testing model predictions for the earliest stages of ecological speciation
Chandra Moffat, Stephen Heard

PO-M-30

A taxonomic revision of Canadian non-*Osmia* Osmiini (Hymenoptera: Megachilidae)
Genevieve Rowe

PO-M-31

Evolutionary and biomechanical correlates of hummingbird body size
Dimitri A. Skandalis, Christopher C. Witt, Gary R. Graves, Gary R. Stiles

PO-M-32

Evolution of carbohydrate sparing mechanisms in vertebrates: To spare or not to spare?
Paul A. Fournier, Bradley T. Kelley, Lindsey T. Byrne, Timothy J. Fairchild

4th floor/4e étage

PO-M-33

Tidal newts: Evolution in a stressful environment
Gareth R. Hopkins, Edmund D. Brodie, Jr., Zoë M. Stopher, Lorin A. Neuman-Lee, Susannah S. French

PO-M-34

The color and the shape: Investigating the genomic architecture of divergent shell characteristics in *Littorina saxatilis* ecotypes connected by a hybrid zone
Joseph Anthony Kess, Elizabeth Boulding, Fiona Harper

PO-M-35

Cyanobacterial blooms: Community structure and controlling variables in a mesotrophic reservoir
Delphine Rolland, Warwick F. Vincent

PO-M-36

Rates of intra-guild predation and cannibalism in native and invasive crabs in Atlantic Canada
Paula Tummon Flynn, Cassandra Mellish, Pedro Quijon

PO-M-37

Population viability analysis of an endangered minnow on the St. Lawrence River using a metapopulation model
Megan McCusker, Nicholas Mandrak, Nathan Lovejoy

PO-M-38

Incorporating watershed characteristics to improve predictions of fish distributions in Northern Ontario in the face of climate change
Brie A. Edwards, Jenni McDermid

PO-M-39

Testing the stability of the realized niches of phytoplankton
Andrew Irwin, Zoe Finkel

PO-M-40

Temperature effects on standard metabolic rates of brook trout (*Salvelinus fontinalis*) eggs, alevin and fry: Interpopulation variation and implications for coping with climate change
Katie Cook, Chris Wilson, Gary Burness

PO-M-41

Predicting the effects of climate change on walleye distributions in Ontario Lakes
Thomas Van Zuijden, Sapna Sharma

PO-M-43

Phenotypic change in response to environmental change varies among genera and venue. Why generalizations are not possible
Christopher Edge, Don Jackson, Jeff Houlahan, Marie-Josée Fortin

PO-M-44

The distribution of larval odonates across environmental gradients
Sarah K. French, Shannon J. McCauley

PO-M-45

Zooplankton as microbial hotspots in fresh water lakes
Ola Khawasik, David Walsh

PO-M-46

Use of non-biting midges (Diptera:Chironomidae) to assess biological integrity of Alberta wetlands
Qi Liu, Heather Proctor

PO-M-47

Establishment of fibroblast cell lines from the skin and caudal fin of walleye, *Sander vitreus*
Nguyen (Nathan) T K. Vo, Annie S. M. Mak, Lucy E. J. Lee, John S. Lumsden, Brian Dixon, Niels C. Bols

PO-M-48

Making scents of nucleobase compounds: Changes in zebrafish (*Danio rerio*) odour-evoked responses
Angela L. Shamchuk, Amy Wang, Irtiza Oyon, Keith B. Tierney

PO-M-49

Harder, better, faster, stronger: A life history strategy shift in *Littorina* after the introduction of a predator
Christopher J. Austin, Liz Boulding

PO-M-50

Impacts of winter water level drawdown on abundance and biodiversity of temperate freshwater macroinvertebrate communities
Gabrielle Trottier, Christian Nozais, Chris Solomon, Irene Gregory-Eaves

PO-M-51

Disentangling multiple factors influencing snail population decline: A case study at a plateau lake in China
Zhuoyan Song, Junqian Zhang, Xiaoming Jiang, Zhicai Xie

PO-M-52

Census of bowhead whales (*Balaena mysticetus*) in Nunavut, Canada by genetic capture-mark-recapture
Stephen D. Petersen, **Lucy Johnson**, Bernard LeBlanc, Jeff W. Higdson, Dave Yurkowski, Cory Matthews, Lianne Postma, Steve H. Ferguson

PO-M-53

The dispersal-ecological specialization tradeoff explains the diversity-latitudinal gradient in zooplankton communities
Renato Henriques-Silva, Bernadette Pinel-Alloul, Pedro R. Peres-Neto

PO-M-54

Behavioural and physiological resilience of arctic char (*Salvelinus alpinus*) to diurnal temperature fluctuations
Matthew J.H. Gilbert, Davin Swift, Ryan Popowich, Cameron Stevens, Keith B. Tierney

