

Lab on a Chip

Devices and applications at the micro- and nanoscale
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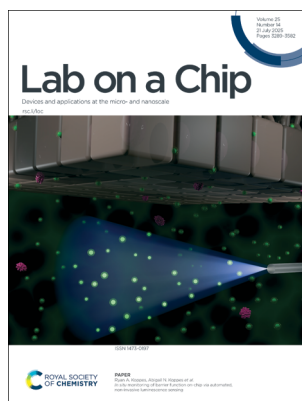
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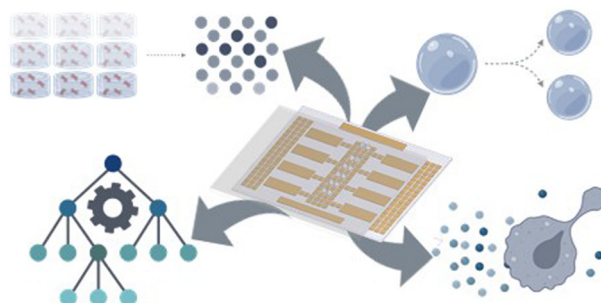
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See Ryan A. Koppes,
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Mammalian cell culture and analysis in digital microfluidic platforms

Burcu Gumuscu

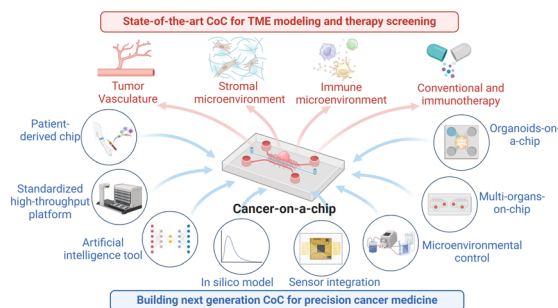


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Lunan Liu, Huishu Wang, Ruiqi Chen, Yujing Song,
William Wei, David Baek, Mahan Gillin,
Katsuo Kurabayashi and Weiqiang Chen*





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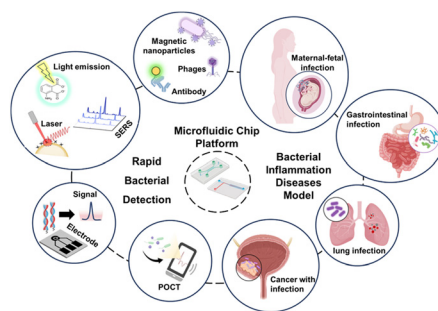


CRITICAL REVIEWS

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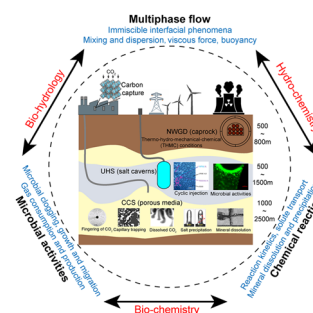
Jing Zhang, Yatian Fu, Ching Yin Fong, Haojun Hua, Wei Li and Bee Luan Khoo*



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Wenhai Lei, Yuankai Yang, Shuo Yang, Ge Zhang, Jenna Poonosamy, Anne Juel, Yves Méheust, Shervin Bagheri and Moran Wang*

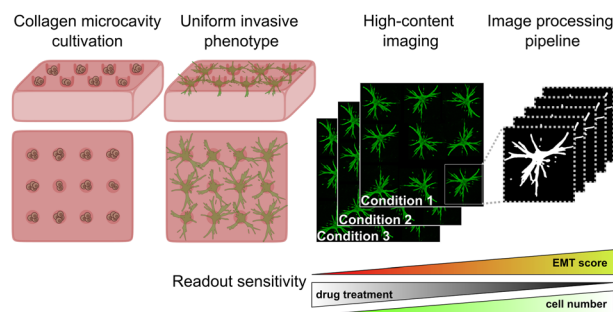


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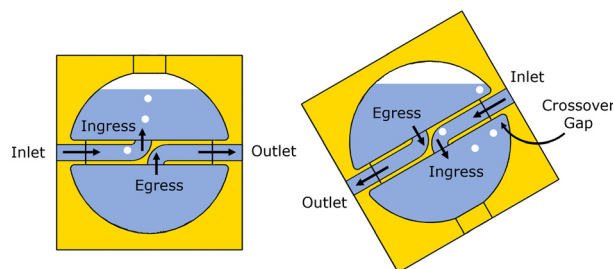
Sophie C. Kurzbach, Violetta Carvajal-Heckele, Tetsuhiko F. Teshima, Maximilian Reichert and Andreas R. Bausch



