

Lab on a Chip

Devices and applications at the micro- and nanoscale
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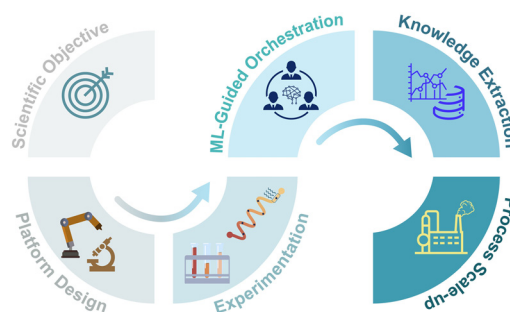
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Suyash Damir, Fernando Delgado-Licona, Andrew deMello* and Milad Abolhasani*

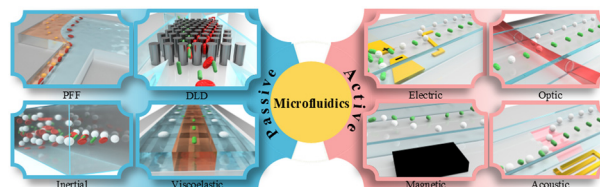


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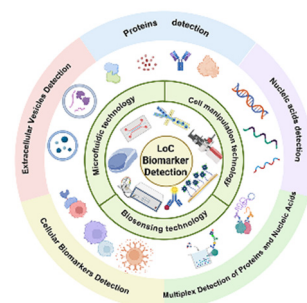


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Lab-on-a-chip for biomarker detection: advances, practical applications, and future perspectives

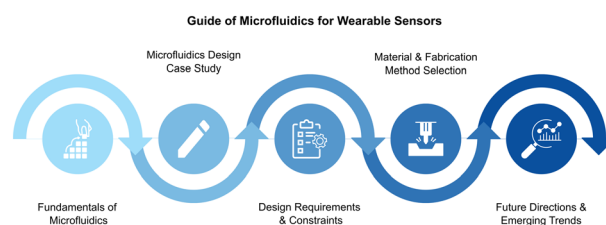
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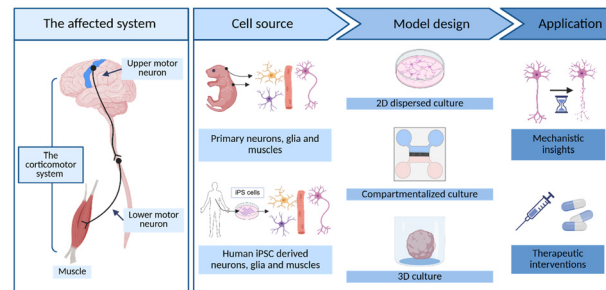
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Kathryn G. Maskell,* Anthony L. Cook, Anna E. King, Tracey C. Dickson and Catherine A. Blizzard*

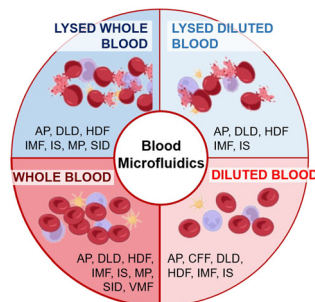


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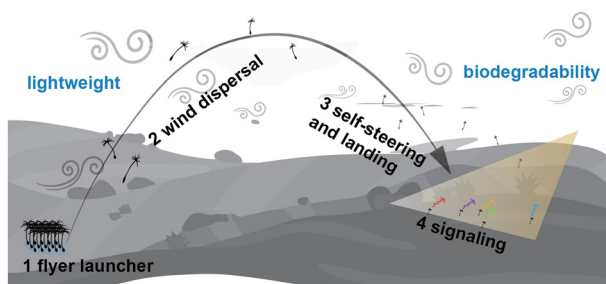
Blood microfluidics: progress and challenges

Sana Sheybanikashani, Jian Zhou* and Ian Papautsky*



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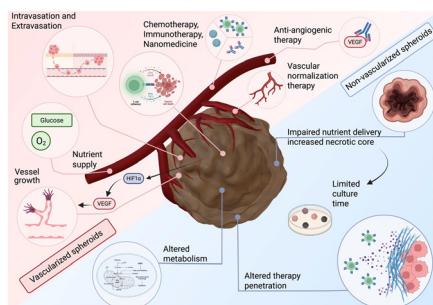
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Light driven polymer thin films as flying robotic chips in the sky

