

Lab on a Chip

Devices and applications at the micro- and nanoscale
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Cover
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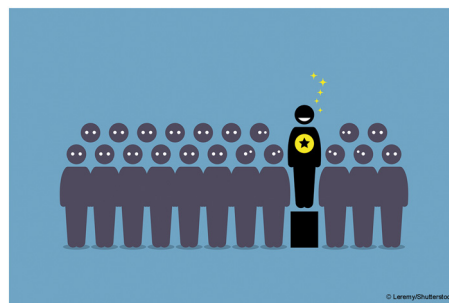


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EDITORIAL

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Outstanding Reviewers for *Lab on a Chip* in 2024

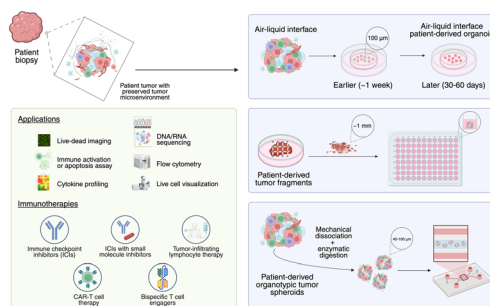


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David J. Bozym, David X. Zheng, Or-Yam Revach,
Amir Aref and Russell W. Jenkins*



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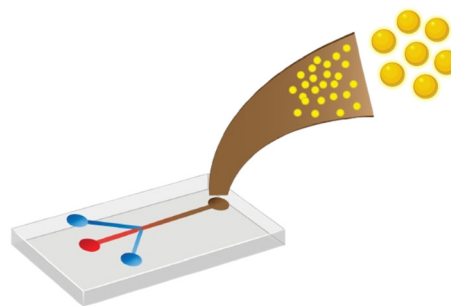


CRITICAL REVIEWS

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Advances in nanoparticle synthesis assisted by microfluidics

Muhammad Mubashar Saeed,* Eadaoin Carthy,
Nicholas Dunne and David Kinahan

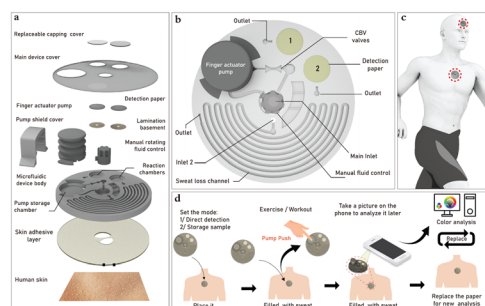


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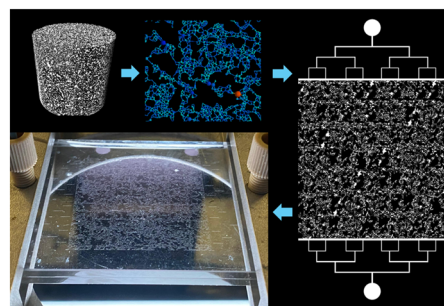
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Xuzhong Wang, Yousuf Babiker M. Osman, Yuhang Liu,
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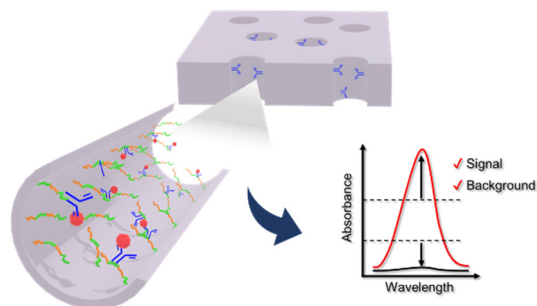
Pablo A. Godoy, Alirza Orujov, Aurora Pérez Gramatges
and Saman A. Aryana*



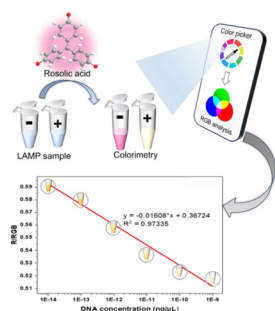
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A membrane-based immunosensor enabling high antifouling performance and sensitive molecular recognition

Hiroki Yamashita, Hiroto Okuyama
and Takeo Yamaguchi*



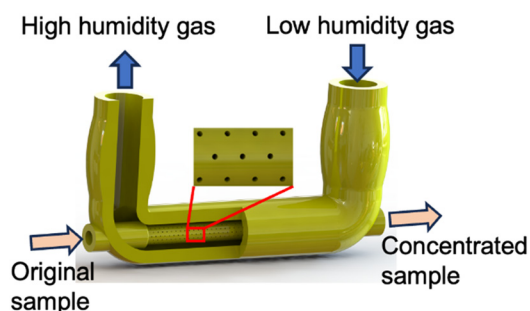
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Rajamanickam Sivakumar, Seo Yeon Park, Seung Kyun Park and Nae Yoon Lee*

