Pre-Final Program

Chairman: Dr. Ghassan Bkaily
FACTORY OF MEDICINE AND HEALTH SCIENCES,
UNIVERSITÉ DE SHERBROOKE
Email: Ghassan.Bkaily@USherbrooke.ca

Sherbrooke skyline and Mount Orford
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Message from the Forum Chair

Dear Colleagues,

On behalf of the local organizing committee, I would like to welcome you all to the 4th Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators. This meeting is very special in that it coincides with Dr. Naranjan S. Dhalla’s 80th birthday and the 20th anniversary of the International Academy of Cardiovascular Sciences. I would like to acknowledge the remarkable contribution of Dr. Dhalla in promoting cardiovascular research worldwide and in his pursuit of innovation and excellence. His relentlessness in promoting cardiovascular research is a model to be followed by all young scientists.

The meeting brings together international para-clinical and clinical scientists with first class young investigators in cardiovascular research. Cardiovascular research ensures the future of new knowledge and gets us closer each day to better treatments for cardiovascular diseases. Therefore, the conference puts particular emphasis on enriching the experience of our young scientists by exposing them to cutting-edge science from the bench to the bedside. At the same time, this meeting will give them center stage to present their latest discoveries and further expand their knowledge, through their discussions with senior scientists in the field, in order to better understand and treat patients for a better healthy growth and aging for people all around the world.

I would like to thank all our generous sponsors and supporters which made our meeting possible.

We welcome you to beautiful Sherbrooke and the Eastern townships of Quebec and we hope that you get the best scientific forum. Please enjoy our French-Canadian hospitality.

Bienvenue au Québec, bienvenue and welcome to Canada.

Dr. Ghassan Bkaily
International Academy of Cardiovascular Sciences
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Prague, Czech Republic

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Pawan K. Singal, Winnipeg, Canada
Jan Slezak, Bratislava, Slovak Republic
Atsushi Takeda, Tokyo, USA
Andras Varro, Szeged, Hungary
Karl Werdan, Halle, Germany

www.heartacademy.org
International Academy of Cardiovascular Sciences
Officers and Executive Council Members (2015-17)
North American Section

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Winnipeg, Canada

Past President
Dennis McNamara
New Orleans, USA

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Edmonton, Canada

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Deepak Srivastava, San Francisco, USA
Balwant Tuana, Ottawa, Canada
Suresh Tyagi, Louisville, USA
Carin Wittnich, Toronto, Canada

Dr. Naranjan S. Dhall
Executive Director,
IACS

Dr. Grant Pierce
President,
North American
Section
Bienvenue!

Our university community is very pleased to welcome you to this wonderful forum of the International Academy of Cardiovascular Sciences.

In helping to bring together these talented and experienced researchers and those who follow in their footsteps in cardiovascular research, we are extremely proud to be promoting scientific dialogue and exchanges among passionate people. It goes without saying that pooling your efforts, sharing your work and developing your expertise are a source of hope for your patients and for our entire society.

The Université de Sherbrooke is located in the heart of one of Quebec’s three major research hubs. Known for its spirit of innovation, the Université de Sherbrooke is a key partner of senior and regional governments in the promotion of economic, cultural, and social development. It has a well-earned reputation thanks to the strong growth in its research activities in recent years, its successes in technology transfers, as well as its initiatives in entrepreneurship and open innovation in collaboration with industry and social milieus.

Our Faculty of Medicine and Health Sciences (FMSS) stands out as an exceptional place to work or study. From the very outset, the FMSS brought together a faculty of medicine and university hospital at one location. Today, the FMSS offers programs of study in Sherbrooke, Longueuil and Saguenay in Quebec, and in the Moncton area of New Brunswick, tied to the needs of the communities where it has a presence. Despite this remarkable growth, the Faculty has been able to maintain a degree of flexibility that promotes innovation in both teaching and research. The FMSS hosts more than 140 researchers whose research impact attracts growing numbers of students to its graduate programs.

I would like to offer my thanks and congratulations to the team from our Department of Anatomy and Cellular Biology for organizing this far-reaching event, which has helped, through its dynamism and dedication, to put the Université de Sherbrooke and the Ville de Sherbrooke on the world research map.

Dans le cadre enchanteur de notre magnifique région des Cantons-de-l’Est, nous vous souhaitons des rencontres inspirantes ainsi que des échanges fructueux qui donneront lieu à des collaborations encore plus prometteuses!

Prof. Luce Samoisette
President
Université de Sherbrooke
Message from Dean Pierre Cossette

The Faculty of Medicine and Health Sciences of University of Sherbrooke is proud to host the 4th Cardiovascular Forum of the International Academy of Cardiovascular Sciences. This fall semester has a special meaning for us, because 50 years ago our Faculty welcomed its first medical class of 26 students. Since 1966, over 15,000 students have graduated from our Faculty.

Many people worked relentlessly in making this Faculty a place where knowledge is shared while critical thinking and creativity are encouraged for the well being of our society. Over the years, our establishment was able to develop its research capacity and more than 100 academic programs. Our researchers are at the center of our mission and it is with great pleasure that we support their networking and involvement in the organisation of this scientific meeting. We are delighted that Sherbrooke has become a scientific destination for this important Forum.

It is an honour for us to welcome you here. Furthermore, fall in Quebec’s Eastern Townships is definitively the place to be for its colored scenery at this time of year. I sincerely hope that you will enjoy your stay and will benefit on a professional and a personal level from these few days spent with us.

Dr. Pierre Cossette
Dean, Faculty of Medicine and Health Sciences
Université de Sherbrooke
It is a great pleasure to welcome you to Sherbrooke for this major scientific conference.

As a university city and a city of knowledge, Sherbrooke frequently has the opportunity to host major scientific gatherings, to welcome scientists and researchers from across the country and around the world working in such specialized fields.

We are indeed privileged by the presence of a university hub (le Pôle universitaire de Sherbrooke) that is very active on the international stage, and of which the Université de Sherbrooke is a part.

This educational institution plays a key role in training a new generation that is exceptionally well prepared to take on the challenges of the future, and it is a tremendous asset to Sherbrooke and the Eastern Townships community.

With these few words, I sincerely hope that you will enjoy your stay in Sherbrooke and our picturesque region, and that you will have an opportunity to discover some of the many attractions and activities that our city has to offer during this beautiful time of the year.

Once again let me say that it is a genuine honour to welcome you and thank you for having chosen Sherbrooke as the site for this major conference.

Bernard Sévigny
Mayor of Sherbrooke
4th Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators
Sherbrooke, Quebec, Canada – September 22-24, 2016

Local Organizing Committee
Chair: Ghassan Bkaily, Professor, Faculty of Medicine, Université de Sherbrooke
Honorary Chair: Naranjan S. Dhalla, Distinguished Professor, University of Manitoba

André Carpentier, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Pedro D’Orléans-Juste, Professor, Department of Pharmacology
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Paul Farand, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Danielle Jacques, Professor, Department of Anatomy and Cell Biology
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Michel Nguyen, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Serge Lepage, Professor, Department of Medicine
Faculty of Medicine and Health Sciences, Université de Sherbrooke

Lucien Bergeron Jr., Scientific coordinator, CMDO, CRCHUS, Université de Sherbrooke

International Organization Committee:
Devendra Agrawal, Omaha
Madhu Anand-Srivastava, Montreal
Peter Backx, Toronto
Patrick Burgon, Ottawa
Mohamed Chaâine, Quebec
Michael Czubryt, Winnipeg
James Gilchrist, Winnipeg
Fernand Gobeil Jr., Sherbrooke
Susan Howlett, Halifax
Morris Karmazyn, London, Ontario
Abdelouahed Khalil, Sherbrooke
Madhu Khullar, Chandigarh
Frantisek Kolar, Prague
Ren-Ke Li, Toronto
Vincenzo Lionetti, Pisa
Gary Lopaschuk, Edmonton
Sheldon Magder, Montreal
Nilanjana Maulik, Farmington
Dennis McNamara, New Orleans

Martin Morad, Charleston
Moni Nader, Riyadh
Bohuslav Ostadal, Prague
Sampath Parthasarathy, Orlando
Grant Pierce, Winnipeg
Tanya Ravingerova, Bratislava
Domenico Regoli, Ferrara
Delfin Rodriguez-Leyva, Winnipeg
Stephen Schaffer, Mobile
Adel Schwertani, Montréal
Pawan K. Singal, Winnipeg
Dinender Singla, Orlando
Jan Slezak, Bratislava
Ashok Srivastava, Montreal
Saadeh M. Suleiman, Bristol
Balwant Tuana, Ottawa
Jeffrey Wigle, Winnipeg
Carin Wittnich, Toronto

Note: We are currently waiting to hear from other invited speakers!

