

Lab on a Chip

Devices and applications at the micro- and nanoscale
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Cover

See Xiaodong He *et al.*,
pp. 8–19.

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Droplet manipulation on an adjustable closed-open digital microfluidic system utilizing asymmetric EWOD

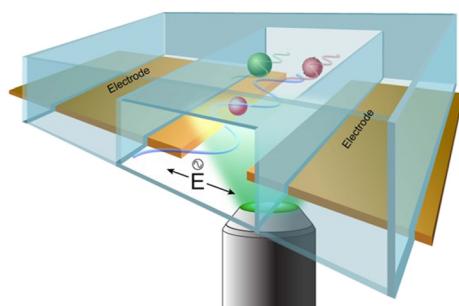
Jingsong Xu, Xingcheng Wang, Qingyuan Huang
and Xiaodong He*



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Measuring the electrophoretic mobility and size of single particles using microfluidic transverse AC electrophoresis (TrACE)

M. Hannah Choi,* Liu Hong, Leonardo P. Chamorro,
Boyd Edwards and Aaron T. Timperman*



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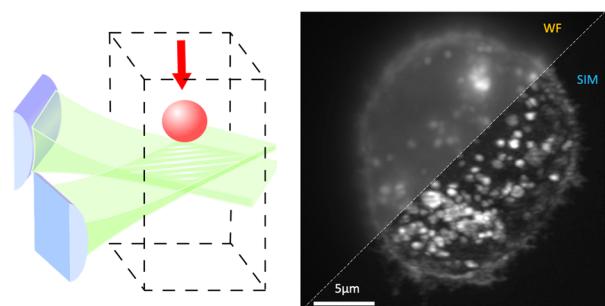
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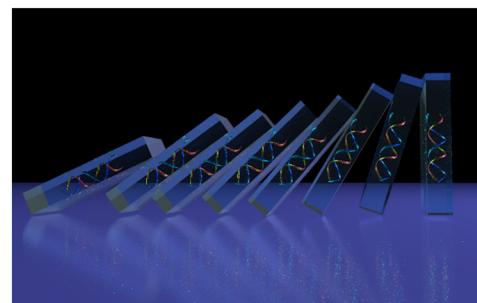
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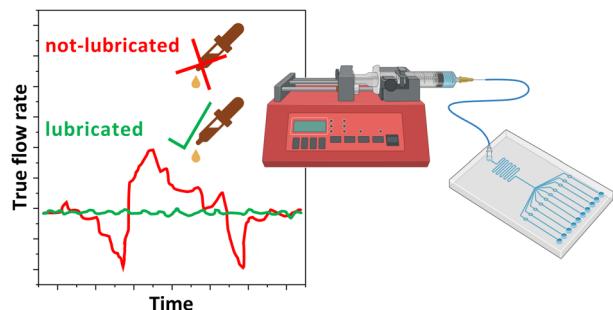
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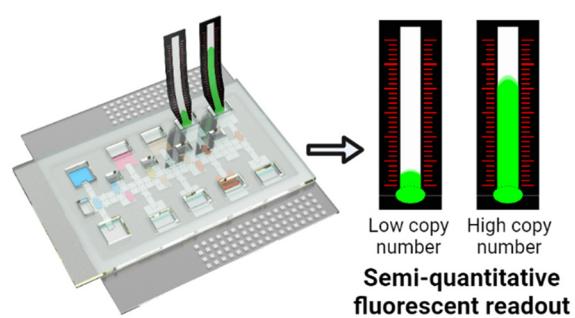
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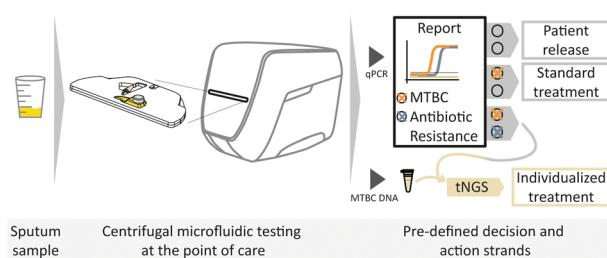
Digital microfluidics with distance-based detection – a new approach for nucleic acid diagnostics

Man Ho, N. Sathishkumar, Alexandros A. Sklavounos, Jianxian Sun, Ivy Yang, Kevin P. Nichols and Aaron R. Wheeler*



