Lab on a Chip

Devices and applications at the micro- and nanoscale

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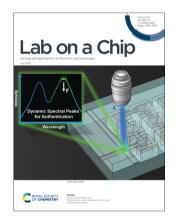
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Inside cover See Navajit Singh Baban *et al.*, pp. 4213–4231. Image reproduced by permission of Navajit Singh Baban from *Lab Chip*, 2023, **23**, 4213.

EDITORIAL

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Celebrating the 30th anniversary of a pioneering microfluidics paper

Z. Hugh Fan* and D. Jed Harrison*

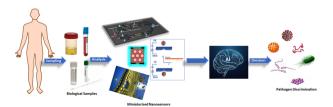


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Abdallah M. Zeid, Islam M. Mostafa, Baohua Lou* and Guobao Xu*



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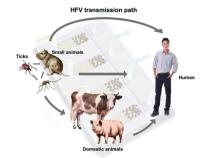
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Micro- and nanosystems for the detection of hemorrhagic fever viruses

Mengdi Bao, Jacob Waitkus, Li Liu, Yu Chang, Zhiheng Xu, Peiwu Qin, Juhong Chen and Ke Du*

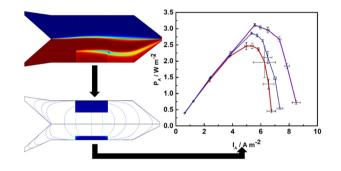


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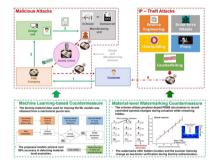
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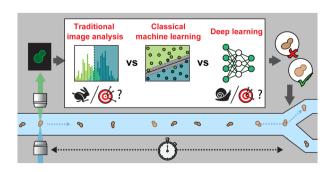
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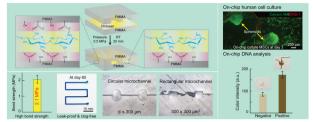
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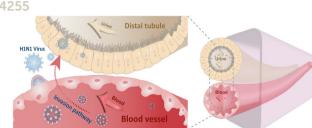
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Chitosan: a green adhesive for surface functionalization and fabrication of thermoplastic biomedical microdevices

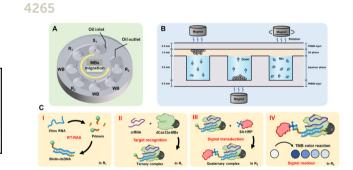
Kieu The Loan Trinh, Duc Anh Thai, Da Hyun Yang and Nae Yoon Lee*

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Distal renal tubular system-on-a-chip for studying the pathogenesis of influenza A virus-induced kidney injury

Yueyue Huangfu, Ji Wang, Jiao Feng and Zhi-Ling Zhang*

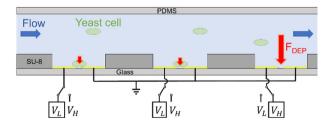


Magnetofluid-integrated biosensors based on DNase-dead Cas12a for visual point-of-care testing of HIV-1 by an up and down chip

Di Huang, Yekai Zhao, Mengjun Fang, Peijie Shen, Hu Xu, Yichen He, Shengfu Chen, Zhenjun Si and Zhinan Xu*

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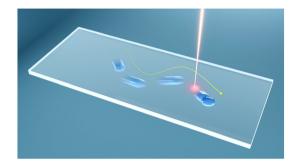
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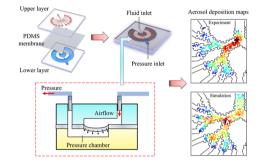
Wei Li, Dongliang Li, Xun Zhu, Dingding Ye, Yang Yang, Hong Wang, Rong Chen* and Qiang Liao



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Design of a multilayer lung chip with multigenerational alveolar ducts to investigate the inhaled particle deposition

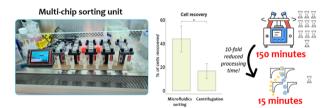
Yan Qiu, Chao Lu, Fubing Bao and Guoqing Hu*



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Scalable mesenchymal stem cell enrichment from bone marrow aspirate using deterministic lateral displacement (DLD) microfluidic sorting

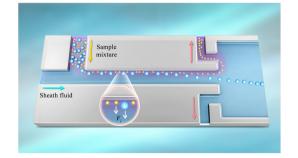
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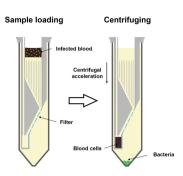
Reverse flow enhanced inertia pinched flow fractionation

Saijie Wang, Quanchen Xu, Zhihan Zhang, Shengbo Chen, Yizhou Jiang, Zhuowei Feng, Dou Wang* and Xingyu Jiang*



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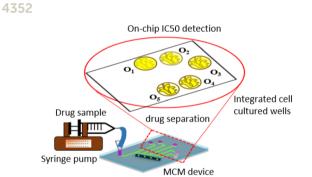
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Kaiyang Zeng, Mohammad Osaid and Wouter van der Wijngaart*

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Jingui Qian, Huaize Lan, Liang Huang, Shaohui Zheng, Xuefeng Hu,* Minghui Chen,* Joshua E.-Y. Lee and Wei Zhang*



A magnetically controlled microfluidic device for concentration dependent *in vitro* testing of anticancer drug

Vinit Kumar Yadav, Preetha Ganguly, Prashant Mishra, Samaresh Das and Dhiman Mallick*

CORRECTION

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Correction: Design and validation of a flowless gradient generating microfluidic device for high-throughput drug testing

Ketaki Bachal, Shital Yadav, Prasanna Gandhi and Abhijit Majumder*