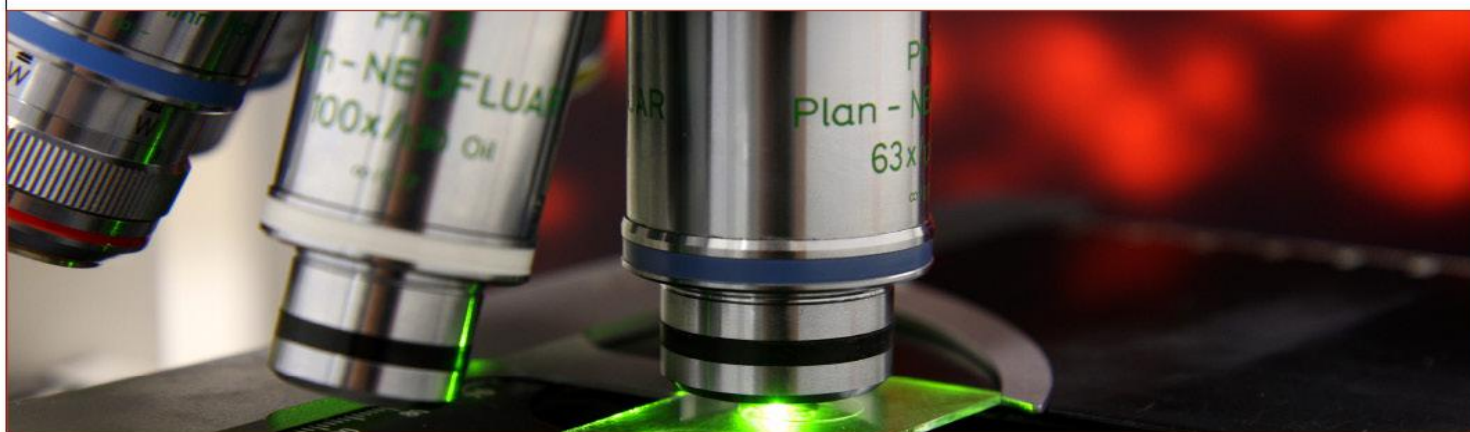


SÉMINAIRES ET CONFÉRENCES



Kazuhiro Abe, Ph.D.

**Professor, Organic and Biological Chemistry
Hokkaido University**

“ Un vieux singe apprend de nouvelles grimaces: structural basis of the sodium pump supramolecular complex ”

The sodium pump (Na^+, K^+ -ATPase, ATP1A1) mediates the ATP-driven uphill transport of three Na^+ and two K^+ ions across the plasma membrane. Since its discovery in 1957 by Jens C. Skou, its transport mechanisms have been extensively studied from biochemical, physiological, and structural perspectives for over half a century. Indeed, its transport cycle is a staple of biological textbooks, and more than 150 crystal and cryo-EM structures are now registered in the PDB. Nevertheless, we have recently uncovered a previously unknown cellular mechanism mediated by this well-studied membrane protein—our "vieux singe". In this presentation, I will introduce our recent discovery of phospholipid scrambling induced by a novel sodium pump supramolecular complex and its structural basis.



Faculté de médecine
Département de biochimie
et médecine moléculaire

Université 
de Montréal

Le jeudi 7 mai, 12h30

Pavillon Joseph-Armand-Bombardier, Salle : 1035

et

[Zoom](#)

invité de James Omichinski
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