

# Lab on a Chip

Devices and applications at the micro- and nanoscale  
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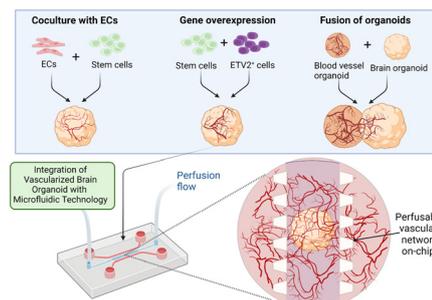
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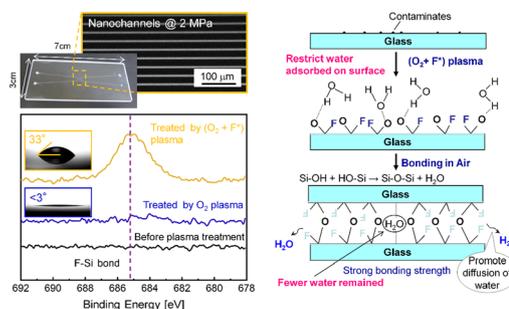


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# Lab on a Chip

Devices and applications at the micro- and nanoscale

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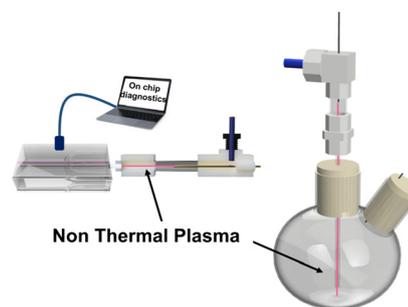
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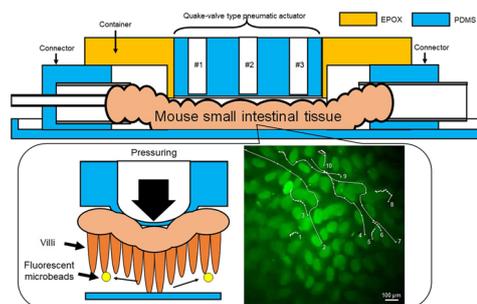
**Enabling batch and microfluidic non-thermal plasma chemistry: reactor design and testing**P. Roszkowska, A. Dickenson, J. E. Higham, T. L. Easun,\*  
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**Development of a microfluidic device to observe dynamic flow around the villi generated by deformation of small intestinal tissue**

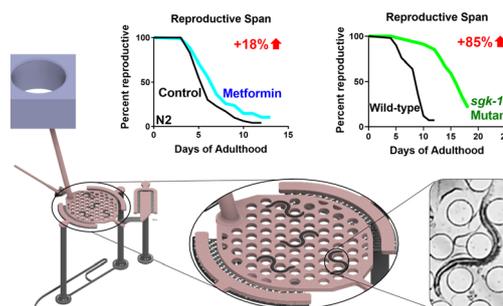
Satoru Kuriu,\* Naoyuki Yamamoto and Tadashi Ishida\*



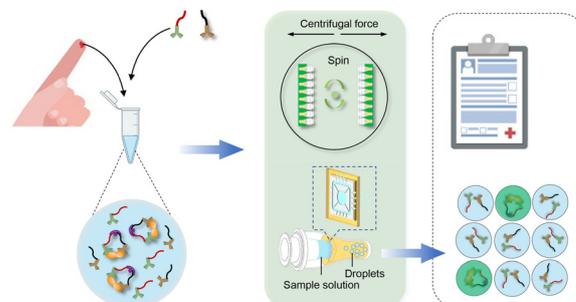
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**CeLab, a microfluidic platform for the study of life history traits, reveals metformin and SGK-1 regulation of longevity and reproductive span**

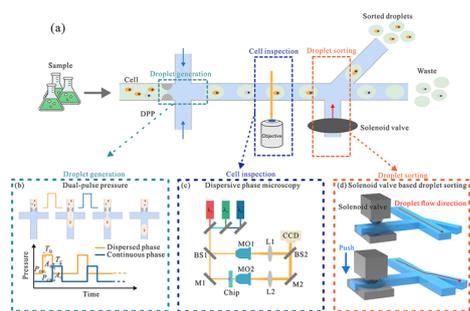
Salman Sohrabi, Vanessa Cota and Coleen T. Murphy\*



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**Highly parallel, wash-free, and ultrasensitive centrifugal droplet digital protein detection in sub-microliter blood**Zhengmin Tang, Feifei Lv, David Eun Reynolds,  
Shunji Zhang, Shufa Zheng, Jina Ko, Yu Chen\*  
and Yongcheng Wang\*

