

# **Microscopy and Convergence Technology**

## **(Microfluidics / Raman analysis)**

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Optofluidics has emerged as a powerful platform that combines the strengths of photonics and fluidics to tackle complex multidisciplinary questions. The seamless integration of optical microscopy with microfluidic systems enables nano/micro material characterization, quantitative analysis and real-time monitoring of dynamic biological processes. In this summer school presentation, I will introduce the fundamentals and recent advancements in optical microscopy and showcase selected examples of optofluidic platforms that integrate microfluidics with Raman spectroscopy and other convergence technologies.