

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(5) 731-1374 (2025)



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PERSPECTIVES

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Point-of-need diagnostics in a post-Covid world: an opportunity for paper-based microfluidics to serve during syndemics

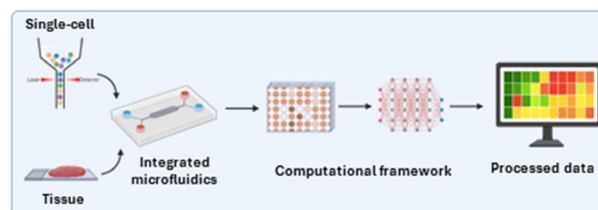
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Nishanth Venugopal Menon, Jeeyeon Lee, Tao Tang and Chwee Teck Lim*



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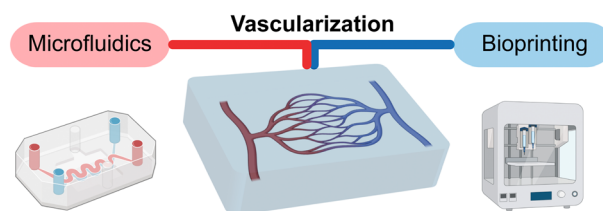
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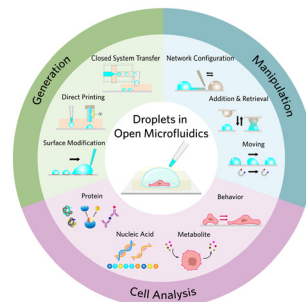
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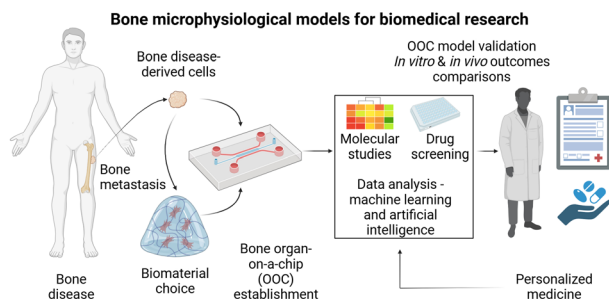
Jiaxu Lin, Ying Hou, Qiang Zhang and Jin-Ming Lin*



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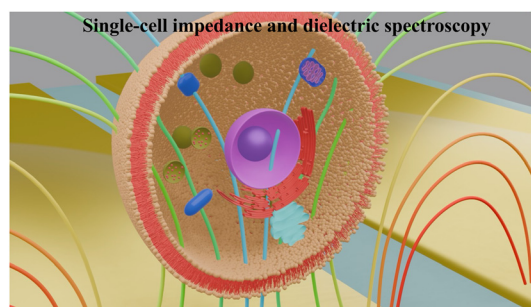
Francisco Verdugo-Avello,* Jacek K. Wychowaniec, Carlos A. Villacis-Aguirre, Matteo D'Este and Jorge R. Toledo



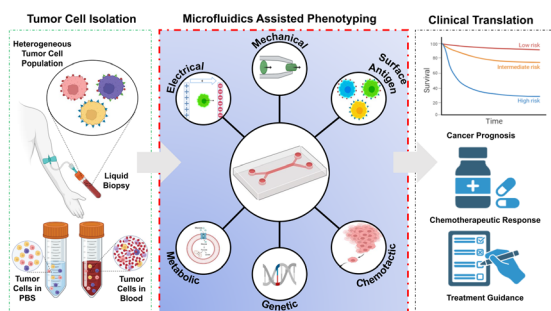
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Tutorial on impedance and dielectric spectroscopy for single-cell characterisation on microfluidic platforms: theory, practice, and recent advances

Fatemeh Dadkhah Tehrani, Michael D. O'Toole* and David J. Collins



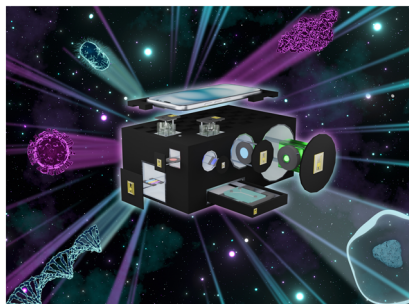
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Advances in microfluidic platforms for tumor cell phenotyping: from bench to bedside

Rutwik Joshi, Hesaneh Ahmadi, Karl Gardner, Robert K. Bright, Wenwen Wang and Wei Li*

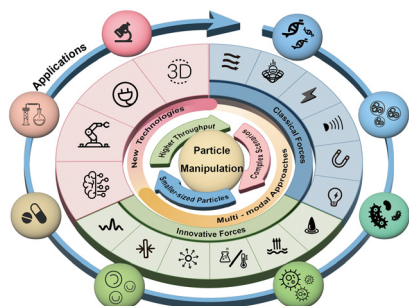
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Daina V. Baker, Jasmine Bernal-Escalante, Christine Traaseth, Yihao Wang, Michael V. Tran, Seth Keenan and W. Russ Algar*

