



Conférence

Centre de recherche du CHU de Québec-Université Laval



Dr Jean-Sébastien Joyal, MD, PhD

Professeur agrégé sous contrat, Pédiatrie et Ophtalmologie,
Pédiatre-Intensiviste, CHU Sainte-Justine
Université de Montréal

Invité par : Stéphanie Proulx, PhD
Chercheuse, Centre de recherche en organogenèse expérimentale
de l'Université Laval / LOEX

Date : 5 juin 2023

Heure : 11 h

Lieu : CHU de Québec-Université Laval, site HEJ, CIC, salle G0.118
Possibilité d'assister virtuellement (Zoom)



Cellular Cartography: Mapping the Metabolic Landscape of Retinal Neovascular Niches One Cell at a Time

Vessels supply nutrients and oxygen to meet the energy demands of neurons. We use the eye as a model to explore the role of energy metabolism in neurovascular coupling. Using fuel-uptake deficient transgenic mice models, we investigate the role of various fuel substrates on neuro-vascular coupling, namely glucose and lipids, and their downstream metabolites produced under physiological and pathological conditions. Our work suggests that we can preserve neuronal function by regulating retinal energy demands and improving vascular regeneration. To map the metabolic landscape of the retina, we created a single-cell transcriptomic platform, offering sample preparation and bioinformatics services to Quebec vision researchers.

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Visioconférence

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veronique.germain@crchudequebec.ulaval.ca