BULLETIN





Canadian Society of Zoologists
Advancing the study of animals and their environment

Société Canadienne de Zoologie Favoriser l'étude des animaux et de leur environnement

Spring 2014/ Printemps 2014 Volume 45 Number 2



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Contents

2014 CSZ Awards / Prix SCZ 2014	5
President's Message / Message du Président 2014-05-12	10
List of CSZ Awards / Liste des prix du SCZ	12
F. E. J. Fry Medal	12
Médaille F. E. J.Fry	12
Prix Bob Boutilier pour jeune chercheur	13
Bob Boutilier New Investigator Award	13
Distinguished Service Award	13
Médaille de distinction pour services rendus à la SCZ	13
Le prix T. W. M. Cameron pour une thèse de Ph.D. exceptionnelle	14
T. W. M. Cameron Outstanding Ph. D. Thesis Award	14
CSZ Public Awareness Award for an article in the popular press	14
Prix de la presse de la SCZ	14
Prix de vulgarisation scientifique	15
Public Education Award	15
Leo Margolis Scholarship	15
La bourse Leo Margolis	16
Prix Robert Arnold Wardle	16
Robert Arnold Wardle Award	16
Appendices / annexes	17
May/mai 2014 financial statements / états financiers	17
Genomes to/aux Biomes 2014 Program/Programme	

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BULLETIN OF THE CANADIAN SOCIETY OF ZOOLOGISTS

The Bulletin is usually published three times a year (winter, spring, and autumn) by the Canadian Society of Zoologists. Members are invited to contribute short articles in either English or French and any information that might be of interest to Canadian zoologists. Send an electronic file. Figures, line drawings and photographs may be included. All manuscripts submitted are subject to review and approval by the Editors before publication. The views and comments expressed by contributors do not necessarily reflect the official policy of the Society.

BULLETIN DE LA SOCIÉTÉ CANADIENNE DE ZOOLOGIE

Le Bulletin est publié trois fois par année (hiver, printemps et automne) par la Société canadienne de zoologie. Les membres sont invités à collaborer en envoyant au rédacteur en chef de courts articles en français ou en anglais, ainsi que toute information ou anecdote susceptibles d'intéresser les zoologistes canadiens. Les auteurs devront soumettre une copie sur traitement de texte. Les textes peuvent être accompagnés de dessins originaux ou de photographies. Avant d'être publiés, ils seront révisés et devront être approuvés par le rédacteur. Les opinions et commentaires qui apparaissent dans le Bulletin ne reflètent pas nécessairement les politiques de la SCZ.

[Photo Front page: Arctic ground squirrel, spermophile arctique (Spermophilus parryii)]

2014 CSZ Awards / Prix SCZ 2014

F. E. J. Fry Medal/ Médaille F. E. J. Fry

Glen Van Der Kraak

Fry Medal Lecture/ Conférence Fry

The sex lives of fish: Science, policy and beyond. La vie sexuelle de poissons: la science, la politique et au-delà

Glen is the Associate Dean for Research in the College of Biological Science at the University of Guelph, where he is a Professor in the Department of Integrative Biology. He is a co-leader of the Ecotoxicology node for the Southern Ontario Water



Consortium – a segment of the platform that focuses on assessing water quality and analyzing its impact on aquatic ecosystems in order to support the development and testing of innovations in watershed management. He has published over 280 refereed journal articles, reviews, and book chapters and has written or edited four books.

A reproductive physiologist, he studies the endocrine control of ovarian development in fish and also has extensive experience in the testing of chemicals and complex effluents for effects on the reproductive physiology of fish and amphibians. Dr. Van Der Kraak holds the 2002 Award of Excellence in Research, by the University of Guelph chapter of Sigma Xi. He has served on two World Health Organization panels on Chemical Safety and was a member of the Royal Society of Canada Expert Panel on Environmental and Health Impacts of Canada's Oil Sands Industry. In the past, Dr. Van Der Kraak has frequently acted as an advisor to the U.S. Environmental Protection Agency and related industry. He is currently a member of the editorial boards of four journals.

Dr. Van Der Kraak obtained both his B.Sc. and M.Sc. from the University of Manitoba, and his Ph.D. from the University of British Columbia. You can find more details on his research at his U of Guelph web pages http://www.uoguelph.ca/ib/people/faculty/vanderkraak.shtml.

Glen est le doyen associé de la recherche au Collège des sciences biologiques à l'Université de Guelph, où il est professeur au Département de biologie intégrative. Il est co-leader du noeud écotoxicologie pour le Consortium pour l'eau du Sud de l'Ontario - un segment de la plate-forme qui met l'accent sur l'évaluation de la qualité de l'eau et de l'analyse de son impact sur les écosystèmes aquatiques afin de soutenir le développement et le test des innovations dans la gestion des bassins versants. Il a publié plus de 280 articles de revues à comité de lecture, des critiques et chapitres de livres et a écrit ou édité quatre livres.

Un physiologiste de la reproduction, sa recherche est sur le contrôle endocrinien du développement des ovaires chez les poissons. Il possède également une vaste expérience dans les essais de produits chimiques et des effluents complexes pour les effets sur la physiologie de la reproduction dans les poissons et les amphibiens. Dr Van Der Kraak détient le Prix d'excellence en recherche 2002, de le chapitre de Sigma Xi Université de Guelph. Il a siégé à deux panneaux Organisation mondiale de la Santé sur la sécurité chimique et a été membre de la Société royale du Canada Comité d'experts sur les impacts environnementaux et sanitaires des industrie des sables bitumineux du Canada. Dans le passé, le Dr Van Der Kraak a souvent agi comme conseiller auprès le Environmental Protection Agency des États-Unis et les industries connexes. Il est actuellement membre des comités de rédaction de quatre revues.

Glenn a obtenu son BSc et M.Sc. de l'Université du Manitoba, et son doctorat de l'Université de la Colombie-Britannique. Vous pouvez trouver plus de détails sur ses recherches à ses pages U de Guelph web http://www.uoguelph.ca/ib/people/faculty/vanderkraak.shtml.

TWM Cameron Outstanding Ph.D. Thesis Award Prix TWM Cameron pour la meilleure thèse de doctorat

Erin Cameron, University of Alberta.

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

Invasions de vers de terre dans la forêt boréale: propagation et les effets d'un ingénieur de l'écosystème exotique.



Wardle Lecture/Conférence Wardle

Mark Forbes, Carleton University.

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

Regardant à travers le miroir et au-delà: Études de parasitisme, l'immunité, et l'écologie des libellules.



CSZ PDF Award / Prix de la SCZ pour chercheur postdoctoral

Paul Craig, University of Ottawa

From plant to animal: Cross-kingdom transfer of microRNAs and their regulatory effect in rainbow trout.

De la plante à l'animal: le transfert des microARN à travers des règnes et leur effet réglementaire chez la truite arc en ciel.



Hoar Award / Prix Hoar

Jennifer Jeffrey, University of Ottawa

Moms matter: Maternal social status affects development of the stress response in zebra fish larvae.

Importance des Mères: niveau social maternelle affecte le développement de

la réponse au stress chez les larves de poisson zèbre.



Helen Battle Award / Prix Helen Battle

Laura Ferguson, Western University

Waging a cold war on pathogens: Immune activity and acclimation at low temperatures.

Une guerre froide sur les agents pathogènes: l'activité immunitaire et acclimatation à des températures basses.



Murray Fallis Award / Prix Murray Fallis

Shawna Semple, University of Waterloo

Discovering functional immune markers in rainbow trout (*Oncorhynchus mykiss*) for resistance and susceptibility against *Flavobacterium psychrophilum*.

Découvrant les marqueurs immunologiques fonctionnels dans la truite arc en ciel (*Oncorhynchus mykiss*) pour la résistance et susceptibilité contre *Flavobacterium psychrophilum*.



Brian K. Hall Award / Prix Brian Hall

Alida Bailleul, Museum of the Rockies

Secondary cartilage and chondroid bone in dinosaur embryos: Insights on the evolution of skeletal tissues.

Cartilage et de l'os secondaire chondroïde dans les embryons de dinosaures: le point sur l'évolution des tissus squelettiques.



Cas Lindsey Prize / Prix Cas Lindsey

Daniel Field, Yale University

Toward consilience in reptile phylogeny: MicroRNAs support an archosaur, not lepidosaur, affinity for turtles.

Vers consiliance dans la phylogénie des reptiles: Les microARN soutiennent une archosaure, pas lepidosaur pour l'affinité des tortues.



George F. Holeton Prize / Prix George F. Holeton

Louise Tunnah, Mount Allison University

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

Effets métaboliques de l'exposition aux nanoparticules dans les meuniers noirs (*Catostomus commersonii*).



Leo Margolis Scholarship / La Bourse Leo Margolis

Alexandra Muhametsafina, Wilfrid Laurier University



Student/PDF Travel Research Grant Subvention de recherche et de voyage pour étudiants/chercheurs post-doctoraux

Nathan Furey, University of British Columbia



Matthew Gilbert, University of Alberta



CPB Travel Research Grant / Subvention de recherche de la section PBC

Danielle Levesque, Brock University



Annual Meeting Travel Grants / Subventions de voyage pour assister à la réunion annuelle

Ten grants of \$500 each were made to finalists for Hoar Award (6), Battle Award (2), and PDF Award (2). Travel grants for students were based on distance travelled: 18 grants of \$175 each were made to students from NS, NB and Thunder Bay; 12 grants of \$250 each were made to students from PEI, NL and MB; 27 grants of \$300 each were made to students from SK, AB and BC; 3 grants of \$200 each to US based students. The total for travel grants awarded was \$19,850.

Dix bourses de 500 \$ chacune ont été faites aux finalistes pour le Prix Hoar (6), Prix Battle (2), et Prix de la SCZ pour chercheur postdoctoral (2). Des bourses de voyage pour les étudiants ont été basés sur la distance parcourue: 18 bourses de 175 \$ chacune ont été effectuées à des étudiants de Nouvelle-Écosse, Nouveau-Brunswick et Thunder Bay; 12 bourses de 250 \$ chacune ont été effectuées à des étudiants de IPE, TN et MB; 27

subventions de 300 \$ chacun ont été faites aux étudiants de SK, AB et CB; 3 bourses de 200 \$ chacune à des étudiants provenant des États-Unis. Le total des subventions de voyage était \$ 19,850.

President's Message / Message du Président 2014-05-12

On behalf of the CSZ Council, I look forward to welcoming you to the upcoming Annual CSZ Meeting! This year will be an exceptional joint meeting with the CSEE and SCL, with attendance nearly double that of a typical CSZ. Thus, the gathering represents an incredible opportunity to 'cross-pollinate' with a wide cross-section of scientists and disciplines (note the deliberate use of a Botanical term to underscore the breadth of the meeting). I encourage you all to take full advantage of this opportunity!

Because of the joint nature of the meeting, many of the traditional activities associated with our CSZ meeting will be 'out of place'. No doubt too, the program committee had their hands full in parsing the poster and oral presentations out into rationally organized sessions. Despite their hard work, there are bound to be conflicts and times where you wish you could clone yourself to be in two places at once. I encourage you all to just take things in stride as part of the price for a meeting with such incredible breadth. You may wish to embrace the challenge by divvying up attendance with your colleagues for various conflicting talks and functions, and then debrief each other over a beverage of choice each evening.

In that spirit, I'd just like to point out a few of the more obvious logistical/program aspects that might be on your minds. Also see the survival guide put together by the student organizers http://genomesbiomes.ca/Home_files/SSG.pdf

The annual **Student/PDF Silent Auction** will not be at the annual banquet, but will take place adjacent to the poster sessions from Monday May 26th to Wednesday May 28th from 4:30pm to 6:00pm each day. Donations of any kind would be greatly appreciated, and can be dropped off at the registration desk or with the CSZ student councilors Angela Shamchuk or Heath MacMillan. Preferably they would like to collect items prior to 3:00pm on the Monday, but as some registrants will be arriving several days into the conference, late items will be accepted and added to the auction as they arrive. People can contact either Angela ashamchu@ualberta.ca or Heath heath.macmillan@biology.au.dk if they have any questions. Please support this great fundraising event and witness the now annual ritual of the passing of the 'kangaroo pouch' to the incoming CSZ President.

NSERC Session vs. CSZ Business Meeting. The student and postdoctoral committee has arranged (I believe for the first time in a long time, maybe ever) a session with NSERC reps specifically focused on Scholarships & Fellowships. This will be in conflict with the CSZ Business Meeting. So, if you want to attend the NSERC Session, and there are particular student/pdf concerns you want to see covered at the Business Meeting, please let your student/pdf councilors know.

Student/PDF Presentation Awards. Normally, these would take place at our Banquet. Because the Banquet venue is far from the meeting site, and the group size is too large, our awards will instead be sprinkled throughout the program. We will likely present some awards that will have been decided by Wednesday afternoon (e.g., Hoar, etc.) just after the Fry Lecture by Glen van der Kraak that day. Others will likely be presented just after the Thursday afternoon Young Investigator session where our Cameron Award winner Erin Cameron will present. Be sure to ask the various Section Chairs and/or judges for the awards when they expect the announcements to be made. Council will do its best to disseminate this information on the fly at the meeting.

I am looking forward to an awesome meeting in a vibrant city!

Pat Walsh, CSZ President

Au nom du Conseil de la Société canadienne de zoologie, il me fait plaisir à vous accueillir à la réunion annuelle de la SCZ. Cette année nous aurions une réunion conjointe exceptionnelle avec la Société canadienne d'écologie et évolution et la Société canadienne de limnologie. L'assistance sera presque le double de celle d'une réunion annuelle typique. Ainsi ce congrès vous donnera une opportunité incroyable à interagir avec une sélection assez large de chercheurs dans diverses disciplines. (note du traducteur : la version anglaise contient des jeu de mots que je n'avais pas la patience à traduire). Je vous encourage fortement à profiter de cette chance unique à élargir vos horizons scientifiques.

Vu la nature conjointe de cette réunion, plusieurs de nos activités SCZ traditionnelles ne se feront pas aux moments habituels. Je suis certain que le comité organisateur avait un défit considérable à organiser les présentations et les affiches dans des regroupements logiques. Malgré leur travail acharné, il y aurait certainement des moments que vous aimeriez être à deux endroits en même temps. Je vous encourage à vous organiser avec vos collègues à diviser les présentations et à vous faire des comptes rendus en fin de journée en prenant le breuvage de votre choix.

Dans cette optique, j'aimerais vous signaler que les organisateurs étudiants ont composé un beau guide de survie pour vous aider avec la logistique du congrès : http://genomesbiomes.ca/Home_files/SSG.pdf

L'encan silencieux étudiant PDF ne se déroulera pas lors du banquet final, mais se fera à côté des sessions d'affiches du lundi 26 mai au mercredi 28 mai de 16 : 30 à 18 : 00 chaque jour. Les dons de tout genre seraient grandement appréciés et peuvent être laissés à l'Inscription ou avec nos conseilleurs étudiants, Angela Shamchuk et Heath MacMillan. Ils aimeraient avoir les items avant 15 : 00 lundi, mais vos dons seraient acceptés plus tard et ajoutés à l'encan, si nécessaire. Vous pouvez contacter Angela ashamchu@ualberta.caou Heath heath.macmillan@biology.au.dk si vous avez des questions. SVP venez assister à cet événement bien agréable et soyez témoin du rituel annuel du passage de la poche kangourou à la prochaine présidente de la SCZ.

Séance CRSNG vs Réunion annuelle des membres SCZ. Le comité étudiant et post-doctorat a organisé une réunion assez unique avec les représentants du CRSNG qui portera spécifiquement sur les bourses. Cette rencontre sera en conflit avec la réunion annuelle des membres SCZ (ou il faut voter sur les modifications de notre constitution). Si vous voulez assister à la séance CRSNG et si vous avez des questions spécifiques que vous voudriez soulever à la réunion annuelle de membres de la SCZ, SVP laissez vos conseillers étudiants et post-doctorat le savoir.

Remise des prix de présentation. Normalement ces prix sont présentés lors du banquet final. Comme le lieu du banquet et loin du site de la réunion et comme la réunion est grande, nos prix seraient donnés à divers moments durant le programme. Nous allons probablement présenter les

prix pour lesquels les décisions auraient été arrêtées mercredi en fin d'après midi, directement après la présentation Fry par Glen van der Kraak. D'autres seraient présentés après la présentation jeune investigateur par notre gagnant du Prix Cameron, Erin Cameron. Pour avoir plus de certitude, demandez aux Présidents de section ou aux juges pour les prix à quel moment ils pensent que les présentations seraient faites. Les conseilleurs feront leur possible pour disséminer cette information au fil de la réunion.

J'ai hâte de vous voir à une excellente réunion dans une ville bien agréable.

Pat Walsh, Président (Traduit par Helga Guderley)

List of CSZ Awards / Liste des prix du SCZ

F. E. J. Fry Medal

The Fry Award and Medal is given to a Canadian Zoologist who has made an outstanding contribution to knowledge and understanding of an area in zoology, and who is expected to deliver a plenary lecture at the next AGM.

Nominations are made to the Chair of the Recognition Committee and must include an up-to-date curriculum vitae, including a list of publications, and a brief statement of the significance of the work for which the candidate is nominated. The nomination package may include a maximum of three letters of support in addition to the nomination letter.

Application deadline - the Chair of the Recognition Committee will set a deadline, normally around the middle of November, which will allow the Committee sufficient time to adjudicate the Award before the December meeting of Council. For further detail: http://www.csz-scz.ca/awards/fry/terms_en.html#top

Médaille F. E. J.Fry

La médaille Fry est décernée à un zoologiste canadien qui s'est distingué par son apport aux connaissances et à la compréhension des phénomènes biologiques d'intérêt pour la zoologie. Le médaillé Fry doit être en mesure de donner une conférence plénière lors de la réunion annuelle où la médaille lui est décernée.

Procédures de demande ou de nomination. Les mises en candidature sont envoyées au président du comité des distinctions honorifiques et doivent être accompagnées d'un curriculum vitae mis à jour (incluant la liste des publications) et d'une courte lettre décrivant la portée du travail accompli par le candidat. Le dossier de nomination peut inclure un maximum de trois lettres de soutien en plus de la lettre de nomination.

Date limite pour poser sa candidature. Le président du comité des distinctions honorifiques décide de la date limite qui se situe normalement à la mi-novembre. La date limite doit pouvoir permettre aux membres du comité de prendre une décision avant la réunion du Conseil de décembre.

Pour plus de détails - http://www.csz-scz.ca/awards/fry/terms fr.html#top



Prix Bob Boutilier pour jeune chercheur

Le prix Bob Boutillier pour jeune chercheur vise à encourager et à reconnaître des membres de la SCZ qui ont contribué de manière significative au domaine de la zoologie au cours des cinq premières années de leur premier emploi académique ou professionnel et qui sont considérés comme des "étoiles montantes" dans leur discipline. Un certificat et un prix en argent ou un remboursement en dépenses de voyages ne dépassant pas \$1000. Le récipiendaire peut être appelé à présenter une conférence plénière lors de la réunion annuelle de l'année de sa nomination.

Procédures de demande ou de nomination. Les mises en nomination devront être déposées auprès du président du comité des distinctions honorifiques. Les personnes mises en nomination doivent être membres en règle au moment de leur nomination. Les mises en nomination peuvent être faites soit par un membre régulier de la SCZ ou par l'un des présidents de l'une des trois sections de la SCZ.

Date limite pour poser sa candidature: 1er octobre.

Pour plus de détails: http://www.csz-scz.ca/awards/boutilier/terms fr.html#top

Bob Boutilier New Investigator Award

The Bob Boutillier New Investigator Award is to encourage and honor CSZ members within five years of receiving their first academic or professional appointment. The individual must have made significant contributions to zoology (defined broadly) and to be considered a "rising star" in their field. A scroll and a cash award or reimbursement of expenses not to exceed \$1000. The individual will be requested to make a Plenary presentation at the AGM the year of their selection.

