SMiLS '23

Swedish Microfluidics Network

KTH VETENSKAP OCH KONST

Stockholm University

30-31 May 2023, Stockholm

Keynote speakers:

- Prof. Jeroen Lammertyn (KU Leuven, Belgium)
- Prof. Jacqueline Linnes (Purdue University, USA)
- Prof. Shoji Takeuchi (University of Tokyo, Japan)
- Prof. Séverine Le Gac (University of Twente, the Netherlands)

Oral presentations
Pitch-and-poster sessions
Industrial exhibits
Networking breaks
Presentation awards






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Chairs: Prof. Nicole Pamme & Prof. Wouter Metsola van der Wijngaart

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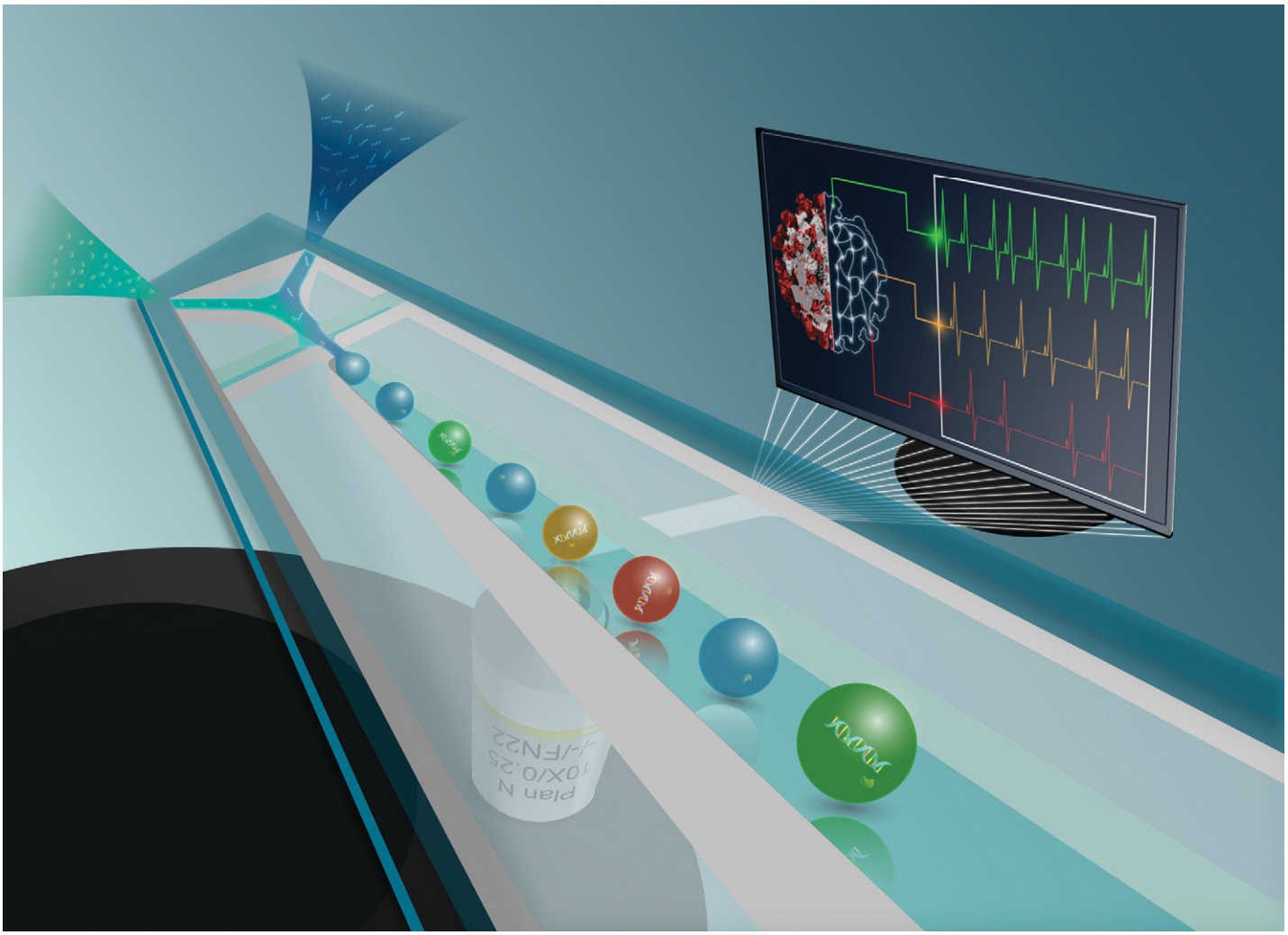

Showcasing research from Professor Bong Geun Chung's laboratory, Department of Mechanical Engineering, Sogang University, Seoul, Republic of Korea.

Droplet digital recombinase polymerase amplification for multiplexed detection of human coronavirus

The multiplexed droplet digital recombinase polymerase amplification (MddRPA) assay offers rapid, precise, and accurate molecular diagnosis of viral infections through a droplet-based microfluidic chip. The chip facilitates the rapid mixing of master mix and initiator within well-confined droplets, enabling precise initiation of the isothermal amplification. With high specificity and sensitivity, three types of human coronavirus are simultaneously quantified within 30 minutes. The MddRPA assay demonstrates its potential as a reliable tool, paving the way for advancements in molecular diagnostics.

As featured in:

See Bong Geun Chung *et al.*, *Lab Chip*, 2023, **23**, 2389.

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