Secretariat:
Mrs. Mélanie Roy, Department of Anatomy and Cell Biology, Faculty of Medicine and Health Sciences Université de Sherbrooke, Sherbrooke, QC, Canada J1H 5N4, Email: Melanie.Roy9@USherbrooke.ca, Tel: 1-819-821-8000, ext. 70147.

www.fourwav.es/IACSNA2016
**General Information**

*Forum Hotel*
Delta (Future Marriott) Sherbrooke Hotel and Conference Centre  
2685 King Street West  
Sherbrooke, QC J1L 1C1  
Tel: 1-819-822-1989

The hotel is located on the main street in Sherbrooke and is within a 10-minute walking distance from the shopping mall. The hotel reservation website is [http://cwp.marriott.com/yscdr/iacsmedsherbrooke](http://cwp.marriott.com/yscdr/iacsmedsherbrooke). The special meeting rate for room reservation is available until August 29, 2016 (Group code: MS1MS1A). Please make your hotel reservation as soon as possible in order to benefit from the low price of the meeting rate. After this date, we do not guarantee a room or a special rate. Please note that before the meeting date, Delta will be changed into Marriott.

*Shuttle Information*
A free shuttle from the Montreal airport to the conference site (Delta Sherbrooke Hotel) will be available for all delegates on Thursday September 22 and back to Montreal airport on Sunday September 25. Three shuttles will be available with departure from Montreal airport at 1:00 PM, 3:00 PM and 5:00 PM. The delegates will be asked to indicate their arrival time as well as the airline and flight number. Departure from the conference site to the Montreal airport will take place at 7:00 AM and 9:00 AM on September 25. It is also encouraged to rent a car with a special price for the meeting at the Montreal airport (details will be communicated later). Driving is very easy and pleasant to the Eastern Townships (approximately a 90-minute drive from the airport, please see details in the preliminary program). Parking at the hotel is free of charge. City bus passes for delegates will also be provided free of charge by the City of Sherbrooke.

*Registration*
Registration fee includes all meals (except Friday evening free time dinner) and entertainment as well as complementary shuttle from and to Montreal airport.

*Early Bird Registration Start-Deadline and Fee*
May 25, 2016 extended to July 25, 2016

- **Students and postdoctoral fellows**: 450 $ US includes hospitality  
- **Regular attendee**: 550 $ US includes hospitality

*Late Registration Fee*
Following July 25, 2016

- **Students and postdoctoral fellows**: 550 $ US includes hospitality  
- **Regular attendee**: 650 $ US includes hospitality
Registration Desk (Foyer Lower Level)
September 22: 4:00 PM to 7:00 PM
September 23: 8:00 AM to 5:00 PM
September 24: 8:00 AM to 4:00 PM

Abstract Submission Process & Deadlines

- Abstract submission starts on May 25, 2016. The submission deadline for abstracts to be published and presented at the forum has been extended to July 25, 2016.
- To submit your abstract without registration, please click here https://www.fourwav.es/view/280/registration/, select Submit abstract and register later and then click Join conference. Then go to Submission section in the menu.
- Abstracts can also be submitted after registration as part of the online registration process.
- If you have a problem submitting your abstract online, please send it to danielle.jacques@usherbrooke.ca, and we will take care of it.
- If your abstract is not fully prepared, we still encourage you to register. There is no abstract submission fee. However, in order to be eligible for award nomination and competitions, it is mandatory to register at the same time of abstract submission.

Formatting requirements for abstracts are as follows:

- Abstract title section (maximum 25 words);
- For the Authors’ names and Affiliations section, please follow the indications in the submission section;
- Abstract section:
  - Abstract length limit is 250 words and do not include the title, authors’ names and affiliations.
  - Rich text formatting and special characters are permitted.
  - The abstract body [structured or free form styles are both permitted].
  - Acknowledgements *Please do not include author titles or credentials in the abstract itself.

Regular Invited Speaker Oral Presentations
Speakers are allocated 20 minutes for presentations and questions.

Award Competition Posters (Grant Pierce, James Willerson, Gary Lopaschuk and Roberto Bolli awards)
The aim of this new category of presentation is to increase the contact and exchange between young investigators, young faculty and senior scientists. For the award competitions, the speakers are allocated 20 minutes for a PowerPoint presentation including the question period. The poster part of this new category is to prepare a poster (based on the oral presentation) that will be exposed, as other
poster categories, throughout the duration of the conference. The poster will be part of the combined poster session but will not be judged or be eligible for the Morris Karmazyn and Margaret Moffat Poster awards.

**Poster Oration**
The aim of this new category of presentation is to increase the contact and exchange between young investigators, young faculty and senior scientists and make the speakers eligible for the poster awards. For the oration part, the speakers are allocated 20 minutes for a PowerPoint presentation including the question period. The poster part of this new category is to prepare a poster (based on the oration) that will be exposed, as other poster categories, throughout the duration of the conference. The poster will be judged during the combined poster session for the Morris Karmazyn and Margaret Moffat Poster awards.

**Poster Oral Presentations**
This category of poster presentation gives the opportunity for the participant to give a 5 minutes PowerPoint presentation without a question period. This permits the participant and more particularly young investigators to improve their skill as orators. Participants should also prepare a poster that will be exposed throughout the duration of the conference. The poster will be judged during the combined poster session for the Morris Karmazyn and Margaret Moffat Poster awards.

**Poster Only**
Presenters should prepare a poster that will be exposed throughout the duration of the conference and be part of the combined poster session. The poster will be judged during the combined poster session for the Morris Karmazyn and Margaret Moffat Poster awards.

**Speaker Ready Room**
Please provide your talk on a USB memory stick to the Speaker Ready Room (Lac Orford Room) at least 30 minutes prior to your session. You may make minor edits and review your talk at this time; however, access to the Ready Room PC is limited. Our staff will transfer your talk to the computer in your presentation room. Should you need to use your own laptop, please bring this to our staff’s attention at least 30 minutes prior to your session. For Apple users, please ensure that you have any required cables for interfacing to a standard VGA connector.

**Poster Presentations**
Posters (4’ x 4’ or 121 cm x 121 cm) should be mounted on the appropriate numbered poster boards before 9:00 AM on Friday, September 23. The posters should be displayed until 5:00 PM on Saturday,
September 24. We are not responsible for any posters remaining in the Poster Room after 5:00 PM on Saturday, September 24.

**Exhibition Displays (Foyer Lower Level Hall)**

**Hospitality**
All invited guests and registered participants have access to the following events:
1. Breakfast
2. Coffee Breaks
3. Lunches
4. Reception
5. Dinners/Entertainment

**Lecture Rooms**
Three lecture rooms (Grand Salon Sherbrooke A, B and C) located on the main level below the lobby will be used simultaneously for the symposium sessions. Each symposium session room will be identified. A floor plan inside the back cover of the Program Book can be used for orientation purposes.

