

Lab on a Chip

Devices and applications at the micro- and nanoscale rsc.li/loc

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See Mengxi Wu, Junshan Liu *et al.*, pp. 5150–5161. Image reproduced by permission of Mengxi Wu from *Lab Chip*, 2025, 25, 5150.



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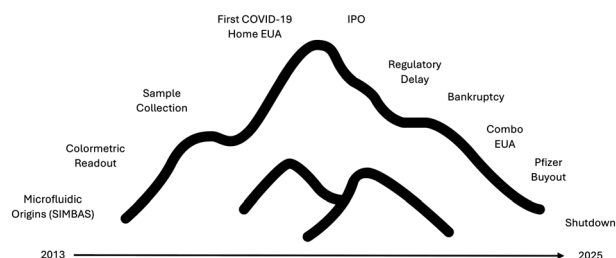
See Yu-Hsiang Hsu *et al.*, pp. 5162–5179. Image reproduced by permission of Yu-Hsiang Hsu from *Lab Chip*, 2025, 25, 5162.

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Morgan N. Greenleaf, Gregory L. Damhorst, Eric M. Vogel, Greg S. Martin and Wilbur A. Lam*

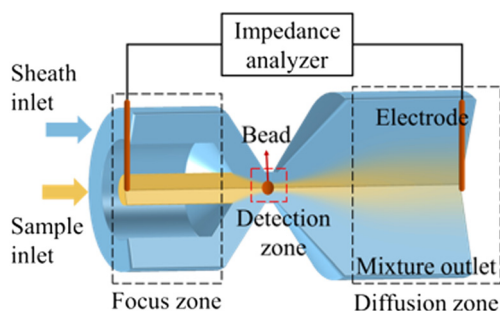


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Xiao Chen, Tingxuan Fang, Yimin Li, Jie Zhang, Xiaoye Huo, Junbo Wang, Xuzhen Qin, Yueying Li,* Yi Zhang* and Jian Chen*





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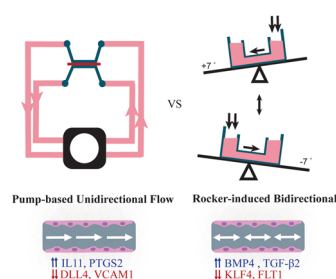
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Negar Vahdani, Prateek Arora, Lisette van Os, Denise Ackermann, Nadia Mercader and Olivier T. Guenat*

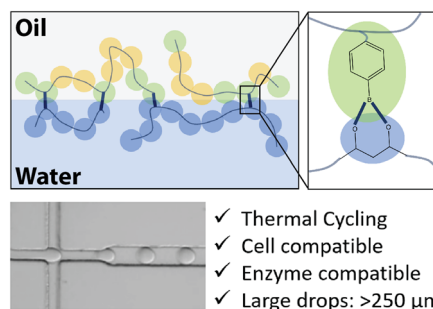
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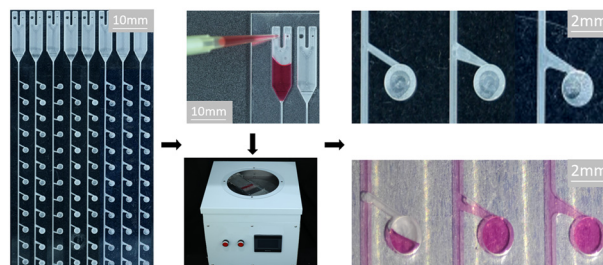


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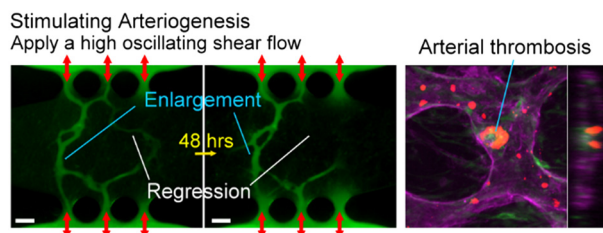
Weiyao Ni, Yi Gao, Enming Cui, Yifei Li, Yangyang Wang, Yahua Liu, Yi Li, Mengxi Wu* and Junshan Liu*



