

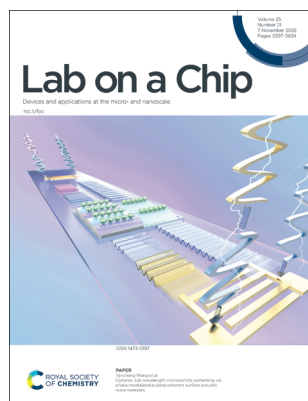
Lab on a Chip

Devices and applications at the micro- and nanoscale
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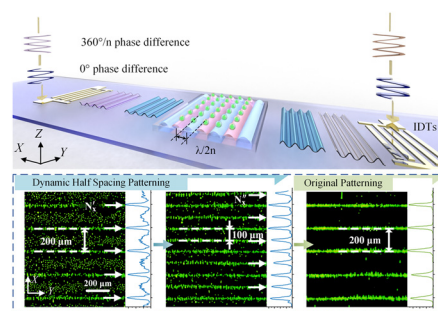
Inside cover
See Kosuke Ino,
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Dynamic sub-wavelength microparticle patterning via phase-modulated pulsing coherent surface acoustic wave tweezers

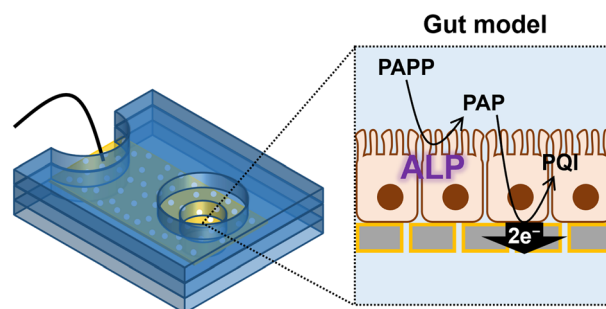
Xin Li, Deqing Mei, Hemin Pan, Zhuzheng Qian and Yancheng Wang*



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In situ electrochemical measurement of alkaline phosphatase activity in engineered gut models using a porous membrane electrode device

Yoshinobu Utagawa, Takeo Miyake, Yasuhiko Shinoda, Masateru Yamazaki, Hiroya Abe, Hitoshi Shiku* and Kosuke Ino*





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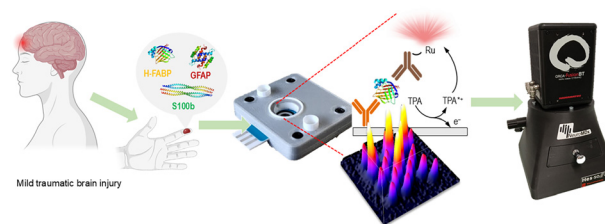


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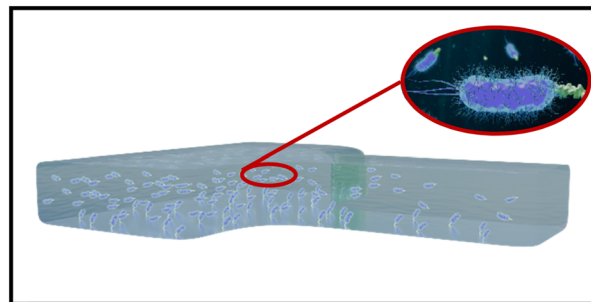
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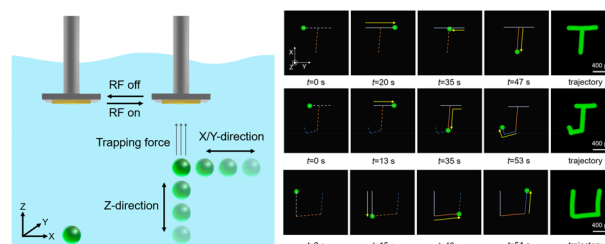
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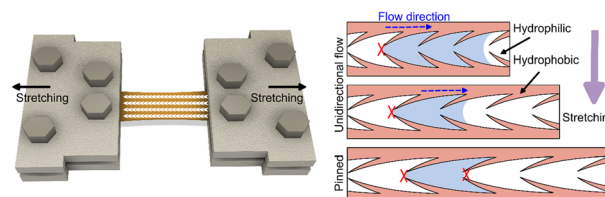
Yangchao Zhou, Haitao Zhang, Wenlan Guo, Chen Sun and Xuexin Duan*