Jianfeng Yang* and Hao Zeng*

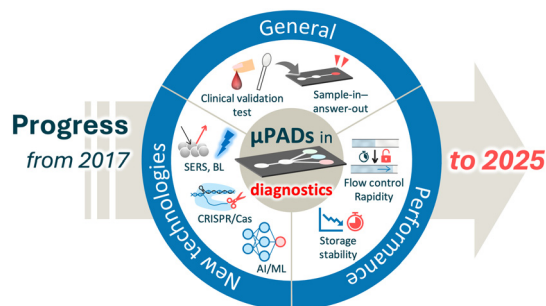
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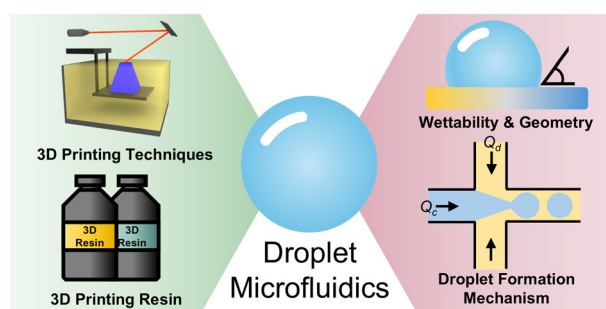
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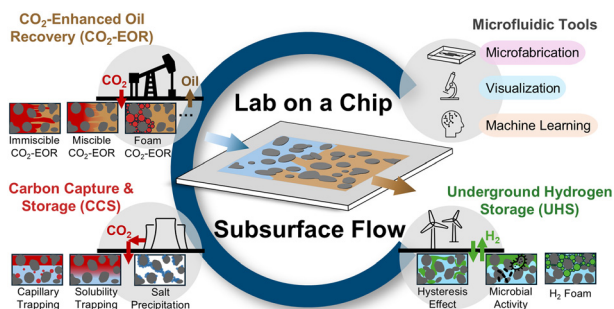


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Junyi Yang, Nikoo Moradpour, Lap Au-Yeung and Peichun Amy Tsai*

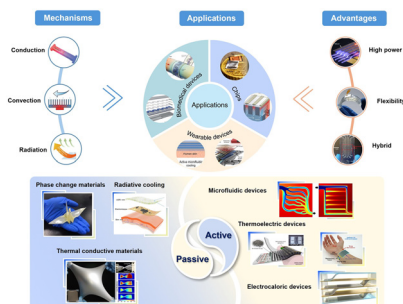
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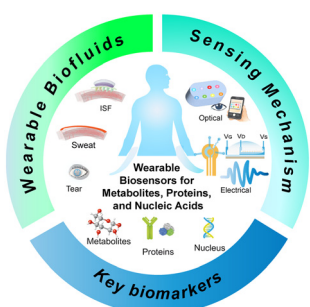
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Wearable biosensors for disease diagnostics and health monitoring: recent progress and emerging technologies

Zixuan Ren and Yue Cui*

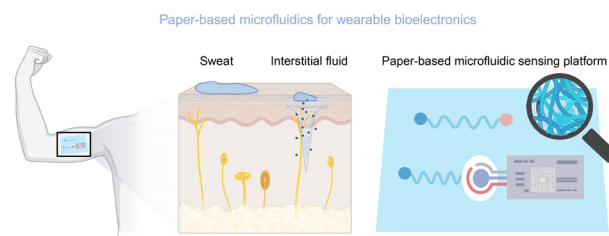


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Paper-based microfluidics for wearable soft bioelectronics

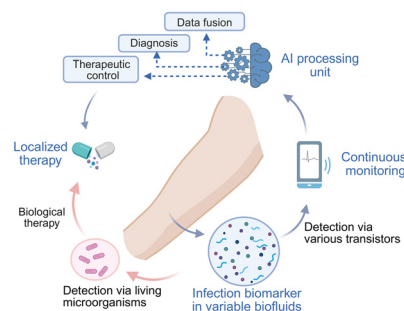
Feng Zhang, Gangang Zhao, Qunle Ouyang, Sicheng Chen and Zheng Yan*



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AI-enabled wearable microfluidics for next-generation infection monitoring and therapeutics

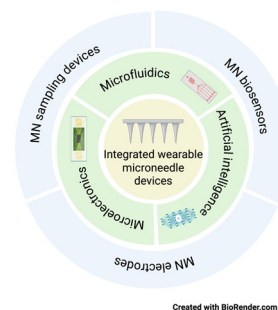
Yan Zhou, Xiaoyu Zhu, Kai Qu* and Feng Xu*



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Microneedle-integrated wearable devices for healthcare monitoring

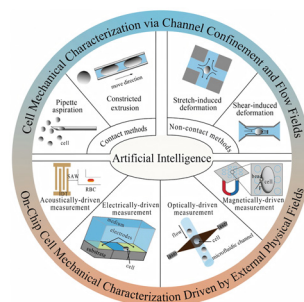
Tianli Hu, Eira Beryle Ko, Yu Song and Chenjie Xu*



