



Hôpital général juif
Jewish General Hospital



Institut Lady Davis de recherches médicales | Lady Davis Institute for Medical Research

DISTINGUISHED LECTURE SERIES



Sean J. Morrison, Ph.D.

Professor and Director
Children's Medical Center Research Institute at UT
Southwestern / Pediatrics
Kathryne and Gene Bishop Distinguished Chair in Pediatric
Research at Children's Research Institute at UT Southwestern;
Mary McDermott Cook Chair in Pediatric Genetics

The metabolic regulation of stem cells and cancer

Tuesday, April 16, 2019

12:00 pm – 1:00 pm

LDI BLOOMFIELD LECTURE HALL, F-4 (Ground Floor)

3999, Chemin de la Côte-Ste-Catherine (Corner of Légaré)

Montréal, Québec H3T 1E2 CANADA (Conférence en anglais seulement)

The Morrison laboratory studies the cellular and molecular mechanisms that regulate stem cell function and the role these mechanisms play in cancer. They have identified a series of mechanisms that distinguish the self-renewal of stem cells from the proliferation of restricted progenitors as well as identifying niches that maintains stem cells in adult hematopoietic tissues. The Morrison lab has also studied the mechanisms that regulate metastasis, discovering that melanoma metastasis is limited by oxidative stress. Rare metastasizing cells survive this stress by undergoing metabolic changes that reduce the generation of reactive oxygen species and confer oxidative stress resistance. This suggests the possibility of limiting cancer progression with pro-oxidant therapies that exacerbate the oxidative stress experienced by cancer cells. Dr. Morrison completed a B.Sc. in Biology and Chemistry at Dalhousie University (1991), a Ph.D. in Immunology at Stanford University (1996), and a postdoctoral fellowship in Neurobiology at Caltech (1999). Dr. Morrison is a Howard Hughes Medical Institute Investigator (since 2000), the founding Director of Children's Research Institute at the University of Texas Southwestern Medical Center (since 2011) and was elected to the National Academy of Medicine in 2018. Dr. Morrison served as the President of the International Society for Stem Cell Research (2015-16), has testified before the U.S. Congress, and served as a leader in the successful "Proposal 2" campaign to protect stem cell research in Michigan's state constitution (2008).

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