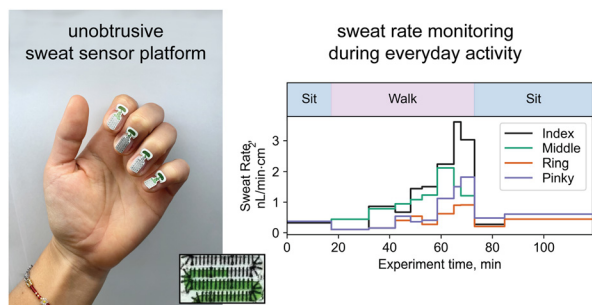
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Micro elastofluidic liquid diode for programmable unidirectional flow control

Haotian Cha, Fariba Malekpour Galogahi, Quang Thang Trinh, Sharda Yadav, Jun Zhang, Hongjie An, Qin Li and Nam-Trung Nguyen*



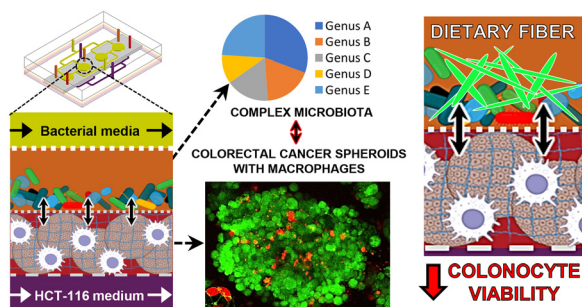
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Noelle Davis, Pooja Mehta, Amanda Kang, Liam Gillan, Jussi Hiltunen and Ali Javey*

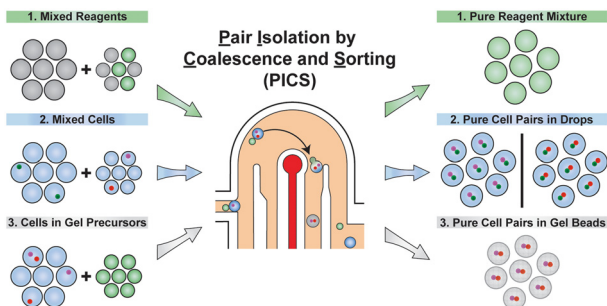
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Daniel Penarete-Acosta, Mohet Mittal, Sanjukta Chakraborty, Arum Han and Arul Jayaraman*

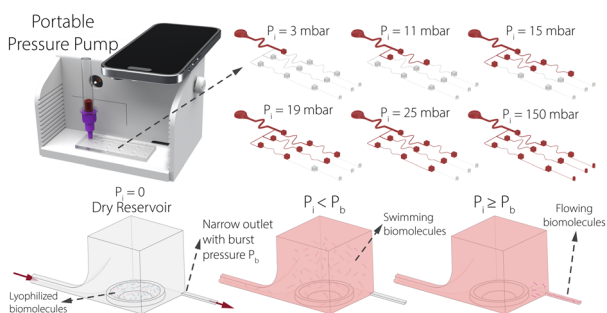
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Deterministic cell pairing with simultaneous microfluidic merging and sorting of droplets

Kevin M. Joslin, Sophia Dateshidze, Seung Won Shin, Adam R. Abate and Iain C. Clark*

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Programmable 3DP microfluidic bio-reaction system: automated LAMP-on-a-chip

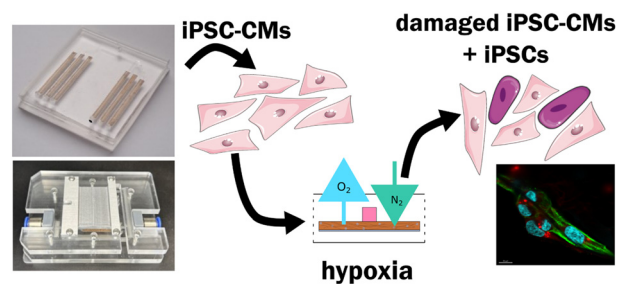
M. Tugrul Birtek, Nazente Atceken and Savas Tasoglu*



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A novel holder and microfluidic system for spatially controlled hypoxia induction, mechanical stimulation and cardiac regeneration research

