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VIDEODROP BY MYRIADE: A NEW WAY TO SEE VIRUSES IN A DROPLET

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Enumerating and distinguishing nanoparticles such as viruses, extracellular vesicles (ECV) or phages are major importance for many applications such as bioproduction of viral vectors for cell therapy, phages batches manufacturing or ECV for drug delivery. Detection methods such as PCR or epifluorescence microscopy for these applications are quite time-consuming and not easy to implement without labelling or damaging the sample. Moreover, there are currently no existing optical methods which are able to discriminate vesicles in real time. Thus, we develop a new technique based on full-field interferometry which makes possible the counting and characterization of nanoparticles in the range 30-200 nm, in real-time, without labelling and with a 5 μ L droplet (Boccara et al, Biomed. Opt. Exp. 2016).

Biography

Luc Talini is an Engineer from ESPCI and Doctor in Physics, from the University of Pierre and Marie Curie (Paris, France). Just after his PhD, he started his own science expertise and consulting firm for SMEs. He then joined the Neurobiology lab at ESPCI to promote its DNA microarray unit. Then, he founded biotech firm GeneScore that specialized in designing and producing DNA microarrays. He ran the company until June 2005, then became Program Director for the CEDIB (a bioengineering innovation center). He was also a Project Manager at Paris Diderot University's Tech Transfer Office and Director of technological development at Echosens, a french medical device company. In 2010, he founded Quattrocento, a company builder specialized in life science tools. He is also the CEO of Myriade, one of the eight companies he has created since.

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