PO-M-55

Use of non-mammalian cell lines for the study of microsporidians
Lucy EJ Lee, Sarah J Gignac, Alina Reid, Michael Macleod, S. Richelle Monaghan

PO-M-56

Effects of climate change on lake trout distributions in Ontario
Miranda Chen, Sapna Sharma

PO-M-57

Inferring patterns of benthic invertebrate co-occurrence and phylogenetic diversity in Wood Buffalo National Park from next-generation sequencing analysis of environmental samples
Michael Wright, Dr. Mehrdad Hajibabaei

PO-M-58

The distribution of male-transmitted mitochondrial DNA polymorphisms in *Mytilus edulis* mussels in south-western Nova Scotia
Don Stewart, Alexandra Rice, Marion Sinclair-Waters

PO-M-59

Relationships of Arctic Cod, *Boreogadus saida* (Lepechin 1774), body composition with their environment in the Canadian Beaufort Sea
Brittany R. Lynn, Wojciech Walkusz, Jason Treberg, Dr. James Reist

PO-M-60

Environmental DNA preserved in lake sediments: Calibrating a new tool for biodiversity science
Joanna Gauthier, David Walsh, Daniel Selbie, Irene Gregory-Eaves

PO-M-61

Quantifying the effects of water level drawdown on reservoir water quality using paleolimnological techniques: A case study of Grand Lac Saint François, QC

Leanne Elchyshyn, Christopher T. Solomon, Christian Nozais, Irene Gregory-Eaves

PO-M-62

Hierarchical population structure and genetic diversity of lake trout (*Salvelinus namaycush*) in a dendritic system in Northern Labrador
Gregory McCracken, Robert Perry, Donald Keefe, Daniel E Ruzzante

PO-M-63

Local and broad scale movements of Arctic (*Sterna paradisaea*) and Common Terns (*Sterna hirundo*) off the Atlantic coast

Jessica Stephens, Phil Taylor, Mark Mallory, Robert Ronconi

PO-M-64

Phylogeography and invasions in the North Atlantic littoral: Concordant patterns in *Hediste diversicolor* and *Corophium volutator*

Tony Einfeldt, Jason Addison

POSTER SESSION 2 / SÉANCE DE PRÉSENTATION SUR AFFICHE 2

Tuesday May 27

Mardi 27 mai

16:30 - 18:00

3rd floor/3e étage

PO-T-01

Automated tracking of wild hummingbird mass and energetics over multiple time scales using radio frequency identification technology
Lily Hou, Kenneth Collins Welch Jr.

PO-T-02

Evidence for Democracy: Scientists advocating for science integrity and evidence-based policies
Dominique G. Roche, Aerin L. Jacobs, Katie Gibbs

PO-T-03

Influence du climat sur le gain de masse des agneaux et des juvéniles chez le mouflon d'Amérique

Simon Guillemette, Fanie Pelletier, Marco Festa-Bianchet

PO-T-04

Does stress induce a change in the ecosystem engineering effects of nematode burrows on *Escherichia coli*?

Laura Bell, Kim Cuddington

PO-T-05

Winter habitat segregation and population density in mule deer and white-tailed deer

Travis Bannatyne, Susan Lingle, Nicola Koper

PO-T-06

Just keep swimming: The relationship between maximum swim speed and electric organ discharge in weakly electric fishes

Kerri L. Ackerly, Lauren Chapman, Rudiger Krahe

PO-T-07

Slow learners exhibit more plasticity in their level of boldness in male but not female zebra finches

Julie Gibelli, Frédérique Dubois

PO-T-08

Dissecting the molecular mechanisms of a host's behavioural modification by its parasite using phenotypic engineering

Lucie Grecias

PO-T-09

Estimates of bear movement probabilities using circuit theory and observation data

Julie Fortin, Jeffrey Cardille, Trisalyn Nelson, Gordon Stenhouse

PO-T-10

Electrosensory-based search strategies in weakly electric fish

Rebecca Rochman, Dr. John E. Lewis

PO-T-11

Air breathing in the Lake Magadi tilapia, *Alcolapia grahami* – hypoxic and oxic behaviours: The role of reactive oxygen species?