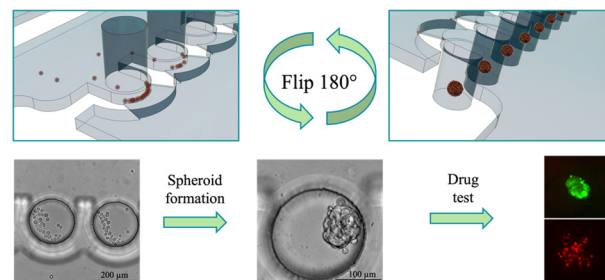
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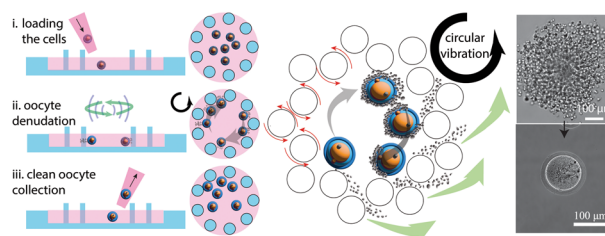
Raphael Dezauzier, Anna Fomina and Petra S. Dittrich*



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On-chip oocyte cumulus removal using vibration-induced flow

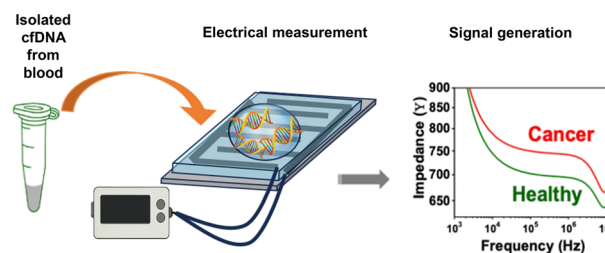
Amirhossein Favakeh, Amir Mokhtare, Hanxue Zhang, Yi Athena Ren and Alireza Abbaspourrad*



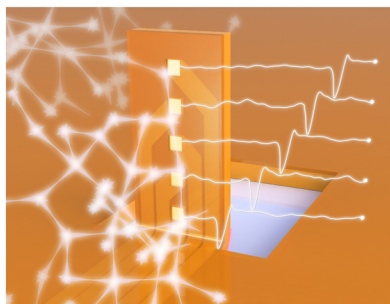
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Rapid pan-cancer detection via label-free impedance profiling of cell-free DNA

Tejal Dube, Puja Prasad, Pragya Swami, Ankita Singh, Meenakshi Verma, Parul Tanwar, Shantanu Chowdhury* and Shalini Gupta*



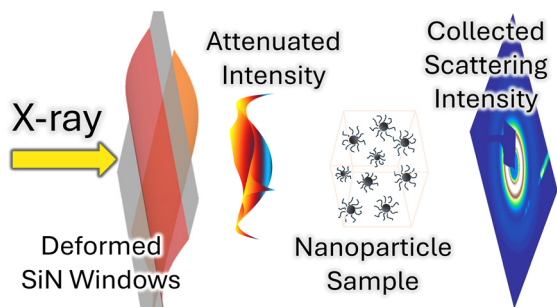
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Stress-actuated partially flexible microelectrode arrays for activity recording in 3D neuronal cultures

João Serra,* José C. Mateus, Susana Cardoso, João Ventura, Paulo Aguiar and Diana C. Leitao

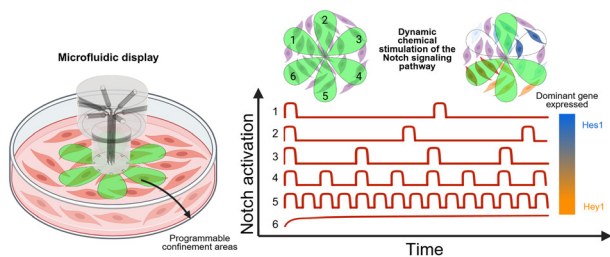
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Optimizing microfluidic flow cell geometry for *in situ* resonant soft X-ray characterization of molecular nanostructures

Devin Grabner, Terry McAfee, Cheng Wang, Matthew A. Marcus and Brian A. Collins*

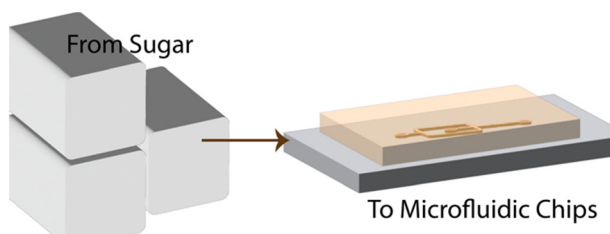
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Maude Proulx, Pierre Clapperton-Richard, Laurent Potvin-Trottier, Alisa Piekny and Thomas Gervais*

