



**CANADIAN LEAGUE AGAINST EPILEPSY
SCIENTIFIC MEETING**

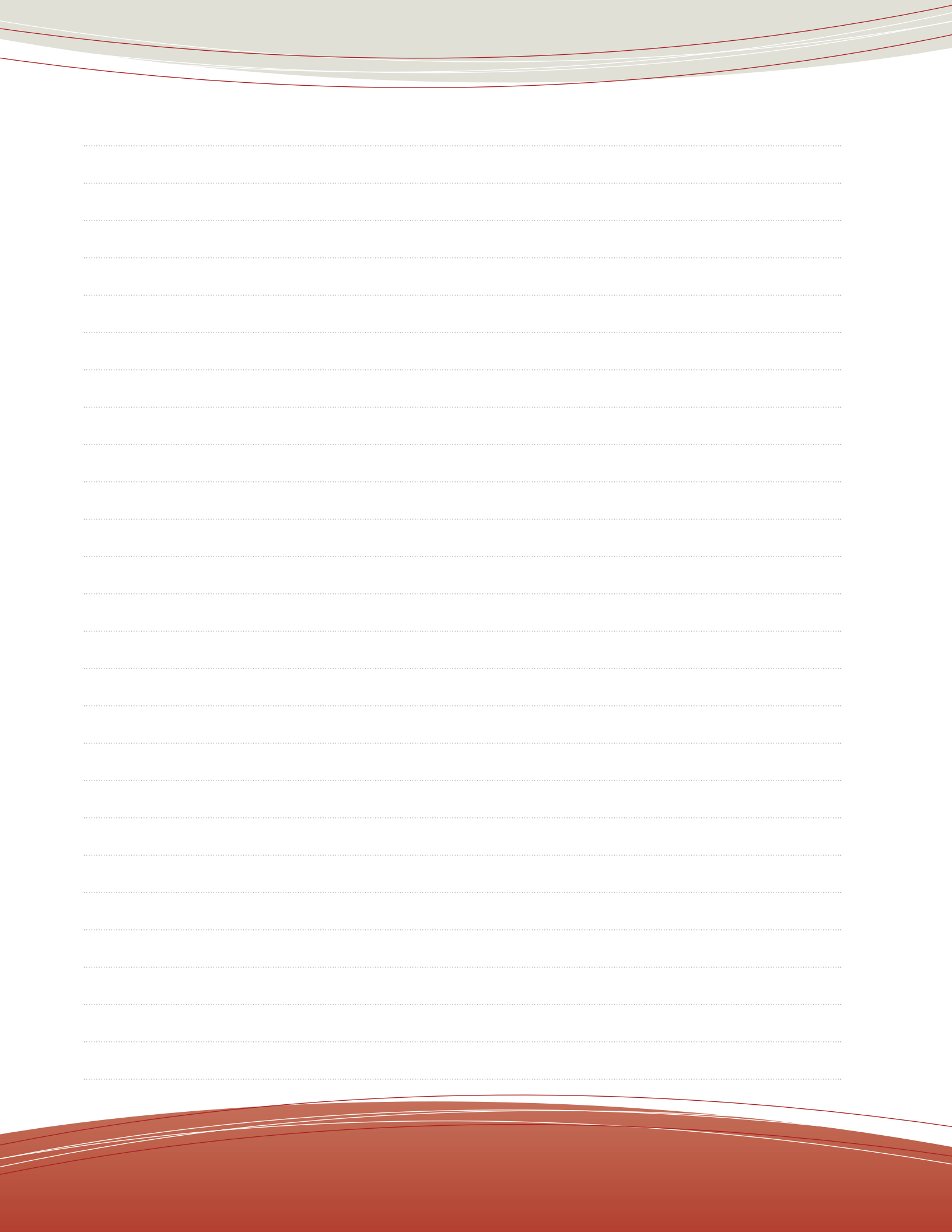
PROGRAM

OCTOBER 14 – 16, 2016
HOTEL PUR QUEBEC, QUEBEC CITY

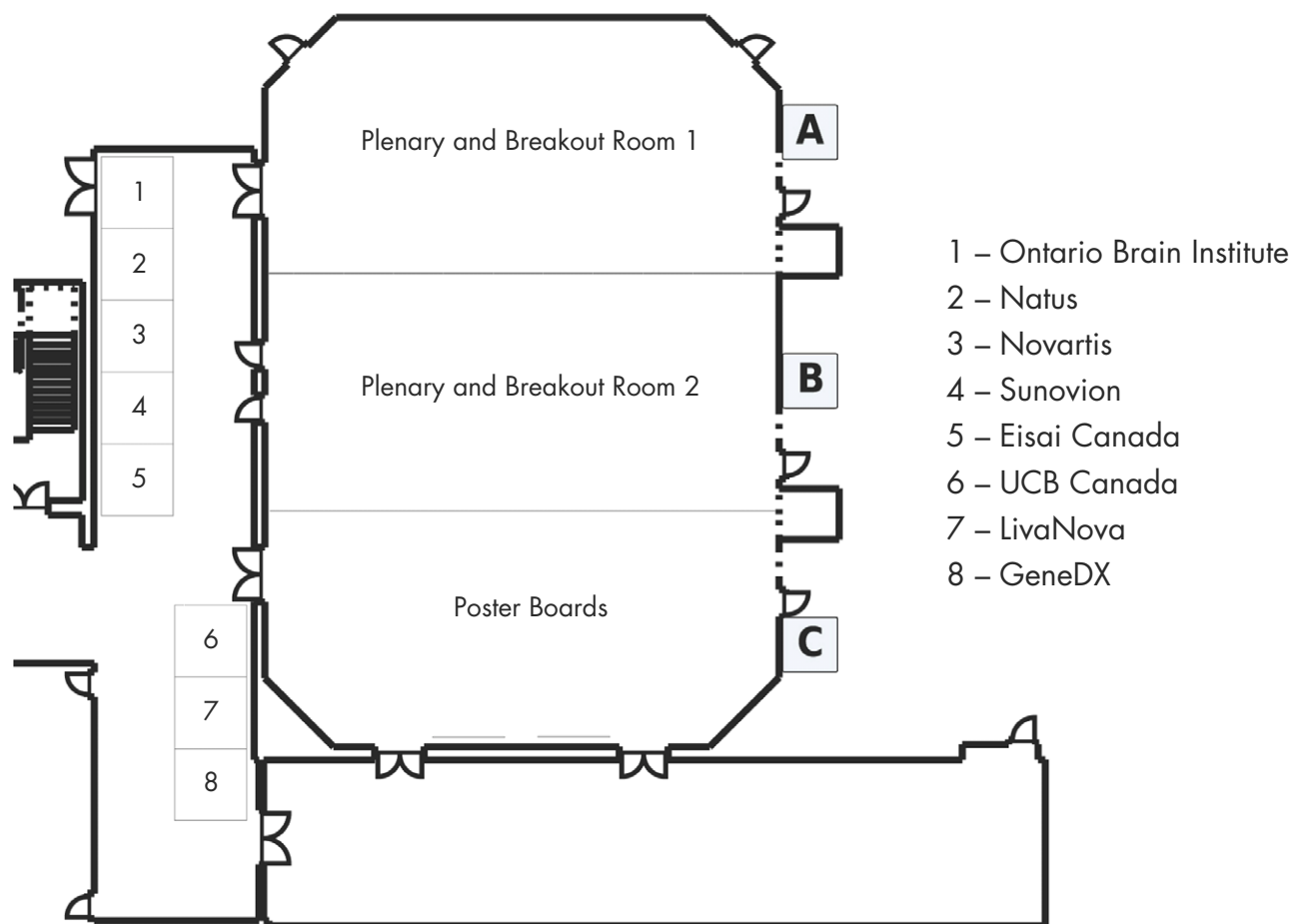
**LIGUE CANADIENNE CONTRE L'ÉPILEPSIE
RÉUNION SCIENTIFIQUE**

PROGRAMME

DU 14 AU 16 OCTOBRE 2016
HÔTEL PUR QUÉBEC, QUÉBEC



HOTEL FLOOR PLAN / PLAN DU SITE



WELCOME FROM THE PRESIDENT

Dear Friends and Colleagues,

It is my absolute pleasure, on behalf of the Canadian League Against Epilepsy (CLAE), to welcome you to the sixth scientific meeting of the CLAE in Quebec City in "la belle province."

I would like to take this opportunity to thank Dr. Paolo Federico our Director of Education and the education committee for helping us develop a program for this meeting that is broad in scope and very translational. There are sessions for everyone! Topics this year include non-epileptic events, medical marijuana, neuro-imaging, statistics, post-traumatic epilepsy, cognition in epilepsy, intracerebral EEG and non-invasive methods of localizing the seizure onset zone, challenging surgical epilepsy and semiology, SUDEP, genetics and why do seizures start and stop? A fun run for epilepsy has also been organized. Please join us all for this great event aimed at raising funds for epilepsy research, educational activities, and much more.

I invite all CLAE members to attend the Annual General Meeting on Friday, October 14, where our new Executive Board will be announced, followed by the presidential speech of our incoming President, Dr. Jorge Burneo. There will also be a CEA/CLAE session addressing the critical AED drug shortage issue immediately after the presidential speech. The evening of October 14 will conclude with the plenary talk by Dr. Markus Reuber of the University of Sheffield, on the topic of psychogenic non-epileptic seizures.

I wish you all a pleasant and productive time in Quebec City, and hope that you will have the opportunity to expand your collaborative network so that we can continue to work together to improve the lives of those living with epilepsy in Canada and beyond!