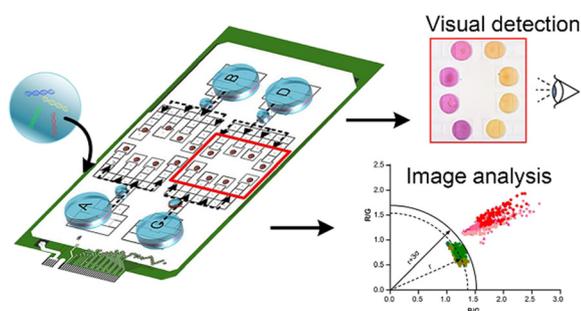
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### Dispersive phase microscopy incorporated with droplet-based microfluidics for biofactory-on-a-chip

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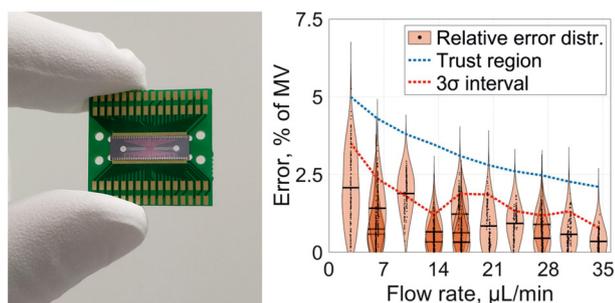
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Mei Xie, Tianlan Chen, Zongwei Cai, Bo Lei\* and Cheng Dong\*

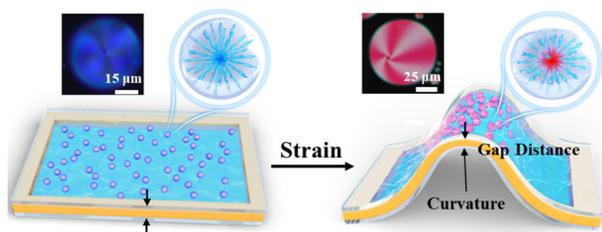
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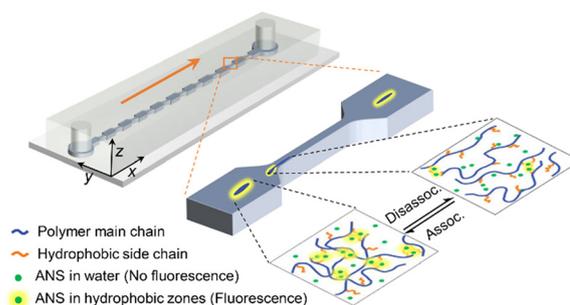
Shuting Xie, Ruizhi Yang, Qifan Zhu, Shitao Shen, Lanhui Li, Minmin Zhang, Xiaowen Hu, Mingliang Jin, Liqiu Wang\* and Lingling Shui\*



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## Rock-on-a-chip: “Seeing” the association/disassociation of an adaptive polymer in solutions flowing through porous media

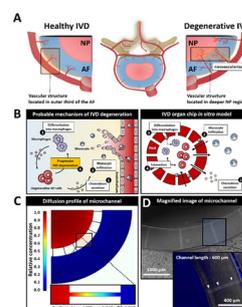
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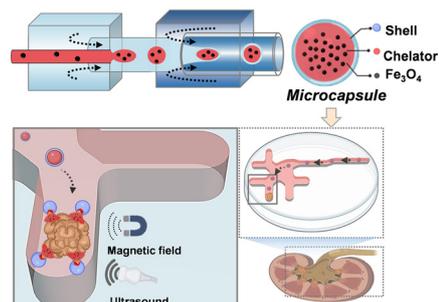
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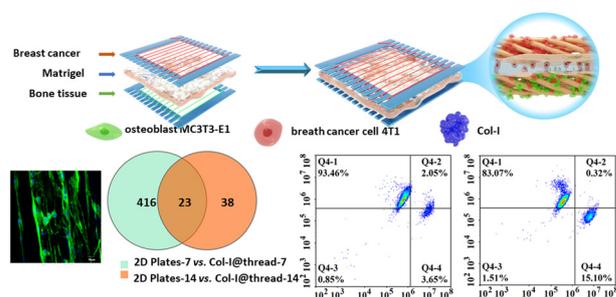
Byung Kwon Kaang, Sunjae Lee, JunJie Piao, Hyuk Jin Cho\* and Dong-Pyo Kim\*

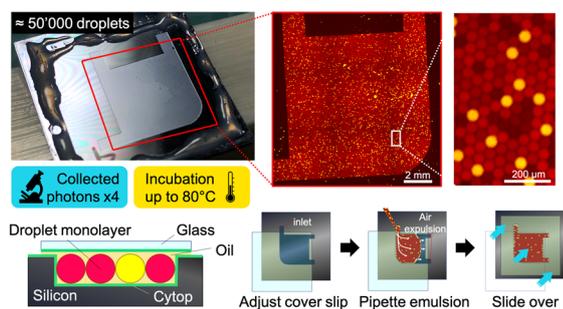


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Shi Ming Wu, Feng Chen, Xiao Yan Yang, Teng Fei Wu, Wei Sun and Ling Yu\*





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