

Lab on a Chip

Devices and applications at the micro- and nanoscale

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ISSN 1473-0197 CODEN LCAHAM 24(8) 2137–2362 (2024)



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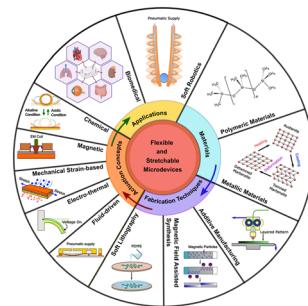
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Priscilla Delgado, C. Alessandra Luna, Anjana Dissanayaka, Oluwamayokun Oshinowo, Jesse J. Waggoner, Sara Schley, Todd Fernandez* and David R. Myers*





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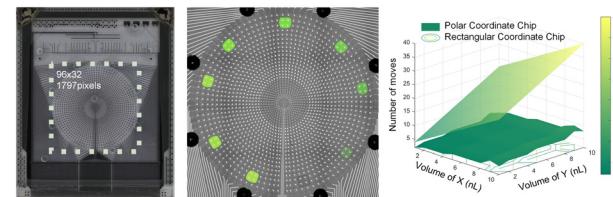


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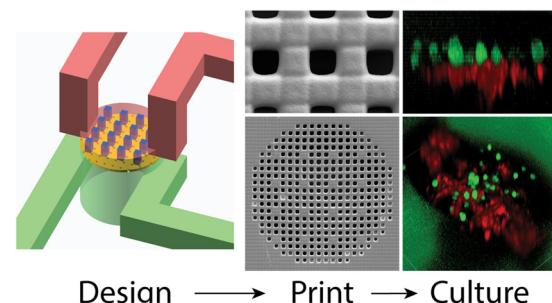
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Matthew S. Viglione, Aubrianna Saxton, Dawson Downs, Adam T. Woolley, Kenneth A. Christensen, Pam M. Van Ry and Gregory P. Nordin*

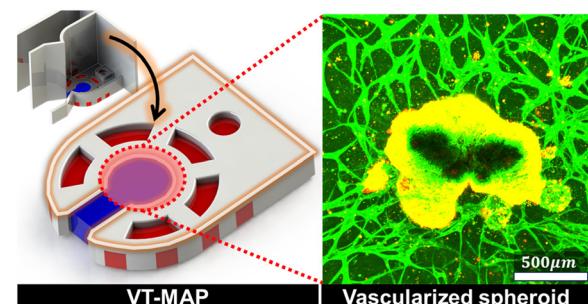


Design → Print → Culture

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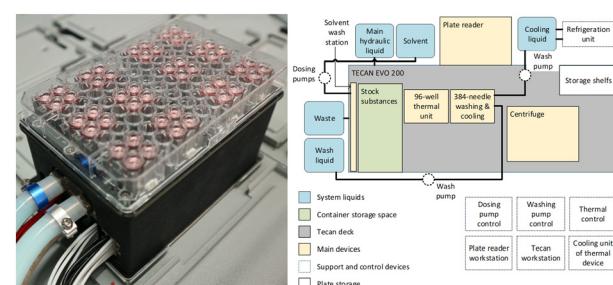
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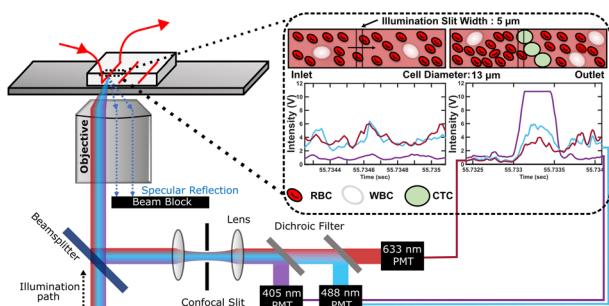
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Simon Seidel,* Katja F. Winkler, Anke Kurreck, Mariano Nicolas Cruz-Bournazou, Katharina Paulick, Sebastian Groß and Peter Neubauer