Application/nomination procedures. Nominations are to be made to the Chair of the Recognition Committee. A nominee must be a CSZ Regular Member in good standing at the time of their nomination.

Application deadline, October 1.

For further detail: http://www.csz-scz.ca/awards/boutilier/terms_en.html#top



Distinguished Service Award

This Award recognizes members of the CSZ who have contributed enormously to the well being of zoology in Canada by working hard for the CSZ, often well beyond the call of duty, but in ways that are not currently recognized by other Society awards such as those for research (e.g. Fry Medal, Wardle Award) or public education. The award is a scroll and an engraved medal, patterned after the Fry Medal, presented at the AGM. The scroll will identify the contributions of the recipient.

Application/nomination procedures. Nominations for the Award may be made to the Chair of the Recognition Committee by any two Society members in good standing. Nominees may not be current members of Council. The nomination should state the rationale for making the nomination.

Application deadline. At least one month before the December meeting of Council. For further detail: http://www.csz-scz.ca/awards/distinguished_service/terms_en.html#top

Médaille de distinction pour services rendus à la SCZ

Au cours des années d'existence de la Société, plusieurs de ses membres ont énormément contribué au devenir de la zoologie au Canada en travaillant très fort au sein de la Société canadienne de zoologie, souvent beaucoup plus que ce que l'on était en droit d'attendre d'eux. La Société reconnaît déjà de diverses façons l'excellence en recherche (e. g. Médaille Fry, le prix Wardle). Le style de la médaille sera similaire à celui de la médaille Fry. Le certificat qui y sera joint identifiera la nature de l'implication du récipiendaire.

Procédures de demande ou de nomination. Les mises en nominations pour la Médaille de distinction pour services rendus à la Société canadienne de zoologie devront être faites par deux membres en règle de la Société. Les candidats pressentis ne devront pas être en poste au sein du Conseil lors de leur mise en nomination. Les mises en nomination devront être accompagnées des justificatifs et devront être envoyées au Secrétaire de la Société

Date limite: au moins un mois avant la réunion de décembre du Conseil.

Pour plus de détails: http://www.csz-scz.ca/awards/distinguished_service/terms_fr.html#top



Le prix T. W. M. Cameron pour une thèse de Ph.D. exceptionnelle

Ce concours annuel a été institué par la Société canadienne de zoologie pour récompenser l'auteur d'une thèse de doctorat en zoologie jugée exceptionnelle et soumise dans une université canadienne. Le gagnant du prix sera invité à donner une conférence sur le sujet de sa thèse lors de la réunion annuelle de la Société. Il recevra alors un parchemin commémoratif.

Procédures de demande ou de nomination: Les mises en candidature sont soumises au président du comité du prix Cameron. Pour être admissible au concours, la thèse doit avoir été acceptée par une université canadienne entre le 1er juillet de l'année précédant la date limite de mise en candidature et le 30 juin de l'année où la candidature est déposée.

Date limite pour poser sa candidature: 15 août.

Pour plus de détails: http://www.csz-scz.ca/awards/cameron/terms fr.html#top

T. W. M. Cameron Outstanding Ph. D. Thesis Award

This is an annual award, established by the Canadian Society of Zoologists to recognize the author of an outstanding Ph. D. Thesis in Zoology submitted to a Canadian University. The recipient of the award will be invited to present a lecture on the subject of the dissertation to the Annual General Meeting. He/she will be presented with a commemorative scroll at the time.

Application/nomination procedures: Nominations are to be made to the Chair of the Cameron Award Committee. For nomination, a thesis must have been accepted at a Canadian University within the period of July 1 of the year preceding the nomination deadline to June 30 of the year of the nomination deadline.

Application deadline: 15 August of each year.

For further detail: http://www.csz-scz.ca/awards/cameron/terms en.html#top



CSZ Public Awareness Award for an article in the popular press

This award is intended to encourage and stimulate increased public awareness of zoology through articles in the popular press that deal with environmental, biological or zoological issues. The article will have been published in any recognized newspaper or periodical available to the public. The award comprises a \$100 cash prize and a scroll. If the recipient is not already a member of the Canadian Society of Zoologists, a 1-year free membership will be awarded by the Society.

Application/nomination procedures: Nominations or applications should be made to the Chair of the Recognition Committee. Nominations may be made by any CSZ member or may be submitted by the author. The application should include a copy of the article and information about the publication in which it appeared. The article should have been published within the 12 months preceding the deadline.

Application deadline: 1 October.

For further detail: http://www.csz-scz.ca/awards/public_awareness/terms_en.html#top

Prix de la presse de la SCZ

Ce prix vise à encourager et à promouvoir l'implication des membres de la SCZ à la sensibilisation du public à des sujets d'intérêt pour la zoologie en écrivant des articles de vulgarisation publiés dans la presse populaire sur des sujets touchant l'environnement, la biologie ou la zoologie. Les articles pourront avoir été publiés dans n'importe quel journal reconnu ou

périodique disponible auprès du grand public. Il s'agit d'un prix en argent de \$100 accompagné d'un certificat. Le prix est également accompagné d'un abonnement d'un an à la Société, si le récipiendaire n'en est pas membre.

Procédures de demande ou de nomination: Les mises en nomination devront être acheminées au président du comité des distinctions honorifiques. Elles peuvent être faites par n'importe quel membre de la SCZ ou par l'auteur. Les demandes devront inclure une copie de l'article et des informations sur le journal ou périodique dans lequel il a été publié. L'article doit avoir été publié dans les douze mois précédant la date limite.

Date limite pour poser sa candidature: 1er octobre

Pour plus de détails: http://www.csz-scz.ca/awards/public awareness/terms fr.html#top



Prix de vulgarisation scientifique

Ce prix vise à reconnaître l'excellence en vulgarisation scientifique dans le domaine de la zoologie. Le prix est d'une valeur en argent de \$300 et est accompagné d'un certificat. Un abonnement d'un an à la Société sera également accordé, si le récipiendaire n'en est pas déjà membre.

Procédures de demande ou de nomination: Les nominations doivent être envoyées au président du Comité des distinctions honorifiques. Les nominations peuvent être faites par toute personne membre de la SCZ et doivent inclure une justification pour une telle mise en nomination.

Date limite pour poser sa candidature: 1er octobre

Pour plus de détails: http://www.csz-scz.ca/awards/public_education/terms_fr.html#top

Public Education Award

This award is intended to recognize excellence in public education about zoology. The award comprises a \$300 cash prize and a scroll. If the recipient is not already a member of the Canadian Society of Zoologists, a 1-year free membership will be awarded by the Society.

Application/nomination procedures: Nominations are to be sent to the Chair of the Recognition Committee. Nominations may be made by any CSZ member and should include the rationale for such nomination.

Application deadline: 1 October.

For further detail: http://www.csz-scz.ca/awards/public education/terms en.html#top



Leo Margolis Scholarship

This scholarship has been established as a memorial to Dr. Leo Margolis, an internationally preeminent parasitologist and a staunch supporter of the Canadian Society of Zoologists since its inception in 1961. The competition for the scholarship is open to any Canadian who is registered in a graduate studies program at a Canadian university at the time the scholarship is taken up and whose research is in the field of fisheries biology.

Application/nomination procedures: Applications should be sent to the Chair of the Recognition Committee. Applications should comprise a letter of application, a curriculum vitae, up-to-date copies of University transcripts and a one page research summary (describing either the research that has been done or, for new graduate students, the proposed research plan).

Application deadline: 1 November.

For further detail: http://www.csz-scz.ca/awards/margolis/terms en.html#top

La bourse Leo Margolis

Cette bourse a été instituée à la mémoire du Dr Leo Margolis, un parasitologiste reconnu internationalement et grand partisan de la Société canadienne de zoologie depuis sa fondation en 1961. Le concours pour cette bourse est ouvert à tous les canadiens inscrits dans un programme de cycle supérieur dans une université canadienne au moment où la bourse entre en vigueur et dont le sujet de recherche s'inscrit dans le domaine de la biologie des pêches.

Procédures de demande ou de nomination: Les demandes doivent être acheminées au président du comité des distinctions honorifiques. Les demandes doivent inclure une lettre de demande de participation au concours, un curriculum vitae, un relevé de notes universitaires à jour et un résumé de recherche d'une page décrivant la recherche qui est poursuivie ou pour un nouvel étudiant au cycle supérieur, le plan de recherche proposé.

Date limite pour poser sa candidature: 1er novembre.

Pour plus de détails: http://www.csz-scz.ca/awards/margolis/terms_fr.html#top



Prix Robert Arnold Wardle

Le prix Robert Arnold Wardle est décerné par la Section de Parasitologie et souligne une contribution remarquable dans le domaine de la parasitologie au Canada ou une contribution remarquable d'un canadien au domaine de la parasitologie. Le laureate recevra un certificat et une médaille et doit présenter une conference plénière, normalement donnée à la Conférence annuelle de la SCZ ou autre réunion sanctionnée par l'article PIE.

Procédures de demande ou de nomination: Un comité de la Section PIE sollicitera des nominations parmi les membres de la Section. Il acceptera et évaluera d'autres mises en candidature

Date limite pour poser sa candidature: 1 Octobre

Pour plus de détails: http://www.csz-scz.ca/awards/wardle/description.html#top

Robert Arnold Wardle Award

The Wardle Award normally will be awarded annually for outstanding contributions to Canadian-based research on the fields of study promoted by the PIE Section. The Awardee will receive a scroll and medal (the "Wardle Medal"). The Awardee shall present a lecture (the "Robert Arnold Wardle Invitational Lecture") that normally will be given at the Annual Conference of the CSZ or other such meeting sanctioned by the PIE Section.

Nomination procedure: The Committee of the PIE Section shall seek nominations from the membership of the PIE Section but shall accept and consider all duly made nominations.

Nomination Deadline: October 1

For further detail: http://www.csz-scz.ca/awards/wardle/terms en.html#top



Appendices / annexes

May/mai 2014 financial statements / états financiers

CANADIAN SOCIETY OF ZOOLOGISTS AUDITED FINANCIAL STATEMENT

Fiscal Year January 1, 2013 to December 31, 2013

INITIAL CAPITAL Cash	\$74528
TOTAL INITIAL CAPITAL	\$74528

FLOW-THROUGH FUNDS	
INITIAL BALANCE	\$0
Contributions to ZET	830
- transfers to ZET	-830
INCOME – EXPENSES	-0
A FINAL BALANCE	\$0

CSZ		EXPENSES		EXPENSES (Cont'd)	
INITIAL BALANCE	\$36410	Bulletin	\$0	Section allotments	\$3495
INCOME		Web site	357	Bank charges	6130
Memberships	17750	Translations	0	GST remitted	11000
GST Collected	14371	Executive expenses	280	Annual conferences	1658
Credit card charges collected	3976	Archives	0	Auction	2542
Annual conferences	0	Travel Travel	5100	Miscellaneous	0
Auction	2575	Council meetings	2045	TOTAL EXPENSES	41984
EPCOR Award	5000	Advocacy	1500	INCOME-EXPENSES	4447
Section cap excesses	0	Insurance	1377	B FINAL BALANCE	\$40857
Miscellaneous	2759	Committees	0		
TOTAL INCOME	46431	Awards	6500		

SECTIONS			•		·
	CMD	CPB	EEE	PIE	Students
INITIAL BALANCE	\$696	\$3905	\$3452	\$2393	\$3674
INCOME	538	1537	840	581	2542
EXPENSES	30	1416	530	1306	1774
INCOME-EXPENSES	508	120	310	-726	767
C FINAL BALANCE	\$1204	\$4026	\$3762	\$1668	\$4441
ANNUAL CONFERENCES (Cumulative	for all ye	ears of the c	onference)		
		2012	2013	2014	
INCOME		\$106845	\$136485	\$5653	
EXPENSES		106845	94530	7500	
D BALANCE (INCOME-EXPENSES)		\$0	\$41955	\$-1847	
•					

FINAL CAPITAL (A+B+C+D)	\$96066
Disposition at December 31	
BMO Chequi	ng 96066
DIFFERENCE FROM FINAL CAPITA	AL 0
Flow-through owing	0
NET BALANCE	96066

SUBMITTED:

Allen W. Shostak, Treasurer

ZOOLOGICAL EDUCATION TRUST AUDITED FINANCIAL STATEMENT Fiscal Year January 1, 2013 to December 31, 2013

INITIAL CAPITAL	•	EXPENSES, Cont'd	
GIC	\$89700	Fry Award	\$2491
Cash	15458	Cameron Award	1236
A TOTAL INITIAL CAPITAL	\$105158	Student Research Grant	500
		Margolis Award	500
INCOME		Hoar Award	500
Receipted contributions	830	Fallis Award	300
Non-receipted contributions	0	Hall Award	400
Total Interest	4418	Holeton Award	400
TOTAL INCOME	5248	Lindsey Award	300
		ZET Workshop at CSZ'13	867
EXPENSES		TOTAL EXPENSES	8334
Battle Award	500	B INCOME-EXPENSES	\$-3086
Regional Conference Support	249		
Bank Charges	90		

FINAL CAPITAL (A+B)	\$102072
Disposition at December 31	
2014/05/26 GIC19 1-1.5-2-3.25-6.5	15000
2014/07/05 GIC23 1.3-1.75-3.75	5000
2015/11/17 GIC21 1.25-1.5-2.1-3-4	15000
2015/11/17 GIC 22 1.1-1.5-2.5-3-5 Hall ¹	9700
2016/07/05 GIC24 1.5-1.75-2-3-3.75	20000
2016/11/12 GIC25 1.55-2-2.15	10000
2018/11/12 GIC26 1-1.3-2-2.45-4.75	15000
BMO Chequing	12372
TOTAL	102072
DIFFERENCE FROM FINAL CAPITAL	0

ZET ACCOUNTS	At January 1	Contributions	Direct interest	Shared interest	Bank charges	Direct expenses	At December 31
Regular accounts						expenses	
General	\$76566	\$480	\$0	\$3189	\$90	\$6844	\$73301
Fallis Award	8022	40	0	419	0	300	8180
Hall Award	2595	150	242	135	0	400	2723
Holeton Award	6701	100	0	350	0	400	6751
Lindsey Award	1574	60	0	82	0	300	1416
TOTAL	\$95458	\$830	\$242	\$4175	\$90	\$8244	\$92372
10-Year gifts							
Hall Award, Sept 22,2005	\$9700	\$0	\$0	\$0	\$0	\$0	\$9700
TOTAL	\$105158	\$830	\$242	\$4175	\$90	\$8244	\$102072

SUBMITTED:

Allen W. Shostak, Treasurer

CSZ and ZET Budgets

CSZ at 15 May, 2014	Budget 2014	Budget 2015	Notes	ZET at 15 May, 2014	Budget 2014	Budget 2015
INITIAL BALANCE as of 1/1/2014	\$40,857	\$36,357		INITIAL BALANCE as of 1/1/2014	\$102,072	\$98,680
INCOME				INCOME		
Memberships	\$19,700	\$19,700	est. 285*\$20+175*80	Receipted Regular Contributions	\$2,000	\$2,000
GST Collected	\$0	\$5,000	2014 conference income handled external to CSZ	Interest	\$2,608	\$2,360
Credit card charges collected	\$0	\$3,500		Miscellaneous	\$2,000	\$2,500
Auction	\$2,000	\$2,000	Proceeds initially go to CSZ	TOTAL INCOME	\$4.608	\$4,360
EPCOR Award	\$5,000	\$5,000		EXPENSES	\$4,000	\$4,500
TOTAL INCOME	\$26,700	\$35,200		ZET General Account		
EXPENSES				Battle Award	\$500	\$500
Bulletin	\$500	\$500		ZET Workshop	\$1.000	\$1,000
Web Site	\$400	\$400	Renew domain name, web site hosting	Regional Conference Support		
Translations	\$500	\$500		<u>Program</u>	\$500	\$500
Executive Expenses	\$500	\$500	Postage, stationery etc.	Issue-driven Article Award	\$0	\$100
Archives	\$1,000	\$1,000		Public Education Award	\$0	\$300
Travel	\$7,000	\$7,000	2012 add PDF councilor \$1000	Bank Charges	\$100	\$100
Council Meetings	\$1,000	\$1,000		Miscellaneous	\$0	\$0
Advocacy	\$1,500	\$1,500	PAGSE	Separate Award Accounts		
Insurance	\$1,400	\$1,400		Fry Award	\$1,500	\$1,500
Committees	\$400	\$200	\$400 to ITZN in '14, then \$200	Cameron Award	\$1,500	\$1,500
Awards	\$6,500	\$7,000	\$5000 EPCOR + \$1000 Boutilier + 2x\$500 Elsevier + \$500 PDF	Student Travel Research Grant	\$500	\$500
Section Allotments	\$3,800	\$3,800	\$300/section+\$5/member	Margolis Award	\$500	\$500
Bank Charges	\$2,500	\$6,000	Includes conference CC charges	Hoar Award	\$500	\$500
GST Remitted	\$0	\$5,000	To be remitted in installments, some credits claimable	Fallis Award	\$300	\$300
Annual Conferences	\$2,000	\$2,000	Registration for CSZ award winners, honorary members	Hall Award	\$400	\$400
Auction	\$2,000	\$2,000	Proceeds to students net of credit card fees	Holeton Award	\$400	\$400
Miscellaneous	\$200	\$200		Lindsey Award	\$300	\$300
TOTAL EXPENSES	\$31,200	\$40,000		TOTAL EXPENSES	\$8,000	\$8,400
INCOME-EXPENSES	(\$4,500)	(\$4,800)		INCOME - EXPENSES	(\$3,392)	(\$4,040)
FINAL BALANCE	\$36,357	\$31,557		FINAL BALANCE	\$98,680	\$94,640

Section and student fund 2013 final and 2014 to date	(May	v 15)	
Section and Stadent rand 2015 inial and 2014 to date	finia	,,	

2013	CPB		2013	CMD	
2015	INITIAL BALANCE as of January 1, 2013	\$3,905	2022	INITIAL BALANCE as of January 1, 2013	\$696
	INCOME	*-,		INCOME	
	Section Allotment Oct 1	\$1,537		Section Allotment Oct 1	\$538
	TOTAL INCOME	\$1.537		TOTAL INCOME	\$538
	EXPENSES			EXPENSES	
	Symposium overexpenditure			Symposium overexpenditure	(\$30)
	Annual ICCPB Donation (\$500)- pending			Cap overage returned to CSZ	\$0
	CPB Stu Travel ISEPEP5			TOTAL EXPENSES	(\$30)
7/9/2013	c1484 Jantina Toxopeus	(\$150)		INCOME - EXPENSES	\$508
7/9/2013	c1485 Qian Long	(\$75)		Total of CMD Section	\$1,204
7/9/2013	c1486 Evan Pacey	(\$75)		SECTION CAP	
7/9/2013	c1487 Katie Marshall	(\$75)		Current cap	None
11/1/2013	US\$500 MO- American Physiological Society	(\$541)		Cap effective Dec 31, 2013	\$2,505
	sponsorship			Exempt, estimated- to be added in October 2013	\$538
	Cap overage returned to CSZ	\$0		Cap including exemption (estimated)	\$3,043
	CSZ-CPB Student/PDF Travel Research Grant (\$500)-			Current excess amount (negative values mean section	(\$1,839)
	(\$300)- c1462 Andrew Turko	(\$500)		is within cap)	
	TOTAL EXPENSES	(\$1,416)	2014 to date	CMD	
	INCOME - EXPENSES	\$120	2014 10 date	INITIAL BALANCE as of January 1, 2014	\$1,204
	Total of CPB Section	\$4.026		INCOME	41,20
	SECTION CAP	*.,		Section Allotment Oct 1	\$0
	Current cap	None		TOTAL INCOME	\$0
	Cap effective Dec 31, 2013	\$5,368		EXPENSES	•
	Everupt, estimated- to be added in October 2013	\$1,537		Symposium overexpenditure	
	Cap including exemption (estimated)	\$6,905		Cap overage returned to CSZ	\$0
	Current excess amount (negative values mean section	(\$2,879)		TOTAL EXPENSES	\$0
	is within cap)			INCOME - EXPENSES	\$0
2014. 1.	cm.			Total of CMD Section	\$1,204
2014 to date	CPB	*****			
	INITIAL BALANCE as of January 1, 2014 INCOME	\$4,026			
	Section Allotment Oct 1	\$0			
	TOTAL INCOME EXPENSES	\$0			
	Symposium overexpenditure				
	Annual ICCPB Donation (\$500)- pending				
	Cap overage returned to CSZ	\$0			
	CSZ-CPB Student/PDF Travel Research Grant				
	(\$500)-				
	TOTAL EXPENSES	\$0			
	INCOME - EXPENSES	\$0			
	Total of CPB Section	\$4,026			