**Websites**
- [www.fourwav.es/IACSNA2016](http://www.fourwav.es/IACSNA2016) (registration)
- [www.heartacademy.org](http://www.heartacademy.org)

**Conference Administration:**
**Conference Coordinator**
Dr. Lucien Bergeron Jr.; Email: lucien.junior.bergeron@rrcmdo.ca; Tel.: 819-346-1110, ext. 12703

**Chair of Hospitality, Accommodations and Audiovisual**
Dr. Johny Al-Khoury; Email: Johny.Al.Khoury@USherbrooke.ca; Cell: 819-212-1005
Mr. Marc Chamoun; Email: Marc.Chamoun@USherbrooke.ca; Cell: 819-919-0950

**Registration Team**
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Ms. Maram Alshahrani; Email: Maram.Alshahrani@USherbrooke.ca; Cell: 873-200-4794

Publication of the Proceedings of the Meeting in the Canadian Journal of Physiology and Pharmacology: Invited editors, Dr. Danielle Jacques (Sherbrooke) and Dr. Morris Karmazyn (London, Ontario).

Original papers:
Abstracts of all oral and poster presentations will be published in a special issue of the Canadian Journal of Physiology and Pharmacology (CJPP). All attendees are welcome to submit a full original manuscript based on the material presented at the conference. The submitted papers for original work, following the peer review process, will be published in the first special issue.

Review papers with 25% original data:
A second issue will be devoted to review manuscripts from invited speakers including some original unpublished data (25%).

Note: It is highly recommended to prepare your manuscript before the meeting. We guarantee a two week review period which accelerates the publication of the proceedings. Hence, be ready to submit your original article and your review paper.
Awards

Dr. Grant Pierce Travel Awards
Based on the excellence of their abstract, ten graduate students and trainees will receive travel awards in the amount of $500 provided by IACS North American Section President Dr. Grant Pierce. In order to be eligible for this award, it is mandatory to register at the same time of abstract submission.

Young Investigator Awards
As is the tradition, several competitions will take place during our meeting to promote young investigators. This includes:
Four oral sessions:
The Grant Pierce Young Investigator Award Competition in Cardiovascular Science for Graduate Students. Four speakers will be selected for presentation. The abstracts of other applicants will be considered for Poster Oral Award Session.
The James Willerson Young Investigator Award Competition in Cardiovascular Medicine: Residents and Postdoctoral Fellows. Four speakers will be selected for presentation. The abstracts of other applicants will be considered for Poster Oral Award Session.
The Gary Lopaschuk Young Faculty Award Competition in Cardiovascular Biomedical Sciences. Four faculty members (within 10 years of appointment) will be selected for presentation. The other applicants will be considered for oral presentation.
The Roberto Bolli Young Faculty Award Competition in Cardiovascular Medicine. Four faculty members (within 10 years of appointment) will be selected for presentation. The other applicants will be considered for oral presentation.

Selected nominees will receive complimentary accommodation and/or registration and hospitality in addition to a plaque and a major cash prize. We therefore kindly invite you to nominate an outstanding junior faculty member and/or a trainee to be considered for these various awards. The information required for these nominations includes the name of the nominee, contact information, a two-page CV and an abstract (250 words maximum).

Established Investigator Awards
Furthermore, Established Investigator Awards will be given to four worthy recipients from the list of invited speakers, who will be chosen for the Howard Morgan Award, Norman Alpert Award, Naranjan Dhalla Award and a Special Award. Each awardee will receive a major cash prize and a plaque.

Two poster oral sessions
The Margaret P. Moffat Award in Biomedical Sciences
Two individuals from this Poster Oral Presentation Session will be selected. Each awardee will receive $500 and a certificate.
The Morris Karmazyn Award in Translational Medicine.
Two individuals from this Poster Oral Presentation Session will be selected. Each awardee will receive $500 and a certificate.

Two poster sessions
The Margaret P. Moffat Award in Biomedical Sciences. Two individuals from this Poster Session will be selected. Each awardee will receive $500 and a certificate.

The Morris Karmazyn Award in Translational Medicine. Two individuals from this Poster Session will be selected. Each awardee will receive $500 and a certificate.
PRE-FINAL SYMPOSIUM PROGRAM

THURSDAY, SEPTEMBER 22

1:00 to 7:00 PM  
Registration (Foyer Lower Level)

6:00 to 6:40 PM  
Welcome Remarks  
Room: Salon Sherbrooke B  
Chair: Dr. Ghassan Bkaily, Chair of the Annual Meeting of IACS-North American Section, Sherbrooke, Quebec  
- Dr. Pierre Cossette, Dean, Faculty of Medicine and Health Sciences, Université de Sherbrooke  
- Mr. Bernard Sevigny, Mayor of the City of Sherbrooke  
- Dr. Grant Pierce, President, IACS North American Section  
- Dr. Danielle Jacques, Secretary, 4th Cardiovascular Forum, Sherbrooke, Canada: Program Highlights

Accreditation for Medical Fellows: 45 min (Conference 45 min)  
Learning Objectives - At the end of this conference, participating medical fellows will be able to: 1) Identify last advances in the cardiovascular field and 2) Apply recent knowledge in daily practice.

6:40 to 7:40 PM  
Inaugural Address Dedicated to Dr. Naranjan S. Dhalla on his 80th Birthday  
Room: Salon Sherbrooke A-C  
Chair: Dr. Grant Pierce, Professor and President of IACS – North American Section  
University of Manitoba, Winnipeg, Canada

6:40 to 6:55 PM  
Dr. Bohuslav Ostadal: Presentation of Dr. Naranjan S. Dhalla: 20 years from the foundation of the International Academy of Cardiovascular Sciences.

6:55 to 7:40 PM  
Dr. Andras Varro: An address and conference in the honour of Dr. Naranjan S. Dhalla

7:40 to 9:30 PM  
Meet and Greet Reception  
Room: Foyer Lower Level
FRIDAY, SEPTEMBER 23

8:00 to 9:00 AM  
Registration (Foyer Lower Level)

8:00 to 9:00 AM  
Breakfast and Networking

9:00 to 10:20 AM  
1. Thematic Symposium: Cardiovascular Dysfunction in Chronic Diabetes

Room: Salon Sherbrooke A  
Chairs: Dr. Gary Lopaschuk and Dr. Andre Carpentier

9:00 AM to 9:20 AM  
Madhu Khullar: Role of fibrosis associated transcription factors in hyperglycemia induced endothelial to mesenchymal transition (EndMT).

9:20 AM to 9:40 AM  
Andre Carpentier: Molecular imaging of fatty acids to assess cardiometabolic interventions.

9:40 AM to 10:00 AM  
Vincenzo Lionetti: Maspin-enriched exosomes released from sulforaphane-treated fibroblasts prevents hypertrophy in angiotensin II induced HL-1 cardiomyocytes.

10:00 AM to 10:20 AM  
Gary Lopaschuk: Acetylation control of cardiac fatty acid β-Oxidation and energy metabolism in obesity and diabetes.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).
Learning Objectives: At the end of this program, participants will be able to: 1) Review the link between diabetes and cardiovascular problems and 2) Describe available treatments and their mechanisms.

2. Dr. Grant Pierce Young Investigator Award Competition in Cardiovascular Science: Graduate Students

Room: Salon Sherbrooke B  
Chairs and Judges: Dr. Adriana Adameova and Dr. Stephen Schaffer  
Judges: Dr. Dinender Singla, Dr. Danielle Jacques and Dr. Mohamed Chahine

9:00 AM to 9:20 AM:  
Heidi Shoulders: BMP-7 treatment induces monocyte to M2 macrophage differentiation and improves blood flow velocity in atherosclerosis.
9:20 AM to 9:40 AM: **Stéphanie LeBlanc:** Carotid versus coronary atherosclerosis burdens in acute compared to chronic symptomatic coronary artery disease.