À très bientôt!

Sincerely,



Nathalie Jetté, MD, MSc, FRCPC
President, CLAE

2016 CLAE Board of Directors

Nathalie Jetté, President
 Jorge Burneo, President-Elect
 Nizam Ahmed, Past President
 Mary Lou Smith, Secretary
 José Tellez-Zenteno, Treasurer
 Paolo Federico, Director of Education
 Colin Josephson, Junior Member Representative
 Gail Dempsey, Canadian Epilepsy Alliance Representative
 Campbell Teskey, Canadian Epilepsy Research Initiative Representative
 Samuel Wiebe, International League Against Epilepsy Representative
 Kathy Speechley, Canadian Pediatric Epilepsy Network Representative
 Laura Jurasek, Canadian Epilepsy Nursing Group Representative

MOT DE BIENVENUE DE LA PRÉSIDENTE

Chers amis et collègues,

Au nom de la Ligue canadienne contre l'épilepsie (LCCE), j'ai le grand plaisir de vous accueillir à la sixième réunion scientifique de la LCCE à Québec, dans la « belle province ».

J'aimerais profiter de l'occasion pour remercier le Dr Paolo Federico, notre directeur de l'éducation, ainsi que le comité sur l'éducation de nous avoir aidés à élaborer un vaste programme très translationnel pour cette réunion. Il y a des présentations pour tous! Parmi les sujets abordés cette année, mentionnons les événements non épileptiques, la marijuana médicale, la neuroimagerie, la statistique, l'épilepsie ultérieure à un traumatisme, la cognition en matière d'épilepsie, l'EEG intracérébral et les méthodes non invasives pour localiser la zone d'où provient la crise épileptique, les cas complexes d'épilepsie chirurgicale et de sémiologie, la mort subite inattendue en épilepsie (MSIE), la génétique et pourquoi les crises épileptiques démarrent et s'arrêtent? Nous avons aussi organisé une course amicale pour l'épilepsie. Veuillez vous joindre à nous à l'occasion de cet événement exceptionnel visant à recueillir des fonds pour la recherche sur l'épilepsie, des activités éducatives et plus encore.