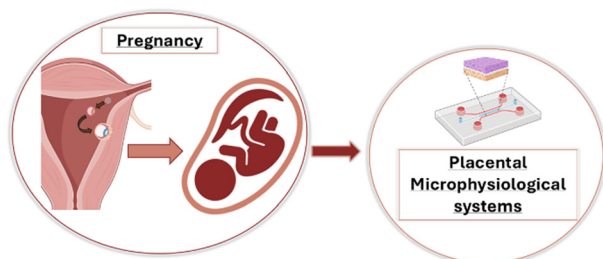
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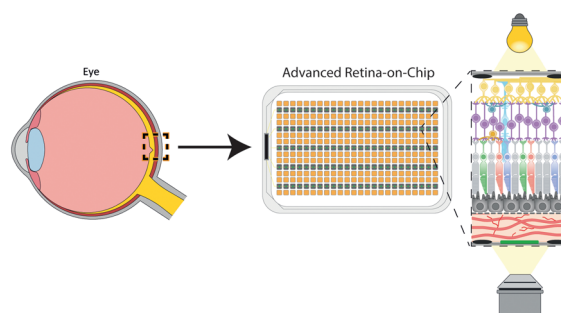


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Retina-on-chip: engineering functional *in vitro* models of the human retina using organ-on-chip technology

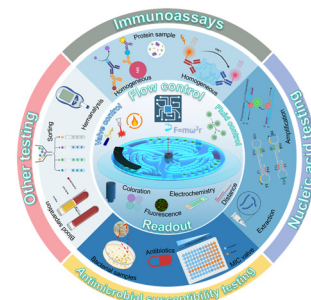
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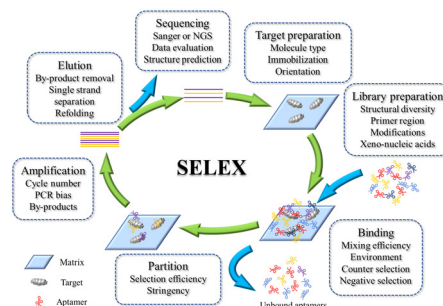
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Aptamer selection *via* versatile microfluidic platforms and their diverse applications

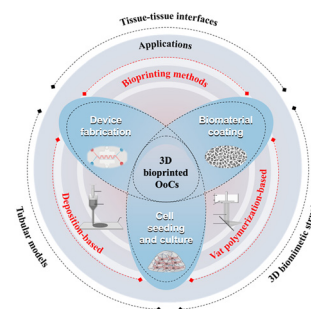
Yi-Da Chung, Yi-Cheng Tsai, Chi-Hung Wang and Gwo-Bin Lee*



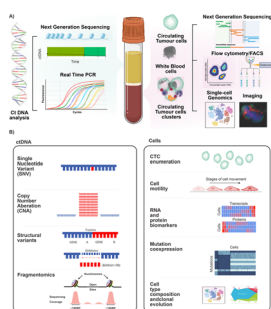
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Developing 3D bioprinting for organs-on-chips

Zhuhao Wu, Rui Liu, Ning Shao and Yuanjin Zhao*



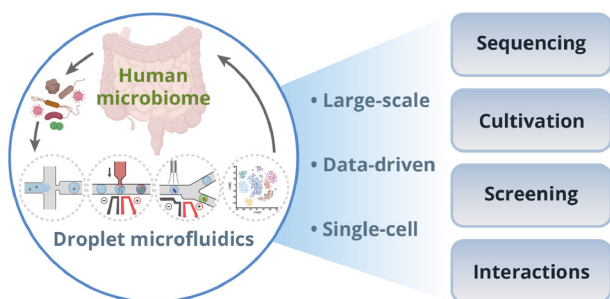
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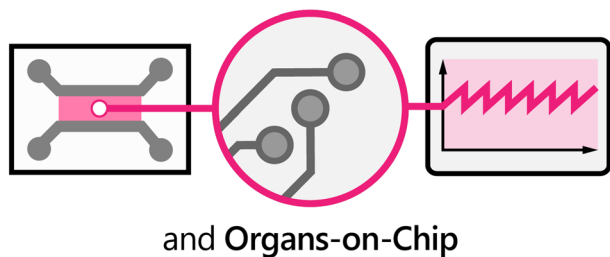