2013	EEE		2013	PIE	
	INITIAL BALANCE as of January 1, 2013	\$3,452		INITIAL BALANCE as of January 1, 2013	\$2,393
	INCOME			INCOME	
	Section Allotment Oct 1	\$840		Section Allotment Oct 1	\$581
	TOTAL INCOME	\$840		TOTAL INCOME	\$581
	EXPENSES			EXPENSES	
	Symposium overexpenditure	(\$450)		Symposium overexpenditure	(\$30)
	Cap overage returned to CSZ	\$0		Cap overage returned to CSZ	\$0
11/15/2013	Membership for M Festa-Biancet per Ora	(\$80)	10/22/2012	c1440 A Frenette Donation to ACAP meeting	(\$250)
	Johannsson request		4/23/2013	c1447 McCallum Printing	(\$409)
	TOTAL EXPENSES	(\$530)	5/6/2013	c1450 A Shostak- Wardle engraving 2012, 2013	(\$21)
	INCOME - EXPENSES	\$310	5/16/2013	c1453 D McKay- Wardle expense	(\$250)
	Total of EEE Section	\$3,762		reimbursement	(*****)
	SECTION CAP		9/12/2013	c1491 S Adamo in part CMD/PIE joint stu symp	(\$346)
	Current cap	None		TOTAL EXPENSES	(\$1,306)
	Cap effective Dec 31, 2013	\$3,322		INCOME - EXPENSES	(\$726)
	Exempt, estimated- to be added in October 2013	\$840		Total of Parasitology Section	\$1,668
	Cap including exemption (estimated)	\$4,162		SECTION CAP	,
	Current excess amount (negative values mean section	(\$400)		Current cap	None
	is within cap)	(*****)		Cap effective Dec 31, 2013	\$2,305
				Exempt, estimated- to be added in October 2013	\$581
				Cap including exemption (estimated)	\$2,886
2014 to date	EEE			Current excess amount (negative values mean section	(\$1,218)
	INITIAL BALANCE as of January 1, 2014	\$3,762		is within cap)	(\$1,210)
	INCOME			2 11222 (17)	
	Section Allotment Oct 1	\$0	2014 to date	PIE	
	TOTAL INCOME	\$0		INITIAL BALANCE as of January 1, 2014	\$1.668
	EXPENSES	**		INCOME	*-,
	Symposium overexpenditure			Section Allotment Oct 1	\$0
	Cap overage returned to CSZ	\$0		TOTAL INCOME	\$0
	TOTAL EXPENSES	\$0		EXPENSES	30
	INCOME - EXPENSES	\$0		Symposium overexpenditure	
	Total of EEE Section				•0
	Total of EEE Section	\$3,762	5/14/2014	Cap overage returned to CSZ	\$0 (\$21)
			3/14/2014	c1506 Elite Sportswear: Wardle engraving	4
				TOTAL EXPENSES	(\$21)
				INCOME - EXPENSES	(\$21)
				Total of PIE Section	\$1,647
					4
					4
2013	STUDENTS				4
2013		\$3,674			4
2013	STUDENTS INITIAL BALANCE as of January 1, 2013 INCOME	\$3,674			4
2013	INITIAL BALANCE as of January 1, 2013	\$3,674 \$2,542			4
2013	INITIAL BALANCE as of January 1, 2013 INCOME				4
2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards	\$2,542			4
2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME	\$2,542			4
2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES	\$2,542 \$2,542 \$0			4
2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ	\$2,542 \$2,542 \$0 (\$88)			4
	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC	\$2,542 \$2,542 \$0 (\$88) (\$222)			4
6/10/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607)			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636	\$2,542 \$2,542 \$0 (\$88) (\$222)			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858)			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774)			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES Total of Student account SECTION CAP	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767 \$4,441			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullifrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES TOTAL of Student account SECTION CAP Current cap	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES Total of Student account SECTION CAP Current cap Cap effective Dec 31, 2013	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767 \$4,441 None \$1,500			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES Total of Student account SECTION CAP Current cap Cap effective Dec 31, 2013 Exempt from current year auction	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767 \$4,441 None			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES Total of Student account SECTION CAP Current cap Cap effective Dec 31, 2013 Exempt from current year auction Cap including exemption	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767 \$4,441 None \$1,500 \$2,542 \$4,042			4
6/10/2013 6/21/2013	INITIAL BALANCE as of January 1, 2013 INCOME Auction proceeds (100% of total) 2011 onwards TOTAL INCOME EXPENSES Cap overage returned to CSZ Return auction float to LOC c1470 in part; P Craig for PDF lunch c1478 Bullfrog Power Invoice INM0011636 Glass dishes, bus TOTAL EXPENSES INCOME - EXPENSES Total of Student account SECTION CAP Current cap Cap effective Dec 31, 2013 Exempt from current year auction	\$2,542 \$2,542 \$0 (\$88) (\$222) (\$607) (\$858) (\$1,774) \$767 \$4,441 None \$1,500 \$2,542			4
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Genomes to/aux Biomes 2014	Program/Programme









GENOMES TO/AUX BIOMES 2014

Official Program | Programme officiel

GENOMES TO/AUX BIOMES MONTREAL 2014 PROGRAM AT A GLANCE / APERÇU DU PROGRAMME

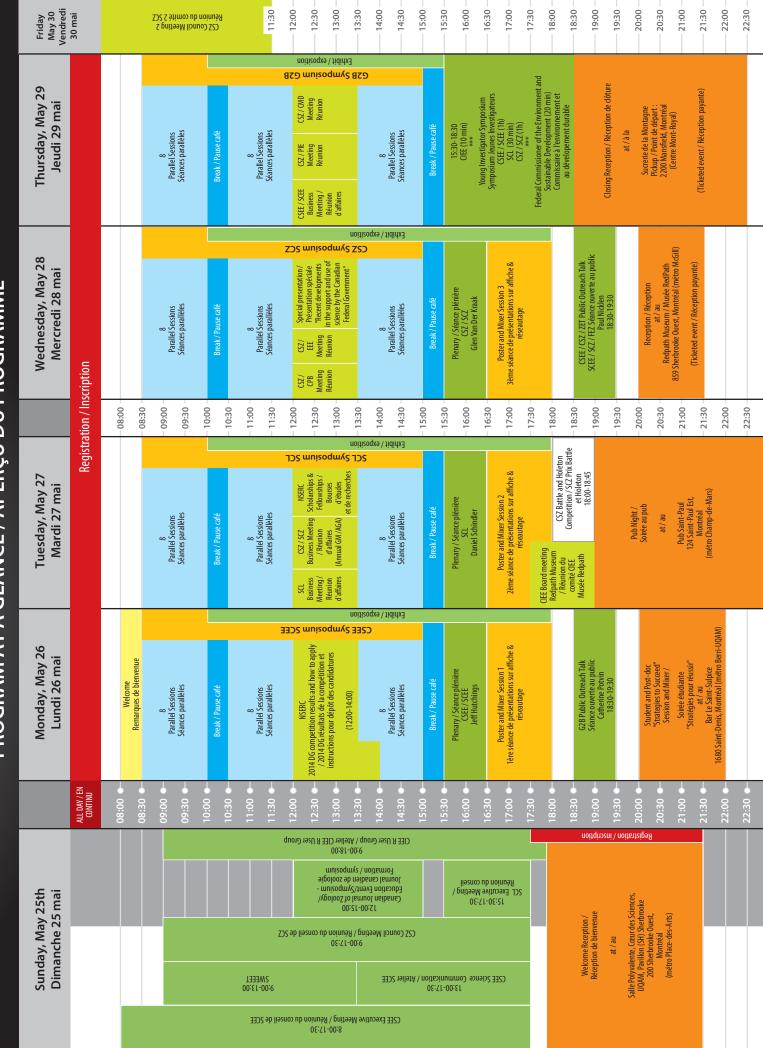




TABLE OF CONTENTS

TABLE DES MATIÈRES

Conference Informationp. 3-6	Informations sur la conférencep. 3-6
Social Activitiesp. 7-8	Activités sociales p. 7-8
Special Eventsp. 9-12	Événements spéciauxp. 9-12
Conference Program	Programme de la conférence
Monday, May 26 p. 20-29	Lundi 26 maip. 20-29
Tuesday, May 27 p. 30-39	Mardi 27 mai p. 30-39
Wednesday, May 28p. 40-49	Mercredi 28 maip. 40-49
Thursday, May 29p. 50-61	Jeudi 29 maip. 50-61
Poster Session 1 (Monday)p. 63-65	Séance de présentation sur affiche 1 (lundi)p. 63-65
Poster Session 2 (Tuesday)p. 65-66	Séance de présentation sur affiche 2 (mardi) p. 65-66
Poster Session 3 (Wednesday)p. 67-68	Séance de présentation sur affiche 3 (mercredi) p. 67-68
Presenting Author Indexp. 69-71	Index des présentateursp. 69-71
Exhibitorsp. 72-73	Exposantsp. 72-73

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Dylan Fraser, Concordia University Patrick James, Université de Montréal Caroline LeBlond, McGill University



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/

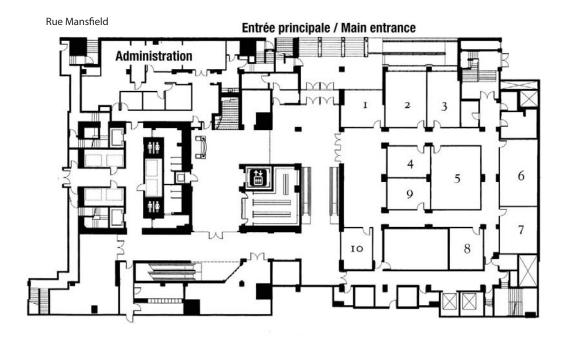
CENTRE MONT-ROYAL

Lieu principal de la conférence :

Centre Mont-Royal 2200, rue Mansfield, Montréal H3A 3R8 (également accessible via la rue Sherbrooke) http://www.centremontroyal.com/

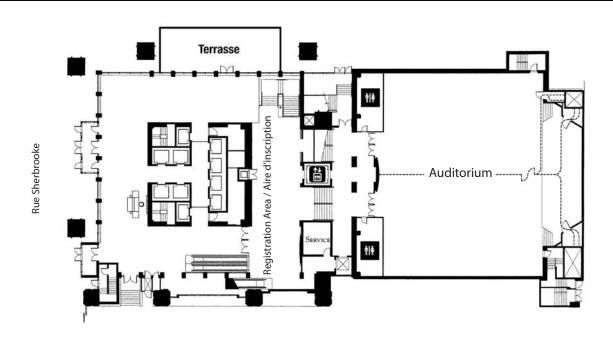
GROUND FLOOR (MANSFIELD ROOMS)

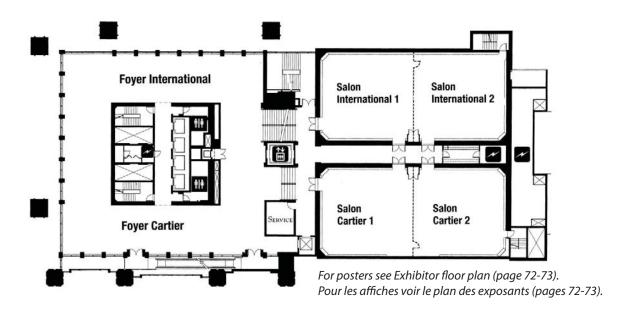
REZ-DE-CHAUSSÉE (SALLES MANSFIELD)



1ST FLOOR (AUDITORIUM)

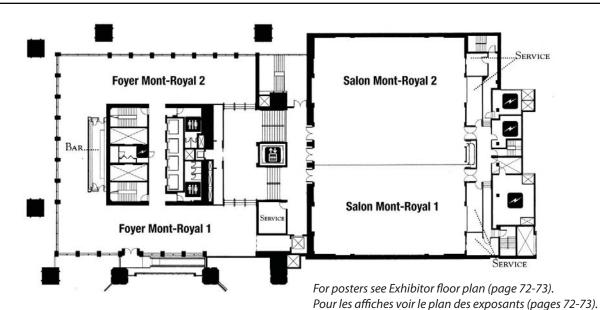
1ER ÉTAGE (AUDITORIUM)





4TH FLOOR (MONT-ROYAL ROOMS)

4E ÉTAGE (SALLES MONT-ROYAL)



OTHER VENUES

Welcome ReceptionCoeur des Sciences, UQAMStudent MixerBar Le Saint-SulpicePub NightPub St-PaulRedpath ReceptionRedpath MuseumClosing ReceptionLa Sucrerie de la Montagne

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

AUTRES SITES

Réception de bienvenueCoeur des Sciences, UQAMSoirée étudianteBar Le Saint-SulpiceSoirée au PubPub St-PaulRéception RedpathMusée RedpathRéception de clôtureLa Sucrerie 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. Veillez 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 -

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	5
sur affiche:	_7:00-8:00 (lun), 7:30-8:30 (mar-mer)
Démontage journalier des	
présentations sur affiche :	18:00 – 20:00

SOCIAL ACTIVITIES ACTIVITÉS SOCIALES



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 27Time:From 19:00Location: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

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 28Time:19:45 - 22:45Location: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: Sucrerie de la Montagne

300 Chemin Saint-Georges

Rigaud JOP 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 : Sucrerie de la Montagne

300 Chemin Saint-Georges

Rigaud JOP 1P0

Prix: COMPLET

Note: Depart des autobus prévu à 18h30 au débarcadaire

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.





SPECIAL EVENTS **ÉVÉNEMENTS SPÉCIAUX**

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

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

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

Symposium SCEE

8:30 - 15:00 | Auditorium

■ Biodiversity change across spatial scales during the Anthropocene

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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 Kleynhans

INV-08 Elizabeth J. Kleynhans, 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

■ Effects of community diversity and composition on evolutionary change

Animé par Elizabeth Kleynhans

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

INV-09 Mark C. Urban, University of Connecticut

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

■ From tangled banks to tangled priorities: Ecology, evolution,

INV-11 Sinead Collins, University of Edinburgh

INV-13 Jeffrey Hutchings, Dalhousie University

INV-12 Andrew Gonzalez, McGill University

CSEE Plenary

15:30 - 16:30 | Auditorium

18:30 - 19:30 | Auditorium

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

G2B Public Outreach Lecture

Séance plénière de SCEE

and the communication of science

15:30 - 16:30 | Auditorium

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

■ Halting deforestation: One piece of the climate mitigation puzzle

INV-14 Catherine Potvin, McGill University

@Dialogsustainab

TUESDAY, MAY 27



MARDI 27 MAI



SCL Symposium

8:30 - 15:00 | Auditorium

Symposium SCL

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

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

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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

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

■ 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 Holeton Poster Competition

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

■ Concours d'affiches SCZ Battle et Holeton

WEDNESDAY, MAY 28



MERCREDI 28 MAI



CSZ Symposium

8:30 - 15:00 | Auditorium

Symposium SCZ

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

■ 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

Special presentation

12:00 - 13:30 | Auditorium

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

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

Scott Findlay, University of Ottawa

SPECIAL EVENTS - ÉVÉNEMENTS SPÉCIAUX **CSZ Wardle Lecture** 13:30 - 14:30 | Mont-Royal 2 (MR2) Conférence Wardle de SCZ 13:30 – 14:30 | Mont-Royal 2 (MR2) ■ Through the looking glass and beyond: Studies of parasitism, ■ Through the looking glass and beyond: Studies of parasitism, immunity, and ecology of dragonflies immunity, and ecology of dragonflies MR2-48 Mark Forbes, Carleton University MR2-48 Mark Forbes, Carleton University **CSZ Plenary** 15:30 - 16:30 | Auditorium Séance plénière de SCZ 15:30 - 16:30 | Auditorium ■ The sex lives of fish: Science, policy and beyond ■ The sex lives of fish: Science, policy and beyond INV-28 Glen Van Der Kraak, University of Guelph INV-28 Glen Van Der Kraak, University of Guelph CSEE / CSZ / ZET Séance ouverte au public **Public Outreach Lecture** 18:30 - 19:30 | Auditorium SCEE / SCZ / FEZ 18:30 - 19:30 | Auditorium ■ Polar Obsession ■ Polar Obsession INV-29 Paul Nicklen, National Geographic Society @PaulNicklen INV-29 Paul Nicklen, National Geographic Society @PaulNicklen Sponsored by: Commanditée par :





















THURSDAY, MAY 29



JEUDI 29 MAI

Symposium G2B



G2B Symposium	8:30 – 15:00	Auditoriu
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- 15:00 | Auditorium

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

■ 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

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

SOCIETY GENERAL BUSINESS MEETINGS

All Society members welcome and encouraged to attend.

SCL Business Meeting	Tuesday, May 27
	12:00 – 13:30 Cartier 1
CSZ Business Meeting	Tuesday, May 27
	12:00 – 13:30 Mont-Royal 1
CSZ/CPB Meeting	Wednesday, May 28
	12:00 – 13:30 Mont-Royal 1
CSZ/EEE Meeting	Wednesday, May 28
•	12:00 – 13:30 Mansfield 5
CSEE Business Meeting	Thursday, May 29
•	12:00 – 13:30 Cartier 1
CSZ/PIE Meeting	Thursday, May 29
, and the second	12:00 – 13:30 International 1
CSZ/CMD Meeting	Thursday, May 29
J	12:00 – 13:30 International 2

COUNCIL MEETING

CIEE Board Meeting	Tuesday, May 27 17:30 – 19:30 Redpath Museum
CSZ 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 5
NSERC / Scholarships & Fellowships	Tuesday, May 27 12:00 – 13:30 International 1

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 1
Réunion générale SCZ	 Mardi 27 mai 12:00 – 13:30 Mont-Royal 1
Réunion SCZ/CPB	Mercredi 28 mai 12:00 – 13:30 Mont-Royal 1
Réunion SCZ/EEE	Mercredi 28 mai 12:00 – 13:30 Mansfield 5
Réunion d'Affaires SCEE	Jeudi 29 mai 12:00 – 13:30 Cartier 1
Réunion SCZ/PIE	Jeudi 29 mai 12:00 – 13:30 International 1
Réunion 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 Redpath
2ème 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 5
NSERC / Bourses d'études et de recherch	nes Mardi 27 mai
12	::00 – 13:30 International 1



Keyword Ellipses

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.