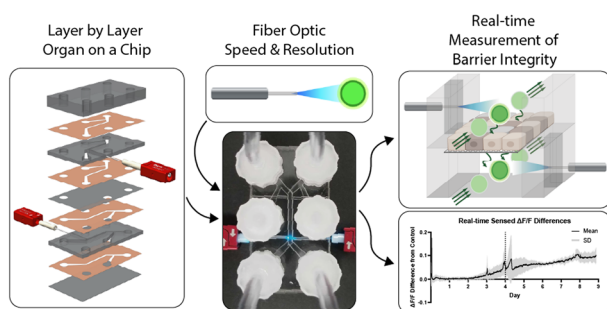
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Bhavagyna Vegunta, Charmaine Lui, Max Kim, Joshua Tran, Maya Papez, Anand K. Ramasubramanian and Sang-Joon John Lee*



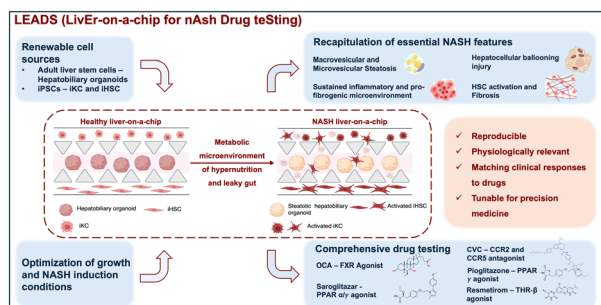
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In situ monitoring of barrier function on-chip via automated, non-invasive luminescence sensing

Bryan G. Schellberg, Abigail N. Koppes* and Ryan A. Koppes*

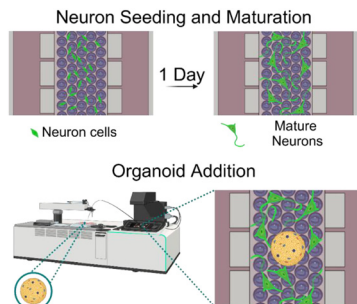
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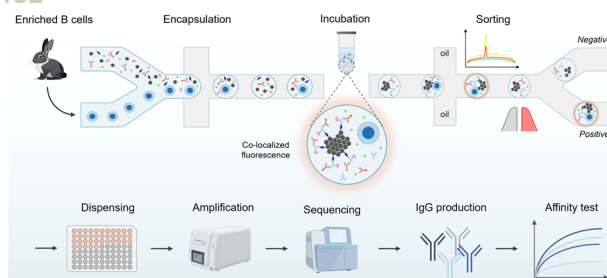
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Engineering neuronal networks in granular microgels to innervate bioprinted cancer organoids on-a-chip

Jacob P. Fredrikson, Daniela M. Roth, Jameson A. Cosgrove, Gulsu Sener, Lily A. Crow, Kazumi Eckenstein, Lillian Wu, Mahshid Hosseini, George Thomas, Sebnem Ece Eksi and Luiz Bertassoni*

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High-throughput monoclonal antibody screening from immunized rabbits via droplet microfluidics

Johnson Q. Cui, Ruyuan Song, Weihong Song, Ouyang Li, Xin Yuan, Hongbo Zhou, Lu Zhang and Shuhuai Yao*

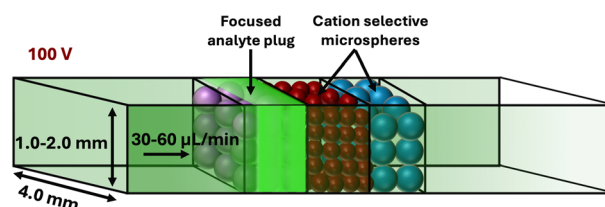


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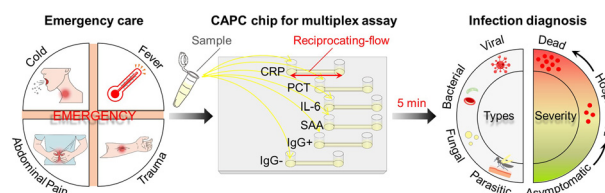
Umesha Peramune, Zisun Ahmed and Robbyn K. Anand*



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A multi-channel chip enabled synchronized reciprocating-flow of fluid for rapid, simultaneous, multiplex detection of inflammatory markers

