

Lab on a Chip

Devices and applications at the micro- and nanoscale
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See Jessica M. Gluck *et al.*, pp. 525–540.
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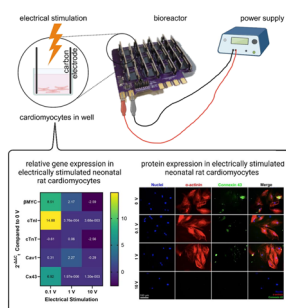
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See Hiroaki Onoe *et al.*, pp. 541–550.
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Modular bioreactor for multi-well electrical stimulation of *in vitro* cardiac tissue engineering constructs

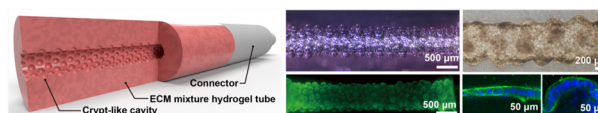
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Shota Uramoto, Shuma Tanaka, Shun Itai, Jumpei Muramatsu, Daichi Arai, Kosuke Tsukada, Takaaki Abe, Takafumi Toyohara and Hiroaki Onoe*





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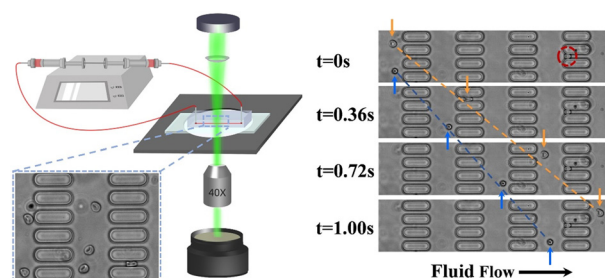
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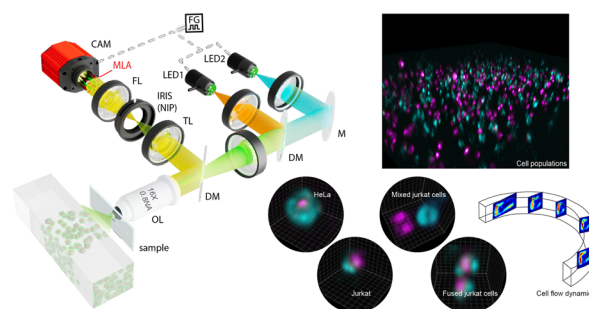
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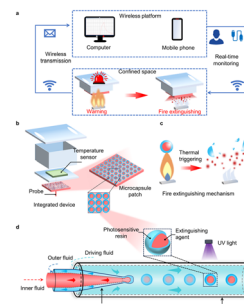
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Integrated high-performance microcapsule fire extinguishing system for confined spaces with real-time monitoring and early warning capabilities

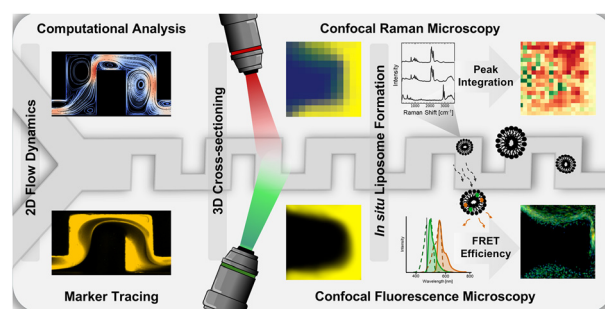
Qiaosheng Pan, Jiachao Zhang, Jijie Fu, Ning Sang, Dang Ding, Peng Zhang, Chen Li, Tianpei Zhou, Ting Si,* Fangsheng Huang* and Zhiqiang Zhu*



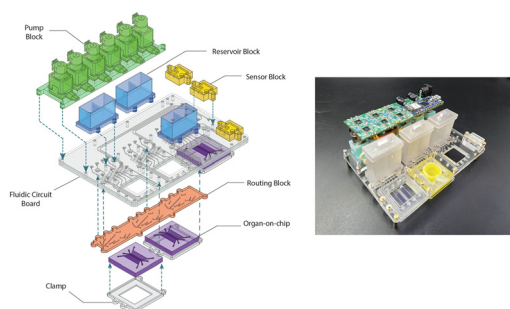
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In situ imaging of fluid dynamics and nanocarrier nucleation inside microfluidic mixing devices

Christopher Hauss, Alexander Erb, Johannes Most, Johanna Steinmann, Robert W. Stark, Stefanie Gier and Maik Windbergs*



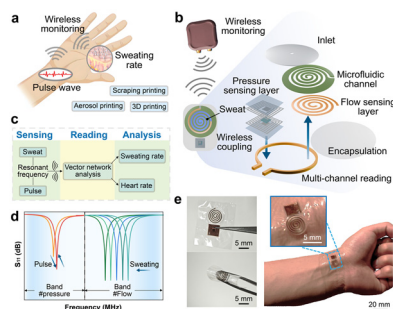
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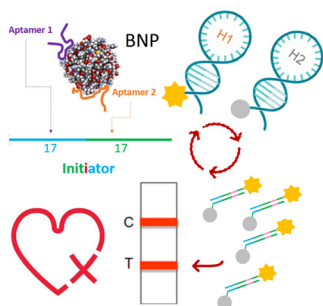
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Fully printed and flexible patch for real-time wireless monitoring of the sweating rate with physiological detection

Hao Wen, Kailong Dong, Feiyang Huang, Zhiqing Gao, Zijian An, Rujing Sun, Xin Li, Qing Ye and Qingjun Liu*