Interface flux SCL	
Trophic dynamics Biogeochemistry	
Food webs Watersheds Remediation	
Community ocalogy Agustian calogy	
Biodiversity Ecosystems Freshwater ecology Macroecology Resilience Aduatic ecology Competition Contaminants Microecology Resilience Aduatic ecology Freshwater ecology	
Macroecology Ecosystems Freshwater ecology	
Macroecology Ecological modelling, Nitrogen Metacommunity Competition redator—prey dynamics Toxicology Toxicology	
lerrestrial ecology Functional ecology hate change Environmental stressors	
Invasive species Land use change Marine ecology Ammonia	
Ecosystem services species interactions and co-evolution Physiology Transport	
Fisheries Homeostas Plant ecology Population ecology Metabolism Endocrinology Paracitics (Armhiosis Comparative physiology)	SIS
Parasitism / symbiosis / Comparative physiology	
Conservation Disease Immunology Molecular physiological	av/
Landscape ecology Science education	יונפ
Habitat selection Insect biology biomics Developmen	ıţ/
Entomology Adaptation Phenotypic plasticity	/
Contemporary evolution Evolutionary ecology Animal ecology Neurobiology	
Fthology Morphology / higher hangs	
Phylogeography Genomics Life history Behaviour Population genetics Reproduction Energy transfers Speciation Approduction Morphology / biomechange	
Quantitative genetics Evolutionary theory Sexual selection and mating systems Evo—devo	
Sexual selection and mating systems Phylogenetics Social learning Evo-devo	
Bioinformatics Molecular evolution Paleontology	,
Evolutionary genetics Macroevolution CSZ	_
Systematics	
CSEE	

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

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 disequlibrium: 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 Airoldi	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, Pseudomonas aeruginosa 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 (Dendroctonus valens) 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. Moscicki	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 Mariem Fadhlaoui, Patrice Couture
IN2-04 Genetic interactions between beneficial mutations in Saccharomyces cerevisiae 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 (Strongylocentrotus droebachiensis) 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	09:20 - 09:40 INV-04 Human footprint, climate change, and rapid pollinator population losses in North America and Europe Jeremy T. Kerr, Diane Debinski, Alana Taylor-Pindar, Paul Galpern 09:40 - 10:00 INV-05 Experimental community rescue in a	MR1-05 Evidence that invasive earthworms play major role in forest seedbank dynamics Colin M. Cassin , Peter M. Kotanen	MR2-05 Experimental climate change alters Collembolan community composition and body size distributions Matthew S. Turnbull, Zoë Lindo	IN1-05 Assortative mating and divergence in a fish characterized by a trophic polymorphism Scott Colborne, Shawn Garner, Fred Longstaffe, Bryan Neff	
9:45	microbial microcosm Graham Bell , Andrew Gonzalez, Etienne Low-Decarie, Andrea Lofano		MR2-06 10 years after: Climate and landuse change affect Odonata community composition Aaron Hall, Dan Bert, Lenore Fahrig, Marie-Josée Fortin	IN1-06 Characterization of a gene influencing behavioural isolation between species Ryan Calhoun, Stephen Chen, Tara Edwards, Meghan Laturney, Amanda Moehring	
10:00		BRI	EAK		
	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 Moderator/Modérateur	Invasions II / Envahissement II	Niches	Pollination and Reproduction / Pollinisation et reproduction	
	Isla H. Myers-Smith	Moderator/Modérateur Ladd Johnson	Moderator/Modérateur Azim Mallik	Moderator/Modérateur Marc Johnson	
10:30	10:30 - 10:50 INV-06 Diversity in coastal marine communities: Species richness, diversity and human activities Mary I. O'Connor, Jarrett Byrnes, Robin Elahi	MR1-06 Origin matters: Non-native species are more disruptive than natives Anthony Ricciardi	MR2-07 The ecological niche: A history of simultaneous diversity and unity in research Michael Pedruski, Gregor Fussmann, Andrew Gonzalez	IN1-07 Below the surface: Do mycorrhizal associations influence pollination in low bush blueberry? Irene McKechnie, Risa Sargent	
10:45		MR1-07 The consequences of	MR2-08 Discovering the climatic	IN 1-08 Density-dependent	
	10:50 - 11:10 INV-07 Diversity trends - scale and structure matter	nonnative omnivory Monica Granados , Gregor F. Fussmann	niche: A combined spatial and temporal approach Christopher Searcy, H. Bradley Shaffer	reproduction of forest herbs in logged landscapes – local vs. landscape effects on seed size Sarah Johnson, Ralph Cartar	

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 ingastropods: 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, Salvelinus Namaycush, 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 inbody size in Daphnia pulex: The role of the insulin pathway France Dufresne	MF2-07 Orienteering slugs: A potential role for magnetoreception in primarily odourbased 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	10:50 - 11:10 INV-07 Diversity trends - scale and structure matter Brian McGill, Maria Dornelas, Anne Magurran, Nicholas Gotelli, Hideyasu Shimadzu, Faye Moyes CSEE Symposium: Effects of community diversity and composition on evolutionary change / Symposium SCEE : Effets de la diversité et de la composition de la communauté sur les changements évolutifs	MR1-08 Early recruitment patterns reveal "hotspots" and "notspots" for the early detection of an invasive marine invertebrate Samuel B. Collin, Paul Edwards, Brian Leung, Ladd Johnson	MR2-09 Testing speciation by niche shifts using phylogenies Simon Joly , Peter B. Heenan, Peter J. Lockhart	IN1-09 Behavioural flexibility trumps the Marginal Value Theorem: A quantitative test using bumblebees and artificial flowers Paul Simpson, Lawrence Harder	
11:15	Moderator/Modérateur Elizabeth Kleynhans 11:10 - 11:30 INV-08 Community context and adaptation in a long-term field experiment Elizabeth J. Kleynhans, Sarah P. Otto, Peter B. Reich, Mark Vellend	MR1-09 Variation in cold tolerance among populations of the Asian clam <i>Corbicula fluminea</i> Emilija Cvetanovska , Anthony Ricciardi	MR2-10 Functional niche differentiation in co-occurring congeneric plants Saiful I. Khan, Azim U. Mallik ,	IN1-10 Do pollinators play a role in the evolution of plant defence against herbivores? Christina Thomsen, Risa Sargent	
11:30	11:30 - 12:00 INV-09 Eco-evolutionary dynamics in communities across space Mark C. Urban	MR1-10 Population dynamics of invasive green crabs in mudflat and rocky intertidal zones in the upper Bay of Fundy Amelia MacDonald, Diana Hamilton, David Drolet	MR2-11 The influence of physiological traits on climatic niche occupancy and competitive ability in the polyploid plant, <i>Chamerion angustifolium</i> (Onagraceae) Ken A. Thompson , Brian C. Husband, Hafiz Maherali	IN1-11 The impact of global warming on floral traits in a high altitude plant: The interplay between genetics and the environment Johanne Brunet, Megan Van Etten	
11:45			MR2-12 Are Hutchinsonian Demons more abundant in natural vegetation? Brandon S. Schamp, Kaitlyn N. Teller, Jordan M. Fresque	IN1-11.1 Pollen limitation and its influence on natural selection Magdalena Bartkowska, Mark O. Johnston	

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

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

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
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 Michelle Viengkone, Rene Malenfant, Corey S. Davis, Andrew E. Derocher, Vicki Sahanatien, Markus Dyck, Martyn Obbard, Evan Richardson, Ian Stirling	CA1-13 Condition-dependent sexual dimorphism in body shape: Testing Rowe's Rule in antler flies Mathew Oudin, Russell Bonduriansky, Howard Rundle	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 Frédérique Dubois	MF2-13 Ecosystem and limnological influences on mercury in lake food webs across Nova Scotia Linda Campbell , Carolyn Stevens, Jason LeBlanc	MF5-13 Regulation of energy metabolism during social interactions in rainbow trout: A role for AMPK Kathleen M. Gilmour , Paul M. Craig, Rashpal S. Dhillon, Gigi Y. Lau, Jeffrey G. Richards
	CA1-14 Evolution of egg size in polyandrous shorebirds: Limited male incubation or female limited production? Darryl Edwards	CA2-14 Do eastern carpenter bees use cuticular hydrocarbons to recognize nest-mates? Miriam Richards, Andreea Botezatu, Jess Vickruck, Gary Pickering	MF2-14 Hg biogeochemistry in tundra lakes following retrogressive shoreline thaw slump events Adam J. Houben, Jules M. Blais	MF5-14 The amphibian (<i>Xenopus laevis</i>) type I interferon response to Frog Virus 3: New insight into ranavirus pathogenicity Leon Grayfer , Jacques Robert
IN2-15 Developing genetic markers to distinguish Ontario caribou ecotypes in the presence of atypical molecular evolution Adam Marques , Paul Wilson, Ken Abraham, Cornelya Klutsch	CA1-15 Between-sex genetic covariance constrains the evolution of sexual dimorphism in <i>Drosophila</i> melanogaster Fiona Ingleby, Paolo Innocenti, Howard D. Rundle , Edward H. Morrow	CA2-15 Behavioural plasticity and division of labour in advanced ant societies Ana Sofia Ibarraran-Viniegra, James Traniello, Marc Seid, Ehab Abouheif	MF2-15 Evaluating how the metabolically diverse purple non-sulfur bacterium Rhodobacter capsulatus can affect mercury redox cycling Daniel S. Grégoire, Alexandre J. Poulain	MF5-15 Thermal sensitivity of mitochondria from arctic charr heart: Mitochondrial respiration and ROS production Felix Christen, Véronique Desrosiers, Nathalie LeFrançois, France Dufresne, Grant W. Vandenberg, Pierre U Blier
IN2-16 Assessment of the extirpated Maritimes walrus using morphological and ancient DNA analyses Timothy R. Frasier, Brenna A. McLeod, Zoe Lucas	CA1-16 Correlations between male and female genitalia and sexually dimorphic ornamentation in the feather mite genus <i>Trouessartia</i> (Arachnida: Acari) Kaylee Byers, Heather Proctor	CA2-16 Brain levels of isotocin and vasotocin are related to status and social behaviour in a cooperatively breeding cichlid fish Adam Reddon, Constance O'Connor, Susan Marsh-Rollo, Sigal Balshine, Magdalena Gozdowska, Ewa Kulczykowska,	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 Dalal Hanna, Lauren Chapman, Amanda Poste	MF5-15.1 Mechanism of olfactory toxicity of copper: From gene to behaviour Ali Azizishirazi, Bill Dew, Greg Pyle

	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		BR	EAK		
15:30	Auditorium				
	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 a	and 4th floors)		
	16:30 - 18:00 Poster and Mixer Session 1 (see page 63-65 for more détails)				
18:30		Audi	torium		
	18:30 - 19:30 G2B Public Outreach Lecture Moderator: Andrew Hendry INV-14 Halting deforestation: One piece of Catherine Potvin @Dialogs.				

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

PAUSE

Auditorium

15:30 - 16:30

Conférence plenière 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)
	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	Landscape Ecology I / Écologie des paysages I	Natural Selection and Adaptation / Sélection naturelle et adaptation	Osmoregulation / Osmorégulation
	Alison Derry	Moderator/Modérateur Steven Brady	Moderator/Modérateur Graham Bell	Moderator/Modérateur Jason Bystriansky
8:30	08:30 - 09:15 INV-15 Biovector transport of contaminants from oceans to terrestrial and freshwater ecosystems Jules M. Blais	MR1-18 Picking up puke: A method to monitor small mammal communities across landscapes Leanne M. Heisler, Chris M. Somers, Ray G. Poulin	MR2-19 Human influences on the strength and shape of phenotypic selection Vincent Fugère, Andrew Hendry	IN1-18 Role of acid sensing ion channels (ASICs) in Na+ transport in rainbow trout Agnieszka Dymowska, Aaron Schultz, Salvatore Blair, Danuta Chamot, Greg Goss
8:45		MR1-19 The landscape of food: a new deer forage quality index based on near-infrared spectra of feces Pierre-Olivier Jean, Robert Bradley, Jean-Pierre Tremblay	MR2-20 Evolution of Daphnia populations in contaminated environments Katie Millette , Melania Cristescu	IN1-19 Ion balance during smoltification in pink salmon (Oncorhynchus gorbuscha): Characterization of sodium flux rates and whole body permeability Emily J. Gallagher, Colin J. Brauner
9:00		MR1-20 The nettle in the haystack: tracking pollen distribution to locate important plant populations Rebecca J. Parker, Lesley G. Campbell, Eric de Noronha Vaz,	MR2-21 Fluctuating natural selection in red squirrels: The role of the environment and alternative tactics Andrew G. McAdam, Murray M. Humphries, Stan Boutin	IN1-20 The effects of lampricide, 3-Trifluoromethyl-4-nitrophen ol, on gill-function and structure in rainbow trout and larval lamprey in ion-poor water Lisa A. Sorensen, Jonathan M. Wilson, Michael P. Wilkie
9:15	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	MR1-21 From pollen DNA to floristic mapping Philippe Marchand, Ignacio H. Chapela	MR2-22 Effects of red squirrel seed predation on natural selection of white spruce cones Kayla Deasley, Dr. Murray Humphries, Dr. Stan Boutin, Dr. Andrew McAdam	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 Katelyn Tovey, Colin J. Brauner

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

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9:30	Auditorium 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	International 1 (IN1) IN1-22 Characterization of Na+ uptake in white sturgeon (Acipenser transmontanus) 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-Josee Fortin	MR2-24 Examining the adaptive potential of ragweed (Ambrosia artemisiifolia) Brechann McGoey	IN1-23 Physiological responses of digestion in the crabs <i>Carcinus maenas</i> and Cancer irroratus in low salinity Chantelle Penney , lain McGaw	
10:00		BRI	EAK		
	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, Bufo marinus Andrew D. Peters, Stephen G. Reid	
10:45		MR1-24 Wolverine range contraction	MR2-26 Intersexual differences in	IN1-25 Comparing blood flow	
		in the Canadian Rockies: Is it the weather, or the neighbourhood? Jason T. Fisher, Nicole Heim, Anthony Clevenger, John Paczkowski	mating swarm dynamics in temperate bats: Do males acquire higher frequent flyer status? Lynne Burns , Hugh Broders	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)
IN2-23 Does high extracellular K+ cause muscle depolarization and chill-coma? An in vivo test with the migratory locust Heath MacMillan, Anders Findsen, Thomas Holm Pedersen, Johannes Overgaard	CA1-23 Eco-evolutionary feedbacks in a seasonal world and Chitty super-cycles Gustavo S. Betini , Andrew McAdam, Cortland Griswold, Ryan Norris	CA2-23 Aggression and social dominance of small mammals in recently logged forests Nikhil Lobo , Lila Karolak, Lindsey Valliant, John S. Millar	MF2-22 Effects of diet macronutrient composition on flight performance and fuel use in a migratory songbird Christopher G. Guglielmo, Alexander R. Gerson	MF5-20 Secondary cartilage and chondroid bone in dinosaur embryos: Insights on the evolution of skeletal tissues Alida Bailleul
IN2-24 Stress and reproductive hormones, and performance of a global invader (cane toad) during exposure to acute and chronic thermal stressors Edward Narayan	CA1-24 Comparative transcriptomics of viable and nutritive embryos in the direct developing marine snail, <i>Crepidula navicella</i> Maryna Lesoway, Rachel Collin, Ehab Abouheif	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</i> maniculatus) Gillian Merritt, Dr. Amy Newman, Dr. Andrew McAdam	MF2-23 Metabolism and ecophysiology of the anadromous climbing gobies (Sicydiinae) in Guadeloupe Christophe LeMoine, Frederic Busson, Clara Lord, Ludovic Merveille, Philippe Keith, Dominique Monti	MF5-21 What is a tooth socket? The development and phylogenetic significance of thecodonty in amniotes Aaron R.H. LeBlanc, Robert R. Reisz
		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
IN2-25 Cooling off hot headed lizards: Thermoregulatory bias and behaviours in bearded dragons Ian Black	CA1-25 Feeding damage induces transgenerational disease resistance in insects Grant L. Olson, Judith H. Myers, Jenny S. Cory	CA2-25 Interspecies comparison of the mechanical properties and biochemical composition of byssal threads Zeineb Bouhlel, Bertrand Genard, Frédéric Byette, Emily Carrington, José Babarro, Augusto A.V. Flores, Christian Pellerin, Isabelle Marcotte, Réjean Tremblay,	MF2-24 Climate change drives a shift in peatland ecosystem plant communities: Implications for ecosystem function and stability Catherine M. Dieleman, Brian A. Branfireun, Zoe Lindo	MF5-22 Behaviour and host-symbiont relationships in thyasirid bivalves Suzanne C. Dufour, Jason Laurich, Heather Zanzerl
IN2-26 Thermal pollution as novel habitat: A case study of mallard ducks (<i>Anas platyrhynchos</i>) overwintering in Edmonton, Alberta, Canada Patrick O. Welsh , Keith B. Tierney, Cynthia A. Paszkowski	CA1-26 Evolution of drug resistance in natural populations of Pseudomonas aeruginosa Gabriel G. Perron, Rees Kassen	CA2-26 Functional constraints of ciliated gills and the hemichordate evolutionary stasis Maureen Vo, Fernando Villalpando, Dominique Pelletier, Christopher Cameron	MF2-25 Effects of temperature and atmospheric carbon dioxide on microbe-mediated nitrogen and carbon dynamics of the boreal bryosphere Margaret Elaine Sawatzky, Zoe Lindo	MF5-23 Impact of attack by <i>Eurosta</i> and <i>Rhopalomyia</i> on their ancestral and novel <i>Solidago</i> hosts Zoryana Shibel , Stephen Heard

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

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

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	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 Genetics / Génétique du paysage	Toxicology and Reproduction / Toxicologie et reproduction	Respiratory Physiology / Physiologie respiratoire
		Moderator/Modérateur Sally Aitken	Moderator/Modérateur Michael Wilkie	Moderator/Modérateur Kevin Campbell
13:30	13:30 - 14:15 INV-19 Disentangling the relative importance of local- versus regional-scale processes on community responses to environmental change Shelley E. Arnott	MR1-29 Connectivity within a longnose sucker (Catostomus catostomus) hierarchical metapopulation in northern Labrador Sarah J. Salisbury, Robert Perry, Donald Keefe, Gregory R. McCracken, Daniel E. Ruzzante	MR2-31 Transcriptional profiles of copepodid sea lice (<i>Lepeophtheirus salmonis</i>) exposed to commonly used therapeutants in aquaculture Jordan Poley, Ben Sutherland, Okechukwu Igboeli, Sara Purcell, Mark Fast	IN1-30 Effects of ploidy and cell size on erythrocyte volume control in brook charr (<i>Salvelinus fontinalis</i>) Nicole Nader, Tillmann Benfey
13:45		MR1-30 Integrated landscape genetics of the Lyme disease vector (Ixodes scapularis) and its host (Peromyscus leucopus) in southern Quebec Sarah S.T. Leo, Andrew Gonzalez, Nicholas Ogden, Virginie Millien	MR2-32 Mechanisms of reproductive inhibition in zebrafish exposed to EE2 and NH3 Cory Schilling, Dr. Glen Van Der Kraak, Dr. Deborah MacLatchy	IN1-31 Control of breathing and adaptation to high altitude hypoxia in deer mice (Peromyscus maniculatus) Catherine M. Ivy, Graham R. Scott
14:00		MR1-31 Landscape genetics and effective population size of the Common Galaxias (<i>Galaxias maculatus</i>) in a Northern Patagonian post-glacial lake system Livia E. Anthes , Gregory McCracken, Sandra J. Walde, Daniel E. Ruzzante	MR2-33 Effects of chronic, parental pharmaceutical exposure on zebrafish (<i>Danio rerio</i>) offspring Michal Galus, Sahaana Rangaranjan, Anderson Lai, Lana Shaya, Sigal Balshine, Joanna Y. Wilson	IN1-32 Critical windows in embryonic development: Cardiac and survival effects of shifting temperatures in Whitefish embryos (Coregonus clupeaformis) John Eme, Casey A. Mueller, Douglas R. Boreham, Richard G. Manzon, Christopher M. Somers, Joanna Y. Wilson
14:15	14:15 - 15:30 INV-20 Tundra aquatic biomes: Thaw lakes on permafrost landscapes in transition Warwick F. Vincent, Isabelle Laurion, Connie Lovejoy	MR1-32 Effective size and connectivity among small populations of brook trout (<i>Salvelinus fontinalis</i>) in Nova Scotia Samantha Parmelee, Gregory McCracken, John MacMillan, Sandra J. Walde, Daniel E. Ruzzante	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>) Laurence Deneault-Tremblay, Céline Audet, Nadia Aubin-Horth	IN1-33 Future predicted increases in CO2 on the growth, metabolism, olfaction, and behavior in the early life stages of pink salmon, Oncorhynchus gorbuscha Michelle Ou, Junho Eom, Trevor Hamilton, Emily Lyall, Joshua Gallup, Sang Sun Yung, David Close, Colin J. Brauner