Ora Johannsson, Chris Wood, Harold Bergman, Pierre Laurent, Geraldine Kavembe, Adalto Bianchini, Lucas Bianchini, John Maina, Claudine Chevalier, Michael Papah, Kevin Brix, Gundrun DeBoeck, Kisipan Letura, Rodi Ojoo

PO-T-12

Critical decisions: Risk allocation by a model arthropod (*Folsomia candida*)

Allison Bannister, Douglas Morris

PO-T-13

Historical biogeography predicts social complexity in the small carpenter bees

Sandra Rehan

PO-T-14

Metabolic variation in natural populations of wild yeast

Pedram Samani, Etienne Low-Decarie, Kyra Mckelvey, Thomas Bell, Austin Burt, Vassiliki Koufopanou, Christian Landry, Graham Bell

PO-T-15

Genetic analysis of bighorn sheep population structure from winter faecal samples

Jamie Gorrell, University of Alberta (Presenter); Jeff Kneteman, Alberta Environment and Sustainable Resource Development; David Hik, University of Alberta; David Coltman, University of Alberta

PO-T-16

The persistence of social influences on aggressive behaviour in a seasonal environment

Julia Kilgour, Andrew McAdam, Ryan Norris

PO-T-17

Dispersal in male Trinidadian guppies: Aggression, size, and frequency dependence

Anna Li, Helen Rodd

PO-T-18

Sex-specific genetic structure following a recent range expansion: A case study with fishers (*Martes pennanti*)

Philip Bertrand

PO-T-19

Organism size determines the strength of environmental filtering

Andrew MacDonald, Diane Srivastava, Vinicius Farjalla

PO-T-20

Could scarcity of Hickorynut mussels in a regulated river be explained by decline of their suitable host fish?

André L. Martel, Jacqueline Madill

PO-T-21

Designed to attract: The relationship of infant distress vocalizations to other social vocalizations

Cora Anne Romanow, Tobias Riede, Susan Lingle

PO-T-22

High-quality females prefer rare males in the monogamous zebra finch

Cynthia Hébert-Brassard, Frédérique Dubois

PO-T-23

Evaluating measures of recovery for species listed under the United States Endangered Species Act

Shahira Khair, David Currie, Scott Findlay

PO-T-24

Ecological niche differentiation along the genetic gradient by hybridization of eastern wolf and coyote in Northeastern America

Josée-Anne Otis, Daniel Thornton, Linda Y. Rutledge, Dennis L. Murray

PO-T-25

Pollinator dynamics in agricultural landscapes: The effects of restoration and management

Caitlin Paterson, Andrew MacDougall

PO-T-26

Does source population size affect performance in new environments?

Matthew C. Yates, Dylan J. Fraser

PO-T-27

Competitive intransitivity, population interaction structure, and strategy coexistence

Robert A. Laird, Brandon S. Schamp

PO-T-28

Spatio-temporal phenology of macroinvertebrates and bird use of a coastal wetland landscape near Aulac, NB

Christine McLauchlan, Mark Mallory, Nic McLellan, Patrick Englehardt, Ian Spooner

PO-T-29

Dispersal rate drives diversity in a naturally fragmented metacommunity

Tess Grainger, Natalie Jones, Rachel Germain, Aaron Hall, Lyn Baldwin, Benjamin Gilbert

PO-T-30

Providing rides is not stressful for dromedary camels

Yasmine Majchrzak, Gabriela Mastromonaco, Wendy Korver, Gary Burness

PO-T-31

Balancing pre- and post-copulatory selection: allometry of the genitalia in the Mustelidae
Albrecht I. Schulte-Hostedde, Jeff Bowman

PO-T-32

Spatial patterns of bacterial community composition along environmental gradients: Insights on bacterial rarity
Juan-Pablo Nino, Clara Ruiz-Gonzalez, Paul A. del Giorgio

4th floor/4e étage

PO-T-33

Chillin' with crickets: Lab-induced freeze tolerance in the spring field cricket, *Gryllus veletis*
Alexander McKinnon, Brent J. Sinclair

PO-T-34

Molecular mechanisms of behavioral reprogramming in response to prenatal maternal stress
Sergio Cortez Ghio, Laurence Denault-Tremblay, Céline Audet, Nadia Aubin-Horth

PO-T-35

Photoammonification in boreal and plains lakes
Jeff Hudson, Yakiv Ponomarenko, Kristine Hunter

PO-T-36

Mechanism(s) of ammonia-induced brain swelling in rainbow trout and goldfish
Phillip Pham-Ho, Michael P. Wilkie

PO-T-37

Cardiorespiratory responses of seawater acclimated adult Arctic charr (*Salvelinus alpinus*) and Atlantic salmon (*Salmo salar*) to an acute temperature increase
Chantelle Penney, Gordon Nash, **A. Kurt Gamperl**

PO-T-38

Ecological and evolutionary responses of arctic flies to recent climate change at Zackenberg, Greenland
Sarah Loboda, Jade Savage, Chris Buddle, Toke Høye

PO-T-39

Physiology of cold hardiness and diapause of pomegranate fruit moth *Apomyelois ceratoniae* (Zeller) (Lepidoptera: Pyralidae)
Banafsheh Ahmadilari, Saeid Moharrampour

PO-T-40

Effects of maternal social stress on offspring behaviour and responsiveness to stress in zebrafish (*Danio rerio*)
Julia Redfern, Dr. Katie Gilmour