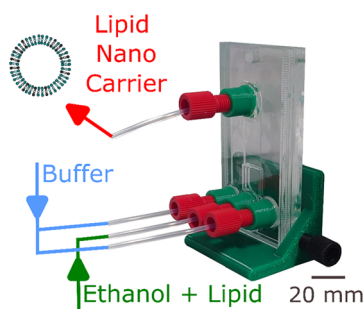
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Lateral flow biosensors for low abundance detection of brain natriuretic peptide with enzyme-free amplification

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Vertical Flow Focusing by Multilayer PMMA assembly

- Rapid device assembly
- Affordable
- High-throughput

Affordable, cleanroom-free millifluidic production of targeted lipid nanocarriers via additive manufacturing

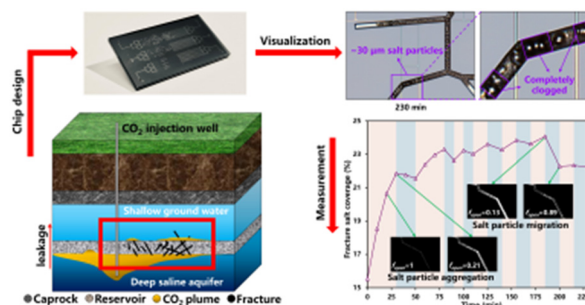
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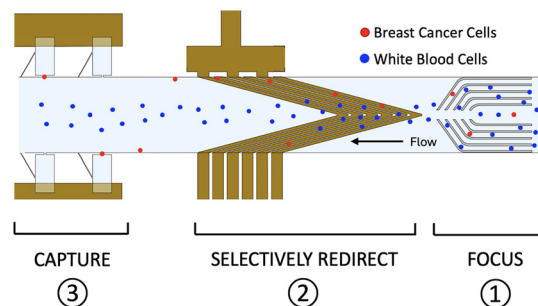
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Integrated DEP presorting and wireless electrode array for high-throughput selective single-cell isolation

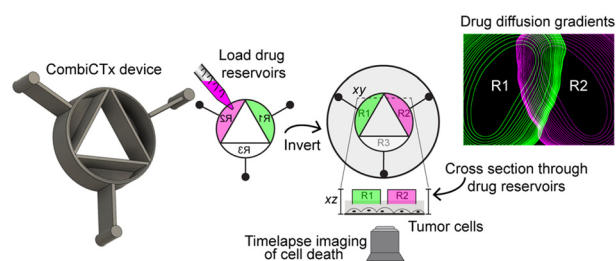
Thilini N. Rathnaweera, Dhatchayani Rajkumar and Robbyn K. Anand*



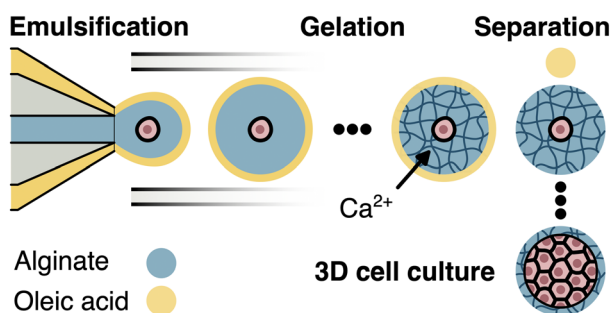
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CombiCTx: screening diffusion gradients of anti-cancer drug combinations

Christina Stelzl, Ada Lerma-Clavero, Selina Camenisch, Benoit Simon, Olle Eriksson, Oliver Degerstedt, Hans Lennernäs, Femke Heindryckx, Johan Kreuger and Paul O'Callaghan*



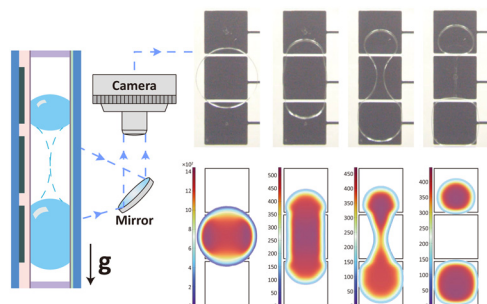
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Sacrificial oil shell method for the generation of alginate microbeads adapted to multicellular spheroid culture

Léon Rembotte, Jean Cappello,* Adrien Dewandre, Marie Mettler, Jean Septavaux, Pierre Nassosy and Benoit Scheid

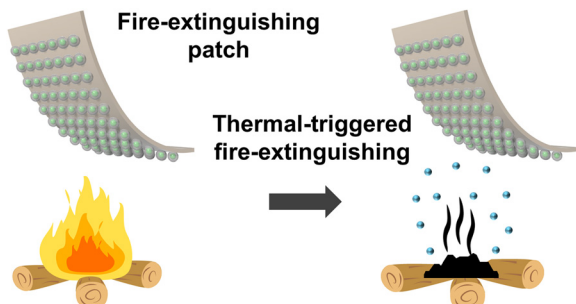
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Gravity-induced tunable asymmetric droplet splitting for flexible and precise reagent formulation on vertical digital microfluidic devices

Juyue Dong, Zerui Song, Kunlun Guo, Hang Xu, Zhibei Qu, Zhen Gu* and Huifeng Wang*

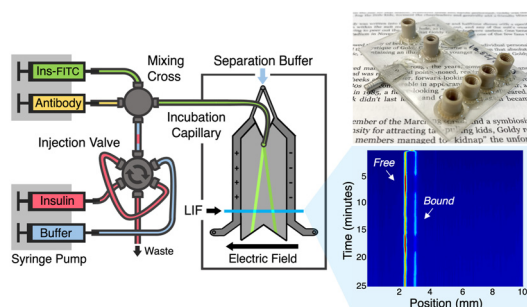
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Online affinity micro free-flow electrophoresis for the continuous monitoring of insulin via a competitive immunoassay

Gretchen S. Burke, Seokwon Jo, Emilyn U. Alejandro and Michael T. Bowser*

