

MICROBIOLOGIE, INFECTIOLOGIE ET IMMUNOLOGIE

Université 
de Montréal

CONFÉRENCE

Dr Christopher E. Rudd

Professeur titulaire
Faculté de médecine - Département de médecine
Université de Montréal

Novel adaptive signaling pathways that regulate T-cell induce inflammation and cancer therapy

Despite the importance of the co-receptor PD-1 in regulating T cell immunity, the upstream signaling pathway(s) that regulate PD-1 expression has not been defined. Glycogen synthase kinase 3 (GSK-3, isoform α and β) is a serine-threonine kinase implicated in cellular processes. We recently showed that GSK-3 is a key upstream kinase that regulates PD-1 transcription and expression in CD8⁺ T cells. GSK-3 inactivation increased *Tbx21* transcription for enhanced Tbet expression, and its suppression of *Pdcd1* transcription in CD8⁺ cytolytic T-cells (CTLs). We outline a next generation approach using small molecules to inhibit PD-1 expression is as effective as anti-PD-1/PL1 biologics in immunotherapy.

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Pavillon Claire-McNicoll, salle Z-210

Invité par Dr George Szatmari
Tél: (514) 343-5767
Courriel: george.szatmari@umontreal.ca