J'invite tous les membres de la LCCE à participer à l'Assemblée générale annuelle, qui aura lieu le vendredi 14 octobre. Nous y présenterons notre nouveau conseil de direction, puis le Dr Jorge Burneo, notre nouveau président, prononcera un discours. Après le discours du président, une session de l'ACE et de la LCCE abordera la pénurie de médicaments essentiels contre l'épilepsie. La soirée du 14 octobre se terminera par une conférence en plénière du Dr Markus Reuber, de l'Université de Sheffield, sur les crises psychogènes non épileptiques.

Je vous souhaite un séjour plaisant et productif à Québec. J'espère que vous aurez l'occasion d'agrandir votre réseau de collaboration afin de continuer à travailler ensemble pour améliorer la vie de ceux qui vivent avec l'épilepsie au Canada et à l'étranger!

À très bientôt!

Cordialement,



Nathalie Jetté, M.D., M. Sc., FRCPC
Présidente, LCCE

Conseil d'administration de la LCCE de 2016

Nathalie Jetté, présidente
Jorge Burneo, président élu
Nizam Ahmed, ancien président
Mary Lou Smith, secrétaire
José Tellez-Zenteno, trésorier
Paolo Federico, directeur de l'éducation
Colin Josephson, représentant des jeunes membres
Gail Dempsey, représentante de l'Alliance canadienne de l'épilepsie
Campbell Teskey, représentant de l'Initiative canadienne de recherche sur l'épilepsie
Samuel Wiebe, représentant de la Ligue internationale contre l'épilepsie
Kathy Speechley, représentante du Réseau canadien d'épilepsie pédiatrique
Laura Jurasek, représentante du Groupe canadien des sciences infirmières de l'épilepsie

WELCOME FROM THE DIRECTOR OF EDUCATION

Dear CLAE members and friends,

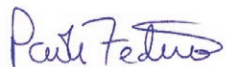
Welcome to the 2016 Canadian Epilepsy Meeting.

The CLAE scientific committee has organized an excellent program for the meeting, with a few new features. One main theme will include psychogenic non-epileptic seizures. Other topics will include marijuana and epilepsy, MR imaging in epilepsy, post-traumatic epilepsy, cognition in epilepsy, intracerebral EEG, SUDEP and mechanisms of seizure initiation and termination.

There are a few new features to the meeting this year, which include two short courses, one focusing on statistics and the other on genetics. These courses will be of widespread interest to all CLAE members. There will also be a breakfast session on Challenging Surgical and Seizure Semiology Cases and platform presentations from the four top-ranked trainee abstracts.

I hope that you will enjoy the meeting.

Sincerely,



Paolo Federico, MD, PhD, FRCPC, CSCN (EEG)
Director of Education, CLAE

2016 Scientific Meeting Committee

Paolo Federico, Chair
Peter Carlen
Richard Desbiens
Linda Huh
Neda Ladbon-Bernasconi
Mary Pat McAndrews
Bernd Pohlmann-Eden
Cam Teskey
Matt Wheatley

2016 Organizing Committee

Nathalie Jetté
Mary Lou Smith
José Tellez-Zenteno

MOT DE BIENVENUE DU DIRECTEUR DE L'ÉDUCATION

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Chers amis et membres de la LCCE,

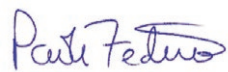
Bienvenue à la Réunion canadienne sur l'épilepsie de 2016.

Le comité scientifique de la LCCE a préparé un excellent programme pour la réunion. Il comprend quelques nouveautés. Un des thèmes principaux est celui des crises psychogènes non épileptiques. Parmi les autres thèmes, mentionnons la marijuana et l'épilepsie, l'IRM pour l'épilepsie, l'épilepsie ultérieure à un traumatisme, la cognition et l'épilepsie, l'EEG intracérébral, la mort subite inattendue en épilepsie (MSIE), et les mécanismes qui démarrent et mettent fin aux crises.

La réunion de cette année comporte quelques nouveautés, comme deux nouveaux cours, un sur la statistique et l'autre sur la génétique. Ces cours seront d'intérêt pour tous les membres de la LCCE. Pendant le déjeuner, il y aura aussi une séance sur les cas complexes de chirurgie et de sémiologie des crises épileptiques et les quatre meilleurs résumés de nos stagiaires seront présentés.

J'espère que vous apprécierez la réunion.

Cordialement,



Paolo Federico, M.D., Ph. D., FRCPC, SCNC (EEG)
Directeur de l'éducation, LCCE

Comité de la réunion scientifique de 2016

Paolo Federico, président
Peter Carlen
Richard Desbiens
Linda Huh
Neda Ladbon-Bernasconi
Mary Pat McAndrews
Bernd Pohlmann-Eden
Cam Teskey
Matt Wheatley

Comité organisateur de 2016

Nathalie Jetté
Mary Lou Smith
José Tellez-Zenteno

2016 CANADIAN LEAGUE AGAINST EPILEPSY SCIENTIFIC MEETING

The Canadian League Against Epilepsy (CLAE) is one of 98 chapters of the International League Against Epilepsy (ILAE). The CLAE is an organization of medical and basic sciences professionals counting more than 175 members including physicians, basic scientists and other researchers, nurses, neuropsychologists, students and other health professionals. Our members are all keen to take advantage of their passion and their knowledge in their respective fields to better respond to various basic needs of the epilepsy population, present and future. We also work in collaboration with several organizations such as the Canadian Epilepsy Alliance (CEA), the American Epilepsy Society and the North American Commission of the ILAE. The Canadian Epilepsy Meeting is the largest Canadian meeting of those who share the common scientific and clinical interests of epilepsy and clinical neurophysiology.

