Lab on a Chip

Devices and applications at the micro- and nanoscale

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Cover
See Junyi Yang and Peichun Amy Tsai, pp. 2146–2162.
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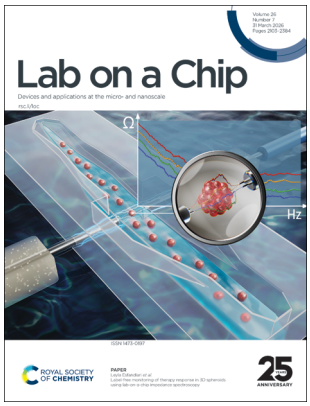

Inside cover
See Leyla Esfandiari *et al.*, pp. 2163–2172.
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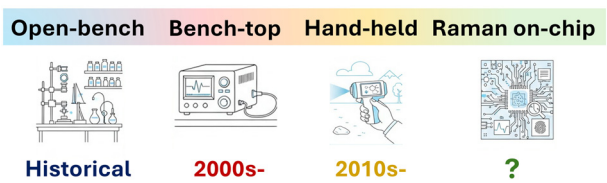
CRITICAL REVIEW



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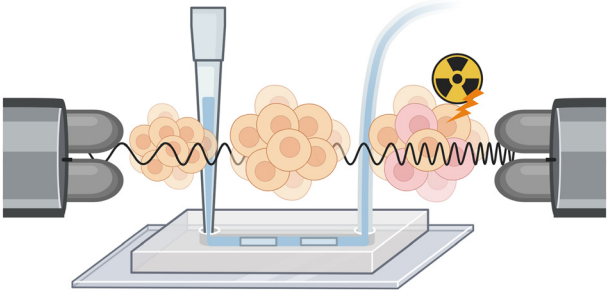

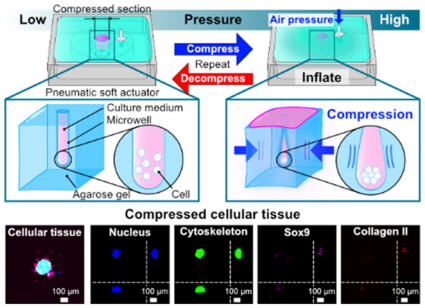

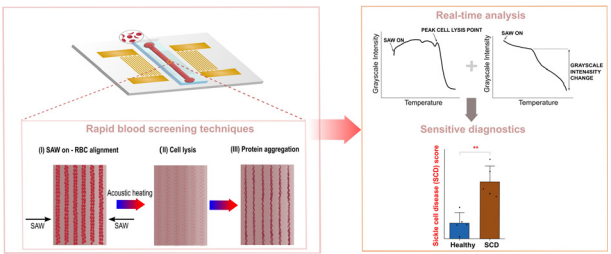

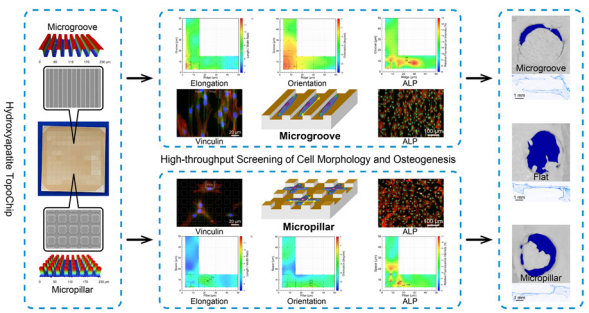

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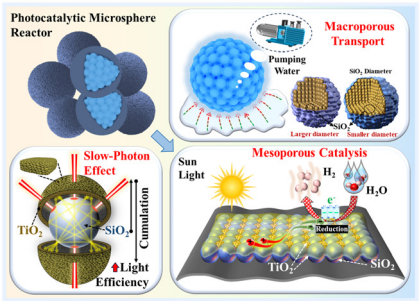

Macroporous transport – mesoporous catalysis: a rapid microfluidic-fabricated biomimetic sponge photocatalytic microsphere reactor