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 Aquati Environments: From the Equ to the Arctic / Changemer climatique et milieux aquatiques : de l'Équateur a 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, Hepatozoon catesbianae, infecting freeze-tolerant wood frogs, Rana sylvatica 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 tropica freshwater fishes: Predicting the effects of climate change in equatorial waters Elizabeth A. Nyboer, Laurer 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. Laure 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 Flavobacterium psychrophilum in Oncorhynchus mykiss families Calvin Kellendonk, Lowia Al-Hussinee, 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 Dicosty, 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

38

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	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 Cayleih 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		BR	EAK	
15:30		Audi	torium	
	15:30 - 16:30 SCL Plenary Moderator: Jules Blais, SCL Preside INV-21 Prediction, prescription, precautic Daniel Schindler	ent on and management in a rapidly cha	nging world	
16:30		Foyers (3rd a	and 4th floors)	
distriction manning of the control o	16:30 - 18:00 Poster and Mixer Session 2 (see	e page 65-66 for more détails)		
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International 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
IN2-35 Out of the frying pan into the air – Emersion behaviour and evaporative heat loss in an amphibious mangrove fish (Kryptolebias marmoratus) Daniel Gibson, Emma Sylvester, Glenn Tattersall, Andy Turko, Patricia Wright	CA1-35 Optimizing an HCT-8 cell-culture immunofluorescence assay to assess infectivity of Cryptosporidium parvum isolated from oysters (Crassostrea virginica) Jessica E. Willis, J.T. McClure, Carol McClure, Jonathan Spears, Gary Conboy, Jeff Davidson, Spencer J. Greenwood	CA2-35 Variations in levels of polymorphism and gene expression of major histocompatibility class I classical and non-classical genes in Arctic charr (Salvelinus alpinus) Terin Robinson, Pablo Conjeros, N.T.K. Vo, Michael Power, Brian Dixon		MF5-32 Biodiversity of rotifers in the permafrost thaw lakes of Nunavik and their potential role in food webs and greenhouse gas emissions Paschale N. Bégin, Warwick F. Vincent
IN2-36 The heat shock response and the development of thermotolerance in embryonic lake whitefish (<i>Coregonus clupeaformis</i>) Katherine J. Sessions , Chris M. Somers, Joanna Y. Wilson, Doug R. Boreham, Bruce Power; Richard G. Manzon	CA1-36 Expression analysis of acute phase proteins in Trypanosoma carassii infected goldfish (<i>Carassius auratus L.</i>) Nikolina Kovacevic	CA2-36 Combining RAD-QTL mapping and geometric morphometrics to investigate selection and modularity of fish shape in lake whitefish species pairs Martin Laporte, Sean M. Rogers, Anne-Marie Dion-Côté, Eric Normandeau, Pierre-Alexandre Gagnaire, Anne C. Dalziel, Jobran Chebib, Louis Bernatchez		MF5-33 Arctic zooplankton responses to climate change: Effects of temperature and cyanobacteria on polyploid Daphnia pulex Anna Przytulska-Bartosiewicz, Maciej Bartosiewicz, Milla Rautio, France Dufresne, Warwick F.Vincent

PAUSE

Auditorium

15:30 - 16:30

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

INV-2

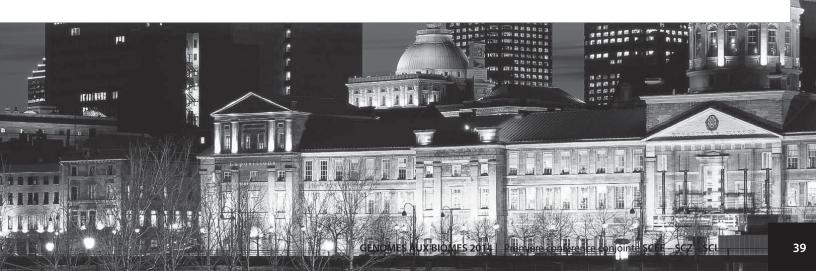
 $Prediction, prescription, precaution \ and \ management \ in \ a \ rapidly \ changing \ world$

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)



WEDNESDAY MAY 28

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

MERCREDI 28 MAI

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

WEDNESDAY MAY 28

	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 somatotropic 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 Chavarría, Diana Sharpe	
10:00		BR	EAK		
	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	MR2-44 Rising complexity and falling	IN1-43 The contribution of rare and	
		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	explanatory power in ecology Etienne Low-Décarie, Corey Chivers, Monica Granados	common variants to quantitative trait variation in Capsella grandiflora Young Wha Lee, Emily Josephs, Stephen Wright, John Stinchcombe	
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MERCREDI 28 MAI

Interna	ational 2 (IN2)	Cartier 1 (CA1)	Cartier 2 (CA2)	Mansfield 2 (MF2)	Mansfield 5 (MF5)
fragmenta occurrenc the agent the northe distribution Virginie M Gonzalez,	hange and habitat ation drive the se of <i>B. burgdorferi</i> , of Lyme disease, at ern limit of its on Millien , Andrew Francois-Joseph Nicholas Ogden	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 Aerin L. Jacob, Martin J. Lechowicz, Pete Parker, Colin A. Chapman	CA2-41 Foraging strategies of co-occurring mysid species: Niche partitioning in the St. Lawrence estuarine transition zone Gesche Winkler	MF2-39 Effect of landscape on the composition of dissolved organic matter in the Quebec boreal biome Ryan H.S. Hutchins, Paul del Giorgio, Yves Prairie, Thorsten Dittmar	MF5-38 How adventurous are chewing lice (Insecta: Phthiraptera) infesting Canada geese? Alexandra Grossi
genetic di lynx at the Erin L. Ko	hange reduces iversity of Canada e trailing range edge v en , Jeff Bowman, Murray, Paul J. Wilson	CA1-42 Phylogenetic diversity of trees predicts human population density in southern Africa Jonathan Davies, Olivier Maurinb, Kowiyou Yessoufoub, Barnabas Darub, Bezeng Bezeng, Ledile Mankga, Hanno Schaefer, Wilfried Thuiller, Michelle van der Bank	CA2-42 Krill density and depth distribution drive the optimal foraging strategies and maneuverability of lunge feeding blue whales Jeremy Goldbogen, Elliott Hazen, Ari Friedlaender	MF2-40 Patterns of carbon burial efficiency in temperate and boreal lakes Adam J. Heathcote, Yves T. Prairie, Paul A. del Giorgio	MF5-39 Behavioural modifications in Rhodnius prolixus infected with T. rangeli but not T. cruzi are linked to strong changes in the expression of the foraging gene Alessandra Guarneri, Newmar Marliére, José Manuel Estivalis, David Carrasco, Carl Lowenberger
			PAUSE		
/ Agents	vironmental Stressors stressants du milieu aquatique	Urban Ecology / Écologie urbaine	Forest Entomology / Entomologie forestière Forest Entomology / Entomologie forestière	Endocrinology and Stress / Endocrinologie et stress	Zooplankton: From Communities to Food Webs / Zooplancton : des communautés aux réseaux trophiques
	rator/Modérateur réline Audet	Moderator/Modérateur Jeremy Lundholm	Moderator/Modérateur Leanna Lachowsky	Moderator/Modérateur Anju Philip	Moderator/Modérateur Yves Prairie
phytoplar lakes Michelle I	etressor impacts on nkton in Ontario Palmer , Andrew Jennifer Winter, 'an	CA1-43 Adaptive and maladaptive responses of roadside amphibians Steven Brady	CA2-43 Pines vs. pests: Consequences of the identity, diversity and abundance of plant defences for the success of a tree-killing bark beetle Jagdeep Sekhon, Mary Reid	MF2-41 With a little help from my friends: Conspecifics lower acute stress in juvenile lake sturgeon Alexander Hare, W.G. Anderson	MF5-40 Meta-population dynamics in zooplankton communities: Untangling the role of parasites, predators, and food availability Amanda Valois, Robert Poulin
carbon did plankton d interaction	t , Beatrix Beisner,	CA1-44 Occupancy modelling of native and exotic solitary bees in urban landscapes J. Scott MacIvor, Dr. Laurence Packer	CA2-44 Does fine-scale genetic structure matter in an irruptive forest pest? Jasmine Janes, Amanda Roe, Adrienne Rice, David Langor, Felix Sperling	MF2-42 Serotonergic regulation of the hypothalamic-pituitary-interre nal axis in rainbow trout via the 5Ht1a receptor Laurence Dionne-Wilson , Kathleen M. Gilmour	MF5-41 Is zooplankton production affected by community diversity in lakes? Nicolas F. St-Gelais, Paul A. del Giorgio, Beatrix E. Beisner

WEDNESDAY MAY 28

	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 Gasterosteus aculeatus 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 Oceanodroma leucorhoa 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)

MERCREDI 28 MAI

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

Présentation spéciale :

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

WEDNESDAY MAY 28

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

MERCREDI 28 MAI

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

WEDNESDAY MAY 28

	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		BR	EAK		
15:30		Audi	torium		
	15:30 - 16:30 CSZ Plenary Moderator: Pat Walsh, CSZ Preside INV-28 The sex lives of fish: Science, polic Glen Van Der Kraak				
16:30		Foyers (3rd a	and 4th floors)		
	16:30 - 18:00 Poster and Mixer Session 3 (see page 67-68 for more détails)				
18:30		Audi	torium		
	18:30 - 19:30 CSEE / CSZ / ZET Public Outreach Moderator: Andrew Hendry	h Lecture			

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

PAUSE

Auditorium

15:30 - 16:30

Conférence plénière de la SCZ Modérateur : Pat Walsh, president 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

THURSDAY MAY 29

	Auditorium	Mont-Royal 1 (MR1)	Mont-Royal 2 (MR2)	International 1 (IN1)
	LOC Symposium: From genomes to biomes / Symposium COL : Génomes 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	O8:30 - 09:15 INV-31 Genome architecture and the dynamics of speciation Victor 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 lan Hatton	MF2-47 The genetic structure and phylogeography of White Mountain Avens (<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 trough a spatio-temporal simulation approach William Vickery, Julien Céré, Cristopher 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. Frasier, 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

THURSDAY MAY 29

	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-nitrophen ol (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		BR	EAK		
	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, lan 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	MR2-56 Fragmentation effects on	IN1-61 Contributions of species	
		demonstrate how generalist species dominate locally in complex regional landscapes Marie-Hélène Greffard , Hassen Allegue	genetic structure and fitness in a calcareous grassland specialist, <i>Pulsatilla vulgaris</i> Michelle F. DiLeo , Helene H. Wagner	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)
IN2-59 Dispersal mediates the predictability of multi-species range shifts Patrick Thompson, Andrew Gonzales	CA1-59 A paternity test to determine pollen movement and parent pairs in highbush blueberry Gwendolyn Huber, Kermit Ritland	CA2-59 Importance des effets cohorte chez une population d'ongulés alpins Gabriel Pigeon, Marco Festa-Bianchet, Fanie Pelletier	MF2-51 Asian gazelles Procapra in anthropogenic landscape Zhigang Jiang	MF5-56 The role of oxidative stress in the aging and survivorship of teleost red blood cells Johanne M. Lewis, Amanda Burnette, Allyson McCormick, Emily McManus
IN2-60 Critical review and synthesis of quantitative methods for measuring species' range shifts Semra Yalcin, Shawn J. Leroux	CA1-59.1 Growth regulation in brook charr: Investigations at the individual and family levels Aurélie Prinet, Jocelyne Pellerin, Louis Bernatchez, Céline Audet	CA2-60 Size selectivity of predation by Alaskan brown bears depends on the density of their sockeye salmon prey Curry J. Cunningham, Gregory T. Ruggerone, Thomas P. Quinn	MF2-52 Genome-wide set of SNPs reveals evidence for the presence of a cryptic glacial refugium for thinhorn sheep Zijian Sim , Joshua M. Miller, Philippe Henry, David W. Coltman	MF5-57 Low hydrogen peroxide production in mitochondria of the long-lived <i>Arctica islandica</i> : Underlying mechanisms for slow aging Daniel Munro , Nicolas Pichaud, Frédérique Paquin, Vincent Keimed, Pierre U. Blier
		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
IN2-61 Spawning Pacific herring provide an important spatial subsidy to nearshore and intertidal species Caroline Fox, Paul Paquet, Thomas Reimchen	CA1-60 Assessment of below-ground plant biodiversity through environmental DNA from soil: A case study in the Peace-Athabasca Delta wetlands Nicole Fahner, Mehrdad Hajibabaei, Donald Baird	CA2-61 Hybrid zone dynamics of the <i>Papilio machaon</i> species group in western Canada Julian Dupuis, Felix Sperling	MF2-53 Fish on acid: A tale of urine, nitrogen metabolism, and acid-base regulation Michael James Lawrence, Pat A. Wright, Chris M. Wood	MF5-58 Living at the edge: Hypoxia as a driver of divergence in East African swamps Lauren Chapman
IN2-62 Effects of competition with four non-native salmonid species on Atlantic salmon from three populations Aimee Lee Houde, Chris Wilson, Bryan Neff	CA1-61 Environmental DNA: A communal metagenomics approach to detecting amphibians in aquatic ecosystems Brandon K. Booker, David Coltman, Corey Davis, Cynthia Paszkowski	CA2-62 Consistent genomic signatures of reproductive isolation in a hybrid zone responding to climate change Scott A. Taylor, Thomas A. White, Wesley Hochachka, Valentina Ferretti, Robert L. Curry, Irby J. Lovette	MF2-54 High environmental ammonia during early life: Effects on the HPI axis and neuronal development of zebrafish Tegan Williams, Luke Bonham, Nick Bernier	MF5-59 Some like it cold especially in hypoxia: developmental changes in the thermoregulatory response of hibernating and non-hibernating rodents Yvonne A. Dzal, William K. Milsom

THURSDAY MAY 29

	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 (Myotis lucifugus) 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

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

THURSDAY MAY 29

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

THURSDAY MAY 29

	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		BR	EAK	
		Audi	torium	
15:30	15:30 - 15:40 INV-37 Address by the President of the Ca	anadian Institute for Ecology and Evo	plution	
		Young Investigator Syn	nposium	
		Moderator Beatrix Beisner		
15:40	15:40 - 16:10 INV-38 The macroecology of range shifts Jennifer Sunday CSEE - 2013 Early Career Award,			
16:10	16:10 - 16:40 INV-39 The genomic basis of local adapta Rowan D.H. Barrett, Brant K. Pete CSEE - 2013 Early Career Award,	erson, Hopi E. Hoekstra		

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

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

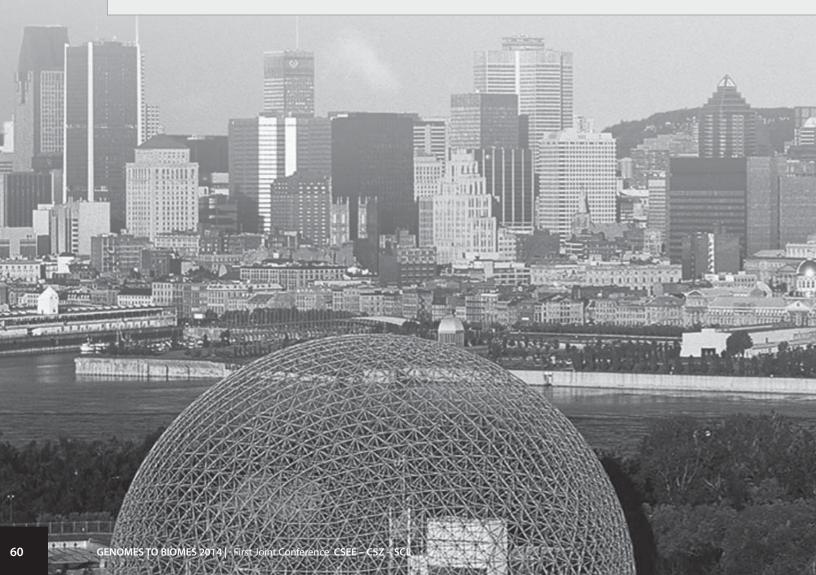
The genomic basis of local adaptation

Rowan D.H. Barrett, Brant K. Peterson, Hopi E. Hoekstra

SCEE - 2013 Early Career Award, présenté par Judith Myers

THURSDAY MAY 29

	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 dévelopement durable

Julie Gelfand





POSTER SESSION SÉANCE DE PRÉSENTATIONS SUR AFFICHE

Poster sessions are sponsored by / Les séances de présentations sur affiche sont commanditées par :









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 Kinkead

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-13

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, lan King, Mehrdad Hajibabaei

PO-M-18

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

Travis Chen, Benjamin Fung, Rajendhran 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-Odendaal, 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 Ouiion

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 Zuiden, 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. Higdon, 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 cooccurrence 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 DeBcoek, 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

O-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 Moharramipour

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

lain 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-5

Lake meta-community adaption to heavy metal contamination: Thresholds, sweeps and switches in short-term evolution

Bachar Cheaib, Malo LeBoulch, Mildred Delgado, Françis Brochu, Pierre-Luc Mercier, Sébastien Boutin, Jeff Gauthier, Nicolas Derome

PO-T-52

Too hot to touch: Thermal tolerance in shortnose strurgeon, *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-1SY: 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 Wedneday May 28

Wedneday 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

Biodiverity 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 Beauregard**, Bernard Angers

PO-W-2

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 lifehistory 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. Manzon, Christopher M. Somers, Joanna Y. Wilson

PO-W-35

Glucose transporter transcription levels in rubythroated 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 *Apteronotus 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 Alshamlih

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 17α -ethinyl estradiol and ammonia on the reproductive status of *Pimephales promelas* **Samantha Deeming**, Andrea Lister, Robert Rutherford, Deborah MacLatchy

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 **Raphaelle 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. Bystriansky**

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 Weihrauch

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-Antonin Dupont Cyr; Grant W. Vandenberg; France Dufresne; Felix Christen; Nathalie R. Lefrancois; 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



PRESENTING AUTHOR INDEX INDEX DES PRÉSENTATEURS



Codes for presentations:

INV	Invited speaker
IN1	International I
IN2	International II
CA1	Cartier I
CA2	Cartier II
MR1	Mont-Royal I
MR2	Mont-Royal II
MF2	Mansfield II
MF5	Mansfield V
PO	Poster
(Poster code includes day and po	oster board number)

Codes pour les présentations :

INV	Conférencier invité
IN1	International I
IN2	International II
CA1	Cartier I
CA2	Cartier II
MR1	Mont-Royal I
MR2	Mont-Royal II
MF2	Mansfield II
MF5	Mansfield V
PO	Présentation sur affiche
(Le code inclue le jour et le	e numéro de l'affiche)

Aarssen, Lonnie	PO-W-19
Abbasi, Roohollah	CA1-06
Acheson, Emily	CA1-27
Ackerly, Kerri	PO-T-06
Adlimoghaddam, Aida	
Afkhami, Michelle	
Agrawal, Aneil	
Ahmadilari, Banafsheh	
Aitken, Sally	
Akhter, Hina	
Albert, Arnaud	
Aloufi, Amal	
Anas, M.U. Mohamed	
Anderson, Elsa	
Andre, Adrien	
Anstett, Daniel	
Anthes, Livia	
Anthony, Susan	
Arnott, Shelley	
Atkins, Jade	
Aubin-Horth, Nadia	
Audet, Céline	
Austen, Emily	
Austin, Christopher	
Awde, David	
Azizishirazi. Ali	
AZIZISHII dZI, AH	IVIF3-13.1
Bachand, Marianne	ME2 06
Dactially, Marianne	

Bachand, Marianne	
Bailey, Joe	INV-36
Bailleul, Alida	MF5-20
Baillie, Shauna	IN1-37
Baines, Celina	CA1-67
Baldwin, Sarah	PO-W-17
Baltazar, Catherine	MF5-63
Bannatyne, Travis	PO-T-05
Bannister, Allison	PO-T-12
Barnes, Jeffrey	CA2-17
Barrett, Rowan	INV-39
Barry, Tegan	IN1-44
Bartkowska, Magdalena	IN1-11.1
Bastille-Rousseau, Guillaume	CA2-57
Batstone, Rebecca	PO-W-11
Baum, Julia	INV-03
Bazely, Dawn	PO-W-18
Beauregard, France	PO-W-25
Beckett, Nicole	CA2-54
Bégin, Paschale Noël	MF5-32
Beisner, Beatrix	INV-18
Béland, Stephanie	IN2-47
Bell, Graham	INV-05
Bell, Laura	PO-T-04

Bell, Terrence	MF5-65
Benoit, Pierre-Olivier	
Bernier, Nicholas Bertrand, Philip	
Betini, Gustavo	
Binning, Sandra A	
Birceanu, Oana	
Birceanu, OanaBishop, Cory	
Black, Ian	
Blais, Jules	
Blewett, Tamzin	
Blier, PierreBody, Guillaume	
Bogard, Matthew	
Booker, Brandon	
Borowiec, Brittney	
Bouchard, Lotus Kandy Boucher-Lalonde, Véronique	
Boughman, Jenny	
Bouhlel, Zeineb	
Bourding, Elizabeth	
Bowman, Jeff	
Bradley, David	
Brady, Steven	
Breton, SophieBrousseau, Pierre-Marc	
Brown, Carissa	
Brown, Emily	CA1-62
Brubacher, John	
Brunet, Johanne	
Bundus, Joanna	
Burg, Theresa	
Burns, Lynne	
Bystriansky, Jason	PO-W-56
Cameron, Christopher	CA2-26
Cameron, Erin	
Camiletti, Alison	
Campbell, Kevin	
Caouette Houle, Mirelle	
Cardinal-Aucoin, Michael	PO-T-49
Cassin, Colin	
Céré, JulienChain, Frédéric	
Chapman, Lauren	
Charette, Cristina	
Cheaib, Bachar	
Chen, TravisChen, Travis	
Cheng, Wenhan	
Chiasson-Gould, Sophie	
Chotics Formation	
Chretien, Emmanuelle	
Chung, Dillon	
Clark, Nathaniel	
Colborne, Scott	
Cole, Brittany	
Comeau, Ariane	
Condy, Charmaine	
Cook, Katie	
Corey, Emily	
Coristine, Laura	
Cortez Ghio, Sergio	
Cory, Jenny	
Couchoux, Charline	
Craig, Paul	
Crease, Teresa	
Crevier, Julie	
Crispo, Erika	
Cunningham, Curry	
Cvetanovska, Emilija	
Dala Cathorina	CA3 10
Dale, Catherine	
Dalziel, Anne	
Daniel, Mitchel	MR2-27
Dargent, Felipe	
Davies, JonathanDavy, Christina	
D. L. F. L.	INI1 41

De Leon, Luis Fernando...... De Serrano, Alex.....