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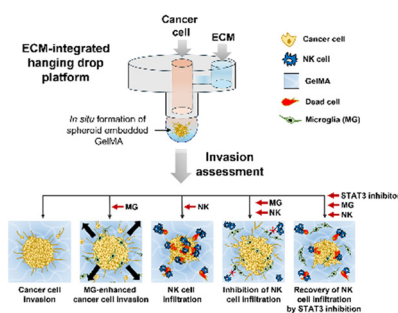
Tochukwu Dubem Anyaduba* and Jesus Rodriguez-Manzano*



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Chanyang Lee, Seokgyu Han, Seulgi Lee, Jaehyun Lee, Sein Kim, Seunggyu Ko, Howon Lee and Sungsu Park*



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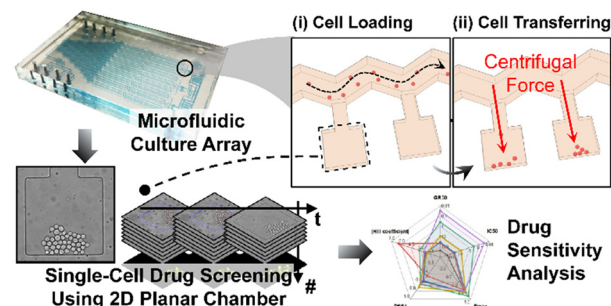
Chunrui Chen, Tonghuan Zhan, Lin Hu, Mengyuan Ding, Xianchang Wu, Heng Wang and Bing Xu*



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Microfluidic single-cell drug screening: toward personalized precision therapy in chronic myeloid leukemia

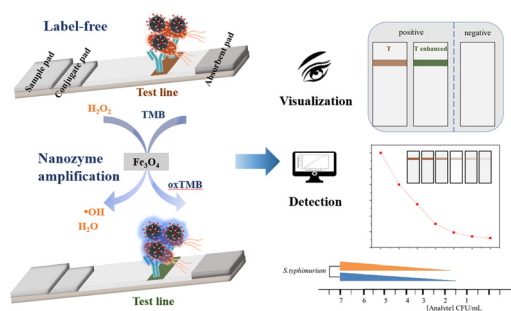
Hwisu Jeon, Yukyung Park, Soo-Hyun Kim, Chang-Yeol Jung, Hongtae Kim, Eujin Um,* Dong-Wook Kim* and Taesung Kim*



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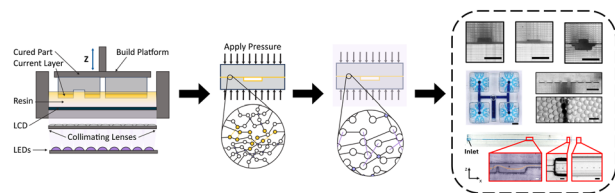
A streamlined lateral flow immunoassay for *S. typhimurium* using intrinsically multifunctional magnetic nanoproboscopes for capture, enrichment, and signal amplification

Xuechi Yin, Jingxin Hou, Jiayi Zhang, Yumiao Jian, Nosirjon Sattorov, Xinnan Liu, Jianlong Wang, Qingyu Yang,* Daohong Zhang* and Ibrahim A. Darwish



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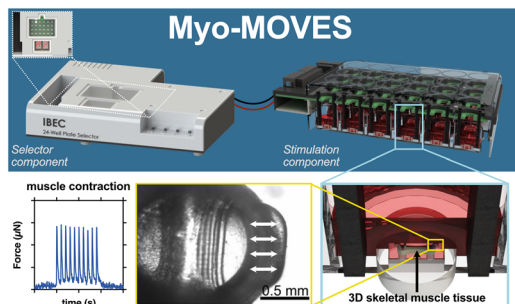
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Vivek Rajasenar, Edwin Sanchez Ochoa, Aiden Begole, Amrith Karunaratne, Lisa F. Horowitz, Albert Folch and Dino Di Carlo*

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Martin Ruiz-Gutiérrez, Ainoa Tejedera-Villafranca, Sergi Pujol-Pinto, Javier Ramón-Azcón* and Juan M. Fernández-Costa*

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Shannon L. Faley, Niloufar A. Boghdeh, David K. Schaffer, Eric C. Spivey, Farhang Alem, Arthi Narayanan, John P. Wikswa* and Jacquelyn A. Brown