9:40 AM to 10:00 AM: **Jonathan Weldrick:** Identification and characterization of a miRNA cohort initiated transitional program that controls cell cycle arrest of the perinatal heart.

10:00 AM to 10:20 AM: **Jaroslav Hrdlicka:** Effect of moderate exercise training and continuous normobaric hypoxia on postinfarction heart failure in rats.

3. **Gary Lopaschuk Young Faculty Award Competition in Cardiovascular Biomedical Sciences**

Room: Salon Sherbrooke C

*Chairs and Judges: Dr. Jan Slezak and Dr. Saadeh Suleiman*

*Judges: Dr. Sheldon Magder, Dr. Ashok Srivastava and Dr. Ren-Ke Li*

9:00 AM to 9:20 AM: **Jin O-Uchi:** Post-translational modification of mitochondrial Ca$^{2+}$ uniporter mediates mitochondrial Ca$^{2+}$ overload and cell death in the heart.

9:20 AM to 9:40 AM: **Levon Avedanian:** Role of nuclear T-tubules in human vascular smooth muscle cell function and disease.

9:40 AM to 10:00 AM: **Sanjiv Dhingra:** Prostaglandin E2 mediated secretion of chemokines prevents rejection of implanted allogeneic mesenchymal stem cells and restores post-infarction ventricular function.

10:00 AM to 10:20 AM: **Hao Wang:** Cardiomyocyte-specific deletion of the G-protein-coupled estrogen receptor (GPER) leads to left ventricular dysfunction and adverse remodeling: a sex-specific gene profiling.

10:20 to 10:40 AM  *Coffee Break (Foyer Lower Level)*
10:40 AM to 12:00 PM

4. Thematic Symposium: Arrhythmias and Heart Failure in Hereditary Cardiovascular Diseases

Room: Salon Sherbrooke A
Chairs: Dr. Ghassan Bkaily and Dr. Naranjan S. Dhalla

10:40 AM to 11:10 AM: Martin Morad: Pacemaker mechanisms in human iPSC-derived cardiomyocytes: A step closer to tissue-based pacemakers.


11:35 AM to 12:00 PM: Ren-Ke Li: Conductive polymer hydrogel improves electrical conduction velocity in the injured heart.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min). Learning Objectives - At the end of this program, participants will be able to: 1) Cite hereditary arrhythmic cardiovascular diseases and 2) Propose adequate investigations.

5. Thematic Symposium: Age and Cardiovascular Disease

Room: Salon Sherbrooke B
Chairs: Dr. Frantisek Kolar and Dr. Dinender Singla

10:40 AM to 11:00 AM: Susan Howlett: Impact of age and frailty on cardiac function in a mouse model.

11:00 AM to 11:20 AM: Carin Wittnich: Does young age really put the heart at risk?


11:40 AM to 12:00 AM: Mohamed Chahine: Induced pluripotent stem cells derived cardiomyocytes.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min). Learning Objectives - At the end of this program, participants will be able
to: 1) Recognize the importance of aging in cardiovascular disease and 2) Choose therapeutic targets.

6. James Willerson Young Investigator Award Competition in Cardiovascular Medicine: Residents and Postdoctoral Fellows

Room: Salon Sherbrooke C
Chairs and Judges: Dr. Michel Nguyen and Dr. Tanya Ravingerova
Judges: Dr. Madhu Anand-Srivastava, Dr. James Gilchrist and Dr. Fernand Gobeil

10:40 AM to 11:00 AM: Martin Lewis: Age related differences in the cardiac proteome of proteins involved in signalling and response to Ischaemia.

11:00 AM to 11:20 AM: Alice E. Kane: Influence of ACE inhibitors on frailty and cardiac function in middle-aged female C57BL/6 mice.

11:20 AM to 11:40 AM: Ayelen Rodriguez-Portelles: Use of high resolution Doppler ultrasound for the diagnosis of endothelial dysfunction in young adults exposed to tobacco.

11:40 AM to 12:00 PM: Denis Blondin: Does TAG/FA cycling contribute significantly to cold-induced thermogenesis? Determining the metabolic fate of oversupplied fatty acids during a mild cold exposure in humans.

12:00 to 1:10 PM Lunch Break (Lac Memphrémagog Hall, 2nd Floor)

12:00 to 1:10 PM IACS-North America Executive Committee Business Meeting (President: Dr. Grant Pierce)
Room: Lac Orford

1:10 to 2:30 PM 7. Thematic Symposium: Oxidants and Anti-oxidants in Heart Health and Diseases
Room: Salon Sherbrooke A
Chairs: Dr. Martin Morad and Dr. James Gilchrist
1:10 PM to 1:30 PM: Jan Slezak: Radiation induced heart disease and amelioration of X ray toxic effect with selected substances and H2.

1:30 PM to 1:50 PM: Stephen Schaffer: Taurine deficient heart exhibits mitochondrial oxidative stress, apoptosis and impaired ATP generation.

1:50 PM to 2:10 PM: Frantisek Kolar: Cardioprotection conferred by chronic hypoxia combined with regular exercise in rats.

2:10 PM to 2:30 PM: Madhu Anand-Srivastava: Nitric oxide and regulation of blood pressure.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Examine the role of oxidative events in cardiovascular problems and 2) Identify ways to modify the oxidative balance.

8. Dennis B. McNamara Symposium: Vascular Disease and Atherosclerosis

Room: Salon Sherbrooke B

Chairs: Dr. Dennis B. McNamara and Dr. Vincenzo Lionetti

1:10 PM to 1:35 PM: Sampath Parthasarathy: Novel ways to lipid load cells to study macrophage functions.

1:35 PM to 2:00 PM: Ashok Srivastava: Stromal interaction molecule-1 and orai1 channel mediate angiotensin-II-induced expression of early growth response protein-1 (Egr-1) in vascular smooth muscle cells.

2:00 PM to 2:25 PM: Dinender Singla: Increased anti-inflammatory M2 macrophages prevents cardiac diseases.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Review the last knowledge about atherosclerosis development and 2) Describe new therapeutic targets.

9. Thematic Symposium: Nutrition and Prevention of Cardiovascular Disease

Room: Salon Sherbrooke C

Chairs: Dr. Delfin Rodriguez-Leyva and Dr. Morris Karmazyn
1:10 PM to 1:30 PM: Devendra Agrawal: Epicardial adipose tissue and vitamin D in the immunomodulation of coronary artery disease.

1:30 PM to 1:50 PM: Karmin O: Nutritional regulation of non-alcoholic fatty liver disease (NAFLD) and its impact on cardiovascular disease (CVD).

1:50 PM to 2:10 PM: Morris Karmazyn: Ginseng for the treatment of cardiovascular disease.

2:10 PM to 2:30 PM: Grant N. Pierce: The unique technical challenges that natural health products pose as a therapeutic intervention in a clinical trial.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Recognize the role of nutrition in the development of cardiovascular problems and 2) Sketch a nutrition plan for prevention of cardiovascular diseases.

2:30 to 2:50 PM Coffee Break (Foyer Lower Level)


Room: Salon Sherbrooke A

Chairs: Dr. Paul Farand and Dr. Devendra Agrawal

2:50 PM to 3:10 PM: Tanya Ravingerova: Novel "conditioning" approaches to mend the broken heart: a potential for clinical application?

3:10 PM to 3:30 PM: Serge Lepage: Roles of B-type Natriuretic Peptide (BNP) in decision making and follow up of heart failure patients.