Dearborn, Kenneth....

.....CA2-04

Deasley, Kayla	
	MR2-2
Deck, Courtney A	MF5-15.
Deeming, Samantha	PO-W-4
del Giorgio, Paul	INV-3
DelSontro, Tonya	
Deneault-Tremblay, Laurence	
Deremiens, Léo	
Des Marteaux, Lauren	IN2-2
Desantis, Lanna	IN2-2
Deshpande, Prachi	
Desjardins, Cyndy	
Dettman, Jeremy	IN2-0
Detwiler, Jillian	
Dew, Bill	
Dey, Cody	
Dieleman, Catherine	
Dietz, Sabine	MF2-4
DiLeo, Michelle	
Dion-Côté, Anne-Marie	
Dionnne-Wilson, Laurence	
Doellman, Meredith	
Drake, Andrew	
Drevet, Ophelie	
Dubois, Frédérique	
Dufour, Suzanne	
Dufresne, France	
Duong, Minh Tam (Tammy)	
Dutton, Emily	
Dzal, Yvonne	MF5-5
Eberts, Rebecca	
Eckert, Christopher	
Edelsparre, Allan	
Edge, Christopher	
Edwards, Brie	
Edwards, Darryl	
Edworthy, Amanda	
Eickmeyer, David	
Einfeldt, Tony	
Elchyshyn, Leanne	
Ellington, Hance	
Elliott, Kyle	
Elliott, Tyler	
El-Sabaawi, Rana	
Eme, John	
Enciso, Kristina	
Engelhardt, Sacha	
Ernst, Crystal	IVIR I -6
Fadhlaoui, Mariem	MEE
	IVIF5-U
Fahner, Nicole	
	CA1-6
Favé, Marie-Julie	CA1-6 CA1-2
Favé, Marie-Julie Fehsenfeld, Sandra	CA1-6 CA1-2 MF2-5
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura	CA1-6 CA1-2 MF2-5 PO-T-4
Favé, Marie-Julie Fehsenfeld, Sandra. Ferguson, Laura. Ferrario, Filippo	CA1-6 KA1-2 MF2-5 PO-T-4 MF2-0
Favé, Marie-Julie	CA1-6MF2-5PO-T-4MF2-0PO-W-4
Favé, Marie-Julie	CA1-6MF2-5PO-T-4MF2-0MF2-0MF2-5
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel	CA1-6RF2-5PO-T-4MF2-0PO-W-4PO-W-4
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro	CA1-6MF2-5MF2-0PO-W-4MF2-5PO-W-4MF2-5
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Fisld, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Fertaro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-5 IN1-7 PO-W-1 IN1-5 INV-3 MR1-2 CA1-2 MR1-5
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie	CA1-6
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Fertaro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark	CA1-6 CA1-2 MF2-5 MP2-5 MP2-0 PO-W-4 MF2-0 MF1-5 MN1-7 M
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin, Julie Fortin St-Gelais, Nicolas.	CA1-6 MR2-5 MP2-0 MF2-0 MF2-0 MF2-0 MF2-0 MF2-0 MF2-0 MF2-0 MF2-1 MF2-0 MF2-0 MF2-0 MF2-0 MF1-0
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Kathleen. Foster, Leonard	CA1-6 MR2-5 MP2-6 MF2-0 MF2-0 MF2-0 MF2-0 MF2-0 IN1-7 PO-W-1 IN1-3 MR1-2 CA1-2 MR1-5 MR1-3 M
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Fertaro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen.	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournie, Isabelle	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Fild, Daniel Filiazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Leonard Fournier, Isabelle Fowler, Donald A	CA1-6 CA1-2 MF2-0 MF1-0 MF2-0 MF1-0 MF2-0 MF1-0 MF2-0 MF1-0 MF
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Filetcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fow, Caroline	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 MF2-0 IN1-7 IN1-7 IN1-7 IN2-3 MR1-5 MR2-3 MR2-3 MR2-3 IN2-6 MR2-3 IN2-6 MR2-1 MR2-
Favé, Marie-Julie Fehsenfeld, Sandra. Ferguson, Laura. Ferrario, Filippo. Ferraro, Shannon Festa-Bianchet, Marco Filipl, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Franz-Odendaal, Tamara.	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filiazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Franz-Odendaal, Tamara Fraser, Bonnie	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie Fraser, Daniele Fraser, Daniele Fraser, Daniele Fraser, Daniele Fraser, Daniele Fraser, Daniele	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 MF2-0 MF2-0 MF2-0 IN1-7 IN1-7 IN1-7 IN1-5 IN2-3 MR1-2 MR1-2 MR1-5 MR2-4 MF2-4 MF5-4 MR2-3 IN2-6 MR2-4 MR2-3 MR1-5 MR2-4 MR2-4 MR2-3 MR1-5 MR2-4 MR2-4 MR2-4 MR2-4 MR3-4 MR2-4 MR3-4 MR2-4 MR1-5 MR1-6 MR5-1 M
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie. Fraser, Bonnie. Fraser, Danielle Fraser, Sara	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 MF5-1
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie Fraser, Bonnie Fraser, Danielle Fraser, Danielle Fraser, Sara Frasier, Brenna	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie Fraser, Sana Fraser, Bonnie Fraser, Sara Fraser, Brenna Frasier, Firmothy	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 MF3-0 MF3-0 MF3-0 MF5-1 MF5-1 MF5-1 MF5-1 MF5-1 MF5-1 MF5-1 MF2-0 MF5-1
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fownier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie Fraser, Bonnie Fraser, Sara Frasier, Firmothy French, Sarah.	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie Fraser, Bonnie Fraser, Sara Frasier, Brenna Frasier, Timothy. French, Sarah Friesen, Caltilin Fry, Sheena Fry, Sheena Frys, Sheena Fry, Sheena Fry, Sheena Frys, Sheena Fry, Sheena Frey, Sheena Fry, Sheena Frey, Sheena Fry, Sheena	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 MF2-
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Kathleen. Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Franz-Odendaal, Tamara. Fraser, Bonnie. Fraser, Danielle Fraser, Sara Frasier, Brenna Frasier, Timothy French, Sarah Friesen, Caitlin Fry, Sheena. Fuentes-Pardo, Angela P. Fugère, Martine.	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 MF2-0 IN1-7 IN1-
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filiazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas. Foster, Kathleen. Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie. Fraser, Baniele Fraser, Sara Frasier, Brenna Frasier, Timothy French, Sarah Friesen, Caitlin Fry, Sheena Fugère, Martine Fugère, Marcian Frasier, Fardon, Angela P. Fugère, Martine Fugère, Wincent	CA1-6 CA1-2 MF2-0 MF2-1 MF3-1 MF3-1 MF3-1 MF3-1 MF3-1 MF3-1 MF3-1 MF3-1 MF5-1 MF
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie. Fraser, Bonnie. Fraser, Bonnie. Fraser, Bonnie. Frasier, Timothy French, Sarah Friesen, Caitlin Fry, Sheena Funger, Wincent Funger, Wincent Funger, Wincent Funger, Martine Funger, Wincent	
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin 5t-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fowner, Donald A Fox, Caroline Franz-Odendaal, Tamara Fraser, Bonnie Fraser, Sara Frasier, Brenna Frasier, Fimothy French, Sarah Friesen, Caitlin Fry, Sheena Fungèe, Martine Fugere, Wincent Fungèe, Martine Fungèe, Martine Fungèe, Martine Funge, Martine Fungèe, Martine Fungèe, Martine Fungee, Wincent Funge, Benjamin Fungman, Benjamin	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 IN1-7 IN1-
Favé, Marie-Julie Fehsenfeld, Sandra Ferguson, Laura. Ferrario, Filippo Ferraro, Shannon Festa-Bianchet, Marco Field, Daniel Filazzola, Alessandro Filip, Natalia Finkel, Zoe Fisher, Jason Fitzpatrick, Connor Fletcher, Quinn Forbes, Mark Fortin, Julie Fortin St-Gelais, Nicolas Foster, Kathleen Foster, Leonard Fournier, Isabelle Fowler, Donald A Fox, Caroline Fraser, Bonnie. Fraser, Bonnie. Fraser, Bonnie. Fraser, Brenna Frasier, Timothy French, Sarah Friesen, Caitlin Fry, Sheena Funger, Wincent Funger, Wincent Funger, Wincent Funger, Martine Funger, Wincent	CA1-6 CA1-2 MF2-5 PO-T-4 MF2-0 PO-W-4 MF2-0 IN1-7 IN1-