PO-T-41

Organophosphorus esters: A potential global contaminant
Wenhan Cheng, Liguang Sun, Jules M. Blais, Pengfei Zhang, Ting Ruan

PO-T-42

Physiological responses of the intertidal starfish *Pisaster ochraceus*, to emersion at different temperatures
Iain J. McGaw, Alexander M. Clifford, Greg G. Goss

PO-T-43

Factors impacting bioaccessibility of MeHg in fish: Dietary habits and the microbiome
Catherine Girard, Ousséni Ouedraogo, Marc Amyot

PO-T-44

Parasite-driven insanity: Finding the secret recipe to host behavior manipulation
François Olivier Hébert, Nadia Aubin-Horth, Christian Landry

PO-T-45

Responses of mummichog (*Fundulus heteroclitus*) ovarian estrogen receptor gene expression during maturation and following 17 alpha-ethinylestradiol (EE2) exposure
Helen Debes, Andrea Lister, Deborah MacLatchy

PO-T-46

Waging a cold war on pathogens: Immune activity and acclimation at low temperatures
Laura V. Ferguson, Ronald S. Flannagan, David E. Heinrichs, Brent J. Sinclair

PO-T-47

Bisphenol A exposure during embryogenesis disrupts metabolic pathways in juvenile rainbow trout liver
Laura Dindia, **Oana Birceanu**, Mathilakth Vijayan

PO-T-48

Nesfatin-1 regulation of cardiovascular functions in zebrafish
Neelima Nair, Courtney Gerger, Dr. Lynn Weber, Dr. Suraj Unniappan

PO-T-49

Prolonged exposure to constant light (LL) abolishes hormonal rhythmicity and decreases reproductive capacity in *Rhodnius prolixus*
Michael Cardinal-Aucoin

PO-T-50

Life in the extreme: Deer mouse thermogenesis at high altitude
Nastashya Wall, Grant B McClelland

PO-T-51

Lake meta-community adaption to heavy metal contamination: Thresholds, sweeps and switches in short-term evolution
Bachar Cheaib, Malo LeBoulch, Mildred Delgado, François Brochu, Pierre-Luc Mercier, Sébastien Boutin, Jeff Gauthier, Nicolas Derome

PO-T-52

Too hot to touch: Thermal tolerance in shortnose sturgeon, *Acipenser brevirostrum*
Yueyang Zhang, James Kieffer

PO-T-53

The effects of Fort Smith, NT, wastewater effluent on reproductive status in *Notropis* spp.
Grant Harrison

PO-T-54

The effects of chronic acetaminophen exposure on rainbow trout
Eugene Choi, Joanna Wilson

PO-T-55

Fishes are running out of energy in the race against global warming and metal contamination
Isabelle Fournier

PO-T-56

Parasites and pollution; do both matter to marine bird reproduction?
Jennifer Provencher, Mark Forbes, Grant Gilchrist

PO-T-57

The effects of non-consumptive predation stress on immune response in libellulid dragonflies
Minh Tam (Tammy) Duong, Shannon J. McCauley

PO-T-58

Hydrogen isotopes of n-alkanes as indicator for porewater salinity variations in Lake Van (Eastern Anatolia, Turkey)
Marie-Eve Randlett, Achim Bechtel, Marcel van der Meer, Francien Peterse, Thomas Litt, Nadine Pickarski, Bernhard Wehrli, Carsten J. Schubert

PO-T-59

Modulation of mitochondrial electron transport system activity by copper, temperature and hypoxia in rainbow trout, *Oncorhynchus mykiss*
Ravinder Sappal, Mark Fast, Don Stevens, Fred Kibenge, Ahmed Siah, Collins Kamunde

PO-T-60

Influence of water pH and body size on the uptake of the lampricide TFM (3-trifluoromethyl-4-nitrophenol) by larval sea lamprey (*Petromyzon marinus*) and non-target fishes
Adam Smith, **Laura Tessier**, Dr. Michael Wilkie

PO-T-61

Rana sylvatica brevinin-15Y: regulation of an antimicrobial peptide in response to environmental stress
Barbara A. Katzenback, Helen A. Holden, Justin Falardeau, Christine Childers, Hanane Hadj-Moussa, Tyler J. Avis, Kenneth B. Storey

PO-T-62

Androgenic components of pulp mill effluent and their potential to impact reproductive endocrine status in the mummichog (*Fundulus heteroclitus*)
Robert Rutherford, Philip Scott, Andrea Lister, Craig Milestone, L. Mark Hewitt, Deborah MacLatchy

PO-T-63

Population genetic structure and connectivity in *Parastichopus californicus* on the Pacific coast of Canada
Amanda Xuereb, Isabelle Côté, Frédéric Guichard, Louis Bernatchez, Janelle Curtis, Marie-Josée Fortin

