Università degli Studi di Ferrara | Dipartimento di Medicina Traslazionale e per la Romagna

Università degli Studi di Ferrara
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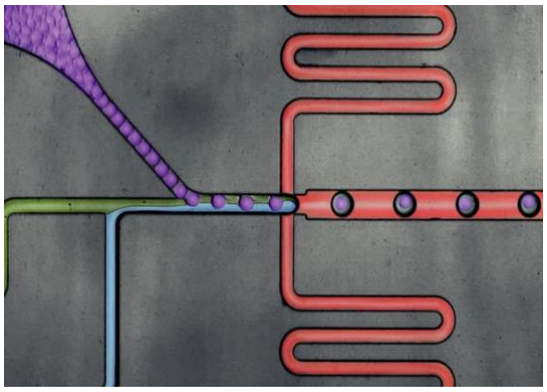
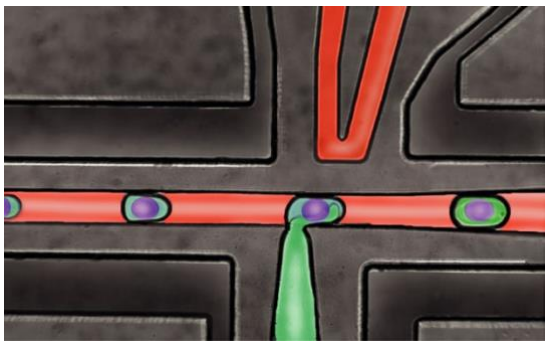
SEPTEMBER 25th
at 3:00 p.m.

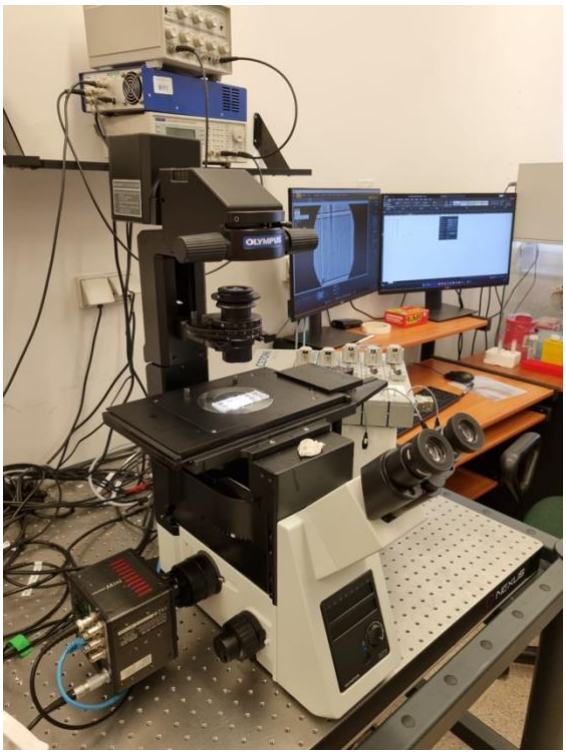
Aula Canani, Vecchi Istituiti Biologici
Via Fossato di Mortara 64, Ferrara

There will be a seminar entitled:

"Single-cell assays in microdroplets"







Speaker: Dr. Ing. Tomasz Kaminski
Department of Biochemistry, University of Cambridge
Department of Environmental Microbiology and Biotechnology, University of Warsaw

Organizer: Prof. Stefano Volinia
Department of Translational Medicine, UNIFE

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Single-cell assays in microdroplets

Abstract: Water-in-oil droplets, made and handled in microfluidic devices, provide a new experimental format in which ultra-high-throughput experiments can be conducted faster and with minimal reagent consumption. This seminar will present our novel microfluidic technologies for enzyme engineering, functional screening and transcriptomic profiling of single cells. We have demonstrated that multistep single-cell genomics methods, such as VASA-seq, enable the best-in-class RNA capture efficiency of both non-polyadenylated and polyadenylated transcripts across the entire transcript length. Recently we have applied these novel methods to generate the first large-scale total-RNA-seq atlas profiling mouse gastrulation and early organogenesis.

For more information:

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