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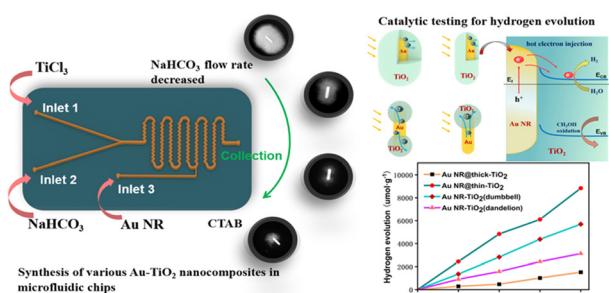
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Deep learning-enabled detection of rare circulating tumor cell clusters in whole blood using label-free, flow cytometry

Nilay Vora, Prashant Shekar, Taras Hanulia, Michael Esmail, Abani Patra and Irene Georgakoudi*

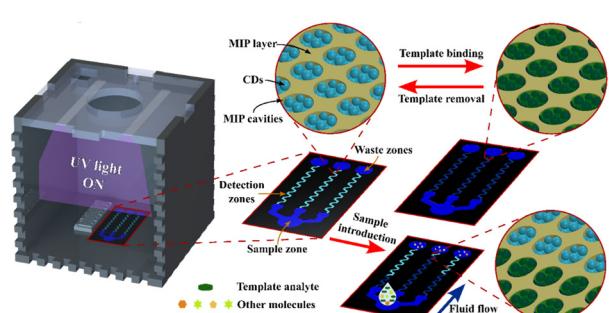
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Ziran Ye,* Ping Lu, Yiben Chen, Zhixian Xu, Haixia Huang, Mingjia Zhi, Zi Ang Chen and Bo Yan*

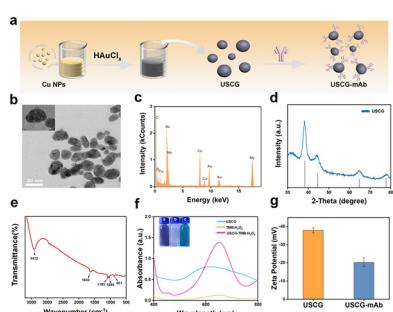
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Distance-based paper analytical device for multiplexed quantification of cytokine biomarkers using carbon dots integrated with molecularly imprinted polymer

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A cheaper substitute for HRP: ultra-small Cu-Au bimetallic enzyme mimics with infinitesimal steric hindrance to promote catalytic lateral flow immunodetection of clenbuterol

Huilan Hu, Jiaqi Tian, Rui Shu, Huihui Liu,* Shaochi Wang, Xuechi Yin, Jianlong Wang and Daohong Zhang*

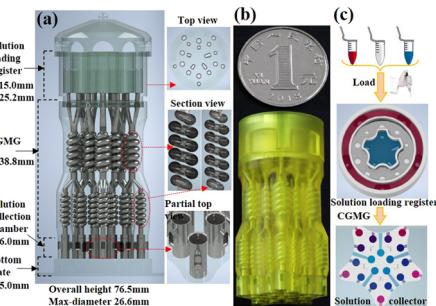


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High-throughput 3D microfluidic chip for generation of concentration gradients and mixture combinations