MISSION STATEMENT

Our goal is to develop, through research, innovative therapeutic and preventative strategies to avoid the consequences of epilepsy. We also want to translate these discoveries into applicable therapies for all Canadians. Finally, we want to promote national awareness and educate all Canadians about epilepsy and its consequences in collaboration with the Canadian Epilepsy Alliance.

POLICY ON COMMERCIAL SUPPORT AND CONFLICT OF INTEREST

All presenters and planners are required to disclose any conflict of interest during their presentations.

EXHIBITS

Meeting participants will have an ideal opportunity to learn about the latest in pharmaceutical, publications, scientific equipment and technology relevant to the field of epilepsy and neurophysiology. The commercial exhibits will take place on Friday October 14 from 4:00 p.m. – 5:00 p.m., Saturday, October 15 from 7:30 a.m. – 4:45 p.m. and Sunday, October 16 from 8:00 a.m. – 12:00 p.m.

ACCREDITATION

This event is approved for up to 13.5 credits by the Office for Continuing Professional Development. The Office for CPD, Faculty of Medicine, McGill University is fully accredited by the Committee on Accreditation of Canadian Medical Education (CACME).

This event is an Accredited Group Learning Activity as defined by the Maintenance of Certification program of the Royal College of Physicians and Surgeons of Canada.

Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™. Information on the process to convert Royal College MOC credit to AMA credit can be found at www.ama-assn.org/go/internationalcme. Each physician should claim only credit commensurate with the extent of their participation in the activity.

RÉUNION SCIENTIFIQUE DE LA LIGUE CANADIENNE CONTRE L'ÉPILEPSIE DE 2016

La Ligue canadienne contre l'épilepsie (LCCE) est l'une des 98 sections de la Ligue internationale contre l'épilepsie (LIE). La LCCE est un organisme regroupant plus de 175 professionnels de la médecine et des sciences fondamentales, notamment des médecins, des spécialistes des sciences fondamentales et d'autres chercheurs, des infirmières, des neuropsychologues, des étudiants et d'autres professionnels de la santé. Nos membres ont tous à cœur de tirer profit de leur passion et de leurs connaissances dans leurs domaines pour mieux répondre aux divers besoins de base de la population atteinte d'épilepsie actuelle et future. Nous travaillons aussi en collaboration avec plusieurs organisations, dont l'Alliance canadienne de l'épilepsie (ACE), l'American Epilepsy Society et la Commission nord-américaine de la LIE. La Réunion canadienne sur l'épilepsie est le plus grand rassemblement canadien de personnes qui s'intéressent à l'épilepsie et à la neurophysiologie clinique d'un point de vue scientifique et clinique.

ÉNONCÉ DE MISSION

Notre but est de développer, au moyen de la recherche, des stratégies thérapeutiques et préventives novatrices pour éviter les conséquences de l'épilepsie. Nous voulons aussi transformer ces découvertes en des thérapies pouvant être offertes à tous les Canadiens. Enfin, nous voulons promouvoir la sensibilisation nationale et éduquer tous les Canadiens sur l'épilepsie et ses conséquences en collaboration avec l'Alliance canadienne de l'épilepsie.

POLITIQUE SUR L'APPUI COMMERCIAL ET LES CONFLITS D'INTÉRÊTS

Tous les présentateurs et les planificateurs doivent divulguer tout conflit d'intérêts pendant leurs présentations.

EXPOSITION

Les participants à la réunion auront la chance d'apprendre au sujet des nouveautés en matière de produits pharmaceutiques, de publications, de matériel scientifique et des technologies ayant trait au domaine de l'épilepsie et de la neurophysiologie. L'exposition commerciale aura lieu le vendredi 14 octobre de 16 h à 17 h, le samedi 15 octobre de 7 h 30 à 16 h 45 et le dimanche 16 octobre de 8 h à 12 h.

AGRÈMENT

Cette activité est accréditée pour 13.5 crédits par le bureau de Développement professionnel continu. Le bureau de DPC de la Faculté de médecine de l'Université McGill est autorisé par le Comité d'agrément pour l'éducation médicale continue (CAÉMC).

Cette activité est une activité de formation collective agréée, aux termes de la section 1 du programme de Maintien du certificat du Collège royal des médecins et chirurgiens du Canada.

En vertu d'une entente conclue entre le Collège royal des médecins et chirurgiens du Canada et l'American Medical Association, les médecins peuvent convertir les crédits obtenus au titre du programme de MDC du Collège royal en crédits de catégorie 1 de l'AMA PRA^{MC}. Vous trouverez l'information sur le processus de conversion des crédits du programme de MDC du Collège royal en crédits de l'AMA à l'adresse www.ama-assn.org/go/internationalcme. Chaque médecin doit demander des crédits seulement pour le nombre d'heures où il/elle a participé à l'activité de formation.

OVERALL LEARNING OBJECTIVES

- To learn about the etiology, diagnosis and management of psychogenic non-epileptic seizures, SUDEP and post-traumatic epilepsy.
- To discuss the up-to-date management of epilepsy.
- To learn about the different advances in neuroimaging and EEG techniques in the assessment of patients with epilepsy.
- To become familiar with the latest developments in cognition related to epilepsy.
- To learn about the latest and emerging basic science and clinical research discoveries in the field of epilepsy.
- To learn about basic concepts about statistics and genetics as they relate to epilepsy.
- To enhance interactions among health professionals and researchers in varied disciplines of epilepsy.
- To learn about the current state of epilepsy care across the country.