PO-T-64

Arctic cod *Boreogadus saida* upper cardiac thermal limits
Helen Drost, Dr. Farrell, Dr. Eddy Carmack

POSTER SESSION 3 / SÉANCE DE PRÉSENTATION SUR AFFICHE 1

Wednesday May 28

Mercredi May 28

16:30 - 18:00

3rd floor/3e étage

PO-W-01

Landing distribution of beetles on stressed red spruce, *Picea rubens* (Sarg.), inside and outside the range of an invading wood-borer
Kenneth Dearborn, Stephen Heard, Deepa Pureswaran, Jon Sweeney,

PO-W-02

Flow cytometric analysis of pollen grains collected from individual bees: Insights about pollen loads and foraging behaviour
Paul Kron, Allison Kwok, **Brian C. Husband**

PO-W-03

A comparison of beach and dune habitat on a common coastal plant
Brittany Cole

PO-W-04

The search for ice-binding proteins: A tale of a freeze-tolerant larva and its plant host
Heather E. Tomalty, Hussain J. Hussain, Kenneth B. Storey, Virginia K. Walker

PO-W-05

Biodiversity monitoring of coastal tail frogs (*Ascaphus truei*): Comparison of environmental DNA analysis and field surveys
Brent Murray, Angela Grob, Chris Johnson, Melisa Todd, Doug Steventon

PO-W-06

Effects of environmental filtering and competition on Collembola diversity along a Neotropical elevational gradient in Costa Rica
Kate Pare

PO-W-07

Étude du patron d'invasion des vers de terre exotiques et de leur impact sur les communautés végétales de sous-étage
Martine Fugère, Robert Bradley, Mark Vellend

PO-W-08

Basal plant facilitation extends to insect community structure and diversity in the Mojave Desert, California
Ally Ruttan, Alessandro Filazzola, Christopher J. Lortie

PO-W-09

Bees vs. flies: Who carries and delivers the most genetically diverse pollen load?
Jennifer L. Ison, Stuart Wagenius, Ji Dong Bai, Kory Kolis, Allison Parker, Arthur Weis

PO-W-10

Net plant-plant interactions change in magnitude along gradients of environmental stress and time in an extreme drought year
Alessandro Filazzola, Amanda Liczner, Christopher J. Lortie

PO-W-11

Nitrogen foraging by *Medicago truncatula* roots promotes cooperation with rhizobia
Rebecca T. Batstone, Megan E. Frederickson

PO-W-12

Symbiotic communities across the expanding range of the mountain pine beetle
Haydee Peralta-Vazquez, Mary Reid

PO-W-13

Identifying fire activity in the Global Forest Change data set in Boreal Canada
Nicole McLaren

PO-W-14

Residual trees in Northern Ontario mixed woods as habitat for lichen under different management intensities
Lyndsay Schram, Richard Troy McMullin, Steven Newmaster, Madhur Anand

PO-W-15

Characterization of black spruce (*Picea mariana*) transcriptome in response to elevated CO₂, drought and combined conditions using RNA-seq
Jinhong Kim, John E. Major, Om P. Rajora

PO-W-16

Genotyping by sequencing for an invasive plant: A case study with population genetics of the common reed
Arnaud Albert, Martine Jean, Claude Lavoie, Jacques Brisson, François Belzile

PO-W-17

Self-compatible mutants in self-incompatible populations of *Leavenworthia alabamica*
Sarah J. Baldwin, Daniel J. Schoen

PO-W-18

Herbivore-grass-endophyte interactions: Unpacking vegetation responses to grazing by feral Soay sheep on St Kilda, Scotland
Adriana Puentes, Mark Vicari, Janarthany Parameswaran, Gustaf Granath, **Dawn Bazely**

PO-W-19

Body size and fitness in plants: Revisiting the selection consequences of competition
Lonnie Aarssen, Amanda Tracey

PO-W-20

Invasive species in novel mosaic environments: The case of gorse in southern Brazil
Rodrigo León Cordero, Gerhard Overbeck, Madhur Anand

PO-W-21

Phenotypic divergence in an invasive plant: Potential for adaptation to an insect released for biocontrol?
Risa D. Sargent, Michael Stastny

PO-W-22

A novel application of body size spectra for soil nematodes
Paul B L George, Zoë Lindo

PO-W-23

Components of pollen limitation in relation to reproductive success in small populations of big bluestem (*Andropogon gerardii*)
Zack Harris, Brian C. Husband

PO-W-24

Hidden responses to environmental variation: Maternal effects reveal species niche dimensions
Rachel M. Germain, Benjamin Gilbert

PO-W-25

Organization of epigenetic variation in hybrids of the blue-spotted salamander complex
France Beaugregard, Bernard Angers