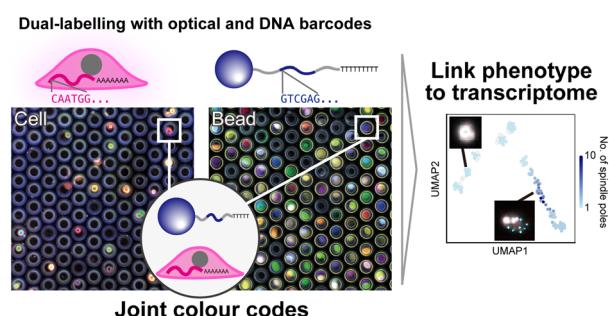
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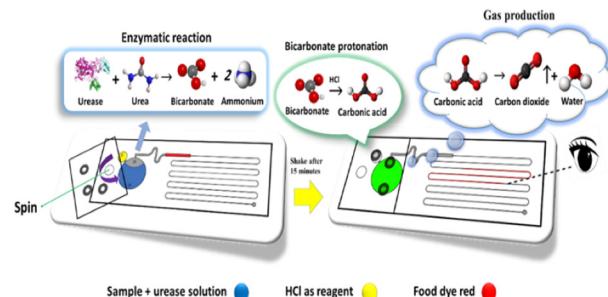
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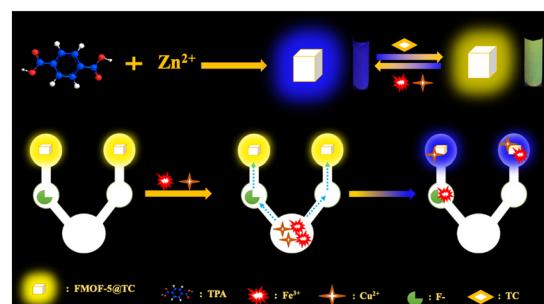
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Sabah H. Al-Jaf, Sameera Sh. Mohammed Ameen and Khalid M. Omer*



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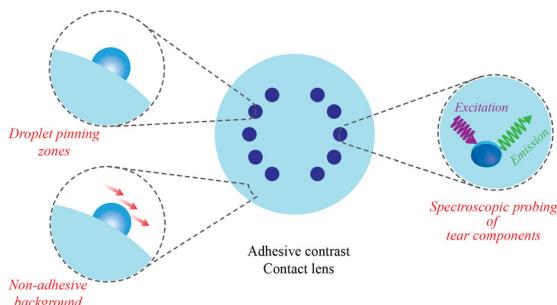
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Effect of in-plane and out-of-plane bifurcated microfluidic channels on the flow of aggregating red blood cells

Amirreza Gholivand, Olivera Korculanin, Knut Dahlhoff, Mehrnaz Babaki, Timo Dickscheid and Minne Paul Lettinga*

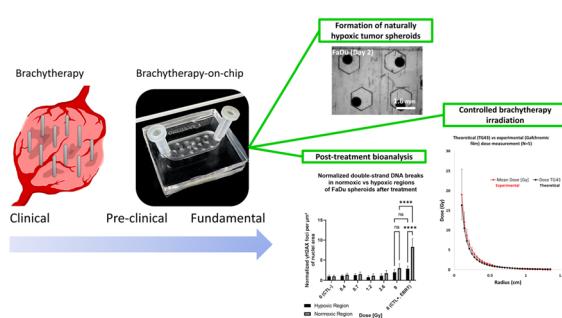
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A surface-engineered contact lens for tear fluid biomolecule sensing

Aravind M and Sajan D. George*

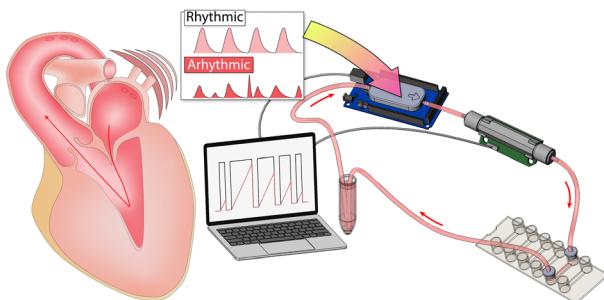
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Brachytherapy on-a-chip: a clinically-relevant approach for radiotherapy testing in 3d biology

Rodin Chermat,* Elena Refet-Mollof, Yuji Kamio, Jean-François Carrier, Philip Wong and Thomas Gervais

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A microfluidic model to study the effects of arrhythmic flows on endothelial cells

Austin Lai, Adam Hawke, Mokhaled Mohammed, Peter Thurgood, Gianmarco Conclilia, Karlheinz Peter, Khashayar Khoshmanesh* and Sara Baratchi*



CORRECTION

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Correction: Integrated biosensors for monitoring microphysiological systems

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