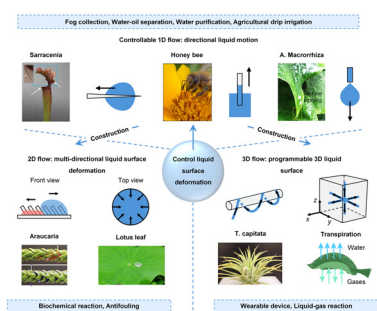
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On-chip characterization of cell mechanics assisted by external physical fields and artificial intelligence

Jingjin Ge, Chenhao Bai, Zhuo Chen,* Toshio Fukuda, Tatsuo Arai and Xiaoming Liu*



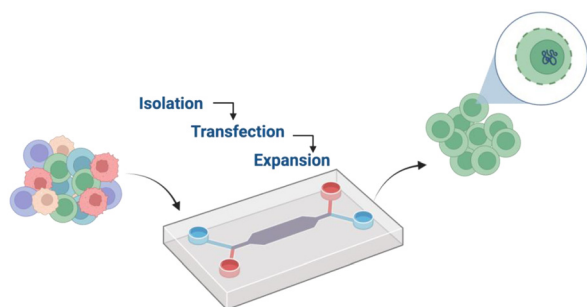
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Structure-enabled liquid manipulation: bioinspired control across all dimensions

Siqi Sun, Liqiu Wang* and Yiyuan Zhang*

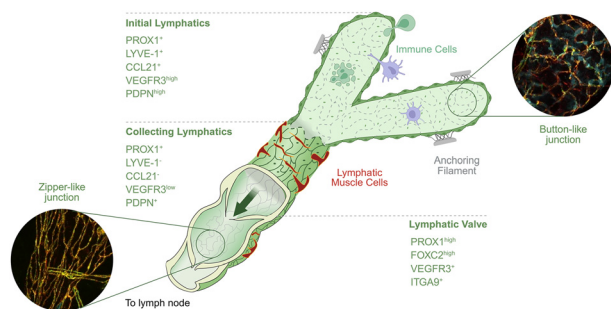
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Microfluidics for cell therapy and manufacturing in oncology and regenerative medicine

Josie L. Duncan, Julio P. Arroyo and Rafael V. Davalos*

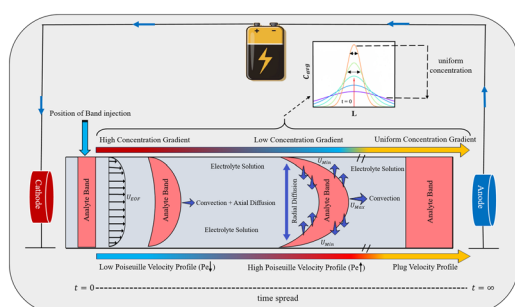
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Yansong Peng and Esak Lee*

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A deep dive into hydrodynamic dispersion in microfluidic systems

Seyed Nezameddin Ashrafizadeh,* Mahdi Khatibi and Iman Aslani

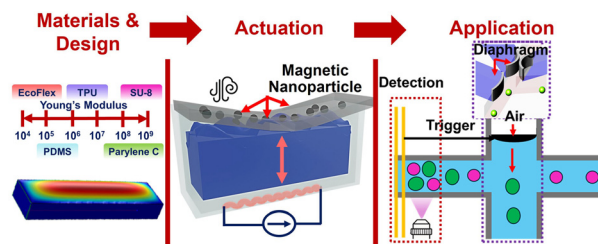


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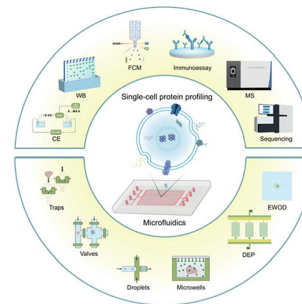
Abdullah-Bin Siddique,* Shaghayegh Mirhosseini and Nathan S. Swami*



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Single-cell protein profiling energized by microfluidic technology

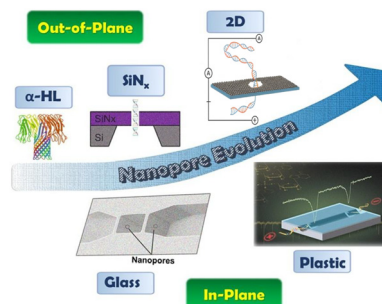
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Khurshed Akabirov, Hanna Nguyen, Shakila Peli Thanthri, Sheila M. Barros, Maximillian Chibuikwe, Sunggook Park and Steven A. Soper*



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Engineering organs-on-a-chip via multi-channel microfluidics

Ji Qiu, Jia Yang, Lihao Liu, Jiameng Wen, Jiachen Yang, Wenwan Shi, Xiaoxiang Gao, Jing Sun, Ling Bai,* Xiaojiang Liu* and Zhongze Gu*