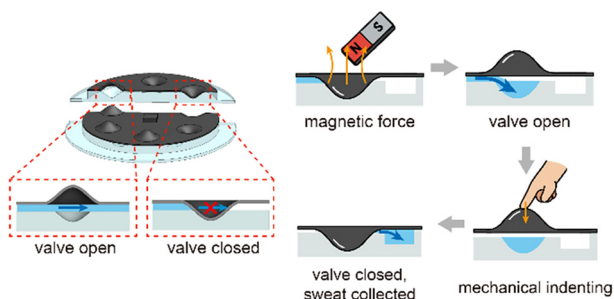
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Self-assembled human arteriole-on-a-chip for arterial functionality testing and disease modeling

Subhashree Shivani, Hsin-Jou Wang, Yi-Ting Chen, Chih-Ting Lin and Yu-Hsiang Hsu*



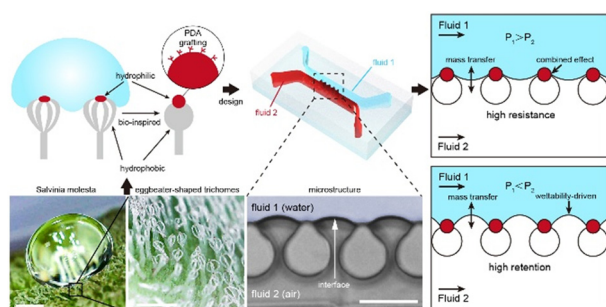
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Bistable magnetic valves for selective sweat sampling in wearable microfluidics

Chaemin Kim, Chanyong Shin, Anna Lee,* Jonghyun Ha* and Jungil Choi*

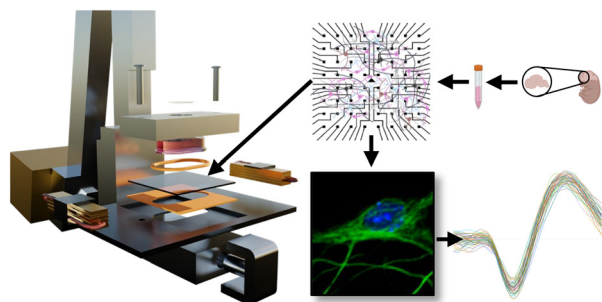
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Jinlong Xu, Yongjian Li* and Haosheng Chen*

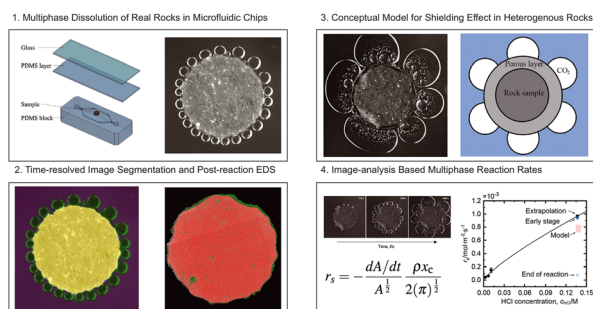
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Junyoung Hwang, Siqin Yu, Cynthia M. Ross and Ilenia Battiato*