PO-W-26

Synchrony in white spruce cone production across three spatial scales
Allison E. Grecco, **Jalene M. LaMontagne**

PO-W-27

Investment trade-offs between producing two different mutualistic nectar rewards in *Turnera* spp.
Emily M. Dutton, Elaine Y. Luo, Adam R. Cembrowski, Megan E. Frederickson

PO-W-28

Costly sex: using Aster models to examine life-history traits in *Delphinium glaucum*
Lisa E. O'Donnell, Lawrence D. Harder

PO-W-29

Thiol production in lake water and biofilms
Maxime Leclerc, Dolors Planas, Marc Amyot

PO-W-30

Using fur harvest based hierarchical occupancy models to reveal range dynamics for Canada lynx
Morgan Wehtje, Dennis Murray, Jeff Bowman

4th floor/4e étage

PO-W-33

The mechanism of acid-base regulation in Dungeness crabs (*Metacarcinus magister*)
Joana Picoto Correia, Dirk Weihrauch, Sandra Fehsenfeld, Stephanie Hans, Alex Quijada-Rodriguez

PO-W-34

Critical windows in embryonic development: metabolic effects of shifting temperatures in whitefish embryos (*Coregonus clupeaformis*)
Casey A. Mueller, John Eme, Douglas R. Boreham, Richard G. Manzoni, Christopher M. Somers, Joanna Y. Wilson

PO-W-35

Glucose transporter transcription levels in ruby-throated hummingbirds
Alexander Morley Myrka

PO-W-36

Characterization and neural control of the cardiac pacemaker system in zebrafish
Matthew R. Stoyek, Roger P. Croll, Frank M. Smith

PO-W-37

Cellular mechanisms of chirp generation in the pacemaker nucleus of *Apterionotus leptorhynchus*
Katie Lucas, Julie Warrington, Tim Lewis, John Lewis

PO-W-38

Is saponin-permeabilized tissue a viable alternative to isolated mitochondria? Assessing mitochondrial respiration in liver tissue of hibernating and euthermic ground squirrels

Katherine E. Mathers, James F. Staples

PO-W-39

Factors determining differences in the calcium transient between Atlantic cod (*Gadus morhua*) and Steelhead trout (*Oncorhynchus mykiss*) cardiomyocytes

Sarita Pellowe, A. Kurt Gamperl, Bruno D. Stuyvers

PO-W-40

Gonadal asymmetry in lake trout: A result of climate change?

Jenni McDermid, Mohammed Alshamli

PO-W-41

Evidence for the presence of alternative oxidase in arthropods

Jaspreet Singh, **Allison E. McDonald**

PO-W-42

Rupture mechanisms of mucin vesicles in the slime of the Pacific hagfish, *Eptatretus stoutii*

Shannon Ferraro, Douglas Fudge, Patricia Wright

PO-W-43

Long introns in stress genes of *Fundulus heteroclitus*: A microRNA-based survival strategy?

William Marshall, Lauren Claus

PO-W-44

The effects of 17 α -ethinyl estradiol and ammonia on the reproductive status of *Pimephales promelas*

Samantha Deeming, Andrea Lister, Robert Rutherford, Deborah MacLachy

PO-W-45

A resourceful genome: New genes and functions in bivalve mitochondrial genomes

Sophie Breton, Liliana Milani, Fabrizio Ghiselli, Marco Passamonti

PO-W-46

Thermal tolerance of an invasive land snail, *Cepaea nemoralis*

Qian Long, Brent J Sinclair

PO-W-47

Impacts of winter drawdown on fish community structure and littoral fish body condition

Raphaëlle Thomas, Chris Solomon, Irene Gregory-Eaves, Christian Nozais

PO-W-48

Population genomics of spawning herring in the North West Atlantic using SNPs

Angela P. Fuentes-Pardo, Douglas P. Swain, Daniel E. Ruzzante

PO-W-49

Finding the molybdenum transporter in rainbow trout: Direct quantification using ICP-MS analysis

Courtney Ek, **Scott D. Reid**

PO-W-50

Tough to swallow: First attempts to measure specific dynamic action (SDA) in juvenile shortnose sturgeon (*Acipenser brevirostrum*)

Faith Penny, Emily O'Reilly, Dr. James Kieffer

PO-W-51

How to boost carbohydrate use in bees? Add proline

Julie Crevier, Charles-Antoine Darveau

PO-W-52

Metabolic effects of nanoparticle exposure in white suckers (*Catostomus commersonii*)

Louise Tunnah, Robin Bessemer, Kathryn Butler, Suzie Currie, Tyson MacCormack

PO-W-53

L-type Ca²⁺ current of Alaska blackfish (*Dallia pectoralis*) ventricular myocytes: Effects of thermal acclimation