Qikai Wang, Wenwen Shi, Qihang Yang, Feng Teng* and Qiuhong Cui*

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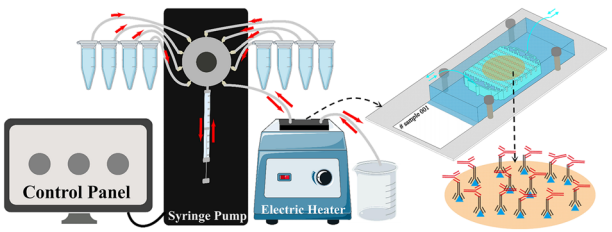
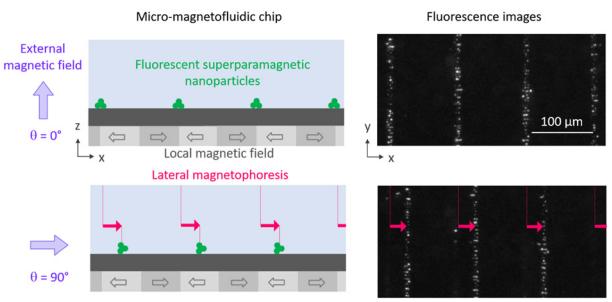


An automated microfluidic system based on V-groove chip for rapid immunohistochemistry

Lu Zhong, Hang Chen, Hong-Lei Chen, Jun Peng and Zhi-Ling Zhang*

2237



Fast and precise magnetophoresis of superparamagnetic nanoparticles on a micro-magnetic substrate in a static liquid environment

Elise Bou,* Claudia de la Fuente, Etienne Orsini, Sarah Delshadi, Orphée Cugat* and Franz Bruckert*

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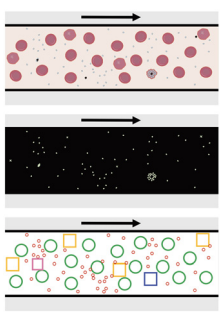

Microfluidic platform for automatic quantification of malaria parasite invasion under physiological flow conditions

Emma Kals,* Morten Kals, Viola Introini, Boyko Vodenicharski, Jurij Kotar, Julian C. Rayner* and Pietro Cicuta*

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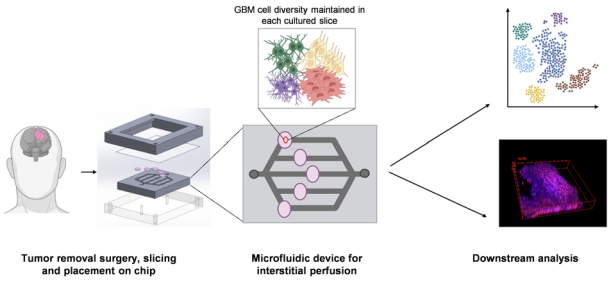

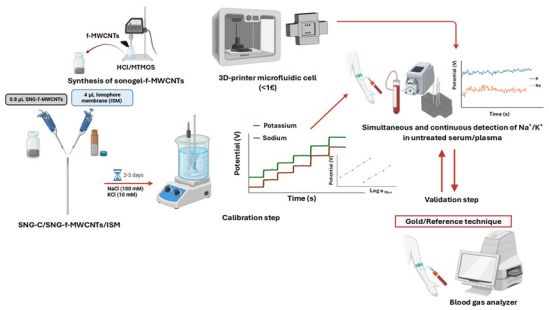

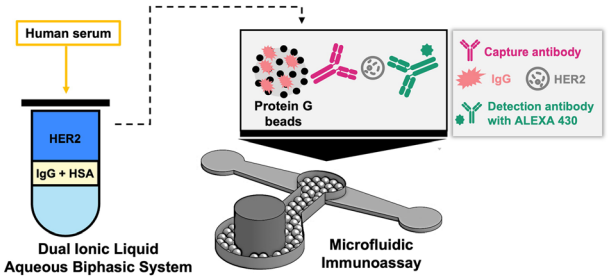

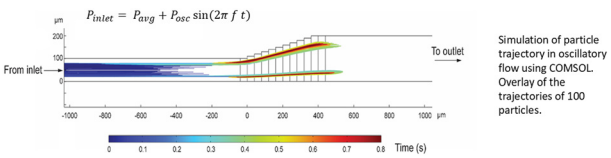

Simulation of particle trajectory in oscillatory flow using COMSOL. Overlay of the trajectories of 100 particles.

