Caroline Duchaine

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Friday, October 16 | **ZOOM** | 2:00-3:15 PM

Title | Why is it so difficult to agree on COVID-19 modes of transmission?

Abstract | The study of the role of bioaerosols in the transmission of COVID-19 is complex and the emergency is leading to an unprecedented mobilization of global scientific resources. In the absence of standardized methods for studying bioaerosols, interpretation of the data must be carried out with caution and rigor. The multidisciplinary approach is essential in order to document the behavior of the virus in aerosols and attempting to understand the role of air in the transmission of the virus. The contribution of several uncommonly associated sciences adds to the challenge of communicating the results. This presentation will overview the foundations of bioaerosol science, the tools to study them, both on the field and in the laboratory, the various sciences used, the most important knowledge that researchers have in hand and the challenges associated with this. research.

Bio | Caroline Duchaine is a full professor in the department of biochemistry, microbiology and bioinformatics, Unversité Laval, researcher at the Research Center of the l'Institut universitaire de cardiologie et de pneumologie de Québec-Université Laval and holder of the Canada Research Chair on Bioaerosols. Since 2000, she has headed the bioaerosol research team, leader in aerovirology, air microbiota analyzes, in vitro bioaerosols, industrial hygiene and agricultural health. She works closely with doctors, engineers, agronomists and physicists in order to develop transdisciplinary research projects aimed at understanding the role of bioaerosols in several contexts: public health, veterinary, agriculture, industry and hospitals. She has supervised more than 115 students and participated in more than 110 research projects, funded by provincial, national and international agencies. She has published 152 peer-reviewed manuscripts, 30 reports, 320 abstracts, and 60 invited lectures. She holds a Canada Research Chair in Bioaerosols and has been a FRQS and CIHR Fellow.

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