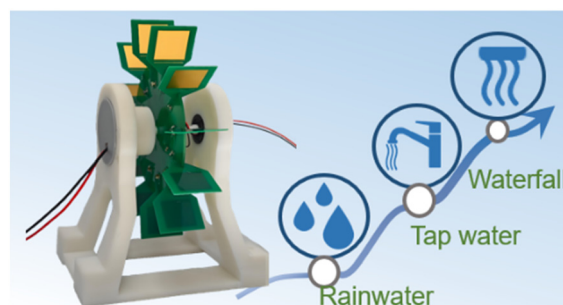


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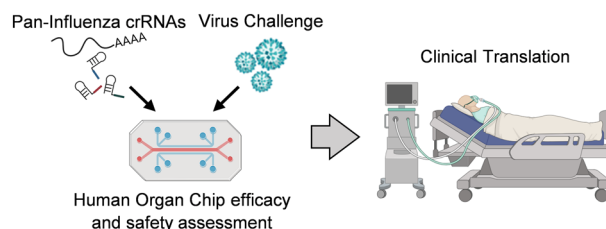
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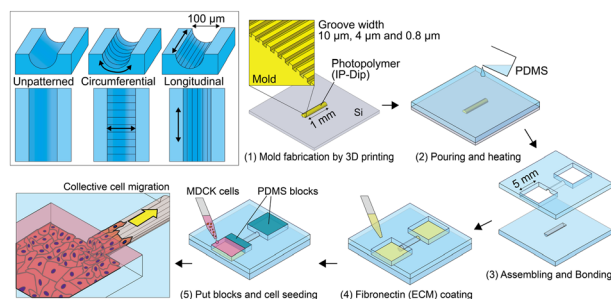
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Topographic cues regulate collective cell dynamics in curved nano/microgrooved tubular microchannels

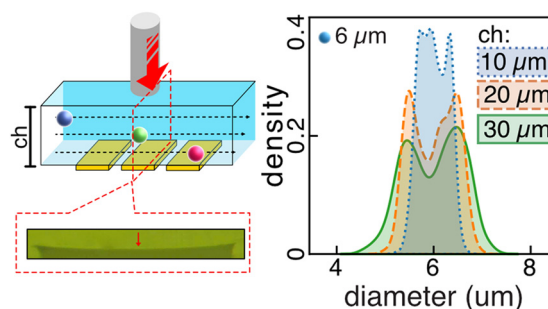
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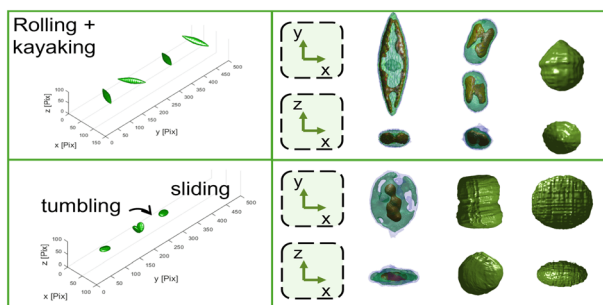
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A long-term universal impedance flow cytometry platform empowered by adaptive channel height and real-time clogging-release strategy

Trisna Julian, Tao Tang,* Naomi Tanga, Yang Yang, Yoichiro Hosokawa and Yaxiaer Yalikun*



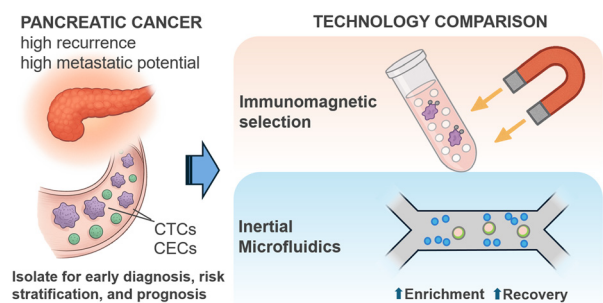
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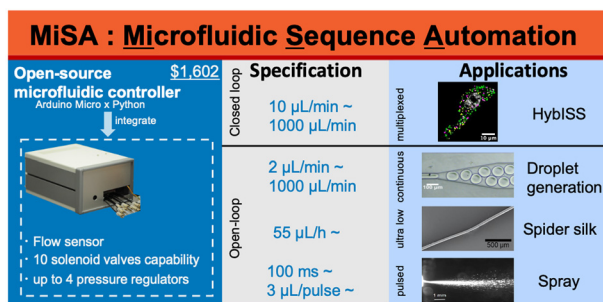
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Benchmarking microfluidic and immunomagnetic platforms for isolating circulating tumor cells in pancreatic cancer

Celine Macaraniag, Ifra Khan, Alexandra Barabanova, Valentina Valle, Jian Zhou, Pier C. Giulianotti, Alain Borgeat, Gina Votta-Velis* and Ian Papautsky*