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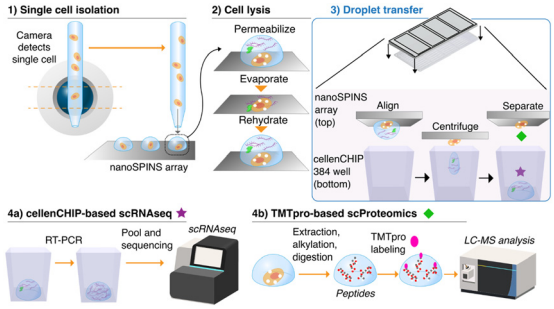
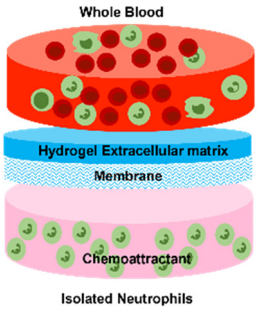


High-throughput single-cell proteomics and transcriptomics from same cells with a nanoliter-scale, spin-transfer approach

Pranav Dawar, Lye Meng Markillie, Sarah M. Williams, Hugh D. Mitchell, Johannes W. Bagnoli, Joshua Cantlon-Bruce, Anjali Seth, Carter C. Bracken, Ljiljana Paša-Tolić, Ying Zhu and James M. Fulcher*

2330



3D ECM-inflammation model on a microfluidic chip for neutrophil transmigration from whole blood investigations

Shide Bakhtiari,* Vanessa Velasco and Ronald W. Davis

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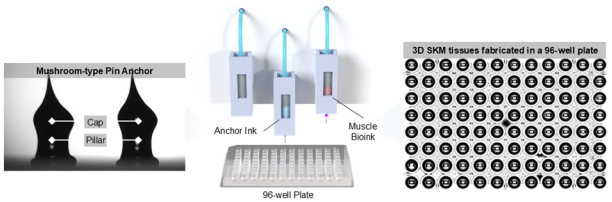

High-throughput and efficient fabrication of engineered skeletal muscle tissue *via* streamlined 3D multimaterial bioprinting

Tae-Eun Lim, Ashfaq Ahmad, Yeong-Jin Choi* and Hee-Gyeong Yi*

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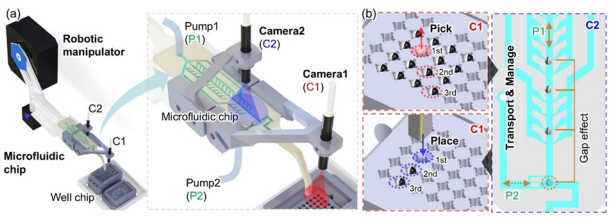

Dual vision-equipped microfluidic chip for spatiotemporal sequential pick-and-place of oocytes

Shuzhang Liang, Hao Mo, Yuguo Dai, Hirotaka Sugiura, Satoshi Amaya and Fumihito Arai*

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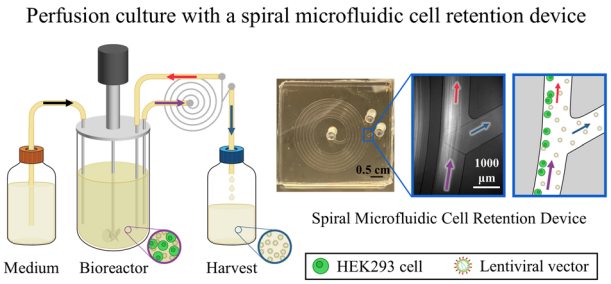

CORRECTION