3:50 PM to 4:10 PM: Michel Nguyen: High-sensitivity troponin for diagnosis, prognosis stratification and definition of myocardial infarction.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Discuss
new approaches for therapies for cardiac diseases and 2) Identify the more promising avenues of therapeutic approaches.

11. Karl Weber Symposium: Molecular Basis for Heart Disease

Room: Salon Sherbrooke B
Chairs: Dr. Pawan Singal and Dr. Nilanjana Maulik

2:50 PM to 3:10 PM: Adriana Adameova: Necroptosis in diseased heart.
3:10 PM to 3:30 PM: Patrick Burgon: Deletion of muscle-enriched A-type lamin-interacting protein (MLIP) leads to cardiac hyperactivation of Akt/mTOR and impaired cardiac adaptation.
3:30 PM to 3:50 PM: Nilanjana Maulik: New molecular targets of VEGF signaling in cardiovascular disease.
3:50 PM to 4:10 PM: Jeffrey Wigle: Transcriptional control of cardiac fibroblast activation.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Identify certain molecular problems associated with cardiovascular problems and 2) Describe available therapeutic targets.

12. Stephen Vatner Young Investigator Orations in Cardiovascular Medicine: Graduate Students

Room: Salon Sherbrooke C
Chairs: Dr. Madhu Anand-Srivastava and Dr. Susan Howlett

2:50 PM to 3:10 PM: Jennifer Major: Deregulation of the E2F pathway in post-natal myocardium impacts metabolic control and dilated cardiomyopathy.
3:30 PM to 3:50 PM: Lionel Tastet: Impact of higher ApoB/ApoA-1 ratio on the hemodynamic progression of aortic stenosis - Results from the PROGRESSA study.
3:50 PM to 4:10 PM: Laetitia Guillemette: Prenatal exposure to gestational and pre-gestational diabetes impairs cardiac relaxation in youth with type 2 diabetes.
4:10 to 6:00 PM  Wine and Cheese Combined Poster Session
Room: Foyer Lower Level

All posters will be judged in a single session. Cheese, crackers and beverages will be available during this session.

13. Translational Medicine (Morris Karmazyn Award)
Judges: Nilanjana Maulik, Tanya Ravingerova, Balwant Tuana, Jeffrey Wigle, Antoinette Blackman.

Accreditation for Medical Fellows: 110 min (interactions between participants).
Learning Objectives - At the end of this program, participants will be able to: 1) Identify optimal ways for successful collaborations, 2) Integrate collaborative initiatives in faculty priorities and 3) Illustrate beneficial collaborative avenues between paraclinical and clinical scientists.

14. Biomedical Sciences (Margaret P. Moffat Award)
Judges: Patrick Burgon, Michael Czubryt, Abdelouahed Khalil, Madhu Khullar, Adel Schwertani.

Accreditation for Medical Fellows: 110 min (interactions between participants).
Learning Objectives - At the end of this program, participants will be able to: 1) Implement successful approaches in practice and 2) Criticize the current knowledge about genesis of cardiovascular diseases.

6:00 to 7:00 PM  Presidential Address
7:00 PM  Free Evening for Networking

SATURDAY, SEPTEMBER 24

8:00 AM to 4:00 PM  Registration (Foyer Lower Level)
8:00 to 9:00 AM  Breakfast and Networking
9:00 to 10:20 AM  15. Management of Cardiovascular Diseases
Room: Salon Sherbrooke A
Chairs: Dr. Serge Lepage and Dr. Sheldon Magder
9:00 AM to 9:20 AM:  Domenico Regoli: Rational bases of modern therapies for cardiovascular diseases.


9:40 AM to 10:00 AM:  Thao Huynh: Ethnicity and Racial variations in cardiovascular diseases

10:00 AM to 10:20 AM:  Paul Farand: Economic evaluation of heart failure management by specialized clinics in Quebec.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min). Learning Objectives - At the end of this program, participants will be able to: 1) List the different types of management of cardiovascular diseases and 2) Use the more efficient approaches in treatments.

16. Otto F. Schanne Young Investigator Orations

Room: Salon Sherbrooke B

Chairs: Dr. Danielle Jacques and Dr. Balwant Tuana

9:00 AM to 9:20 AM:  Glen Lester Sequiera: Differential passage of mesenchymal stem cells introduces variability in their immunoprivilege – an “Omic”-al perspective.


9:40 AM to 10:00 AM:  Christophe Noll: Seven-day overfeeding decreases myocardial dietary fatty acid partitioning in healthy subjects.

10:00 AM to 10:20 AM:  Johny Al-Khoury: Angiotensin II receptors modulation of calcium homeostasis in human vascular endothelial cells.

Accreditation for Medical Fellows: 80 min (Conference 60 min– Questions 20 min). Learning Objectives - At the end of this program, participants will be able to: 1) Discuss recent developments in the field of stem cells and dietary fatty acids 2) Identify patients who could benefit from these therapies.
17. **Eric Olson Symposium: Cardiovascular Health and Disease**

Room: Salon Sherbrooke C  
*Chairs: Dr. Bohuslav Ostadal and Dr. Andras Varro*

9:00 AM to 9:20 AM: **Naranjan S. Dhalla**: Role of protease activation in cardiac dysfunction due to ischemia-reperfusion injury to the heart.

9:20 AM to 9:40 AM: **Saadeh Suleiman**: Cardiopulmonary bypass & cardiac injury during coronary surgery.

9:40 AM to 10:00 AM: **Peter Backx**: The role of exercise in atrial fibrillation.

10:00 AM to 10:20 AM: **Antoinette Blackman**: Clinical importance of grade I left ventricular diastolic dysfunction.

10:20 to 10:40 AM  *Coffee Break (Foyer Lower Level)*

10:40 AM to 12:00 PM  **18. Roberto Bolli Young Faculty Award Competition in Cardiovascular Medicine**

Room: Salon Sherbrooke A  
*Chairs and Judges: Dr. Ren-Ke Li and Dr. Bohuslav Ostadal*  
*Judges: Dr. Vincenzo Lionetti, Dr. Frantisek Kolar and Dr. Sampath Parthasarathy*

10:40 AM to 11:00 AM: **Samarjit Das**: Role of miR-181 family in the heart: A tale of two intracellular compartments.

11:00 AM to 11:20 AM: **Moni Nader**: Striatin is a novel risk gene for human dilated cardiomyopathy that regulates cardiomyocyte response to adrenergic stimuli.

11:20 AM to 11:40 AM: **Sarah Cohen**: Exposure to low-dose ionizing radiation from cardiac procedures and risk of malignancy in adults with congenital heart disease.

11:40 AM to 12:00 PM: **Delfin Rodriguez-Leyva**: Serious new concerns for patients with peripheral arterial disease.

Room: Salon Sherbrooke B

Chairs: Dr. Madhu Khullar and Dr. Patrick Burgon

10:40 AM to 11:00 AM: Pawan Singal: Role of toll-like receptors in innate signaling in heart failure.

11:00 AM to 11:20 AM: Balwant Tuana: New mechanisms leading to DCM.

11:20 AM to 11:40 AM: Abdelouahed Khalil: HDL functionality, or HDL quality versus HDL quantity.

11:40 AM to 12:00 PM: Michael Czubryt: Novel approaches to treating cardiac fibrosis.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min). Learning Objectives - At the end of this program, participants will be able to: 1) Criticize certain new approaches in management of cardiovascular diseases and 2) Select the more appropriate treatment.

20. Thematic Symposium: Endothelium and Cardiovascular Disease

Room: Salon Sherbrooke C

Chairs: Dr. Antoinette Blackman and Dr. Peter Backx

10:40 AM to 11:05AM: Sheldon Magder: Cross talk between the heart and peripheral circulation: potential role of cardiac and peripheral endothelium.


