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Regulating the Regulators: Insights into mitotic kinase function in space and time

LE JEUDI 6 FÉVRIER 2020 À 12 H 30

Pavillon Charles-Eugène-Marchand, salle Hydro-Québec (1210)

Mitosis is driven by the balance of signalling between kinases and phosphatases which collectively ensure the accurate attachment of chromosomes to the mitotic spindle and their correct separation into each of the nascent daughter cells. They accomplish this through regulation of the spindle assembly checkpoint, a signalling cascade that monitors the proper attachment between chromosomes and the spindle. Mitotic kinases are generally atypical kinases and do not belong to any of the major subfamilies and have therefore been difficult to study. Our lab is interested in how these enzymes are activated and inactivated as mitosis progresses. We have used over the years a multidisciplinary approach including bioinformatics and evolutionary biology, structural biochemistry and cell biology approaches to understand their regulation and identify novel substrates. I will discuss some recent unpublished progress from our lab describing how one such protein is involved in both activation and inactivation of the Spindle assembly checkpoint.

Lunch et breuvages seront offerts.

SVP confirmer votre présence (Nom et prénom) sur :

<https://doodle.com/poll/6xyrdg7svc4gm8af>

avant le mercredi 5 février, 10 h

Hôte : Christian Landry

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