

Half Day Short Course

A05. (Microfluidic) Paper-Based Analytical Devices – (μ)PADs From Basics to Applications

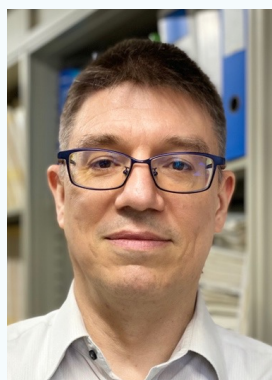
Content

1. General introduction
2. Microfluidic patterning of paper substrates
3. Printing technologies and (μ)PADs
4. Microfluidics without valves: sequential reagent delivery, sample volume control
5. Major signal detection methods (quantitative and semi-quantitative)
6. Challenges specific to (μ)PADs
7. Selected examples of (μ)PADs
8. Questions & Answers

Details

Instructor	Prof. Daniel Citterio Keio University
Date	27 August 2023
Time	13:30–16:30 h
Duration	3 h plus coffee break
Location	CICG Geneva
Fees	130 CHF (delegate) 80 CHF (student)
Included	Coffee break If booking 2 courses: lunch

Instructor



Prof. D. Citterio

Daniel Citterio is a Professor in Analytical Chemistry at the Department of Applied Chemistry of Keio University in Yokohama, Japan. He has published more than 40 papers on the topic of (microfluidic) paper-based or thread-based analytical devices, as well as other analytical approaches relying on printed analytical devices.

He has published invited review articles on this topic in *Angewandte Chemie (Wiley)*, as well as in *Lab on a Chip (RSC)*. His research interests include the

development of low-cost analytical devices for on-site applications, as well as functional organic dyes for optical

sensing and imaging. He is currently a co-Editor-in-Chief of *Sensors and Actuators B: Chemical*, published by Elsevier. He has also served as an international advisory board member for *Analytical and Bioanalytical Chemistry (Springer Nature)*, as well as *Analytical Chemistry (ACS)*.