PRESENTING AUTHOR INDEX - INDEX DES PRÉSENTATEURS

Gallapher, Emily Gallin, Warren Garcia-Chaves, Carolina MR2-3 Garcia-Chaves, Carolina MF2-47 Gauthier, Patrick MF5-48 Gauthier, Patrick MF5-48 Geitmann, Anja Gentes, Marie-Line MR5-3 Geitmann, Anja Gentes, Marie-Line George, Paul PO-W-2 Giacomin, Marina MR2-3 Giani, Alessandra Glain, Alessandra Glain, Alessandra Glain, Alessandra Glain, Alessandra Glain, Alessandra Glibbon, Taylor Gibbon, Taylor Gibbon, Taylor Gibber, Wattle MF5-1 Girard, Catherine PO-T-4 Gorson, Glenys Gradin, Agnee Gorgel, Jame PO-T-4 Gorson, Gregy Gorgel, Jame PO-T-4 Gorson, Gregy Gorgel, Jame PO-T-6 Gorson, Jack Gradin, Mayla MR1-0 Gradin, Mayla MR1-0 Gradin, Mayla MR1-0 Gradin, Mayla MR1-0 Grant, James MR1-0 Grant, James MR2-1 Grandson, Monica MR1-0 Gregor, Pavic Gregor, Pavic MR2-1 Gregory-Eaves, Irene Gregia, Lucie PO-T-0 Gregen, David MR2-1 Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Grown, Derrick MR1-1 Alarno, Dalal MR1-1 Alarno, MR2-1 Alarno, MR2-1 Alarris, Les No. MR2-1		MR1-4
Galus, Michal. Gamperl, Kurt. Garo, Ge. PO-W-6 Garcia-Chaves, Carolina MF2-47 Gauthier, Joanna. PO-M-6 Gauthier, Patrick. MF5-4 Gettmann, Anja INV3-3 Gentes, Marie-Line Geritman, Anja Gentes, Marie-Line Gerge, Paul. PO-W-2 Germain, Rachel. PO-W-2 Giacomin, Marina IN2-6 Giacomin, Marina IN2-6 Giacomin, Marina IN2-6 Gialot, Alessandra CA1-1 Gibbons, Taylor Gibbons, Taylor Gibbons, Taylor Gibbons, Taylor Gilbelli, Julie. PO-T-6 Gibson, Gienys. CA1-0 Gilbelli, Julie. PO-T-7 Gilbons, Taylor Gilbelli, Aulie. MF5-1 Girard, Catherine. PO-M-5 Gilmour, Katie. MF5-1 Gorard, Jacken Gorrell, Jame PO-T-1 Gorss, Greg. IN1-1 Gostanda, Kiyoko. IN1-3 Gortand, Kiyoko. IN1-3 Goradis, Angela IN2-5 Gradish, Angela IN2-5 Grandsh, Angela IN2-5 Grandsh, Angela IN2-5 Grandsh, Angela IN2-5 Grandsh, Angela IN2-6 Grandsh, Angela IN2-7 Grandsh, Angela IN2-6 Grandsh, Marele-Héhen MR1-6 Gregory-Eaves, Irene Gray, Jack. MF5-1 Gregory-Eaves, Irene Grefard, Marie-Héhen MR1-6 Gregorie, Daniel MF5-1 Gregory-Eaves, Irene Grefard, Marie-Héhen MR1-6 Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Gregory-Eaves, Irene Grown, Derrick IN1-1 Hanna, Dalal Hans, Stephanie PO-W-6 Halliday William MR1-4 Hanna, Dalal Hans, Stephanie PO-W-6 Harry, Howele Harry, Howele Harry, Howele Harry, Howele Harry, Howele Harry, Howele Harry, Po-Ck. Harrison, Christopher Harry, Hanna, Chalal MR2-4 Harrison, Luke MR2-4 Harrison, Luke MR1-4 Harry, Po-Ck. MR2-4 Harrison, Christopher Harry, Howele Harry, Howele MR2-4 Harry, Po-Ck. MR2-4 Harry, Po-Ck. MR2-4 Harry, Brock. MR2-4 Harry, Howele MR2-4	Gallagher, Emily	IN1-1
Gamper, Kurt. Gao, Ge. PO-W-6 Garcia-Chaves, Carolina MF2-47 Gauthier, Joanna. PO-M-6 Garcia-Chaves, Carolina MF2-47 Gauthier, Joanna. PO-M-6 Garcia-Chaves, Carolina MF2-47 Gauthier, Joanna. PO-M-2 Geltmann, Anja. INV-3 George, Paul. PO-W-2 Giacomin, Marina. IN2-6 Giani, Alessandra. CA1-1 Gibelli, Julie Giobon, Tajvojor. Gilbon, Tajvojor. Gilbon, Tajvojor. Gilbon, Tajvojor. Gilbor, Matthew. PO-M-5 Gilbon, Marina. Gilbon, Marina. CA1-1 Gilbon, Matina. PO-W-2 Gilbor, Matthew. PO-M-5 Gilmour, Katie. MF5-1 Gorard, Jamie. Goral, Jamie. Goral, Jamie. Goral, Jamie. Goyette, Jean-Olivier. Gradi, Kayla. Gradi, Kayla. MR2-2 Gradinger, Tess. PO-T-2 Gradin, Mayla. MR2-4 Grainger, Tess. PO-T-2 Grandanos, Monica. MR1-0 Grant, James. MR2-2 Grainger, Tess. PO-T-2 Grant, James. MR2-3 Gray, Jack. MR2-1 Green, David. MR2-1 Grefer, David. MR2-1 Grefer, David. MR2-1 Grefer, Marie-Helène. MR2-1 Grefer, MR2-1 Grefor, David. MR2-1 Grefer, Marie-Helène. MR2-1 Grefor, David. MR3-1 Grefors, Jack. MR2-1 Grefor, David. MR3-1 Grefors, Jack. MR3-1		
Gao, Ge		
Garcia Chaves, Carolina MF2-47 Gauthier, Danna PO-M-6 Gauthier, Patrick. MF5-4 Geitmann, Anja INV-3 Gentes, Marie-Line IN1-5 George, Paul PO-W-2 Geroge, Paul PO-W-2 Giacomin, Marina IN2-6 Giani, Alessandra CA1-1 Giali, Julie PO-T-0 Gibbons, Tajolyor IN2-4 Gibbell, Julie PO-T-0 Gibber, Matthew PO-T-6 Gilbert, Matthew PO-T-1 Goldbogen, Jeremy CA2-4 Goldbogen, Jeremy CA2-4 Gorland, Kiyoko. IN1-1 Gorrell, Jamie PO-T-1 Goryette, Jamie PO-T-1 Goryette, Jamie PO-T-2 Goryette, Jamie PO-T-2 Goryette, Jamie PO-T-2 Goryette, Jamie PO-T-2 Goradi, Kiyoko. IN1-3 Gradi, Kiyoko. IN1-3 Gradish, Angela IN2-1 Gradish, Angela IN2-2		
Gauthier, Joanna		
Gauthier, Patrick Geitmann, Anja Geitmann, Anja Geitmann, Anja Geitmann, Anja Geitmann, Anja Geres, Marie-Line Sintia George, Paul PO-W-2 Geral, Rachel PO-W-2 Giacomin, Marina Gibbons, Taylor Silbelli, Julie PO-T-0 Gibbons, Taylor Silbens, Taylor Silbens		
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Groom, Derrick	Grégoire, Daniel	MF2-1
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Hanson, Dieta		
Harbicht, Andrew	Halliday, William	MR1-4
Hare, Alexander	Halliday, WilliamHanna, DalalHans, Stephanie	MR1-4 MF2-1 PO-W-6
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Harpur, Brock	Halliday, William	MR1-4MF2-1PO-W-6IN1-0CA2-7
Harrigan, Amye	Halliday, William	MR1-4MF2-1PO-W-6IN1-0CA2-7MF2-4
Harris, Les N	Halliday, William	MR1-4MF2-1NH2-1NH1-0CA2-7MF2-4NL2-5
Harris, Zack PO-W-2 Harrison, Grant PO-T-4 Harrison, Luke IN1-6 Harrison IN1-2 Hater, Julia IN1-2 Hater, Till IN1-1 Hater, Azadeh INF-2 Hater, Hayer, Wesley INR-1 Hauser, Wesley INR-1 Hayer, Tyrone INV-2 Heard, Stephen INR-2 Heard, Stephen INR-2 Heard, Stephen INR-2 Heath, Joel INR-2 Heath, Joel INR-2 Hebert, François Olivier INF-3 Hebert, Marie-Pier INF-3 Hebert, Marie-Pier INF-3 Hebert, Marie-Pier INR-1 Hebert, Marie-Pier INR-1 Hebert, Marie-Pier INR-1 Hebert, Warie-Pier INR-1 Herwet, Vincent INR-1 Herwet, Vincent INR-1 Herwet, Vincent INR-1 Herwet, Warie-Pier INR-1 Houde, Adam INR-1 Huth, Heather INR-2 Hudson, Jeff PO-T-3 Hugsband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-5 IN2-1
Harrison, Grant POT-5 Harrison, Luke IN1-6 Hart, Julia IN2-4 Harter, Till IN1-2 Hatter, Till IN1-2 Hatten, Ian GA2-5 Hauser, Wesley MR1-4 Hawysh, Peter PO-W-6 Hayes, Tyrone INV-2 Heard, Stephen MR2-4 Heath, Joel MR2-4 Heathcote, Adam MF2-4 Hébert, François Olivier PO-T-4 Hébert, Marie-Pier MF5-4 Heisher, Leanne MR1-1 Heisher, Leanne MR1-1 Herman, Adam IN1-1 Herran, Adam IN1-1 Herran, Adam IN1-1 Hookham, Brenda CA1-0 Houben, Adam MF2-1 Houben, Adam MF2-1 Houde, Aimee Lee IN2-6 Hudson, Jeff PO-T-3 Hugher, Ewilliam IN1-1 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-5 IN2-1 IN2-0 CA1-3
Harrison, Luke	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-5 IN2-1 IN2-0 CA1-3 IN2-0
Harter, Till	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-5 IN2-0 CA1-3 IN2-0 CA1-3
Hatef, Azadeh	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN1-0 IN2-1 IN2-0 IN2-1 IN2-0
Hatton, Ian	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0
Hauser, Wesley	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN1-0 IN2-0 IN2-0 IN2-1 IN2-0 IN1-0 IN2-0 IN1-0 IN2-0 IN1-0 IN2-0 IN1-0 IN1-0 IN1-0
Hawrysh, Peter PO-W-6 Hayes, Tyrone INV-2 Hayes, Tyrone INV-2 Heard, Stephen MR2-4 Heath, Joel MR2-4 Heath, Joel MR2-4 Heath, Joel MR2-4 Hebert, François Olivier PO-T-2 Hebert, Marie-Pier MF5-4 Hebert-Brassard, Cynthia PO-T-2 Heim, Amy CA1-4 Heisler, Leanne MR1-1 Henriques da Silva, Renato PO-M-5 Herman, Adam IN1-1 Hervet, Vincent MF5-2 Helyand, Andreas PO-W-5 Hicks, Barry MR1-1 Hookham, Brenda CA1-0 Hopkins, Gareth PO-T-0 Houben, Adam MF2-1 Houben, Mame Lee IN2-6 Houben, PO-T-0 Houben, Mame IN1-1 Hunt, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0
Hayes, Tyrone	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-5 IN2-1 IN2-0 IN3-0 IN3-0 IN3-0 IN3-0 IN4-0 IN4-0 IN5-0
Heard, Stephen. MR2-4 Heath, Joel MR2-4 Heathcote, Adam. MF2-4 Hebert, François Olivier PO-T-4 Hébert, François Olivier MF5-4 Hebert-Brassard, Cynthia PO-T-2 Heisier, Leanne MR1-1 Heisier, Leanne MR1-1 Herman, Adam IN1-1 Herran, Adam IN1-1 Hervet, Vincent MF5-2 Heyland, Andreas PO-W-5 Hookham, Brenda CA1-0 Hou, Lily PO-M-3 Hou, Lily PO-T-0 Houben, Adam MF2-1 Houber, Gwendolyn CA1-5 Hudson, Jeff PO-T-3 Hughes, P. William IN1-1 Hurt, Heather MF5-2 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0 IN3-0 IN2-0 IN3-0 IN3-0 IN4-0
Heath, Joel	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN2-1 IN2-0 CA1-3 IN2-0
Heathcote, Adam	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-9 IN2-9 IN2-0 IN1-0 IN2-0 IN1-0 IN1-0 IN2-0 IN1-0
Hébert, François Olivier PO-T-4 Hébert, Marie-Pier MF5-4 Hebert-Brassard, Cynthia PO-T-2 Heim, Amy CA1-4 Heiriques da Silva, Renato PO-M-5 Herran, Adam IN1-1 Hervet, Vincent MF5-2 Heyland, Andreas PO-W-5 Hookham, Brenda CA1-0 Hou, Lily PO-T-3 Houber, Adam MF2-1 Houber, Gwendolyn CA1-5 Hughes, P. William IN1-1 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0 IN1-0
Hébert, Marie-Pier MF5-4 Hebert-Brassard, Cynthia PO-T-2 Heim, Amy CA1-4 Heisler, Leanne MR1-1 Henriques da Silva, Renato PO-M-5 Herman, Adam IN1-1 Hervet, Vincent MF5-2 Heyland, Andreas PO-W-5 Hicks, Barry MR1-1 Hookham, Brenda CA1-0 Houbeins, Gareth PO-M-3 Houben, Adam MF2-1 Houde, Aimee Lee IN2-6 Hudson, Jeff PO-T-3 Hudson, Jeff PO-T-3 Hughes, P. William IN1-1 Hurt, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 MF2-4 MF2-6 IN1-0 CA2-7 MF2-4 IN2-1 IN2-0 CA1-3 IN2-0 IN2-1 IN2-0 CA1-3 IN2-0 IN2-0 IN1-6
Hebert-Brassard, Cynthia	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN2-1 IN2-0 IN1-0
Heim, Amy	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN1-0
Heisler, Leanne	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-6 IN2-5 IN2-6 IN3-6 IN3-6 IN4-6
Henriques da Silva, Renato	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN2-1 IN2-0
Hervet, Vincent	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN1-0 IN2-0 IN1-0
Heyland, Andreas PO-W-5 -flicks, Barry MR1-1 Hookham, Brenda CA1-0 -lopkins, Gareth PO-M-3 Hou, Lily PO-T-0 -louben, Adam MF2-1 -loude, Aimee Lee IN2-6 -luber, Gwendolyn CA1-5 -ludson, Jeff PO-T-3 -lughes, P. William IN1-1 -lunt, Heather MF5-4 -lurd, Peter CA2-0 -lusband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0
Hicks, Barry	Halliday, William	MR1-4 MF2-1 PO-W-6 MR1-4 MF2-1 PO-W-6 MF2-4 MF2-
Hookham, Brenda	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-5 IN2-1 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN2-0 IN1-0 IN1-1 IN1-1 IN1-1 IN1-1 IN1-1
Hopkins, Gareth PO-M-3 Iou, Lily PO-T-0 Houben, Adam MF2-1 Houde, Aimee Lee JN2-6 Huber, Gwendolyn CA1-5 Hudson, Jeff PO-T-3 Hughes, P. William JN1-1 Hunt, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0 IN2-1 IN2-0 IN2-4 IN1-6 IN2-4 IN1-6 IN2-4 IN1-6 IN2-4 IN1-6 IN2-4 IN1-6 IN2-1
Hou, Lily PO-T-0 Jouben, Adam MF2-1 Houde, Aimee Lee IN2-6 Huber, Gwendolyn CA1-5 Hudson, Jeff PO-T-3 Hughes, P. William IN1-1 Hunt, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN1-0 IN2-0 IN1-0 IN1-0 IN2-0 IN1-0
Houben, Adam	Halliday, William	MR1-4 MR2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN1-0 IN2-0 IN1-0 IN2-0 IN1-0 IN2-0 IN1-0 IN2-0 IN2-0 IN1-0 IN2-0 IN3-0
Houde, Aimee Lee	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 IN2-0 IN2-0 IN2-1 IN2-0
Huber, Gwendolyn CA1-5 Hudson, Jeff PO-T-3 Hughes, P. William IN1-1 Hunt, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MF2-1 PO-W-6 IN1-0 CA2-7 MF2-4 IN2-0 IN2-1 IN2-0 IN3-0
Hudson, Jeff PO-T-3 Hughes, P. William IN1-1 Hurth, Heather MF5-4 Hurd, Peter CA2-0 Husband, Brian PO-W-0	Halliday, William	MR1-4 MR2-1 PO-W-6 MR1-4 MR2-1 PO-W-6 MF2-4 MF2-4 MF2-4 MF2-4 MR1-4 MR1-1 MF5-2 MF2-4 MF3-4 MF3-4 MF3-4 MF3-4 MF3-4 MF3-4 MF3-4 MF3-1 MF3-2 MF3-3 MF3-2 MF3-3 MF3-2 MF3-3 MF3-
Hughes, P. William	Halliday, William	MR1-4 MF2-1 MF2-4 MF2-1 NR1-0 CA2-7 MF2-4 MF2-4 MF2-4 IN2-0 CA1-3 IN2-0 CA1-3 IN2-0 PO-W-5 IN1-6 IN1-6 IN2-4 MF2-4 MF3-4 MF3-4 PO-T-5 CA1-5 MR1-1 IN1-6 CA1-6 MR2-7 MR2-7 MR2-7 MR3-7 MR3-
Hunt, HeatherMF5-4 Hurd, PeterCA2-0 Husband, BrianPO-W-0	Halliday, William	MR1-4 MR2-4 MR2-1 NR2-6 MR1-4 MR2-1 IN2-0 IN2-6
Hurd, Peter	Halliday, William	MR1-4 MR2-4 MR2-1 NP-0-W-6 MR1-1 NR2-0 MR2-4 MR2-4 MR1-4 MR1-1 MR2-0 MR1-1 MR1-1 MR2-0 MR1-1 MR1-1 MR2-0 MR1-1
Husband, BrianPO-W-0	Halliday, William	MR1-4 MR2-1 PO-W-6 IN1-0 IN2-0 IN2-1 IN2-0 IN2-4 IN2-1 IN2-0 IN2-1 IN2-0 IN2-1 IN2-0 IN2-1 IN2-0 IN2-1 IN2-0 IN2-1 IN2-1 IN2-0 IN2-1 IN3-1
	Halliday, William	MR1-4 MR2-1 NP2-0 NR1-0 NR2-5 NR2-6 NR2-6 NR1-0 NR2-6 NR1-0 NR2-0 NR2-6 NR1-0 NR2-0 NR2-0 NR2-0 NR2-0 NR2-0 NR2-0 NR2-0 NR2-0 NR1-1 NR2-0 NR2-1 NR1-1 NR5-0 NR1-1 NR5-0 NR1-1 NR1-1 NR5-0 NR2-1 NR1-1 NR5-0 NR1-1 NR1-1 NR5-0 NR2-1 NR1-1 NR5-1 NR1-1 NR1-1 NR1-1 NR5-1 NR1-1
	Halliday, William	MR1-4 MR2-4 MR2-1 NR2-6 MR2-6 MR2-7 MF2-8 MR2-8 MR2-8 MR1-8 MR1-8 MR1-8 MR2-8

Ibarraran, Ana SofiaIrwin, Andrew	CA2-1!
Ison, Jennifer	
Iverson, Samuel	
lvy, Catherine	IN1-3
Jacob, Aerin	
Jakobs, Ruth James, Patrick	
Janes, Jasmine	
Jankowski, Jill	
Jean, Mélanie	
Jean, Pierre-Olivier	
Jeffery, Nick	
Jeffrey, Jennifer	MR2-3
Jiang, Zhigang	MF2-5
Johannsson, Ora	PO-T-1
Johnson, Ladd	
Johnson, Lucy	
Johnson, Sarah	
Johnston, Mark O Johnston, Tom	
Johnstone, Jill	
Joksimovic, Olivera	
Joly, Simon	
Jones, Natalie	
Jorquera, Erika	MR2-28
Josephs, Emily	
Juan-Pablo, Nino	
Judge, Kevin	CA1-1
Kaji, Tomonari	
Katzenback, Barb	
Kelley Amanda	
Kelley, AmandaKelly, Nicholas	
Kembel, Steven	
Kerr, Jeremy	
Kess, Joseph Anthony	
Khair, Shahira	
Kharouba, Heather	
Khawasik, Ola	
Kidd, Karen	
Kilgour, Julia	
Kim, Jinhong	
Kimber, Chris	
King, Wendy	
Kleynhans, Elizabeth	
Knee, Wayne	
Koen, Erin	
Koprivnikar, Janet Kovacevic, Nikolina	
Krause, Rachel	
Kubly, Kerry	
Kuhn, Jesper	
Kuparinen, Anna	
Kwong, Raymond	
- '	
Lachowsky, Leanna	CA2-48
Laforest-L., Isabelle	ME5-66
Laird, Rob	
	PO-T-2
Lait, Linda	PO-T-2:
Lajoie, Geneviève	PO-T-2: IN2-10
Lajoie, Geneviève Lamb, Eric	PO-T-2: IN2-1(IN1-6: MR1-6!
Lajoie, Geneviève	PO-T-22 IN2-10 IN1-6 MR1-69 PO-W-20
Lajoie, Geneviève	PO-T-2:IN2-10IN1-6:MR1-6:PO-W-20PO-W-20
Lajoie, Geneviève	PO-T-2:IN2-10IN1-6:MR1-6!PO-W-20MR1-6!
Lajoie, Geneviève	PO-T-2:IN2-16MR1-69PO-W-26MR1-69NT1-69MR1-69MR1-4
Lajoie, Geneviève Lamb, Eric. LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey. Lapierre, Jean-Francois Laporte, Martin.	PO-T-2: IN2-10: MR1-6: MR1-6: MR1-6: MR1-6: MF2-3: CA2-30:
Lajoie, Geneviève	PO-T-2: IN2-10 MR1-6: MR1-6: MR1-6: MF2-3: MF2-3: MR1-5:
Lajoie, Geneviève	PO-T-2: N1-6: MR1-6: MR1-6: MR1-6: MF2-3: MF2-3: MR1-5: MF2-5:
Lajoie, Geneviève	PO-T-2:PO-T-2:IN2-10MR1-6:MR1-6:MR1-6:MR1-6:MR1-6:MR1-6:MR2-3:
Lajoie, Geneviève	PO-T-2:
Lajoie, Geneviève	PO-T-2:PO-T-2:N1-6:MR1-6:MF2-3:MF2-5:MF2-5:MF5-2:MR5-2:MR1-5:MF2-5:MR1-5:MR1-5:MR1-5:
Lajoie, Geneviève	PO-T-2: IN2-10: IN1-6: MR1-6: MR1-6: MR1-6: IN1-4: MF2-3: MR1-5: INV-3: CA1-0: MR1-5: MR1-5: MR1-5:
Lajoie, Geneviève	PO-T-2: IN2-1(IN1-6) IN1-6 IN1-6 IN1-6 IN1-6 IN1-6 IN1-6 IN1-6 IN1-7 IN
Lajoie, Geneviève	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard	PO-T-2:
Lajoie, Geneviève	PO-T-2:
Lajoie, Geneviève	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Noung Wha Lefebvre, Claudine Legendre, Pierre	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe	PO-T-2:
Lajoie, Geneviève	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leelanc, Aaron Leclerc, Martin Leclerc, Martin Leclerc, Martin Leclerc, Martin Leclerc, Generic Lee, Lucy Lee, Richard Lee, Cy Lee, Richard Lee, Cyoung Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leo, Cordero, Rodrigo	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leelanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leen Cordero, Rodrigo Leroux, Shawn	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leelanc, Aaron Leclerc, Martin Leclerc, Martin Leclerc, Martin Leclerc, Martin Leclerc, Generic Lee, Lucy Lee, Richard Lee, Cy Lee, Richard Lee, Cyoung Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leo, Cordero, Rodrigo	PO-T-2:
Lajoie, Geneviève Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Lesoway, Maryna Leune, Christelle Lévesque, David Levivier, Aurore	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leavitt, Peter Lederc, Martin Leclerc, Coudine Lee, Lucy Lee, Richard Lee, Voung Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Leung, Christelle Lévesque, David Levivier, Aurore Levivier, Aurore Levis, Johanne	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Lellanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Ledger, Lisa Lee, Lucy Lee, Richard Lee, Voung Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Lesoway, Maryna Lesoway, Maryna Leveng, David Levivier, Aurore Lewis, Johanne Lewthwaite, Jayme	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leenoux, Shawn Lesoway, Maryna Leung, Christelle Lévesque, David Levivier, Aurore Lewis, Johanne Levet, Manne Levendre, Laure Levendre, Cardigo Levivier, Aurore Lewis, Johanne Levethwaite, Jayme Li, Anna	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Leung, Christelle Lévesque, David Levivier, Aurore Lewis, Johanne Lewthwaite, Jayrne Li, Anna. Lin, Yuan.	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter LeBlanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Ledger, Lisa Lee, Lucy Lee, Richard Lee, Voung Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Lesoway, Maryna Levivier, Aurore Lewis, Johanne Lewit, Johanne Lewthwaite, Jayme Li, Anna Lin, Yuan Lin, Yuan Lindeman, Amanda	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leavitt, Peter Leellanc, Aaron Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Lesonoro, Shawn Lesoway, Maryna Lesoway, Maryna Levivier, Aurore Lewis, Johanne Levivier, Aurore Levivier, Aurore Leviks, Johanne Levthwaite, Jayme Li, Anna Lin, Yuan Lindeman, Amanda Liorti, Andrew	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Leelerc, Martin Leclerc, Martin Leclerc, Martin Leclerc, Maxime Ledger, Lisa Lee, Lucy Lee, Richard Lee, Young Wha Lefebvre, Claudine Legendre, Pierre LeMoine, Christophe Leo, Sarah Leon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Leung, Christelle Lévesque, David Levivier, Aurore Lewis, Johanne Lewthwaite, Jayme Lin, Yuan Lindeman, Amanda Linr, Yuan Lindeman, Amanda Liorti, Andrew Liu, Jefrey Ling, Lagree Leund, Lagree Lambert Lagree Lewelle Leverence Lewing, Johanne Lewthwaite, Jayme Lindeman, Amanda Liorti, Andrew Liu, Qille Liorti, Andrew Liu, Qille Linderence Lewing, Andrew Liut, Andrew Liut, Andrew Liut, Andrew Liut, Andrew Liut, Andrew Liut, Andrew Liute, Lagree	PO-T-2:
Lajoie, Geneviève Lamb, Eric Lamb, Eric LaMontagne, Jalene Lamy, Thomas Lane, Jeffrey Lapierre, Jean-Francois Laporte, Martin Lavender, Mike Lawrence, Michael James Leavitt, Peter Leavitt, Peter Leavitt, Peter Lealer, Garon Leclerc, Martin Leclerc, Sarah Lenon Cordero, Rodrigo Leroux, Shawn Lesoway, Maryna Leung, Christelle Lévesque, David Levivier, Aurore Lewis, Johanne Lewthwaite, Jayme Li, Anna Lindeman, Amanda Liorti, Andrew Liut, Qi Llewellyn, Martin	PO-T-2:
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opez Villalobos, Adriana	
ow-Decarie, Etienne	
ucas, Katie	PO-W-3
undholm, Jeremy	
ynn, Brittany	
NacDonald, Amelia	MR1-1
NacDonald, Andrew	
NacDougall, Mark	
NacGregor, Katie	MR1-3
NacIvor, Scott	
NacLellan, Robyn	MF5-6
NacMillan, Heath	IN2-2
NacNeil, Katelyn	CA1-0
Maddin, Hillary	MF5-1
Nahalingam, Sajeni	MF5-15.
Malenfant, René	IN2-1
Nallik, Azim	MR2-1
Nanchester, Cody	MF2-1
Nandic, Milica	IN2-7
Maranger, Roxane	INV-1
Narchand, Philippe	MR1-2
Marin, Kia	
Marleau, Justin	
Narques, Adam	
Narshall, Katie	
Marshall, William	
Nartel, André L	
Nartinez, Mery	
Marushia, Robin	
Nassé, Stéphanie	
Nathers, Kate	
Лау, Lindsay	
Aay-McNally, Shannan	
AcAdam, Andrew	
AcCauley, Shannon	
AcConnachie, Sarah	
AcCormick, Stephen	
AcCracken, Gregory	
AcCusker, Megan	
AcDermid, Jenni	
AcDonald, Allison	
AcDonald, Jared	
AcDonnell, Laura	
AcGaw, lain	
AcGill, Brian	
AcGoey, Brechann	
AcGreer, Madeleine	
AcKat, Michelle	
AcKechnie, Irene	
AcKinnon, Alexander	
AcLaren, Nicole	
AcLauchlan, Christine	
AcLeod, Brenna	
AcLoughlin, Philip	
AcNickle, Gordon	
Mee, Jonathan	
Melnyk, Anita	
Melnyk-Lamont, Nataliya	
Merritt, Gillian	
Aller Labor	
Ailler, Joshua	
milette, ratie	MR2-2
Aillien, Virginie	
/limouni, El-Amine	
Altracek Italia	
Alynarek, Julia	
Noehring, Amanda	
Noffat, Chandra	
Aohan, Haneesha	
Mokkonen, Mikael	
Mooers, Arne	
Moore, Jean-Sébastien	
Norbey, Yolanda	
Morin, Felix	
Morrill, André	
Morris, Douglas	
Norton, Katie	
Noulton, Tyler	
Aueller, Casey	
Nuhametsafina, Alexandra	
Aullen, Emma	
Лиñoz, Nico	
Nunro, Daniel	
Nurphy, Grace	
Aurray, Brent	PO-W-0
Aurray, Dennis	MR1-2
Nyers, Judith	
Nyers-Smith, Isla	
Луrka, Alexander	PO-W-3