OBJECTIFS D'APPRENTISSAGE GLOBAUX

- Se familiariser avec l'étiologie, le diagnostic et la gestion des crises psychogènes non épileptiques, de la mort subite inattendue en épilepsie (MSIE) et de l'épilepsie ultérieure à un traumatisme.
- Discuter de la gestion courante de l'épilepsie.
- Prendre connaissance des divers progrès en matière de techniques de neuroimagerie et d'EEG pour l'évaluation des patients atteints d'épilepsie.
- Connaître les dernières découvertes dans le domaine de la cognition concernant l'épilepsie.
- Se familiariser avec les nouvelles et récentes découvertes de la science fondamentale et de la recherche clinique dans le domaine de l'épilepsie.
- Connaître les notions de base de statistique et de génétique concernant l'épilepsie.
- Renforcer l'interaction entre les chercheurs et les professionnels de la santé de différentes disciplines de l'épilepsie.
- Faire le point sur la situation actuelle des soins relatifs à l'épilepsie dans tout le pays.

PROGRAM

Friday, October 14, 2016

TIME	DESCRIPTION
4:00 p.m. Salon Foyer	CONFERENCE REGISTRATION AND EXHIBITS
5:00 p.m. Salon AB	CLAE ANNUAL GENERAL MEETING (Members Only)
5:55 p.m. Salon AB	WELCOME Dr. Nathalie Jetté, CLAE President
6:00 p.m. Salon AB	PRESIDENTIAL LECTURE Dr. Jorge Burneo, incoming CLAE President
6:30 p.m. Salon AB	CEA AND CLAE SESSION: AED DRUG SHORTAGES – PATIENT IMPACT, COLLABORATIVE STRATEGY AND THE WAY FORWARD Ms. Deirdre Floyd (CEA), Dr. Nathalie Jetté (CLAE, University of Calgary), Dr. Suzanne Nurse (CEA) and Dr. Carter Snead (CLAE, University of Toronto, The Hospital for Sick Children) <ul style="list-style-type: none"> • History of drug shortage • Impact on patients • Current initiatives to respond to drug shortage • The way forward • Discussion with audience
7:00 p.m. Plenary Salon AB	PSYCHOGENIC NON-EPILEPTIC SEIZURES – FROM ETIOLOGY TO TREATMENT Dr. Markus Reuber, University of Sheffield LEARNING OBJECTIVES: <ul style="list-style-type: none"> • Know that psychogenic non-epileptic seizures are heterogeneous in terms of etiology, manifestations, treatment needs and outcomes. • Know that most psychogenic non-epileptic seizure disorders are manifestations of abnormal emotion processing. • Know that how patients describe their seizures can provide important clues about etiology and inform an optimal approach to treatment.
8:00 p.m.	WRAP-UP FOR THE DAY

PROGRAM

Saturday, October 15, 2016

TIME	DESCRIPTION
6:30 a.m.	<p>CLAE FUN RUN/WALK Join us for the inaugural CLAE Fun Run/Walk! <i>Meet at 6:15 a.m. in the lobby of the Hotel PUR</i></p>
7:30 a.m. Salon Foyer	<p>REGISTRATION AND BREAKFAST</p>
8:30 a.m. Plenary Salon AB	<p>CURRENT CONCEPTS IN DIAGNOSIS AND MANAGEMENT OF NON-EPILEPTIC EVENTS Chair: Dr. José Tellez-Zenteno, University of Saskatchewan</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Review the best available evidence regarding the diagnosis and management of patients with non-epileptic events. • Learn key aspects in the prognosis of pediatric and adult patients with non-epileptic events. • Learn about epidemiological aspects of patients with non-epileptic events. • Learn about the most accepted treatments for patients with non-epileptic events. <p>TARGET AUDIENCE: Neurologists, neuropsychologists, psychologists, psychiatrists, nurses and social workers.</p> <p>TOPICS AND SPEAKERS:</p> <p>Epidemiological Aspects of Patients with Non-Epileptic Events Dr. José Tellez-Zenteno, University of Saskatchewan</p> <p>A Perspective of Diagnosis and Management of Adult Patients with Non-Epileptic Events Dr. Markus Reuber, University of Sheffield</p> <p>A Perspective of Diagnosis and Management of Pediatric Patients with Non-Epileptic Events Dr. Mary Connolly, University of British Columbia</p> <p>What is the Best Treatment for Patients with PNES? Dr. Thomas Snyder, University of Alberta</p>
10:15 a.m. Salon Foyer	<p>BREAK AND EXHIBITS</p>
10:30 a.m.	<p>BREAKOUT SESSIONS</p>
Session 1 Salon A	<p>IS MARIJUANA USEFUL FOR THE TREATMENT OF EPILEPSY IN ADULTS? Chair: Richard McLachlan, Western University</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Learn the history and politics of marijuana use. • Learn the basic science of the endocannabinoid system. • Learn the evidence for efficacy and toxicity of marijuana. • Learn how medical marijuana is prescribed in Canada. <p>TARGET AUDIENCE: Neurologists, psychologists, scientists, fellows, residents, nurses and patient advocates.</p>