11:30 AM to 12:00 PM: Danielle Jacques: Crosstalk between the NPY and ET-1 systems in human endocardial endothelial cells.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min). Learning Objectives - At the end of this program, participants will be able to: 1) Review the role of endothelial dysfunction in pathogenesis of cardiovascular diseases and 2) Describe new therapeutic approaches targeting the endothelium.
12:00 to 1:10 PM  
*Lunch Break (Lac Memphrémagog Hall, 2nd Floor)*

12:00 to 1:10 PM  
**IACS Executive Committee Business Meeting** (Presidents: Dr. Naranjan S. Dhalla and Dr. Bohuslav Ostadal).
Room: Lac Orford

1:10 to 2:30 PM  
**21. Bruce McManus Young Investigator Orations: Graduate Students, Biomedical Sciences**
Room: Salon Sherbrooke A
*Chairs: Dr. Jeffrey Wigle and Dr. Carin Wittnich*

1:10 PM to 1:30 PM:  
**Gauri Akolkar:** Cardioprotective role of Vitamin C in Doxorubicin-induced cardiomyopathy via mitigation of oxidative/nitrosative stress.

1:30 PM to 1:50 PM:  
**Estelle Rolande Simo Cheyou:** Increased levels of intracellular cAMP attenuate Angiotensin-II-induced expression of the early growth response protein-1 (Egr-1) in vascular smooth muscle cells (VSMC).

1:50 PM to 2:10 PM:  
**Taha Rehmani:** The cardiac specific isoform of tail anchored membrane protein SLMAP1 enhances GLUT4 levels by directing endosomal size and recycling.

2:10 PM to 2:30 PM:  
**Thomas Hedley:** Involvement of heat shock protein-60 in vascular smooth muscle cell proliferation through a modulation of nuclear protein Import.

22. **Nick Sperelakis Postdoctoral Young Investigator Orations**
Room: Salon Sherbrooke B
*Chairs: Dr. Michael Czubryt and Dr. Pedro D’Orleans-Juste*

1:10 PM to 1:30 PM:  
**Chian Ju Jong:** Leptin-induced cardiomyocyte hypertrophy is associated with enhanced mitochondrial fission.

1:30 PM to 1:50 PM:  
**Fawaz Bardooli:** Early changes in circulating miRNA 133a are indicative of cardiac remodelling after 3
months in patients presenting with acute ST elevation myocardial infarction.

1:50 PM to 2:10 PM: **Kanta Chechi:** Characterization of the oxidative potential and its relationship with the adipose tissue physiology in fat depots surrounding human heart.

2:10 PM to 2:30 PM: **Balazs Ordog:** MiRP2 rescues cardiac slow delayed rectifier K⁺ channel (IKs) function in long QT syndrome 5.

Accreditation for Medical Fellows: 80 min (Conference 60 min – Questions 20 min).

Learning Objectives - At the end of this program, participants will be able to: 1) Identify the different markers of heart disease.

23. Combined Poster Oral Presentations: Translational Medicine (Morris Karmazyn Award) and Biomedical Sciences (Margaret P. Moffat Award)

Room: Salon Sherbrooke C

Chairs: Dr. Moni Nader and Dr. Fernand Gobeil

1:10 PM to 1:15 PM **Ayelen Rodriguez-Portelles:** Effect of daily dietary supplementation with flaxseed on exercise capacity and cardiac electrical activity in patients with peripheral arterial disease.

1:15 PM to 1:20 PM **Sara Almajdoob:** Resveratrol attenuates hyperproliferation of vascular smooth muscle cells from spontaneously hypertensive rats: Role of ROS and ROS-mediated signalling.

1:20 PM to 1:25 PM **Aleksandra Stamenkovic:** Oxidized phosphatidylcholine (OxPC) induces cell death through the ferroptotic pathway in isolated adult cardiomyocytes.

1:25 PM to 1:30 PM **Maxime Gagnon:** Potentiation of bradykinin B2R activity by heterologous expression of a newly-identified protein coded by an alternative ORF of the B2R mRNA.
1:30 PM to 1:35 PM  Marek Zalesak: Molecular hydrogen facilitates beneficial effect of hypoxic postconditioning on ischemia-reperfusion injury.

1:35 PM to 1:40 PM  Branislav Kura: Modulation of cardiac specific miRNAs in irradiated rat myocardium after treatment with selected drugs.

1:40 PM to 1:45 PM  Raghu Sundaresan Nagalingam: Scleraxis is a direct transcriptional regulator of MMP-2 gene expression.

1:45 PM to 1:50 PM  Jan Neckar: Selective replacement of mitochondrial DNA reduces the sensitivity of mitochondrial permeability transition pore to opening in chronically hypoxic hearts of spontaneously hypertensive rats.

1:50 PM to 1:55 PM  Olivier Kamtchueng Simo: Paraoxonase 1 promotes cholesterol efflux from macrophages by stimulating the PPARγ-LXRα-ABCA1 pathway.

Accreditation for Medical Fellows: 80 min (interactions between participants). Learning Objectives - At the end of this program, participants will be able to: 1) Identify optimal ways for successful collaborations, 2) Integrate collaborative initiatives in faculty priorities and 3) Illustrate beneficial collaborative avenues between paraclinical and clinical scientists.

2:35 to 6:00 PM  Free Time

6:00 to 10:00 PM  IACS Awards Banquet and Closing Reception
Room: Salon Sherbrooke B-C
Chair: Dr. Ghassan Bkaily

6:00 PM to 6:20 PM:  Closing Remarks
Dr. Pierre Cossette, Dean, Faculty of Medicine and Health Sciences, Université de Sherbrooke
Mr. Bernard Sevigny, Mayor of the City of Sherbrooke

6:20 PM to 6:40 PM:  Announcement and Presentation of IACS Awards
Chairs: Dr. Grant Pierce, Dr. Gary Lopaschuk and Dr. Frantisek Kolar
• Grant Pierce Travel Awards
• Grant Pierce Young Investigator Award (Graduate Students)
• James Willerson Young Investigator Award (Residents and Postdoctoral Fellows)
• Roberto Bolli Young Faculty Award (Cardiovascular Medicine)
• Gary Lopaschuk Young Faculty Award (Cardiovascular Biomedical Sciences)

**Chairs: Dr. Morris Karmazyn, Dr. Danielle Jacques and Dr. Jan Slezak**

• Margaret Moffat Poster Award (Biomedical Sciences)
• Morris Karmazyn Poster Award (Translational Medicine)

**Chairs: Dr. Naranjan S. Dhalla, Dr. Bohuslav Ostadal and Dr. Andras Varro**

• Howard Morgan, Norman Alpert and Naranjan S. Dhalla Awards (to recognize distinguished scientists)
• IACS Lifetime Achievement Award
• IACS Distinguished Leadership Award

**6:40 PM to 6:45 PM**
Vote of Thanks by Dr. Ghassan Bkaily

**6:45 PM to 6:50 PM**
Introduction of 2017 Annual Meeting of the IACS-North American Section by Dr. Dinender Singla

**6:50 PM to 7:20 PM**
Cultural Program (Organizer: Dr. Lucien Bergeron Jr.)

**7:20 PM to 10:00 PM**
Banquet Dinner
Travel Awardees

Gauri Akolkar (Winnipeg, Canada)
Sara Almajdoob (Montreal, Canada)
Fawaz Bardooli (Bristol, United Kingdom)
Vijayan Elimban (Winnipeg, Canada)
Thomas Hedley (Winnipeg, Canada)
Branislav Kura (Bratislava, Slovakia)
Jennifer Major (Ottawa, Canada)
Balasz Ordog (Szeged, Hungary)
Lionel Tastet (Quebec City, Canada)
Marek Zalesak (Bratislava, Slovakia)