Nair, Neelima	IN1-3
Nanglu, Karma	
Narayan, Edward	
Narvaez, Carla	
Naujokaitis-Lewis, Ilona	
Neima, Sarah	
Nguyen, Trinh	
Nicklen, Paul	
Nosil, Patrik	
Nunes, Krystal Nyboer, Elizabeth	
Nyboei, Elizabetti	
O'Brien, Kelsey	CA2-4
O'Connor, Mary	
O'Donnell, Lisa	
Oke, Krista	
OʻNeill, Maeghan	
Ono, Jasmine Otis, Josée-Anne	
Ou, Michelle	
Oudin, Mathew	
Paccard, Antoine	
Palmer, Michelle	
Pamenter, Matthew Paguette, Laurence	
Pare, Kate	
Parker, Rebecca	
Parmelee, Samantha	
Paterson, Caitlin	
Patoine, Alain	
Pattison, Colin	
Pedersen, Eric	MR1-6
Pedruski, Michael	MR2-0
Peers, Michael	
Pelletier, Fanie	
Pellowe, Sarita	
Pemberton, Joshua	
Penney, Chantelle	
Penny, Faith Peralta, Haydee	
Peres-Neto, Pedro	
Perez-Jvostov, Felipe	
Perrault, Kerry	
Perron, Gabriel	
Peters, Andrew	
Petersen, Stephen	MR1-2
Pham-Ho, Phillip	PO-T-3
Philip, Anju	
Picoto, Joana	
Pigeon, Gabriel	
Pindar, Alana	
Poley, Jordan Postma, Lianne	
Potvin, Catherine	
Prairie, Yves	
Prentice, Melanie	
Prestie, Chance	
Proctor, Heather	CA1-1
Prokopenko, Christina	
Provencher, Jennifer	
Przytulska-Bartosiewicz, Anna	
	CA1-6
	CA1-6
Purchase, Craig	CA1-6
Purchase, CraigQuijada-Rodriguez, Alex	CA1-6
Purchase, Craig Quijada-Rodriguez, Alex Raboy, Becky Rafiqi, Ab Matteen	
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Puillet, Laurence. Purchase, Craig	

Romanow, Cora Anne	
Rose, Emily	
Ross, Alex	
Rousseau, Jean-Philippe	
Rowe, Genevieve	
Rundle, Howard	
Rutherford, Robert	
Ruttan, Ally	PO-W-08
5 1 1 1 At 1 1	1014 07
Sackville, Michael	
Sakamoto, KathySalisbury, Sarah	
Samani, Pedram	
Samarasin, Pasan	
Samis, Karen	
Sappal, Ravinder	
Sargent, Risa	
Sawatzky, Margaret	
Saylor, Brent	
Schamp, Brandon	
Schellenberg, Michael	
Schellinck, Jen	MF5-26
Schilling, Cory	MR2-32
Schindler, Daniel	INV-21
Schneider, Dylan	
Schoen, Daniel	
Schorno, Sarah	
Schram, Lyndsay	
Schulte, Patricia	
Searcy, Christopher	
Sears, Elizabeth Seidel, Dana	
Semple, Shawna Sessions, Katherine	
Shadwick, Robert	
Shamchuk, Angela	
Sharaf, Mahmoud	
Sharma, Sapna	
Sharp, Nathaniel	
Sharp, Diana	
Shartau, Ryan	
Shaughnessy, Ciaran	MR2-41
Shibel, Zoryana	
Shostak, Allen	MF5-37
Shute, Lauren	
Shutler, Dave	
Sim, Zijian	
Simon, Dana	
Simons, Andrew	
Simpson, Paul	IN1-09
6: 1: 5 .	
Sinclair, Brent	IN2-22
Sircom, Julie	IN2-22 CA1-40
Sircom, JulieSmall, Christopher	IN2-22 CA1-40 IN1-25
Sircom, Julie	IN2-22 CA1-40 IN1-25 IN1-60
Sircom, JulieSmall, Christopher	IN2-22 CA1-40 IN1-25 IN1-60 PO-M-10
Sircom, Julie	IN2-22 IN1-40 IN1-25 IN1-60 PO-M-10 CA1-37
Sircom, Julie. Small, Christopher. Smith, Alex. Smith, Frank. Snider, James. Sniderhan, Anastasia. Solomon, Chris.	IN2-22 IN1-25 IN1-60 PO-M-10 CA1-37 CA2-22
Sircom, Julie Small, Christopher Smith, Alex Smith, Frank Snider, James Sniderhan, Anastasia Solomon, Chris Somers, Christopher	IN2-22 CA1-40 IN1-25 IN1-60 PO-M-10 CA1-37 CA2-22 MF2-47.2
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Sircom, Julie. Small, Christopher. Smith, Alex. Smith, Frank. Snider, James. Sniderhan, Anastasia. Solomon, Chris. Somers, Christopher. Song, Zhuoyan. Sorensen, Lisa. Soulliere, Cheryl.	IN2-22IN1-25IN1-25IN1-60CA1-37CA2-22MF2-47.2IN2-40IN2-40IN1-20CA2-52
Sircom, Julie Small, Christopher Smith, Alex Smith, Frank Snider, James Sniderhan, Anastasia Solomon, Chris Somers, Christopher Song, Zhuoyan Sorensen, Lisa Soulliere, Cheryl Southcott, Laura	IN2-22IN1-25IN1-69CA1-37CA2-22MF2-47.2IN2-40PO-M-51CA2-52
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Sircom, Julie. Small, Christopher. Smith, Alex. Smith, Frank. Snider, James. Sniderhan, Anastasia. Solomon, Chris. Somers, Christopher. Song, Zhuoyan. Sorensen, Lisa. Soulliere, Cheryl. Southcott, Laura. Spall, Jennifer. Sperling, Felix. St. Louis, Excedera. Standen, Emily. Stecyk, Jonathan. Stefanovic, Dan. Steinaker, Diego. Stemberger, Tanya. Stephens, Jessica. Stewart, Don. Stoyek, Matthew. St-Pierre, Annick. Street, Garrett. Summers, Adam. Sunday, Jennifer. Syme, Doug. Szewciv, Lawrence. Tallman, Ross. Taranu, Zofia Ecaterina Taylor, Rebecca. Taylor, Rebecca. Taylor, Scott. Teitel, Zachary. Tessier, Laura. Tessier, Stephanie. Thiompson, Andrew. Thompson, Graham. Thompson, Graham. Thompson, Graham. Thompson, Graham. Thompson, Patrick.	
Sircom, Julie. Small, Christopher. Smith, Alex. Smith, Frank. Snider, James Sniderhan, Anastasia Solomon, Chris. Somers, Christopher. Song, Zhuoyan Sorensen, Lisa. Soulliere, Cheryl. Southcott, Laura Spall, Jennifer. Sperling, Felix. St. Louis, Excedera. Standen, Emily Stecyk, Jonathan Stefanovic, Dan Steinaker, Diego. Stemberger, Tanya. Stephens, Jessica. Stewart, Don Stoyek, Matthew St-Pierre, Annick. Street, Garrett Summers, Adam. Sunday, Jennifer. Suskiewicz, Thew Syme, Doug. Szewciw, Lawrence. Tallman, Ross. Taranu, Zofa Ecaterina Taylor, Scott Teitel, Zachary. Tessier, Laura Tessier, Stephanie Thiompson, Andrew. Thompson, Graham. Thompson, Graham. Thompson, Gratistina.	
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Tigano, Anna	MR1-33
Tittler, Rebecca	
Toews, David	
Tomalty, Heather	
Tombak, Kaia	
Tovey, Katelyn	IN1-21
Toxopeus, Jantina	
Tracey, Amanda	MR2-14
Treberg, Jason	
Tremblay, Isabelle	
Tremblay-Boyer, Laura	
Trottier, Gabrielle	
Tummon Flynn, Paula	
Tunnah, Louise	
Turcotte, Martin	
Turetsky, Merritt	
Turko, Andy	
Turley, Nash	
Turnbull, Matthew	
Tzaneva, Velislava	
12u1Cvu, vensiuvu	
Upham, Nathan	IN1-68
Urban, Mark	
Uusi-Heikkilä, Silva	
Ousi-i leikkila, Jiiva	WINZ-00
Vachon, Dominic	INV-40
Valois, Amanda	
Van Der Kraak, Glen	
Van Zuiden, Thomas	
Vander Wal, Eric	
Varela, Brandon	
Vaughan, Megan	
Vellend, Mark	
Velten, Brandy	
Vera-Escalona, Ivan	
Vergilino, Roland	
Vickery, William	
Viengkone, Michelle	
Vijayan, Matt	MF2-44
Vincent, Warwick	INV-20
Vo, Nguyen (Nathan)	PO-M-47
Wall, Nastashya	
Wadgymar, Susana M	INI-41.1
Wadgymar, Susana M	INI-41.1 MF2-63
Wadgymar, Susana M	INI-41.1 MF2-63 CA1-03
Wadgymar, Susana M	INI-41.1 MF2-63 CA1-03
Wadgymar, Susana M	INI-41.1 MF2-63 CA1-03 PO-W-30
Wadgymar, Susana M	INI-41.1 MF2-63 CA1-03 PO-W-30 MF2-57
Wadgymar, Susana M	NI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53
Wadgymar, Susana M	INI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53
Wadgymar, Susana M	INI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53MF2-18
Wadgymar, Susana M	INI-41.1MF2-63PO-W-30MF2-57CA1-53MF2-18IN2-26
Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette	INI-41.1MF2-63CA1-03MF2-57MF2-18MF2-18IN2-26CA1-70
Wadgymar, Susana M	INI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53MF2-18IN2-26CA1-70IN1-16
Wadgymar, Susana M	INI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53MF2-18IN2-26CA1-70IN1-16CA2-31
Wadgymar, Susana M	INI-41.1MF2-63CA1-03PO-W-30MF2-57CA1-53MF2-18IN2-26CA1-70IN1-16CA2-31IN2-69MF2-54
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan Willis, Jessica	INI-41.1
Wadgymar, Susana M	INI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda.	INI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Weich, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Fegan Willis, Jessica Wilson, Joanna. Winegardner, Amanda Winkler, Gesche	INI-41.1MF2-63
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette Wilhelm, Benjamin Wilkie, Michael. Williams, Tegan Willis, Jessica Willis, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wong, Edward	NI-41.1
Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welsh, Patrick. White, Easton Whitton, Jeannette. Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan. Willis, Jessica. Wilson, Joanna. Winegardner, Amanda. Winkler, Gesche Wolng, Edward. Wong, Edward. Wood, Chris M.	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda. Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth Wong, Edward Wood, Chris M.	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Welch, Kenneth. Welsh, Patrick. White, Easton Whitton, Jeannette Williams, Tegan Willis, Michael. Willis, Passica Willon, Joanna. Winegardner, Amanda. Winker, Gesche. Wolkovich, Elizabeth Wong, Edward Wood, Jacquelyn Wright, Michael.	
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Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilkie, Michael Wilkie, Michael Williams, Tegan Willis, Jessica. Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M Wood, Jacquelyn Wright, Michael Wright, Patricia Wyeth, Russell Xie, Jiasong	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Weis, Arthur Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M. Wood, Jacquelyn Wright, Michael Wright, Patricia Wyeth, Russell Xie, Jiasong	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Weis, Arthur. Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan. Willis, Jessica Wilson, Joanna. Winegardner, Amanda. Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth Wood, Larquelyn Wright, Michael. Wright, Michael. Wright, Patricia Wryth, Nichael. Wright, Patricia Wyeth, Russell. Xie, Jiasong. Xu, Charles Xu, Yelin.	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Weis, Arthur Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M. Wood, Jacquelyn Wright, Michael Wright, Patricia Wyeth, Russell Xie, Jiasong	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette Wilhelm, Benjamin Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M. Wood, Jacquelyn Wright, Michael Wright, Michael Wight, Michael Winkler, Gesche Wolkovich, Elizabeth Wong, Edward Wood, Jacquelyn Wright, Michael Wright, Patricia Wyeth, Russell Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Weis, Arthur. Welch, Kenneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda. Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth Wong, Edward Wood, Chris M. Wood, Jacquelyn Wright, Michael. Wright, Patricia Wyeth, Russell. Xie, Jiasong. Xu, Charles. Xu, Yelin. Xuereb, Amanda.	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette Wilhelm, Benjamin Wilkie, Michael. Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M. Wood, Jacquelyn Wright, Michael Wright, Michael Wight, Michael Winkler, Gesche Wolkovich, Elizabeth Wong, Edward Wood, Jacquelyn Wright, Michael Wright, Patricia Wyeth, Russell Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welch, Kenneth Welsh, Patrick White, Easton Whitton, Jeannette Wilhelm, Benjamin Wilkie, Michael Williams, Tegan Willis, Jessica Wilson, Joanna Winegardner, Amanda Winegardner, Amanda Wood, Chris M. Wood, Chris M. Wood, Chris M. Wood, Jacquelyn Wright, Michael Wright, Michael Wight, Edward Wood, Jacquelyn Wright, Michael Wright, Michael Wright, Michael Wright, Michael Wright, Michael Wright, Russell Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda Yalcin, Semra Yalcin, Semra Yalcin, Semra Yalcin, Semra	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welsh, Renneth Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin Wilkie, Michael Williams, Tegan Willis, Jessica Wilson, Joanna. Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wong, Edward Wood, Chris M. Wood, Jacquelyn Wright, Patricia Wyeth, Russell Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda Yalcin, Semra Yates, Matthew Zhang, Yueyang	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Weis, Arthur. Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan. Willis, Jessica. Wilson, Joanna. Winegardner, Amanda. Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth. Wood, Darquelyn Wright, Michael. Wright, Patricia Wyeth, Russell. Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda. Yalcin, Semra. Yates, Matthew. Zhang, Yueyang Ziegler, Jacob	NI-41.1
Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welsh, Ratrick. White, Easton Whitton, Jeannette. Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan. Willis, Jessica. Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M Wood, Jacquelyn Wright, Michael Wirght, Michael Wight, Michael Wight, Michael Woyd, Jacquelyn Wirght, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Semra Xie, Jiasong Xu, Yelin Xuereb, Amanda Yalcin, Semra Yates, Matthew Zhang, Yueyang Ziegler, Jacob Ziegler, Jacob Ziemer, Alex	NI-41.1
Wadgymar, Susana M. Weadick, Cameron Webster, Nicole. Wehtje, Morgan. Weihrauch, Dirk. Weis, Arthur. Weis, Arthur. Welsh, Patrick. White, Easton Whitton, Jeannette Wilhelm, Benjamin. Wilkie, Michael. Williams, Tegan. Willis, Jessica. Wilson, Joanna. Winegardner, Amanda. Winegardner, Amanda. Winkler, Gesche. Wolkovich, Elizabeth. Wood, Darquelyn Wright, Michael. Wright, Patricia Wyeth, Russell. Xie, Jiasong Xu, Charles Xu, Yelin Xuereb, Amanda. Yalcin, Semra. Yates, Matthew. Zhang, Yueyang Ziegler, Jacob	NI-41.1
Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welsh, Ratrick. White, Easton Whitton, Jeannette. Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan. Willis, Jessica. Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M Wood, Jacquelyn Wright, Michael Wirght, Michael Wight, Michael Wight, Michael Woyd, Jacquelyn Wirght, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Semra Xie, Jiasong Xu, Yelin Xuereb, Amanda Yalcin, Semra Yates, Matthew Zhang, Yueyang Ziegler, Jacob Ziegler, Jacob Ziemer, Alex	NI-41.1
Wadgymar, Susana M. Weadick, Cameron. Webster, Nicole. Wehtje, Morgan Weihrauch, Dirk. Weis, Arthur Welsh, Ratrick. White, Easton Whitton, Jeannette. Wilhelm, Benjamin. Wilkie, Michael Williams, Tegan. Willis, Jessica. Wilson, Joanna Winegardner, Amanda Winkler, Gesche Wolkovich, Elizabeth Wood, Chris M Wood, Jacquelyn Wright, Michael Wirght, Michael Wight, Michael Wight, Michael Woyd, Jacquelyn Wirght, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Michael Wight, Semra Xie, Jiasong Xu, Yelin Xuereb, Amanda Yalcin, Semra Yates, Matthew Zhang, Yueyang Ziegler, Jacob Ziegler, Jacob Ziemer, Alex	NI-41.1

EXHIBITORS EXPOSANTS



Location: Centre Mont-Royal, 3rd and 4th floors (Cartier & International foyers and Mont-Royal foyers, respectively)

Exhibit Schedule

Monday, May 26	10:00 – 18:00
Tuesday, May 27	10:00 – 18:00
Wednesday, May 28	10:00 – 18:00
Thursday, May 29	10:00 – 15:30

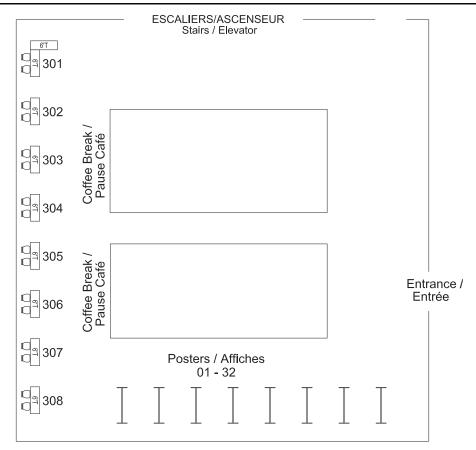
Lieu : Centre Mont-Royal, 3ème et 4ème étages (respectivement dans les foyers des salles Cartier & International, et foyers des salles Mont-Royal)

Horaire de l'exposition

Lundi 26 mai	10:00 – 18:00
Mardi 27 mai	10:00 – 18:00
Mercredi 28 mai	10:00 – 18:00
Jeudi 29 mai	10:00 – 15:30

3RD FLOOR (CARTIER & INTERNATIONAL FOYERS)

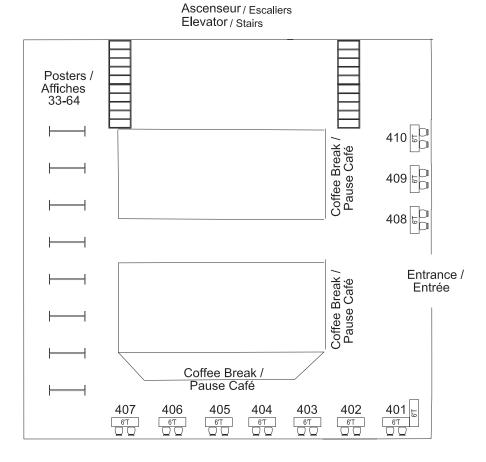
3ÈME ÉTAGE (FOYERS DES SALLES CARTIER & INTERNATIONAL)



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