PROGRAM

Saturday, October 15, 2016

TIME	DESCRIPTION
10:30 a.m.	BREAKOUT SESSIONS (cont'd)
Session 1 Salon A	<p>TOPICS AND SPEAKERS:</p> <p>History of Marijuana and Seizures Richard McLachlan, Western University</p> <p>Physiology and Pharmacology of Cannabis Dr. Mac Burnham, University of Toronto</p> <p>Case for Medical Marijuana in Epilepsy Dr. José Tellez-Zenteno, University of Saskatchewan</p> <p>Case Against Medical Marijuana in Epilepsy Dr. Mark Sadler, Dalhousie University</p>
Session 2 Salon B	<p>BAD SEIZURES BUT NON-DIAGNOSTIC MRI – WHAT TO DO? Chair: Dr. Andrea Bernasconi, McGill University</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Identify the clinical challenges associated with the pre-surgical evaluation of non-diagnostic MRI. • Learn the newest non-invasive imaging techniques allowing to characterize brain structure and function. • Learn the MRI characteristics of subtle, often overlooked epileptogenic lesion. • Learn the role of MRI in accelerating referrals to specialized epilepsy centres. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, neuroradiologists, neuropsychologists, scientists, fellows, residents and nurses.</p> <p>TOPICS AND SPEAKERS:</p> <p>Advanced Structural MRI: Converting Negative to Positive MRI Dr. Neda Ladbon-Bernasconi, McGill University</p> <p>Non-Structural Evidence of Seizure Focus: The Role of Functional Imaging Dr. Paolo Federico, University of Calgary</p> <p>The Importance of Assessing White Matter Integrity: The Role of Diffusion Imaging Dr. Donald Gross, University of Alberta</p> <p>Linking Histology to in Vivo MRI Dr. Ali Khan, Western University</p>
12:15 p.m. Salon Foyer	LUNCH AND EXHIBITS
12:30 p.m. Salon C	POSTER TOUR

PROGRAM

Saturday, October 15, 2016

TIME	DESCRIPTION
1:30 p.m. Salon AB	<p>TOP TRAINEE ABSTRACT PRESENTATIONS Chair: Dr. Paolo Federico, University of Calgary</p> <ol style="list-style-type: none"> Gradual Alterations of Structural-Functional Brain Networks in the Spectrum of Cortical Malformations Dr. SeokJun Hong, McGill University Structure-Function Analysis along Hippocampal Subfield Surfaces in Temporal Lobe Epilepsy Boris Bernhardt, Montreal Neurological Institute Population-Based Registry of SUDEP in Children Robyn Whitney, University of Toronto Heart Rate Variability in Patients with Sodium Channel Mutations Who Suffer SUDEP Kenneth Myers, University of Melbourne
2:30 p.m. Salon Foyer	<p>BREAK AND EXHIBITS</p>
2:45 p.m.	<p>BREAKOUT SESSIONS</p>
Session 3 Salon A	<p>STATISTICS COURSE Chairs: Dr. Colin Josephson, University of Calgary and Dr. Boris Bernhardt, McGill University</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Understand core concepts of statistical analysis and how to effectively visualize data. • Understand how to carry out a systematic review and meta-analysis. • Understand the statistical machinery underlying morphometric and network-based neuroimaging analysis. • Understand the two major categories of machine learning, their applications and common pitfalls. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, neuropsychologists, scientists, fellows and residents.</p> <p>TOPICS AND SPEAKERS:</p> <p>Lies, Damned Lies and Statistics Dr. Boris Bernhardt, McGill University</p> <p>Systematic Reviews and Meta-Analysis Dr. Colin Josephson, University of Calgary</p> <p>Statistical Analysis for Neuroimaging Data Dr. SeokJun Hong, McGill University</p> <p>Big Data Analysis and Machine Learning Dr. Jordan Engbers, University of Calgary</p>

PROGRAM

Saturday, October 15, 2016

TIME	DESCRIPTION
2:45 p.m.	BREAKOUT SESSIONS (cont'd)
Session 4 Salon B	<p>POST-TRAUMATIC SEIZURES AND EPILEPSY Chairs: Dr. Aylin Reid, University of Toronto</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • To review the diagnosis and management of early post-traumatic seizures. • To review the epidemiology, clinical presentation and risk factors for post-traumatic epilepsy. • To discuss the diagnostic work-up of patients with post-traumatic epilepsy. • To discuss medical and surgical approaches in treating post-traumatic epilepsy. • To review mechanistic factors and experimental treatments being investigated in animal models of post-traumatic epilepsy. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, scientists, residents, fellows and nurses.</p> <p>TOPICS AND SPEAKERS:</p> <p>Post-Traumatic Seizures and Epilepsy in the Developing Brain Dr. Michael Esser, University of Calgary</p> <p>Clinical Management of Post-Traumatic Epilepsy Dr. Jorge Burneo, Western University</p> <p>Surgical Management of Post-Traumatic Epilepsy Dr. David Steven, Western University</p> <p>Experimental Models of Post-Traumatic Epilepsy Dr. Aylin Reid, University of Toronto</p>
4:30 p.m. Salon Foyer	BREAK AND EXHIBITS
4:45 p.m.	BREAKOUT SESSIONS
Session 5 Salon A	<p>COGNITION IN EPILEPSY: NEW INSIGHTS Chairs: Dr. Marilyn Jones-Gotman, McGill University and Dr. Mary Pat McAndrews, University of Toronto</p> <p>LEARNING OBJECTIVES: To become familiar with new research regarding the following aspects of cognition in children and adults with epilepsy:</p> <ul style="list-style-type: none"> • the incidence and type of cognitive deficits associated with new onset epilepsy; • cognitive deficits and aging; • the nature and implications of accelerated long term forgetting; • social cognition; and • an approach to remediating cognitive deficits. <p>TARGET AUDIENCE: Neurologists, neuropsychologists, psychologists, scientists, fellows, nurses and social workers.</p>

