



# MONTREAL EPIGENETICS

## Seminar Series

*Invitation from Professors Noël Raynal and Serge McGraw*

**David Labbé, PhD**

Associate Professor  
Department of Surgery, Division of Urology  
McGill University



Add to calendar : <https://evt.to/aomoismmw>

Zoom Link : <https://bit.ly/40hDbLs>

Password : 2023

### **MYC drives aggressive prostate cancer by disrupting transcriptional pause release at androgen receptor targets**

Androgen receptor (AR) and MYC are key to prostate cancer etiology but our current understanding of their interplay is scarce. By integrating “omics” (e.g., bulk and single-cell RNA-seq, ChIP-seq) from a transgenic mouse model of prostate cancer with human tumour transcriptional profiling and clinical data, we show that the oncogenic transcription factor MYC can pause the transcriptional program of the master transcription factor in prostate cancer, AR, while turning on its own, even more lethal program. Our findings suggest that MYC overexpression antagonizes the canonical AR transcriptional program and contributes to prostate tumour initiation, therapy resistance and progression by disrupting transcriptional pause release at AR-regulated genes.

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Tuesday February 7<sup>th</sup> 2023

12h00 -13h00 (EDT)

