# Lab on a Chip

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

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ISSN 1473-0197 CODEN LCAHAM 25(15) 3583-3870 (2025)



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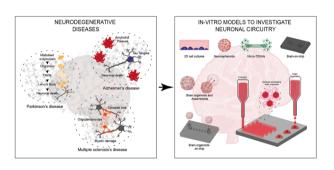


Inside cover See Shugi Wang, Bangchuan Hu, Hongwei Jiang et al., pp. 3604-3616. Image reproduced by permission of Shuqi Wang from Lab Chip, 2025, 25, 3604.

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Exploring neuronal circuitry in neurodegenerative diseases: from traditional models to cutting-edge techniques

Chiara Ausilio, Annachiara Scalzone and Paolo Antonio Netti\*

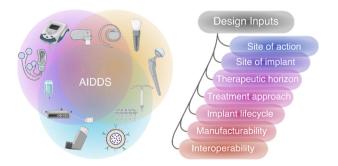


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### Diagnostic technologies for neuroblastoma

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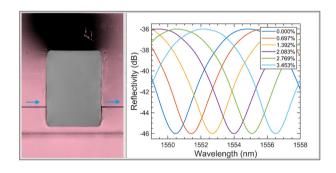
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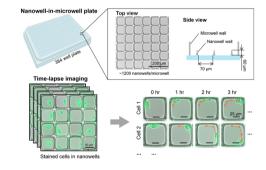
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Pan Deng, Wenze Lyu, Deasung Jang, Kerryn Matthews, Simon P. Duffy and Hongshen Ma\*

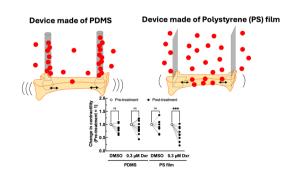


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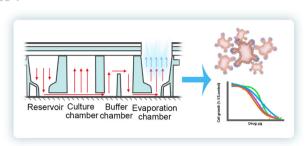
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Yuya Fujiwara,\* Masako Sasaki, Sohei Funaoka, Takuro Yoshikuni, Yuki Naka, Kazumi Ida, Taichi Aihara, Shunsuke Funakoshi, Kenichi Imahashi and Yoshinori Yoshida\*



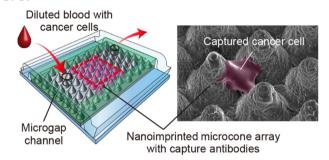
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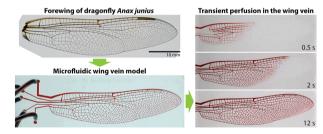
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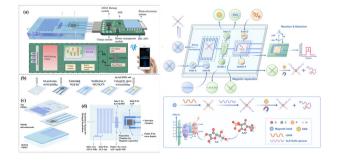
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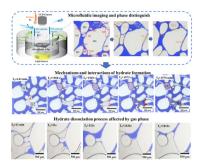
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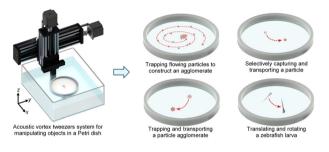
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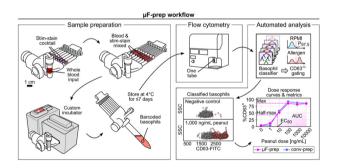
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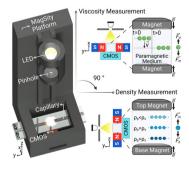
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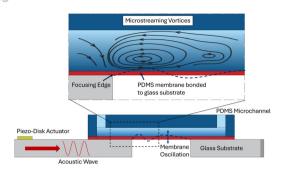


MagSity platform: a hybrid magnetic levitationbased lensless holographic microscope platform for liquid density and viscosity measurements

Oyku Doyran Ince and H. Cumhur Tekin\*



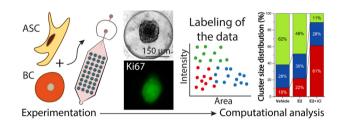
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Anthony Mercader and Sung Kwon Cho\*

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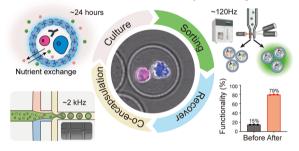


Droplet microfluidics integrated with machine learning reveals how adipose-derived stem cells modulate endocrine response and tumor heterogeneity in ER+ breast cancer

Braulio Andrés Ortega Quesada, Calley Chauvin, Elizabeth Martin\* and Adam Melvin\*

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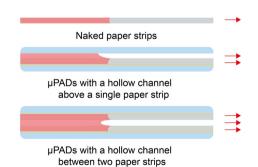
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Kazuki Nishimoto,\* Rajesh Ghosh, Mark van Zee, Darren Fang, Zhiyuan Mao, Miyako Noguchi and Dino Di Carlo\*

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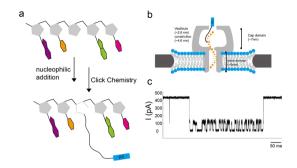
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Ting Li,\* Shaojiao Song, Wei Lu, Xin Zheng, Hui Tian, Yu Cao, Qiuyue Zhao, Hongying Xie, Jiexin Zheng and Hailong Wang\*



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Monitoring the mechanical responses of tumor metastasis based on a microfluidic chip integrated with an electrochemical detection system

Shuqi Chen, Hang Qi, Yuanheng Kuang, Quanning Li, Xuejiao Chen and Yanyan Wang\*