PROGRAM

Saturday, October 15, 2016

TIME	DESCRIPTION
4:45 p.m.	BREAKOUT SESSIONS (cont'd)
Session 5 Salon A	<p>TOPICS AND SPEAKERS:</p> <p>Cognition in New Onset Epilepsy (in Adults and Children) Dr. Antonina Omisade, Nova Scotia Health Authority and Dr. Nicole Taylor, University of Manitoba</p> <p>Effects of Long-Term Epilepsy and of Temporal-Lobe Resection on Cognitive Aging Dr. Marilyn Jones-Gotman, McGill University</p> <p>Accelerated Long Term Forgetting (in Adults and Children) Dr. Mary Pat McAndrews, University of Toronto and Dr. Mary Lou Smith, University of Toronto</p> <p>Social Cognition: An Under-Assessed Area in Epilepsy Dr. Melanie Cohn, University of Toronto</p> <p>Cognitive Remediation and Short-Term Outcomes in Children Dr. Elizabeth Kerr, University of Toronto</p>
Session 6 Salon B	<p>LOOKING INSIDE THE BRAIN: FROM INTRACEREBRAL EEG TO NON-INVASIVE METHODS Chairs: Dr. François Dubeau, McGill University</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Learn about normal intracerebral EEG patterns. • Learn about the interpretation of intracerebral EEG in its traditional form. • Learn about new developments in intracerebral EEG (high frequency oscillations). • Learn about the EEG-fMRI technique. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, neurophysiologists, fellows and scientists.</p> <p>TOPICS AND SPEAKERS:</p> <p>The Normal Intracerebral EEG in Different Brain Regions Dr. Birgit Frauscher, Queen's University</p> <p>Analyzing and Interpreting the Seizure Onset in Intracerebral EEG Dr. Philippe Kahane, University of Grenoble</p> <p>When Can Interictal Activity Be a Sufficient Marker of the Epileptogenic Zone Dr. Richard Wennberg, University of Toronto</p> <p>New Intracranial EEG Markers: HFOs, Very Slow Activity Dr. Jean Gotman, McGill University</p> <p>Can EEG-fMRI Tell us What the Intracerebral EEG will Find? Dr. Hui Ming Khoo, McGill University</p>
6:30 p.m.	WRAP-UP FOR THE DAY
7:30 p.m.	<p>CLAE RECEPTION AND GALA DINNER (Tickets must be purchased in advance) Hotel PUR Reception, Salon J Dinner, Salon AB</p>

PROGRAM

Sunday, October 16, 2016

TIME	DESCRIPTION
7:00 a.m. Salon Foyer	BREAKFAST (open until 8:30am)
7:15 a.m. Salon AB	<p>CHALLENGING SURGICAL AND SEIZURE SEMIOLOGY CASES Chairs: Dr. David Steven, Western University and Dr. Mark Sadler, Dalhousie University</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Describe the diagnostic work-up for patients being considered for epilepsy surgery. • List the reasons for failure of epilepsy surgery. • Describe the diagnostic work-up in patients who have failed previous epilepsy surgery. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, neuropsychologists, fellows, residents and nurses.</p> <p>TOPICS AND SPEAKERS:</p> <p>Case 1 Dr. Alain Bouthillier, Université de Montréal</p> <p>Case 2 Dr. Walter Hader, University of Calgary</p>
8:30 a.m. Plenary Salon AB	<p>SUDEP Chair: Dr. Elizabeth Donner, University of Toronto</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • To become familiar with potential biomarkers to identify those at risk of death from epilepsy. • To discuss neurophysiologic features associated with cerebral shutdown and mortality risk. • To identify genetic factors contributing to death in epilepsy. • To describe the role of seizures involving brainstem structures in mortality risk. <p>TARGET AUDIENCE: Neurologists, neuropsychologists, psychologists, residents, fellows, nurses and social workers.</p> <p>TOPICS AND SPEAKERS:</p> <p>Case Presentations Invited trainees</p> <p>What are the Genetic Risk Factors for SUDEP? Dr. Danielle Andrade, University of Toronto</p> <p>Do Brainstem Seizures Contribute to Mortality in Epilepsy? Dr. Peter Carlen, University of Toronto</p> <p>Postictal Generalized EEG Suppression and Cerebral Shutdown – A Potential Biomarker for SUDEP? Dr. Elizabeth Donner, University of Toronto</p>

PROGRAM

Sunday, October 16, 2016

TIME	DESCRIPTION
10:15 a.m. Salon Foyer	BREAK AND EXHIBITS
10:30 a.m.	BREAKOUT SESSIONS
Session 7 Salon A	<p>GENETICS FOR THE EPILEPTOLOGIST Chair: Dr. Danielle Andrade, University of Toronto and Dr. Patrick Cossette, Université de Montréal</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • Understand when it is appropriate to request a genetic test for a patient with epilepsy, learn which tests to request and what to do with the results. • Learn about the latest discoveries in the genetics of progressive myoclonus epilepsies. • Learn what is available in the field of gene therapy for epilepsy. • Learn why some genetic epilepsies are not identified in blood samples and the importance of somatic mutations in cortical dysplasia and other epilepsies. <p>TARGET AUDIENCE: Neurologists, neuropsychologists, psychologists, residents, fellows, nurses and social workers.</p> <p>TOPICS AND SPEAKERS:</p> <p>What the Epileptologist Needs to Know About Genetics Dr. Danielle Andrade, University of Toronto</p> <p>Advances in Progressive Myoclonus Epilepsies Dr. Patrick Cossette, Université de Montréal</p> <p>The Future is Here: Genetic Therapy for Epilepsy Dr. Berge Minassian, University of Toronto</p> <p>How Brain Somatic Mutations Lead to Epilepsy Dr. Cyrus Boelman, University of British Columbia</p>
Session 8 Salon B	<p>WHY DO SEIZURES START AND STOP? Chair: Dr. Peter Carlen, University of Toronto</p> <p>LEARNING OBJECTIVES:</p> <ul style="list-style-type: none"> • To appreciate the EEG measured dynamics of seizure onset and offset. • To appreciate the many relevant cellular and local network properties and activities related to seizure phases. • To appreciate the relevance of brain metabolic changes that can lead to and result from seizure activity both in relationship to seizure onset and seizure termination. • To consider how our understanding of seizure onset and offset can lead to better preventative and therapeutic strategies. <p>TARGET AUDIENCE: Neurologists, neurosurgeons, fellows and scientists.</p> <p>TOPICS AND SPEAKERS:</p> <p>Intra and Extracranial EEG Dynamics in Relationship to Seizure States and Strategies for Modulating Seizure Activities Dr. Berj Bardakjian, University of Toronto</p>