Kerry L. Kubly, Jonathan A.W. Stecyk

PO-W-54

Recombinant BAC technology provides new insights into histamine signalling in sea urchin larvae

Andreas Heyland, Kate Buckley, Jonathan Rast

PO-W-55

Gill filament regeneration in zebrafish

Anna Mierzwa, Michael Jonz

PO-W-56

Effects of exercise on whole body ion and water balance in rainbow trout

Mattina M. Alonge, Peter Mochel, Eyad Bittar, **Jason S. Bystrinsky**

PO-W-57

Investigating the mechanisms of slime thread production in the hagfish gland thread cell

Sarah Schorno, Douglas S. Fudge, Andreas Heyland

PO-W-58

The genomics of repeated parallel evolution of seasonal band-rumped storm-petrel (*Oceanodroma castro*) populations

Rebecca Taylor, Jacob González-Solís, Mark Bolton, Petra Deane, Vicki Friesen

PO-W-59

Tendons may reduce the energetic cost of moving by over 25%

Douglas A. Syme, Alex D. Hume

PO-W-60

Acid-base regulation in the American horseshoe crab, *Limulus polyphemus*

Stephanie Hans, Alex Quijada-Rodriguez, Dirk Weihrach

PO-W-61

Digestive and metabolic impact of fish oil substitution by linseed oil on Arctic charr, Brook trout and their hybrids

Mirelle Caouette Houle, Bernard-Antoin Dupont Cyr, Grant W. Vandenberg, France Dufresne, Felix Christen, Nathalie R. Lefrançois, Arianne Savoie, Véronique Desrosiers, Émilie Proulx, Pierre U. Blier

PO-W-62

Interactions between temperature and body size in the control of COX4-1 gene expression in fish

Ge Gao, Shawn Harris, Chris Moyes

PO-W-63

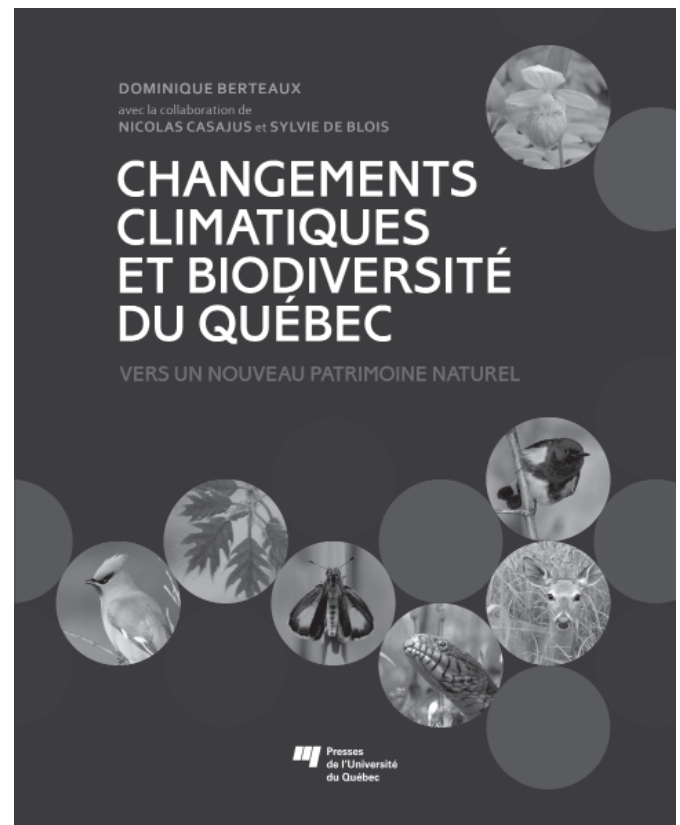
Phosphorylation of the mitochondrial ATP-sensitive K⁺ channel by PKC in anoxic turtle brain

Peter Hawrysh, Leslie Buck

PO-W-64

Transcriptional and post-transcriptional control of COX4-2 in fish in relation to hypoxia

Jared McDonald, Danielle Porplycia, Chris D. Moyes





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IN2	International II
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CA2	Cartier II
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MR2	Mont-Royal II
MF2	Mansfield II
MF5	Mansfield V
PO	Poster

(Poster code includes day and poster board number)

