



Symposium international – Time table

"The challenges of the biological research in aging in the 21st century: from the cells to the clinics"

Sunday 2nd November to Tuesday 4th November 2014

Sunday 2 November

- 17h00 : Welcome Cocktail
- 17h30 : Opening (*P. Cossette/T. Fülöp/P. Gaudreau*)
- 18h00 : Keynote lectures : Claudio Franceschi (University of Bologna, Bologna) :
INFLAMMAGING between garbaging and propag-aging
Katsuike Hirokawa (Tokyo Medical and Dental School, Tokyo)
Research in Immunity and aging in the past, present and future
- 19h30 : Buffet

Monday 3
November

- 7h30 - 8h30 : Poster session
- 8h30 : 1st session : **System biology of aging**
Opening lectures : 8h30 - 9h00 : Anatoliy Yashin (Duke University, Durham) : *Integrative Models of Aging and Mortality: Systems Biology Perspectives*
9h00 - 9h30 : Nir Barzilai (A. Einstein College of Medicine, N.Y.) : *Figuring how to die at a very old age*
Lectures : 9h30 - 9h50 : Joshua Mitteldorf (MIT, Cambridge, MA): *An Epigenetic Aging Clock Controls Development and Senescence*
9h50 -10h30: Short oral presentations from submitted abstracts.
- 10h30 -11h00 : Pause
- 11h00 : 2nd session : **Immunosenescence, infections and vaccines**
Opening lectures: 11h00-11h30 : Graham Pawelec (University of Tübingen, Tübingen) :
Immune frailty: role of viral infection and impact on vaccination in the elderly
11h30-12h00: Daniela Frasca (University of Miami Miller School of Medicine, Miami) : *Molecular mechanisms for the decrease of vaccine responses in the elderly*
Lectures : 12h00-12h20 : Birgit Weinberger (University of Innsbruck, Innsbruck) :
Booster vaccination in the elderly: Diphtheria and Tetanus
12h20-12h40: Jacek M. Witkowski (University of Gdansk, Gdansk) :
Peripheral blood lymphocyte calpain amounts and

activities differentiate between young, elderly and centenarian cohorts and are indispensable for adequate T cell proliferation

12h40-13h00: Janet Lord (University of Birmingham, Birmingham) :
Optimising the aged Immune system

• 13h00-14h30 : Lunch and Posters session

• 14h30 : 3rd session : **Integrative Biology and longitudinal studies**

Opening lectures : 14h30-15h00: Parminder Raina (McMaster university, Hamilton) : *The Canadian Longitudinal Study on Aging as a Research Platform for Cross-Disciplinary Research on Aging: An Update*

15h00-15h30: Alan Cohen (Université de Sherbrooke, Sherbrooke) : *How longitudinal studies can make us rethink the underlying biology of aging*

Lectures : 15h30-15h50: Andrew Clegg (University of Leeds, Bradford, UK) : *Frailty in Older People: From Bench to Bedside and Beyond*

15h50-16h10: Claudine Berr (CHRU Gui de Chauliac Hospital, Montpellier) : *How biobanks can contribute to population cohorts*

16h10-16h30: Arnold Mitnitski (Dalhousie University, Nova Scotia) :
Age associated increase in recovery time as a manifestation of biological aging : deductions, measures and models

• 16h30-17h00 : Pause

• 17h00 : 4th session : **Cellular senescence and cancer (oncogenesis)**

Opening lectures : 17h00-17h30: Anis Larbi (A*Star, Singapore Immune network, Singapore) : *Myeloid versus Lymphoid cells in Human Aging*

17h30-18h00: Jan van Deursen (Mayo Clinic, College of Medicine, Rochester) : *Senescence and cancer : a complex multi-faceted relationship.*

Lectures : 18h00-18h20: Francis Rodier (Université de Montréal, Montréal) :
Exploring senescence-associated molecular networks in human cancer

18h20-18h40: Peiqing Sun (The Scripps Research Institute, La Jolla):
The role of the p38 MAPK pathway in oncogene-induced senescence

18h40-19h00 : Short oral presentations from submitted abstracts.

• 19h00-20h00 : Round table on the major challenges in aging research with the speakers

• 20h00 : Dinner, awards and entertainment

Tuesday 4 November

- 8h30 : 1st session : **Genetics and epigenetics in aging**

Opening lectures : 8h30-9h00 : Michael R. Rose (University of California, Irvine) : *An evolutionary genomic strategy for aging in the 21st century*

9h00-9h30 : Siegfried Hekimi (McGill University, Montréal) : *Pro-longevity ROS signaling is not hormesis*

Lectures : 9h30-9h50 : Robert Tanguay (Université de Laval, Québec) : *The mitoproteome in small HSP- mediated lifespan extension*

9h50-10h10 : Maeve Rea (Queens University Belfast) : *Genetics and Epigenetics in Aging*

10h10-10h30: Michael S. Kobor (University of British Columbia, BC): *Epigenetic Signatures of Human Aging*

- 10h30-11h00 : Pause

- 11h00 : 2nd session : **Cell biology and engineering**

Opening lectures : 11h00-11h30 : Bertrand Friguet (UMPC, Paris) : *The aged proteome – impact of oxidative protein modifications on cellular senescence and aging*

11h30-12h00 : Andres Kriete (Drexel University, Philadelphia) : *Robustness and trade offs - aging from an engineering perspective*

Lectures : 12h00-12h20 : Pierrette Gaudreau (Université de Montréal, Montréal) : *Synaptic plasticity, memory and aging.*

12h20-12h40 : Patrick Vermette (Université de Sherbrooke, Sherbrooke) : *Is there any engineering used in tissue engineering?*

12h40-13h00 : Corinne Hoesli (McGill University, Montréal) : *Induced pluripotent stem cells to study and treat cardiovascular disease and diabetes*

- 13h00-14h30 : Lunch and Lectures : Stephen Cunnane (Université de Sherbrooke, Sherbrooke) : *A clogged gasoline filter – one of the challenges to healthy brain function*
T. Fulop: The future of Geroscience?

- 14h30 : Departure

Scientific Committee :

Tàmàs Fülöp, Sherbrooke - Québec
Véronique Boutier, Sherbrooke - Québec
Rona Graham, Sherbrooke - Québec
Abdeloualed Khalil, Sherbrooke - Québec
Jean-Pierre Perreault, Sherbrooke - Québec
Patrick Vermette, Sherbrooke - Québec
Éléonor Riesco, Sherbrooke - Québec
Dominique Lorrain, Sherbrooke - Québec
Alan Cohen, Sherbrooke - Québec
Pierrette Gaudreau, Montréal - Québec
Robert Tanguay, Québec - Québec

International Scientific Committee :

Graham Pawelec, Tübingen, Allemagne
Jacek Witkowski, Gdansk, Pologne
Anis Larbi, Singapour