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MICROFLUIDICS FOR CIRCULATING BIOMARKERS ANALYSIS

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There is a strong need to develop and apply innovative approaches in the field of cancer clinics and diagnosis. In this context, microfluidics is considered as a candidate technology that can help answering fundamental and applied questions. Besides, as reported a few years ago by Nicole Pamme (Lab Chip, 2005), the combination of microfluidics and magnetism emerges as highly valuable combination for a wide range of applications. This has been demonstrated in many cases by using magnetism for pumping liquid or ferrofluids for valving or directly by working with magnetic (nano/micro) particles as solid support for bioreactions. We shall present the technological developments pioneered by our team based on the combination of magnetic particles and microfluidics. Also, how these approaches can be implemented to tackle the challenge of both cellular and molecular circulating biomarkers analysis will be demonstrated.

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