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IN2	International II
CA1	Cartier I
CA2	Cartier II
MR1	Mont-Royal I
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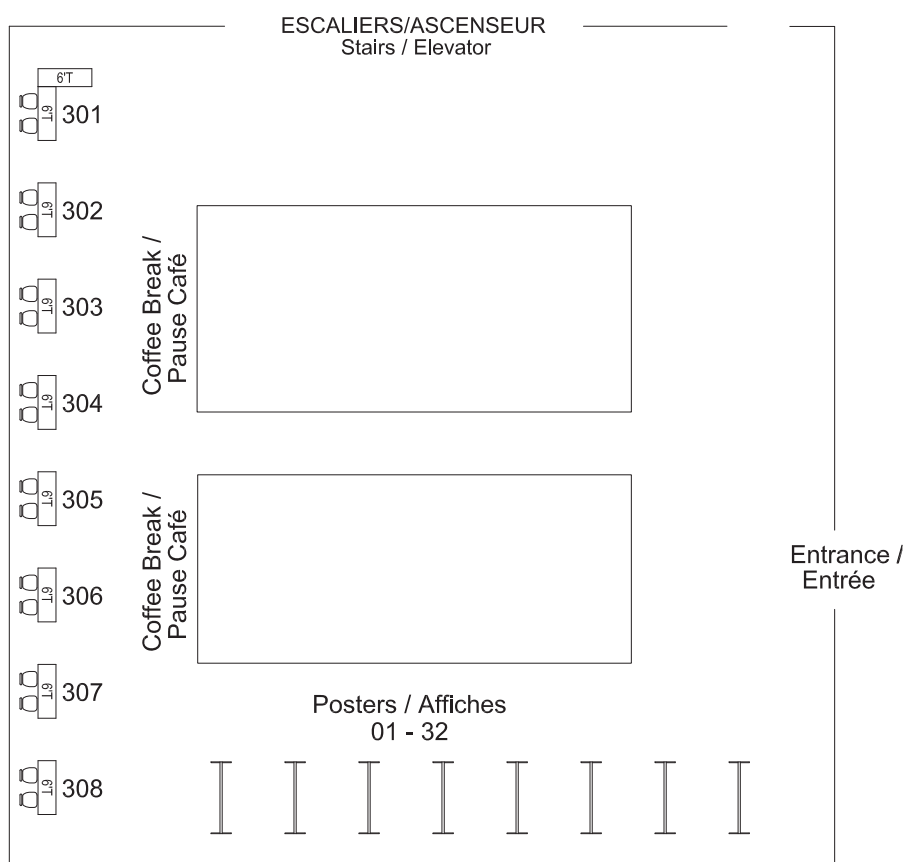
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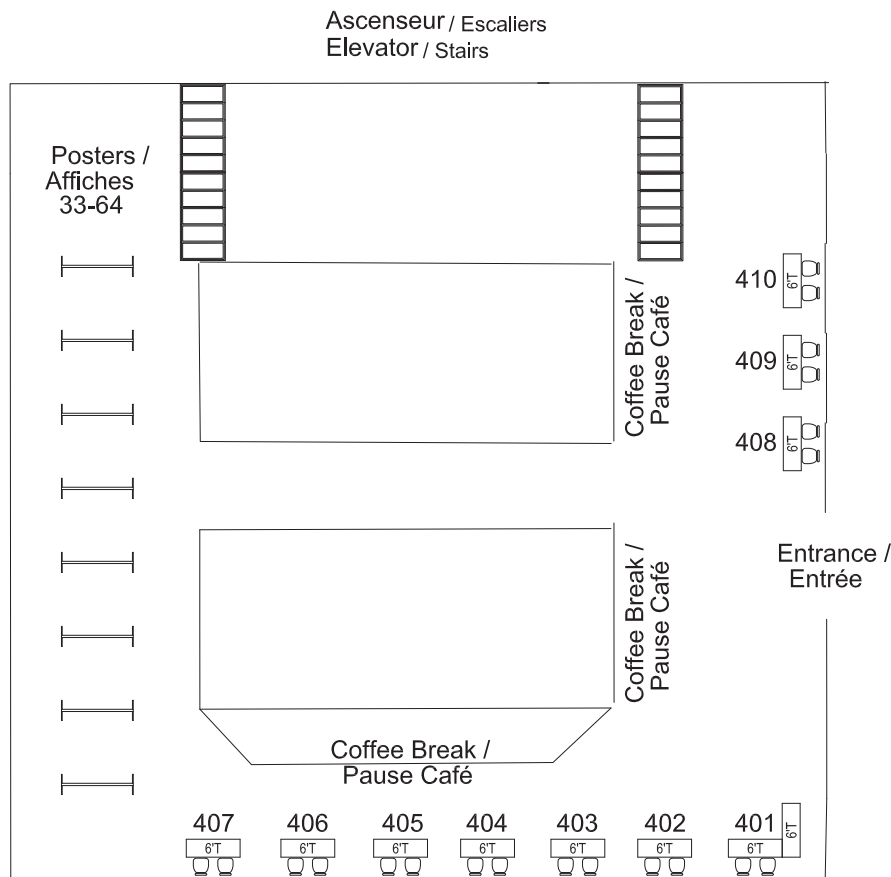
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