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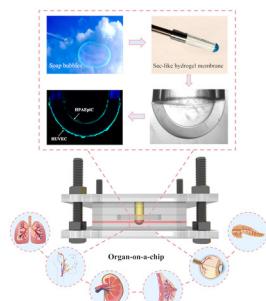
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Two-stage tuberculosis diagnostics: combining centrifugal microfluidics to detect TB infection and Inh and Rif resistance at the point of care with subsequent antibiotic resistance profiling by targeted NGS

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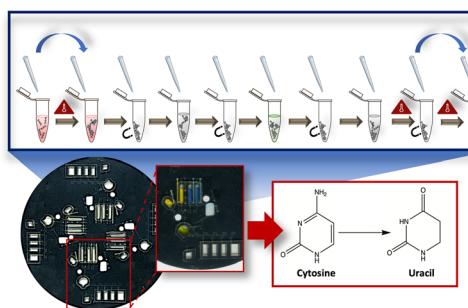
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Fabrication of sac-like hydrogel membranes for replicating curved tissue barriers on chips

Wenqi She, Chong Shen, Yinghua Ying and Qin Meng*

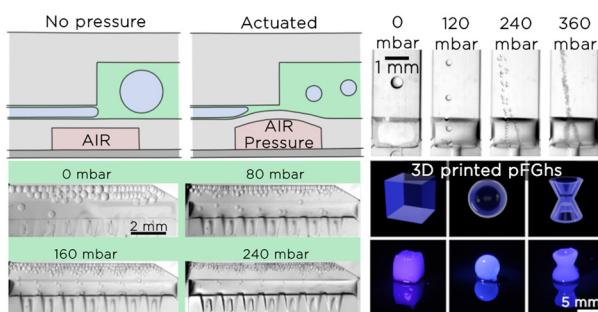
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A rotationally-driven dynamic solid phase sodium bisulfite conversion disc for forensic epigenetic sample preparation

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Tuna-step: tunable parallelized step emulsification for the generation of droplets with dynamic volume control to 3D print functionally graded porous materials

Francesco Nalin, Maria Celeste Tirelli, Piotr Garstecki, Witold Postek* and Marco Costantini*

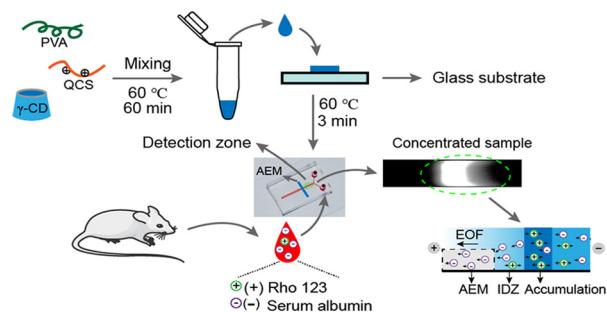


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High-performance cation electrokinetic concentrator based on a γ -CD/QCS/PVA composite and microchip for evaluating the activity of P-glycoprotein without any interference from serum albumin

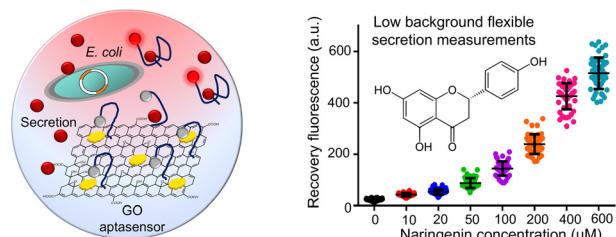
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Graphene oxide aptasensor droplet assay for detection of metabolites secreted by single cells applied to synthetic biology

Dan Zheng, Jingyun Zhang, Wenxin Jiang, Ying Xu, Haixu Meng, Chueh Loo Poh* and Chia-Hung Chen*



CORRECTIONS

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Correction: Measuring the electrophoretic mobility and size of single particles using microfluidic transverse AC electrophoresis (TrACE)

M. Hannah Choi,* Liu Hong, Leonardo P. Chamorro, Boyd Edwards and Aaron T. Timperman*

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Correction: Enhanced cardiomyocyte structural and functional anisotropy through synergistic combination of topographical, conductive, and mechanical stimulation

Jongyun Kim, Arunkumar Shanmugasundaram, Cheong Bin Lee, Jae Rim Kim, Jeong Jae Park, Eung-Sam Kim, Bong-Kee Lee and Dong-Weon Lee*

