

# 5<sup>th</sup> Annual Montreal Oscillometry Summer Seminar

Oscillometry Unit, Centre for Innovative Medicine, and the Meakins-Christie Labs, MUHC-RI

Part I: via Zoom, July 21, 2021, 7:00-9:00 h

**7:00 h Ron Dandurand, McGill University, Canada**

Welcome to the seminar

**7:20 h Charlie Irvin, University of Vermont, U.S.A.**

Small airways redux: Experimental approaches to exploring the black holes of the lung

**Discussant: Ron Dandurand, McGill University, Canada**

**7:40 h Frederik Trinkmann, University of Heidelberg, Germany**

More than just a diagnostic tool - practical applications of oscillometry in patients with Asthma and COPD

**Discussant: Chung-Wai Chow, University of Toronto, Canada**

**8:00 h Cindy Thamrin, University of Sydney, Australia**

Variability in airway and lung mechanics - insights from telemonitoring in asthma and COPD

**Discussant: Rajoshi Biswas, Cognita Labs, California, U.S.A.**

**8:20 h Azadeh Yadollahi, University of Toronto, Canada**

Effect of simulated obstructive apnea on thoracic fluid volume and airway narrowing in asthma

**Discussants: David Kaminsky, University of Vermont, U.S.A.**

**8:40 h Farah Al-Huda, McGill University, Canada**

TremoFlo N-100: A tool for measuring lung function in newborns

**Discussant: Diane Gray, University of Cape Town, South Africa**



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Part II: via Zoom, July 28, 2021, 7:00-9:00 h

**7:00 h Ron Dandurand, McGill University, Canada**

Welcome back to the seminar

**7:01 h Kate Smith, University of Colorado, U.S.A.**

Oscillometry in children with Down syndrome and complex airway conditions

**Discussant: Sam Bayat, Université Grenoble Alpes, France**

**7:20 h Sam Bayat, Université Grenoble Alpes, France**

Association between oscillometry parameters and respiratory outcomes in 3-year old children: the SEPAGES cohort

**Discussant: Kate Smith, University of Colorado, U.S.A.**

**7:40 h Geoff Maksym, Dalhousie University, Canada**

Frequency dependence of resistance – Nonlinearities in tissue and heterogeneities in chronic lung allograft dysfunction

**Discussant: Zoltan Hantos, Semmelweis University, Hungary**

**8:00 h Zoltan Hantos, Semmelweis University, Hungary**

Respiratory impedance: frequency or time approach?

**Discussant: Geoff Maksym, Dalhousie University, Canada**

**8:20 h Chung-Wai Chow, University of Toronto, Canada**

Oscillometry as a biomarker of graft injury following lung transplant

**Discussant: Ynuke Bossé, Université Laval, Canada**

**8:40 h Katharine Tsukahara, University of Pennsylvania, U.S.A.**

Design and implementation of a multicenter protocol to obtain oscillometry data in preterm children

**Discussant: Shannon Simpson, Telethon Kids Institute, Australia**



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Part III: via Zoom, August 4, 2021, 7:00-9:00 h

**7:00 h Ron Dandurand, McGill University, Canada**

Welcome back, yet again, to the seminar

**7:20 h Shaakira Chaya, University of Cape Town, South Africa**

Indoor pollution or tobacco smoke exposure and lung function at 3 years in an African birth cohort

**Discussant: Julian Allen, University of Pennsylvania, U.S.A.**

**7:40 h Shaakira Chaya, University of Cape Town, South Africa**

Oscillometry in healthy South African children and adolescents

**Discussant: Larry Lands, McGill University, Canada**

**8:00 h Ramon Farre, University of Barcelona, Spain**

Cellular oscillometry

**Discussant: Jeff Fredberg, Harvard School of Public Health, U.S.A.**

**8:20 h Kenneth Berger, New York University, U.S.A.**

Small airway dysfunction during exercise as a potential mechanism for unexplained exertional dyspnea

**Discussant: Bryan Ross, McGill University, Canada**

**8:40 h Beno Oppenheimer, New York University, U.S.A.**

Metabolic syndrome is associated with exaggerated small airway dysfunction and respiratory symptoms in obese subjects

**Discussant: Andrew Kouri, University of Toronto, Canada**



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Part IV: via Zoom, August 11, 2021, 7:00-9:00 h

**7:00 h Ron Dandurand, McGill University, Canada**

Welcome back to the seminar...again, again and yet, again!

**7:20 h Jason Bates, University of Vermont, U.S.A.**

Breath-driven oscillometry: the patient does ALL the work

**Discussant: David Kaczka, University of Iowa, U.S.A.**

**7:40 h David Kaczka, University of Iowa, U.S.A.**

Oscillometric perspectives of liquid ventilation: Insights from computational modeling

**Discussant: Jason Bates, University of Vermont, U.S.A.**

**8:00 h Ireri Thirion, Instituto Nacional de Enfermedades Respiratorias, Mexico**

IOS in tobacco, marijuana and other inhaled substances

**Discussant: Natalie Belousova, University of Toronto, Canada**

**8:20 h Laura Gochicoa, Instituto Nacional de Enfermedades Respiratorias, Mexico**

Factors related with IOS values in 530 post-COVID-19 patients after 6-42 weeks of follow-up

**Discussant: Deborah Assayag, McGill University, Canada**

**8:40 h Sarah Svenningsen, McMaster University, Canada**

Inspiratory and expiratory respiratory system resistance and reactance in severe asthma pre- and post-bronchodilator

**Discussant: Grace Parraga, University of Western Ontario, Canada**