Special Thanks

Dr. Lucien Bergeron Jr., CMDO, CRCHUS
Dr. Johny Al-Khoury, University of Sherbrooke
Mrs. Helene Beaudet, Audiovisual, Faculty of Medicine, University of Sherbrooke
Mrs. Anick Bouchard, Audiovisual, Faculty of Medicine, University of Sherbrooke
Mrs. Amelie Bourque, Delta Sherbrooke
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Dr. Morris Karmazyn
Western University
London, Ontario, Canada

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Poster Only

P1- Alpha Linolenic Acid Decreases the Production of Pro-Apototic Oxidized Phospholipids over time in Cardiomyocytes After Ischemia/Reperfusion.
Riya Ganguly, Devin Hasanally, Thane G. Maddaford, Rakesh Chaudhary, Grant N. Pierce, Amir Ravadi (Winnipeg, Canada)

P2 - Cardioprotective aspect of inhibition of chlamydial infection.
Elena Dibrov, Jordan Nelson, Thane G. Maddaford, Craig Resch¹, Pavel Dibrov, Grant N. Pierce (Winnipeg, Canada)

P3 - Diastolic dysfunction after estrogen loss is linked to cardiac chymase in WKY but not SHR rats.
Hao Wang, Jacqueline da Silva, Daniele Gabriel-Costa, Safaraz Ahmad, Xuming Sun, Marina Lin, Roberto T. Sudo, Jasmina Varagic, Carlos Ferrario, Gisele-Zapata Sudo, Leanne Groban (Winston-Salem, USA and Rio de Janeiro, Brazil)

P4 - Early effect of bariatric surgery (Sleeve gastrectomy (SG) vs Biliopancreatic Diversion with Duodenal Switch (BPD-DS) on postprandial fatty acid inter-organ partitioning.
Anne-Marie Carreau, Christophe Noll, Frédérique Frisch, Lucie Bouffard, Serge Phoenix, Brigitte Guérin, Denis Richard, Laurent Biertho, Éric Turcotte, André Tchernof, André Carpentier (Sherbrooke, Canada and Quebec City, Canada)

P5 - Effect of extra virgin olive oil supplementation on the quality of HDL in health subjects.
Roua Walha, Hicham Berrougui, Olivier Kamtchueng Simo, Abdelouahed Khalil (Sherbrooke, Canada)

P6 - Effects of ovarian estrogens on local RAS activity in cardiomyocytes and non-cardiomyocytes.
Xuming Sun, Sarfaraz Ahmad, Marina Lin, Gisele Zapata Sudo, Cheping Cheng, Jasmina Varagic, Carlos Ferrario, Hao Wang, Leanne Groban (Winston-Salem, USA and Rio de Janeiro, Brazil)

P7 - Increased Blood Flow by CO2-enriched Water Bath Treatment in Diabetic Rats with Peripheral Ischemia.
Vijayan Elimban, Yan-Jun Xu, Hideo Kumamoto, Hiroaki Hasebe, Naranjan S. Dhall (Tokyo, Japan and New York, USA)

P8 - Integrin alpha-M beta-2 (MAC-1, CD11b/CD18) interacts with SIRPalpha (MFR) during macrophage fusion.
Marketa Hlavackova, Nathaly P. Podolnikova, YiFei Wu, Ivan S. Yermolenko, Tatiana P. Ugarova (Prague, Czech Republic and Tucson, USA)

P9 - High blood pressure awareness campaign in Winnipeg.
Stephanie PB Caligiuri, Alejandro Austria, S. Brian Penner, Grant N. Pierce (Winnipeg, Canada)
Poster Oral Presentation

P10 - Effect of daily dietary supplementation with flaxseed on exercise capacity and cardiac electrical activity in patients with peripheral arterial disease.
Ayelen Rodriguez Portelles, Delfin Rodriguez-Leyva, Randy Guzman, Grant N. Pierce (Winnipeg, Canada)

P11 - Modulation of cardiac specific miRNAs in irradiated rat myocardium after treatment with selected drugs.
Branislav Kura, Chang Yin, Rakesh C. Kukreja, Jan Slezak (Bratislava, Slovakia and Richmond, USA)

P12 - Molecular hydrogen facilitates beneficial effect of hypoxic postconditioning on ischemia-reperfusion injury.
Marek Zálešák, Ján Graban, Branislav Kura, Dezider Pancza, Tatiana Ravingerová, Ján Slezák (Bratislava, Slovakia)

P13 - Oxidized phosphatidylcholine (OxPC) induces cell death through the ferroptotic pathway in isolated adult cardiomyocytes.
Aleksandra Stamenkovic, Kimberley A. O’Hara, David C. Nelson, Grant N. Pierce, Amir Ravandi (Winnipeg, Canada)

P14 - Paraoxonase 1 promotes cholesterol efflux from macrophages by stimulating the PPARγ-LXRα-ABCA1 pathway.
Olivier kamtchueng Simo, Souade Ikhlef, Hicham Berrougui, Abdelouahed Khalil (Sherbrooke, Canada)

P15 - Resveratrol Attenuates Hyperproliferation of Vascular Smooth Muscle Cells from Spontaneously Hypertensive Rats: Role of ROS and ROS-Mediated Signalling.
Sara Almajdoob, Ekhtear Hussain, Yuan Li, Madhu B. Anand-Srivastava (Montreal, Canada)

P16 - Sclera is a direct transcriptional regulator of MMP-2 gene expression.
Raghu Sundaresan Nagalingam, Hamza A. Safi, Rushita A. Bagchi, Michael P. Czubryt (Winnipeg, Canada)

P17 - Potentiation of bradykinin B2R activity by heterologous expression of a newly-identified protein coded by an alternative ORF of the B2R mRNA.
Maxime Gagnon, Martin Savard, Xavier Roucou, Fernand Gobeil (Sherbrooke, Canada)

P18 - Selective replacement of mitochondrial DNA reduces the sensitivity of mitochondrial permeability transition pore to opening in chronically hypoxic hearts of spontaneously hypertensive rats.
Jan Neckář, Anna Chytilová, Zdeněk Drahota, Petra Alánová, Michal Pravenec, František Kolář (Prague, Czech Republic)

**Poster Orations**

**P19 - Angiotensin II receptors modulation of calcium homeostasis in human vascular endothelial cells.**
Johny Al-Khoury, Maud Kamal, Maram Alshahrani, Danielle Jacques, Ghassan Bkaily (Sherbrooke, Canada)

**P20 - Cardioprotective role of Vitamin C in Doxorubicin-induced cardiomyopathy via mitigation of oxidative/nitrosative stress.**
Gauri Akolkar, Danielle da Silva Dias, Prathapan Ayyappan, Katia de Angelis, Davinder Jassal, Pawan Singal (Winnipeg, Canada and Sao Paulo, Brazil)

**P21 - Characterization of the oxidative potential and its relationship with the adipose tissue physiology in fat depots surrounding human heart.**
Kanta Chechi, Pierre Voisine, Patrick Mathieu, Denis Richard (Quebec City, Canada)

**P22 - Deregulation of the E2F Pathway In Post-Natal Myocardium Impacts Metabolic Control and Dilated Cardiomyopathy.**
Jennifer Major, Aaraf Dewan, Marysoon Salih, Balwant S. Tuana (Ottawa, Canada)

**P23 - Early changes in circulating miRNA 133a are indicative of cardiac remodelling after 3 months in patients presenting with acute ST elevation myocardial infarction.**
Fawaz Bardooli, M-Saadeh Suleiman, Elisa McAlindon, Ben Littlejohns, Chiara Bucciarelli-Ducci, Andreas Baumbach (Bristol, United Kingdom)

