



Guillaume Chomicki, Professor and NERC & ERC-UKRI
Department of Biosciences
Durham University, United Kingdom

Mutualistic dependence and its impact on the evolution and stability of cooperation among species

Jeudi 13 avril 2023 à 12 H 30

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

Vous pouvez maintenant assister à la conférence via Zoom en cliquant sur ce lien :
Accéder à la vidéoconférence (pour une expérience plus agréable, préférez l'installation de l'application Zoom à l'utilisation du navigateur). >> **Instructions pour la configuration de l'audio** <<

Abstract:

Widespread in nature, mutualistic associations –cooperative interactions between unrelated species– are linked to major evolutionary transitions and are pivotal for ecosystem functioning. The evolution and subsequent stability of mutualisms has long been a riddle: while they are thought to be prone to breakdown, some have persisted for millions of years. In this talk, I will focus on mutualistic dependence – the degree to which a partner is dependent on the interaction for survival or reproduction. Drawing from examples from my research using ant/plant symbioses, I will show that (i) mutualistic dependence is critical in determining the stability of mutualism over the geologic scale, (ii) how highly dependent and specialized mutualisms deal with exploitation and (iii) how cooperation is maintained in low-dependence multi-partner mutualisms.

Hôte: Juan Carlos Villarreal Aguilar

Responsable: Juan Carlos Villarreal Aguilar et Davoud Torkamaneh
juan-carlos.villarreal-aguilar@bio.ulaval.ca;et davoud.torkamaneh.1@ulaval.ca