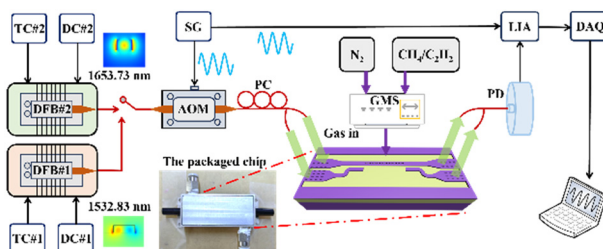
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An open source for multiplexed, stable and transient flows to advance life sciences using microfluidic control automation

Junichi Murai, Mahmoud N. Abdelmoez, Keisuke Kondo, Kohei Takamuro, Keiji Nozaki, Tim Schiller, Thomas R. Scheibel, Keiji Numata, Hisano Yajima, Kanako Terakado Kimura, Takao Hashiguchi, Taikopaul Kaneko, Misa Minegishi and Hirofumi Shintaku*

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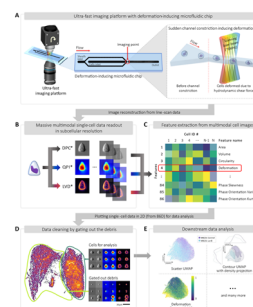
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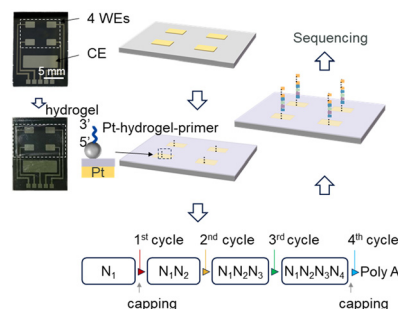
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Electronically controlled deprotection chemistry for multiplex enzymatic DNA synthesis on a chip with single-base resolution

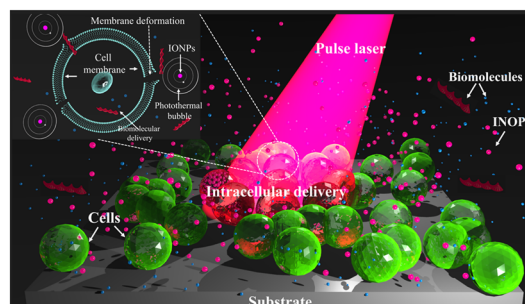
Lihuan Zhao, Qinzhuo Sun, Jian-Qiao Jiang, Xuezheng Wu, Yiming Dong, Dan Wu, Lin-Sheng Wu and Xin Zhao*



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Microfluidic synthesis of iron oxide nanoparticles for highly efficient intracellular delivery in stem cells and cancer cells

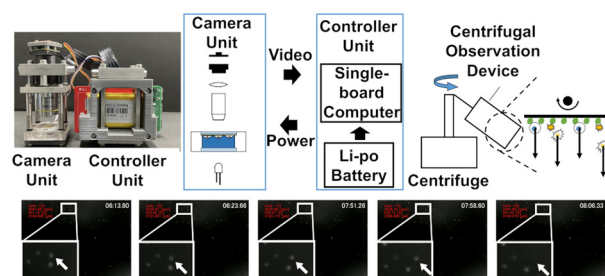
Athira Prasad, Gayathri. R, Nandhini. B, R. Jayaganthan, Srabani Kar and Tuhin Subhra Santra*



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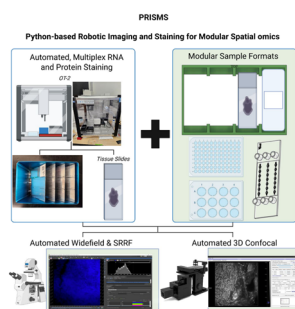
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Mao Otake,* Takaaki Abe, Yoshiaki Ukita and Hiromi Miyoshi



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Modular, open-sourced multiplexing for democratizing spatial omics

Nicholas Zhang, Zhou Fang, Priyam Kadakia, Jamie Guo, Dakshin Vijay, Manoj Thapa, Samuel Dembowitz, Arash Grakoui and Ahmet F. Coskun*

CORRECTION

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Correction: A nanobody-based microfluidic chip for fast and automated purification of protein complexes

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