

Lab on a Chip

Devices and applications at the micro- and nanoscale
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IN THIS ISSUE

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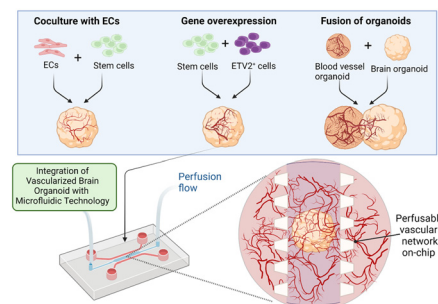
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Tadashi Ishida *et al.*,
pp. 2729–2737.
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CRITICAL REVIEW

2693

Vascularized human brain organoid on-chip

Sin Yen Tan, Xiaohan Feng, Lily Kwan Wai Cheng
and Angela Ruohao Wu*

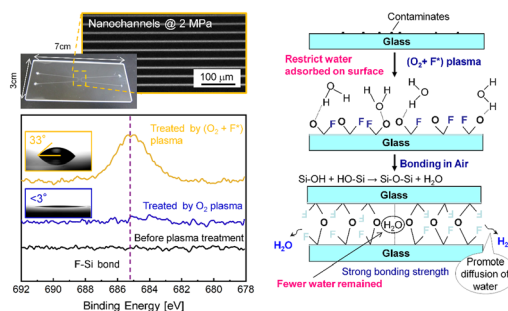


COMMUNICATIONS

2710

Room-temperature bonding of glass chips via PTFE-assisted plasma modification for nanofluidic applications

Qiushi Kang, Chenxi Wang,* Kaimeng Liu
and Takehiko Kitamori



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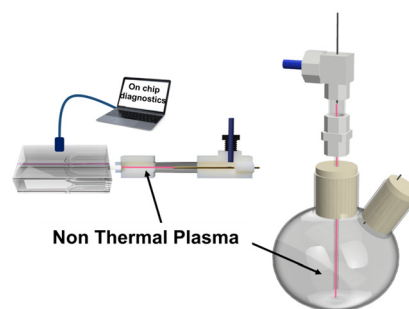
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2720

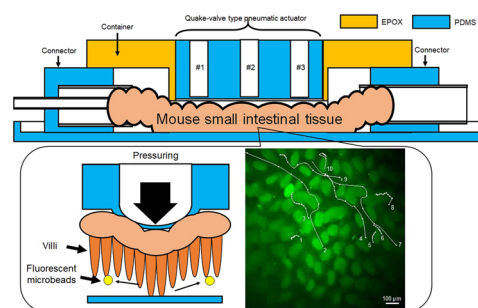
Enabling batch and microfluidic non-thermal plasma chemistry: reactor design and testingP. Roszkowska, A. Dickenson, J. E. Higham, T. L. Easun,*
J. L. Walsh* and A. G. Slater*

PAPERS

2729

Development of a microfluidic device to observe dynamic flow around the villi generated by deformation of small intestinal tissue

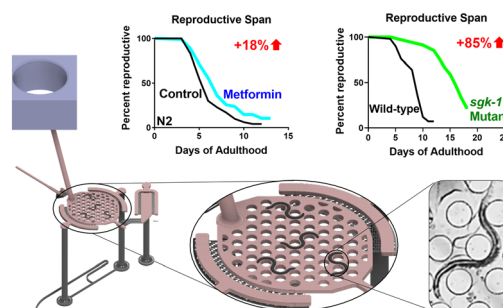
Satoru Kuriu,* Naoyuki Yamamoto and Tadashi Ishida*