PROGRAM

Sunday, October 16, 2016

TIME	DESCRIPTION
10:30 a.m.	BREAKOUT SESSIONS (cont'd)
Session 8 Salon B	<p>TOPICS AND SPEAKERS (cont'd):</p> <p>Neuronal and Ionic Dynamics in Relation to Seizure Onset and Termination Dr. Igor Timofeev, Université Laval</p> <p>Local Neuronal Network Involvement in Seizure Onsets and Offsets Dr. Massimo Avoli, McGill University</p> <p>Presynaptic Mechanisms Determining Seizure Onset and Offset Dr. Peter Carlen, University of Toronto</p> <p>Metabolic and Glia Changes in Relationship to Seizure Phases Dr. Paolo Bazzigaluppi, Toronto Western Hospital</p>
12:15 p.m.	WRAP-UP (Please complete the electronic participant evaluations!)
12:30 p.m. Salon Foyer	BOXED LUNCH
12:30 p.m.	CORPORATE ADVISORY LUNCH (by invitation only)

POSTERS

Posters will be on display throughout the conference. The poster tour will be held on Saturday, October 15, 12:30 p.m. – 1:30 p.m. Authors are required to stand by their poster for a Q&A at this time.

ABSTRACT # NEUROIMAGING

- | | |
|---|---|
| 1 | <p>3D PRINTED BRAIN MODELS AS AN AID FOR TEACHING ANTERIOR TEMPORAL LOBECTOMY
 <i>Jonathan Lau, Ali Khan, Sandrine de Ribaupierre, Andrew Parrent, David Steven</i>
 <i>Western University</i></p> |
| 2 | <p>USING MOVIE-DRIVEN FMRI TO IDENTIFY ABNORMAL FUNCTIONAL CONNECTIVITY IN INTRACTABLE FOCAL EPILEPSY
 <i>Alenka Bullen, Lorina Naci, Ali Khan, Ingrid Johnsrude</i>
 <i>The University of Western Ontario</i></p> |
| 3 | <p>GRADUAL ALTERATIONS OF STRUCTURAL-FUNCTIONAL BRAIN NETWORKS IN THE SPECTRUM OF CORTICAL MALFORMATIONS
 <i>Seok-Jun Hong, Boris Bernhardt, Neda Ladbon-Bernasconi, Andrea Bernasconi</i>
 <i>Montreal Neurological Institute</i></p> |
| 4 | <p>ARTERIAL SPIN LABELING (ASL) IN THE PRE-SURGICAL EVALUATION OF PEDIATRIC EPILEPSY
 <i>Patricia Tomaszewski, Roy Dudley, Jeremy Moreau, Pia Wintermark, Sylvain Baillet</i>
 <i>Montreal Children's Hospital, McGill University Health Centres</i></p> |
| 5 | <p>SURFACE-BASED INTEGRATION OF FDG-PET AND MRI IN FOCAL EPILEPSY SYNDROMES
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 <i>Montreal Neurological Institute</i></p> |
| 6 | <p>IN-VIVO MYELIN MAPPING IN TEMPORAL LOBE EPILEPSY
 <i>Boris Bernhardt, Seok-Jun Hong, Min Liu, Andrea Bernasconi, Neda Ladbon-Bernasconi</i>
 <i>Montreal Neurological Institute</i></p> |
| 7 | <p>STRUCTURE-FUNCTION ANALYSIS ALONG HIPPOCAMPAL SUBFIELD SURFACES IN TEMPORAL LOBE EPILEPSY
 <i>Boris Bernhardt, Andrea Bernasconi, Benoit Caldaïrou, Seok-Jun Hong, Neda Ladbon-Bernasconi</i>
 <i>Montreal Neurological Institute</i></p> |
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¹Pontifical Catholic University of São Paulo
²São Francisco University
³Division of Neurosurgery of Santa Paula Hospital
⁴Division of Neurology of Santa Paula Hospital
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²University of Helsinki
³McMaster University
⁴University of Melbourne
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¹University of Toronto
²University of Montreal
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¹Queen's University
²University of Toronto

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²University of Toronto
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¹Royal University Hospital
²University of Saskatchewan
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²Barcelona Beta Brain Research Center
³Sherbrooke University
⁴University of Montreal Health Centre
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¹London Health Sciences Centre
²Western University
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¹University of Calgary
²CMG, Calgary
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²*The Hospital for Sick Children*
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¹*University of Melbourne*
²*University of Calgary*
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¹*Western University*
²*Dalhousie University*

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²Montreal Children's Hospital
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²Hospital for Sick Children
³McMaster University
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⁵University of Toronto

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¹CRIUSMQ, Université Laval
²CRIUSMQ

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