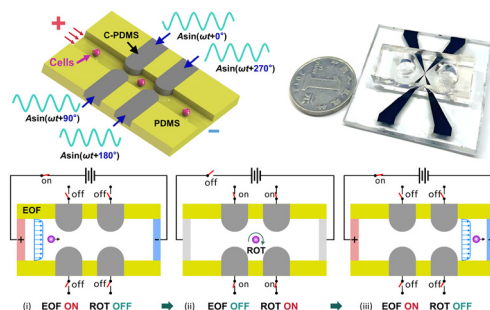
Juanhua Li, Zihan Xiao, Tianyu Wu, Yiren Liu, Wenyong Zhang, Cuiping Zhou,* Yanqiong Su, Hongrui Liang, Donglin Cao* and Jianhua Zhou*



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Controllable pump-free electrokinetic-driven microdevice for single-cell electrorotation

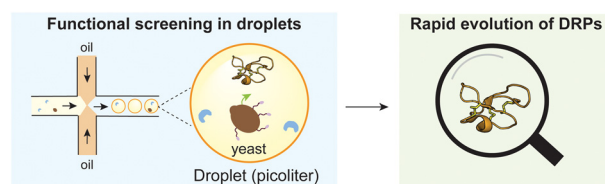
Jianming Shu, Xijiang Wang and Liang Huang*



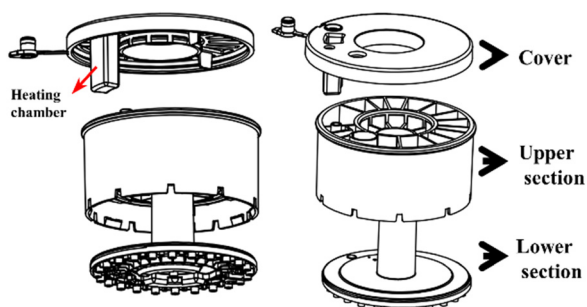
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High-throughput enrichment of functional disulfide-rich peptides by droplet microfluidics

Jing Xie, Kuok Yap, Simon J. de Veer, Selvakumar Edwardraja, Thomas Durek, Matt Trau, David J. Craik and Conan K. Wang*



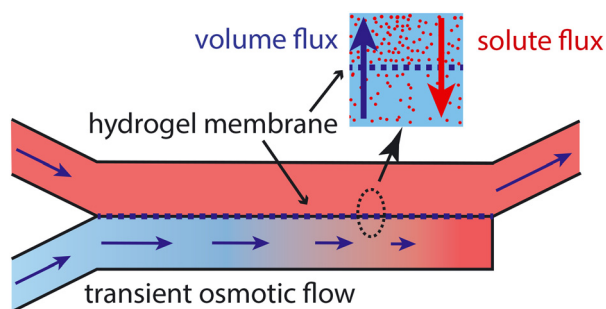
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Point-of-care analysis for foodborne pathogens in food samples based on a fully enclosed microfluidic chip cartridge

Dayun Tang, Peng Li, Shuo Qi, Qiong Wu, Ruili Yu, Mei Liu and Zhouping Wang*

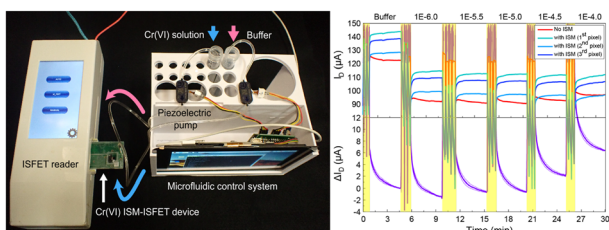
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Transient osmotic flows in a microfluidic channel: measurements of solute permeability and reflection coefficients of hydrogel membranes

Julien Renaudeau, Pierre Lidon and Jean-Baptiste Salmon

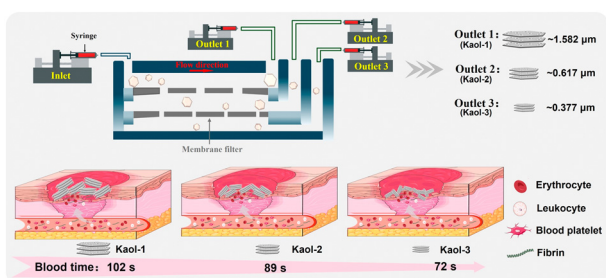
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Continuous and automatic hexavalent chromium sensing using an ion-selective membrane deposited ion-sensitive field-effect transistor device integrating a microfluidic control system

Tzu-Yu Liu, Huai-Yuan Hsu, Huan-Cheng Liu and Nien-Tsu Huang*

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Size-selective sorting of kaolinite micro/nanoflakes via microfluidic filtration for wound hemostasis

Guangyao Li, Liang Wan, Ying Chen,* Xuming Zhang,* Aidong Tang and Huaming Yang*