**P24 - Impact of Higher ApoB/ApoA-1 Ratio on the Hemodynamic Progression of Aortic Stenosis - Results from the PROGRESSA Study.**
Lionel Tastet, Romain Capoulade, Mylène Shen, Marie-Annick Clavel, Nancy Côté, Patrick Mathieu, Marie Arsenault, Élisabeth Bédard, Jonathan Beaudoin, Mathieu Bernier, Jean-G. Dumesnil, Jean-Pierre Després, Philippe Pibarot (Quebec City, Canada)

**P25 - Increased levels of intracellular cAMP attenuate Angiotensin-II-induced expression of the early growth response protein-1 (Egr-1) in vascular smooth muscle cells (VSMC).**
Estelle Rolande Simo Cheyou, Viktoria Youreva, Ashok Srivastava (Montreal, Canada)

**P26 - Involvement of Heat Shock Protein-60 in Vascular Smooth Muscle Cell Proliferation through a Modulation of Nuclear Protein Import.**
Thomas E. Hedley, Justin F. Deniset, Markéta Hlaváčková, Elena Dibrov, Mirna N. Chahine, Grant N. Pierce (Winnipeg, Canada)

**P27 - Leptin-induced cardiomyocyte hypertrophy is associated with enhanced mitochondrial fission.**
Chian Ju Jong, Justin Yeung, Emily Tseung, Morris Karmazyn (London, Ontario, Canada)

**P28 - MiRP2 rescues cardiac slow delayed rectifier K+ channel (IKs) function in long QT syndrome 5.**
Balázs Ördög, Teodóra Hartai, Szilvia Déri, László Virág, Norbert Jost, István Baczkó, Andráš Varró (Szeged, Hungary)

**P29 - Modulation of human adipocyte metabolism for the prevention of type 2 diabetes.**
Thierry Chénard, André Carpentier, André Tchernof, Rafael Najmanovich (Sherbrooke, Canada and Quebec City, Canada)

**P30 - Prenatal Exposure to Gestational and Pre-Gestational Diabetes Impairs Cardiac Relaxation in Youth with Type 2 Diabetes.**
Laetitia Guillemette, Allison Dart, Vernon W. Dolinsky, Davinder Jassal, Elizabeth Sellers, Todd Duhamel, Jonathan McGavock (Winnipeg, Canada)

**P31 - The cardiac specific isoform of tail anchored membrane protein SLMAP1 enhances GLUT4 levels by directing endosomal size and recycling.**
T. Rehmani, A. Dewan, M. Salih, C. Triggle, H. Ding, BS Tuana (Ottawa, Canada and Doha, Quatar)

**P32 - Cardiovascular pharmacology of vasoactive factors revisited in the non-anesthetized mouse.**
Louisane Desbiens, Modou LO, Hanène Touil, Martin Houde, Joseph Mauban, Withrow Gil Weir, Pedro D’Orléans-Juste (Sherbrooke, Canada and Baltimore, USA)

**P33 - Differential passage of mesenchymal stem cells introduces variability in their immunoprivilege – an “Omic”-al perspective.**
Glen Lester Sequiera, Niketa Sareen, Vikram Sharma, Ejlal Abu El-Rub, Saravanan Sekaran, Rakesh Chaudhary, Meenal Moudgil, Subir Roy Chowdhury, Paul Fernyhough, Amir Ravandi, Sanjiv Dhingra (Winnipeg, Canada and Plymouth, United Kingdom)

**P34 - Seven-day overfeeding decreases myocardial dietary fatty acid partitioning in healthy subjects.**
Christophe Noll, Margaret Kunach, Frédérique Frisch, Lucie Bouffard, Stéphanie Dubreuil, Serge Phoenix, Stephen CUNNANE, Brigitte Guérin, Eric Turcotte, Martine Laville, André Carpentier (Sherbrooke, Quebec and Lyon, France)
Award Competition Posters

P35 - Age related differences in the Cardiac Proteome of proteins involved in Signalling and Response to Ischaemia.
Martin Lewis, M.S Suleiman (Bristol, United Kingdom)

P36 - BMP-7 Treatment Induces Monocyte to M2 Macrophage Differentiation and Improves Blood Flow Velocity in Atherosclerosis.
Heidi Shoulders, Dinender Singla (Florida, USA)

P37 - Cardiomyocyte-specific deletion of the G protein-coupled estrogen receptor (GPER) leads to left ventricular dysfunction and adverse remodeling: a sex-specific gene profiling analysis.
Hao Wang, Xuming Sun, Jeff Chou, Marina Lin, Gisele Zapata-Sudo, Carlos M Ferrario, Leanne Groban (Winston-Salem, USA and Rio de Janeiro, Brazil)

P38 - Carotid versus coronary atherosclerosis burdens in acute compared to chronic symptomatic coronary artery disease.
Stéphanie LeBlanc, Karine Bibeau, Valérie Lévesque, Béatrice Deschênes-Saint-Pierre, Philippe Pibarot, Jean-Pierre Després, Eric Larose (Quebec City, Canada)

P39 - Does TAG/FA cycling contribute significantly to cold-induced thermogenesis? Determining the metabolic fate of oversupplied fatty acids during a mild cold exposure in humans.
Denis Blondin, Frédérique Frisch, Serge Phoenix, Brigitte Guérin, Éric E. Turcotte, Denis Richard, François Haman, André Carpentier (Sherbrooke, Canada and Ottawa, Canada)

P40 - Effect of moderate exercise training and continuous normobaric hypoxia on postinfarction heart failure in rats.
Jaroslav Hrdlicka, Jan Neckář, Frantisek Papousek, Jana Vasinova, Petra Alanova, Frantisek Kolar (Prague, Czech Republic)

P41 - Exposure to low-dose ionizing radiation from cardiac procedures and risk of malignancy in adults with congenital heart disease.
Sarah Cohen, Aihua Liu, Michelle Gurvitz, Eva Goossens, Liming Guo, Judith Therrien, Ariane Marelli (Montreal, Canada and Boston, USA and Flanders, Belgium)

P42 - Identification and characterization of a miRNA cohort initiated transitional program that controls cell cycle arrest of the perinatal heart.
Jonathan Weldrick, Patrick G. Burgon (Ottawa, Canada)
P43 - Influence of ACE inhibitors on frailty and cardiac function in middle-aged female C57BL/6 mice.
Alice E. Kane, Kaitlyn M. Keller, Susan E. Howlett (Halifax, Canada)

P44 - Post-translational modification of mitochondrial Ca^{2+} uniporter mediates mitochondrial Ca^{2+} overload and cell death in the heart.
Jin O-Uchi (Providence, USA)

P45 - Prostaglandin E2 mediated secretion of chemokines prevents rejection of implanted allogeneic mesenchymal stem cells and restores post-infarction ventricular function.
Sanjiv Dhingra (Winnipeg, Canada)

P46 - Role of miR-181 Family in the Heart: A Tale of Two Intracellular Compartments.
Samarjit Das, Mark Kohr, Brittany Dunkerly, Djahida Bedja, Oliver Kent, Anthony Leung, Jorge Henao-Mejia, Richard Flavell, Charles Steenbergen (Baltimore, USA and New Haven, USA and Toronto, Canada)

P47 - Role of nuclear T-tubules in human vascular smooth muscle cell function and disease.
Levon Avedanian (Beirut, Lebanon)

P48 - Striatin is a novel risk gene for human dilated cardiomyopathy that regulates cardiomyocyte response to adrenergic stimuli.
Moni Nader, Shahd AlOtaibi, Ebthial Alsolame, Rahmah Alsomali, Nduna Dzimiri (Riyadh, Kingdom of Saudi Arabia)

P49 - Use of high resolution Doppler ultrasound for the diagnosis of endothelial dysfunction in young adults exposed to tobacco.
Ayelen Rodriguez Portelles, Delfin Rodriguez-Leyva (Holguin, Cuba and Winnipeg, Canada)