Droplet microfluidics: unveiling the hidden complexity of the human microbiome

Yibin Xu, Zhiyi Wang, Caiming Li, Shuiquan Tian and Wenbin Du*

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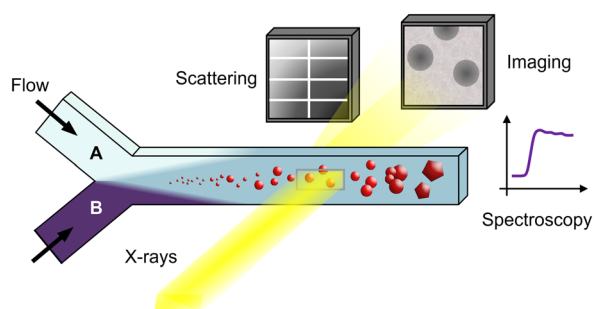
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Johannes Dornhof, Jochen Kieninger, Stefan J. Rupitsch and Andreas Weltin*

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Mark A. Levenstein,* Corinne Chevallard, Florent Malloggi, Fabienne Testard and Olivier Taché

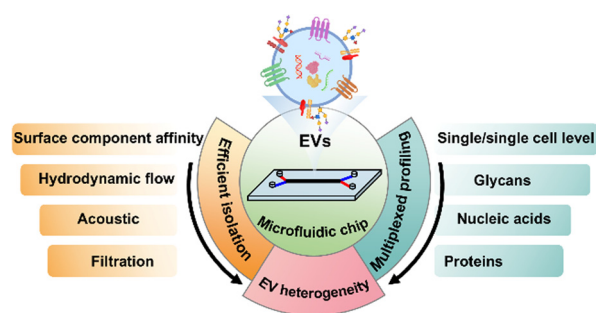


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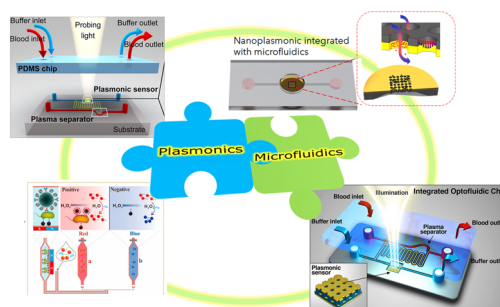
Guihua Zhang, Xiaodan Huang, Sinong Liu, Yiling Xu, Nan Wang, Chaoyong Yang and Zhi Zhu*



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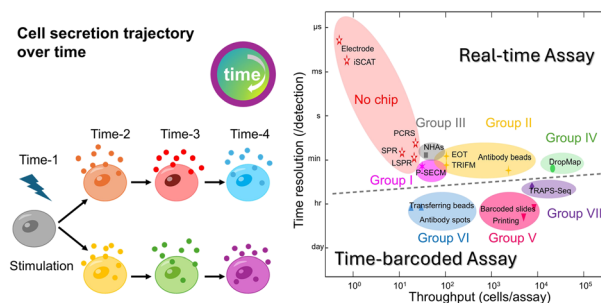
C. Escobedo* and A. G. Brolo*



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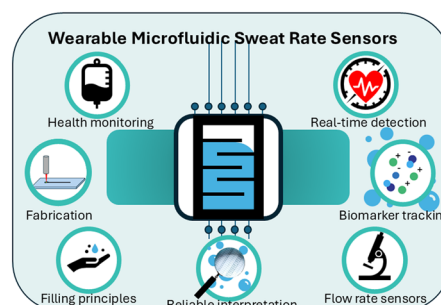
Ying Xu, Mei Tsz Jewel Chan, Ming Yang, Heixu Meng and Chia-Hung Chen*



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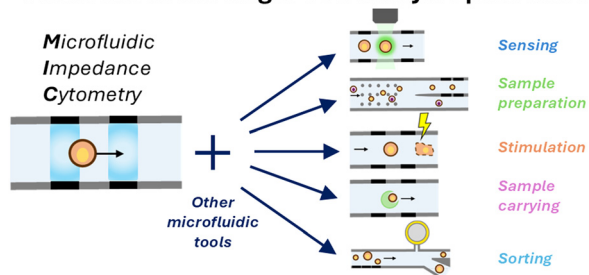
Worth your sweat: wearable microfluidic flow rate sensors for meaningful sweat analytics

R. F. R. Ursem, A. Steijlen,* M. Parrilla,* J. Bastemeijer, A. Bossche and K. De Wael*



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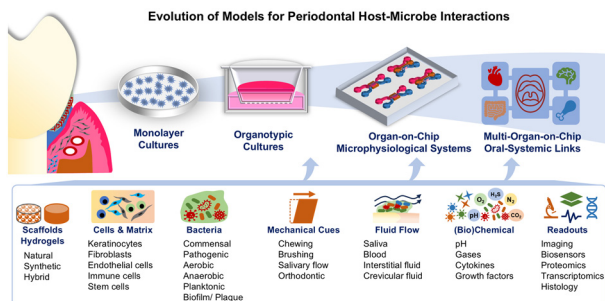


Integrating impedance cytometry with other microfluidic tools towards multifunctional single-cell analysis platforms

Marta Righetto, Cristian Brandi, Riccardo Reale and Federica Caselli*

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Hardik Makkar and Gopu Sriram*

