

ISOCS Online Short Course Summer 2021 - 26-28 May 2021

# Smelling COVID-19: *Biomarkers, Olfaction and a Pandemic Agent*

Develop your knowledge of machine and canine olfaction and its application to breath analysis for the diagnosis of Covid-19

**Topics:**

- Covid-19 and its impact on human olfaction
- Canine olfaction for COVID-19 detection
- Breath Analysis and disease diagnostics using artificial olfaction
- Complex volatiles analysis & COVID-19 biomarkers
- Electronic noses & GC-IMS for Covid-19 diagnosis
- Comparison of artificial and canine olfaction
- Environmental chemistry drivers of the COVID-19 pandemic

**Speakers include:**

- Prof. Dominique Grandjean, ENVA, France
- Dr. Thierry Thomas Danguin, INRAE, France
- Dr. Emma Brodrick, IMSPEX Diagnostics LTD.
- Prof. Corrado Di Natale, Uni. Tor Vergata, Roma
- Prof. Eugenio Martinelli, Uni. Tor Vergata, Roma
- Prof. Hossam Haick, Technion, Israel
- Prof. Giuseppe Lippi, Uni. of Parma
- Prof. Gianluigi Barbieri, Uni. of Trieste

The COVID-19 pandemic is impacting human health and societies at an unprecedented scale. Success in controlling the pandemic and reducing its impact is strongly dependent on *fast and low cost screening techniques*. Olfaction may play a significant role through exploiting *mammals (canine) olfaction sense and their artificial counterpart*.

**The ISOCS 2021 Summer school** will provide to scholars, students and industry the widest view on the subject, involving global commercial and academic players in an interactive series of lectures that will cover both fundamental concepts and practical aspects of olfaction science applied to COVID-19 diagnosis and its environmental impacts.

## Who should attend?

The Short Course is ideal for anyone with an interest in breath analysis, breath sampling and chemical sensors and their application to Covid-19; for example, PhD students, researchers, technologists and industrialists.

This Short Courses organized by ISOCS and are a unique combination of fundamental theory and practical lectures. They provide a head start into selected topics of current research and new developments in the area of chemical sensing and olfaction. Ample opportunity is given for discussion and networking.

**Price Students:** 20 Euros **Academics/Industry:** 40 Euros **Both** include free 1-year ISOCS membership

International Society on Olfactions and Chemical Sensing

Register now at: <https://www.olfactionsociety.org/summercourse2021>