



100<sup>th</sup> Anniversary of the  
Discovery of Insulin

CMDO Webinar Series

ZOOM Platform

Public event - Free registration!

## Type 1 diabetes: the miracle of insulin and the perspectives of a cure



- **Thursday, May 20, 2021, 12PM-2PM**
- Host: Dr. Sylvie Lesage (UMontreal)
- To register (**English webinar**) - [Click HERE](#)

100 years ago, insulin was discovered in Canada. For type 1 diabetes, it was a miracle drug; it allowed type 1 diabetic patients from all around the world to ... survive!

Type 1 diabetes is an autoimmune disorder, where immune cells destroy insulin-producing cells, and for which insulin administration remains the primary treatment to allow individuals to live with diabetes.

To celebrate the 100th anniversary of the life-changing discovery of insulin, we will hear from Canadian experts. They will describe the impact of discovery of insulin and their vision of how advancements in research will lead to a type 1 diabetes-free world.



**Dr. Jayne Danska, PhD**

***Sex and microbes to understand and cure T1D***

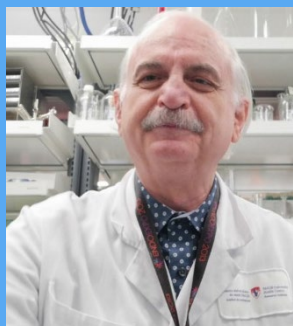
Tanenbaum Chair in Molecular Medicine and Senior Scientist  
Hospital for Sick Children  
Professor, Depts of Immunology, and Medical Biophysics  
University of Toronto, Toronto, Ontario



**Dr. James Shapiro, MD**

***Islet transplantation to cure T1D***

Canada Research Chair in Transplant Surgery and Regenerative Medicine  
Professor of Surgery, University of Alberta



**Dr. Constantin Polychronakos, MD**

***Genetics to predict and cure T1D***

Professor, Department of Pediatrics, Division of Endocrinology  
McGill University



**Dr. Erin Hillhouse, PhD**

***Living with T1D in the hopes of an integrative cure***

Manager, Health Economics and Outcomes Research,  
PeriPharm Inc

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LES PRIX CANADA GAIRDNER AWARDS



Société québécoise  
de lipidologie,  
de nutrition  
et de métabolisme



**CMDO**  
Réseau de recherche en  
santé cardiométabolique,  
diabète et obésité

## ***A journey from 1921 to today!***

***A series of 4 webinars that will take you from the historical  
discovery of insulin to its therapeutic application***

30-minute presentations (interview format with our experts)  
followed by a panel discussion with the audience

### ***L'histoire de l'insuline et du rôle du pancréas dans le diabète***

- **Thursday, May 13, 2021, 11AM-1PM** – Host: Dr. Andre Carpentier (CRCHUS)
- **Speakers:** Dr. Marc Prentki (CRCHUM), Dr. Vincent Poitout (CRCHUM) and Dr. Anne-Marie Carreau (CRCHU de Quebec-UL)
- To register (**French webinar**) - [Click HERE](#)

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### ***Maladies métaboliques et diabète de type 2***

- **Thursday, May 27, 2021, 12PM-2PM** - Host: Dr. Catherine Mounier (UQAM)
- **Speakers:** Dr. Jean-Pierre Despres (VITAM, CIUSSSCN), Dr. Karine Clement (ICAN, Paris) and Dr. Andre Tchernof (CRIUCPQ-UL)
- To register (**French webinar**) - [Click HERE](#)

### ***L'insuline: une hormone aux multiples cibles tissulaires***

- **Thursday, June 10, 2021, 12PM-2PM** - Host: Dr. Andre Marette (CRIUCPQ-UL)
- **Speakers:** Dr Mathieu Laplante (CRIUCPQ-UL), Dr Alexandre Caron (CRIUCPQ-UL), Dr Mathieu Ferron (IRCM) and Dr Fernando Anhe (UMcMaster)
- To register (**French webinar**) - [Click HERE](#)

Watch the video commemorating the discovery of insulin produced by the CMDO Network – [Click HERE](#)

For any question, contact us – [info@rrcmdo.ca](mailto:info@rrcmdo.ca)



## L'histoire de l'insuline et du rôle du pancréas dans le diabète

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100 years ago, Banting, Best, McLeod and Collip discovered and purified insulin, the greatest medical discovery in Canadian history. Insulin quickly saved hundreds of thousands of patients around the world. This first webinar will describe the history of diabetes, the discovery of insulin and the successive advances in the functioning of the endocrine pancreas, allowing for the current treatment of all forms of diabetes.



**Dr Marc Prentki, PhD**

***The history of diabetes until the discovery of insulin***

Professor, University of Montreal  
Researcher, CRCHUM



**Dre Anne-Marie Carreau, MD**

***Medical treatments for diabetes***

Professor, Laval University  
Researcher, CRCHU of Quebec



**Dr Vincent Poitout, PhD**

***Scientific progress after the discovery of insulin***

Professor, Université de Montréal  
Researcher, CRCHUM

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One hundred years ago, insulin was discovered by our Toronto colleague Frederick Banting, making it possible to treat diabetes and thus save the lives of many patients. However, even if insulin made it possible to consider a therapy for diabetes, it could not always improve the lives of patients.

Indeed, in particular conditions such as obesity or unbalanced gut microbiota, the body no longer responds adequately to insulin. Recent research on both the treatment of obesity and the link between the gut microbiota and insulin response allows us to consider new strategies for the treatment of type 2 diabetes and the restoration of an adequate insulin response.



**Dre Karine Clément, MD, PhD**

***The role of the gut microbiota in insulin resistance***

Professor, Sorbonne University - INSERM, Faculty of Medicine  
Director of the Nutrition and Obesity Unit; systemic approaches  
Pitié-Salpêtrière Hospital, Paris, France

**Dr Jean-Pierre Després, PhD**

***The different types of obesity and their impact on quality of life***

Professor, Laval University  
Researcher - Vitam - Centre de recherche en santé durable  
Scientific Director - Centre intégré universitaire de santé et de  
services sociaux de la Capitale-Nationale



**Dr André Tchernof, PhD**

***Bariatric surgery as a treatment for restoration of insulin response***

Professor, Laval University  
Researcher, CRIUCPQ

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This year marks the 100th anniversary of the discovery of insulin, a hormone that performs a variety of physiological functions important for the management of energy metabolism and many other biological systems. Inadequate secretion or resistance to the physiological effects of the hormone contribute to the development of diabetes. In this webinar, we will discuss the different sites of action of insulin, and review the mechanisms involved in the pathophysiology of insulin in the metabolic syndrome.



**Dr Mathieu Laplante, PhD**

***The actions of insulin on adipose tissue and the liver***

Professor, Laval University  
Researcher, CRIUCPQ

**Dr Alexandre Caron, PhD**  
***How does the brain control the effects of insulin?***  
Professor, Laval University  
Researcher, CRIUCPQ



**Dr Mathieu Ferron, PhD**

***Bone...an unexpected target of insulin***

Professor, University of Montreal  
Researcher, IRCM

**Dr Fernando Anhe, PhD**  
***Regulation of insulin by gut microbes***  
Postdoctoral Fellow, McMaster University  
McMaster, Ontario