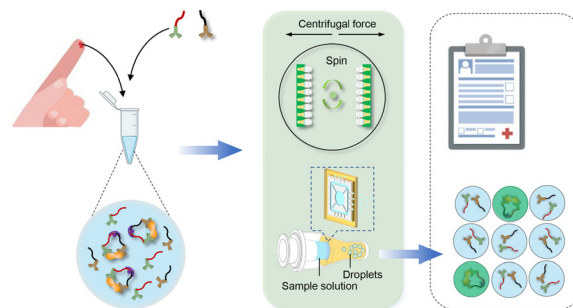
2738

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

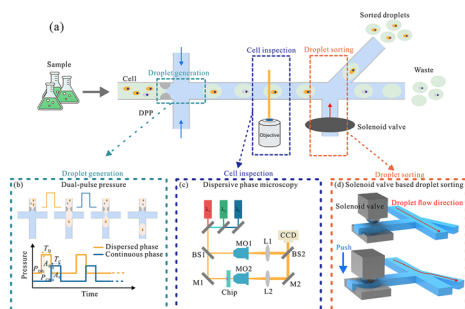
Salman Sohrabi, Vanessa Cota and Coleen T. Murphy*



2758

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

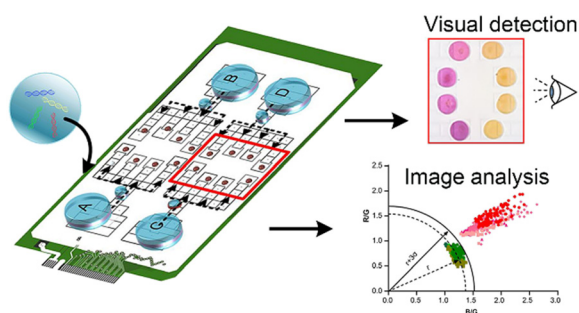
2766



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

Yingdong Luo, Yuanyuan Huang, Yani Li, Xiudong Duan, Yongguang Jiang, Cong Wang, Jiakun Fang,* Lei Xi,* Nam-Trung Nguyen and Chaolong Song*

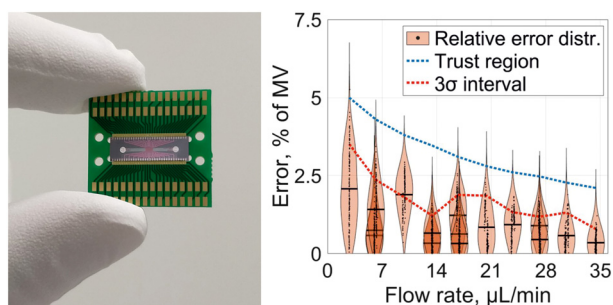
2778



A digital microfluidic platform coupled with colorimetric loop-mediated isothermal amplification for on-site visual diagnosis of multiple diseases

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

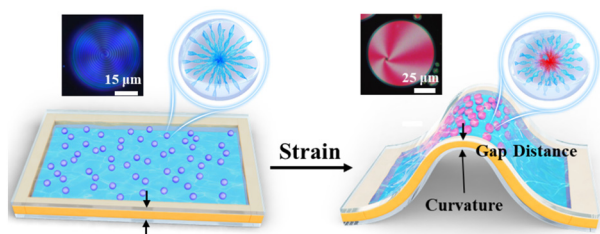
2789



Integrated membrane-free thermal flow sensor for silicon-on-glass microfluidics

Vitaly V. Ryzhkov, Vladimir V. Echeistov, Aleksandr V. Zverev, Dmitry A. Baklykov, Tatyana Konstantinova, Evgeny S. Lotkov, Pavel G. Ryazantcev, Ruslan Sh. Alibekov, Aleksey K. Kuguk, Andrey R. Aleksandrov, Elisey S. Krasko, Anastasiya A. Barbasheva, Ilya A. Ryzhikov and Ilya A. Rodionov*

2798



Strain-induced recognition of molecular and chirality in cholesteric liquid crystal droplets for distance and curvature sensing

