

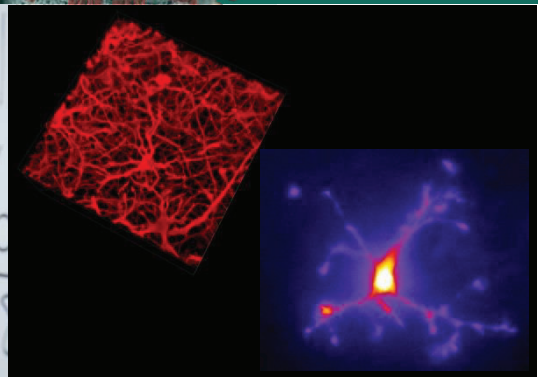
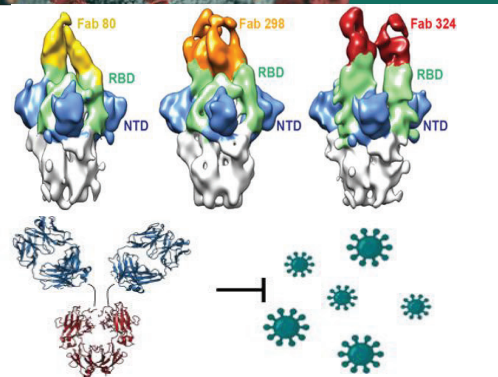


# SICKKIDS RESEARCH INSTITUTE SEMINAR SERIES

# RESEARCH CONNECTIONS

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# COVID-19 SERIES



## Featured Speakers

### **Michelle Science,** **MD, MSc**

Staff Physician, Division of Infectious Diseases and Project Investigator, Research Institute, SickKids; Assistant Professor, Department of Paediatrics, University of Toronto

### **Jean-Philippe Julien,** **PhD**

Senior Scientist, Molecular Medicine, SickKids; Associate Professor, Departments of Biochemistry and Immunology, University of Toronto

### **Julien Muffat,** **PhD**

Scientist, Neurosciences & Mental Health, SickKids; Assistant Professor, Department of Molecular Genetics, University of Toronto, Medicine by Design Investigator

## Masked education: A randomized controlled trial of masking in the classroom

### **Michelle Science**

The primary objective of this study is to evaluate the impact of the use of face masks/coverings, across various children's age groups, on hand-to-face contact among students in a simulated class environment.

## Breadth and potency of SARS-CoV-2 neutralizing antibodies

### **Jean-Philippe Julien**

Challenges and opportunities for the development of antibodies with the broadest ability to neutralize diverse viral isolates at the lowest possible concentration in the quest to curb infections by RNA viruses.

## Tissue mimics to understand the impact of COVID-19 on the human brain

### **Julien Muffat**

A presentation of how our team is able to generate a comprehensive set of human brain cells in the dish, and assemble them into brain-like tissue to study how SARS-CoV-2 infects or inflames the nervous system, resulting in neurological symptoms of COVID-19.