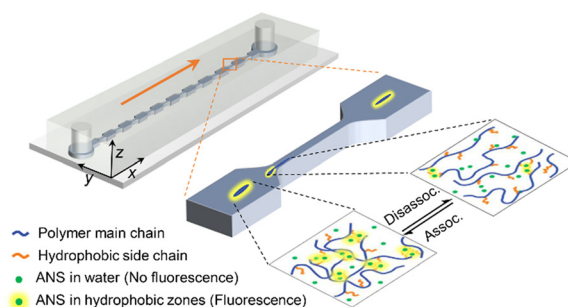
Shuting Xie, Ruizhi Yang, Qifan Zhu, Shitao Shen, Lanhui Li, Minmin Zhang, Xiaowen Hu, Mingliang Jin, Liqiu Wang* and Lingling Shui*



2808

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

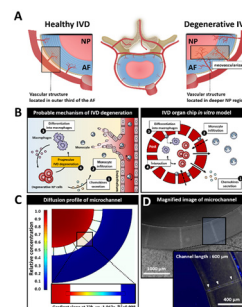
Yan Zhang, Xuezhi Zhao, Peihui Han, Tianlei He, Hongyao Yin, Liyuan Zhang,* Yujun Feng* and David A. Weitz*



2819

Intervertebral disc organ-on-a-chip: an innovative model to study monocyte extravasation during nucleus pulposus degeneration

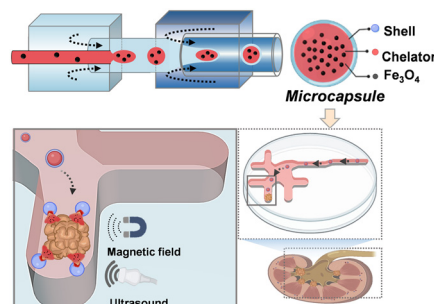
Hyeong-Guk Son, Min-Ho Hwang, Sumin Lee, An-Gi Kim, Tae-Won Kim, Joo-Han Kim, Hyuk Choi* and Sehoon Jeong*



2829

Magnetic delivery and ultrasound-responsive release of chelating microcapsules for selective removal of urolithiasis

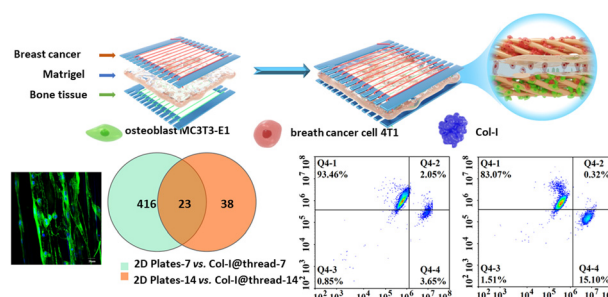
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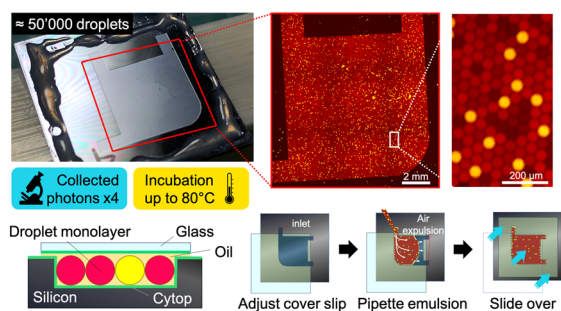


2838

Probing the interaction between metastatic breast cancer cells and osteoblasts in a thread-based breast–bone co-culture device

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





Silicon chambers for enhanced incubation and imaging of microfluidic droplets

Nicolas Lobato-Dauzier, Robin Deteix, Guillaume Gines, Alexandre Baccouche, Benediktus Nixon Hapsianto, Shu Okumura, Guilhem Mariette, Djaffar Belharet, Samuel Queste, Laurent Jalabert, Matthieu Denoual, Yannick Rondelez, Hiroshi Toshiyoshi, Hiroyuki Fujita, Soo Hyeon Kim, Teruo Fujii and Anthony J. Genot*