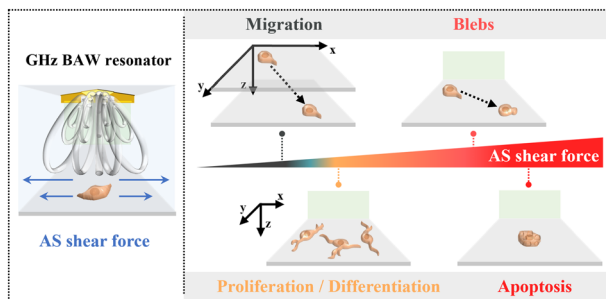
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3D-printed micro-pore evaporator for increasing concentration of analytes in aqueous solutions

Yufeng Su and Tanya Hutter*

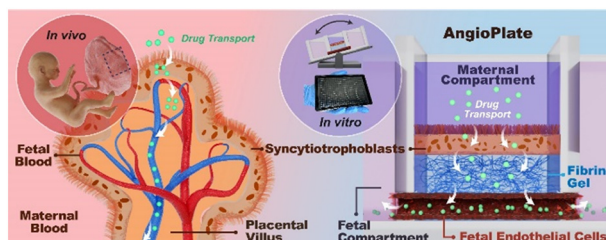
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Late-stage placental barrier model for transport studies of prescription drugs during pregnancy

Sonya Kouthouridis, Poonam Saha, Madeleine Ludlow, Brenda Y. N. Truong and Boyang Zhang*

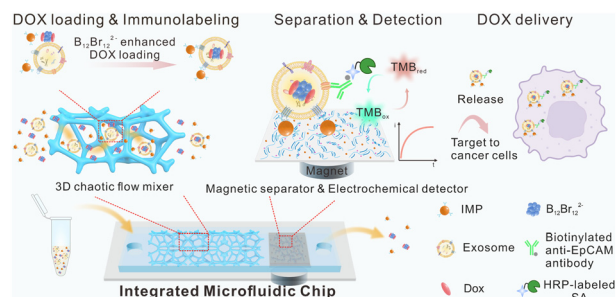


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An integrated microfluidic chip for synchronous drug loading, separation and detection of plasma exosomes

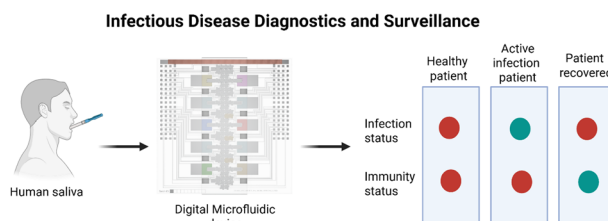
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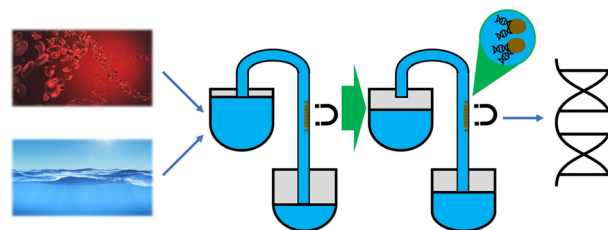
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DNA extraction from bacteria using a gravity-driven microcapillary siphon

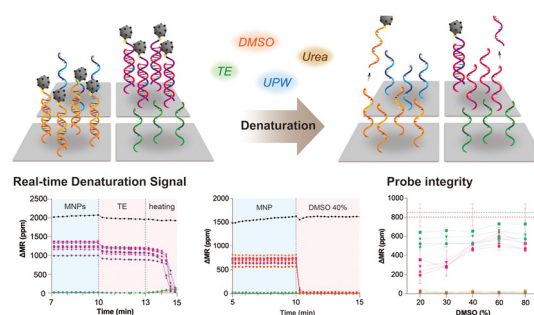
Crescenzo Ianniello, Julia Sero, David Gough, Barbara Kasprzyk-Hordern and Nuno M. Reis*



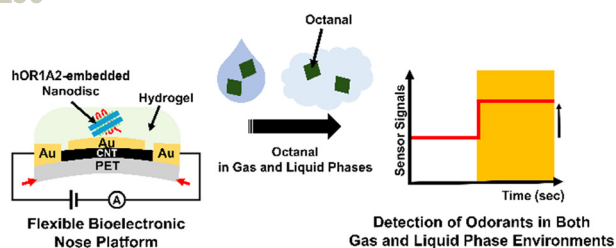
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Denaturation methods for reusable magnetic biosensors

Suhyeon Park, Songeun Kim, Shan X. Wang and Jung-Rok Lee*



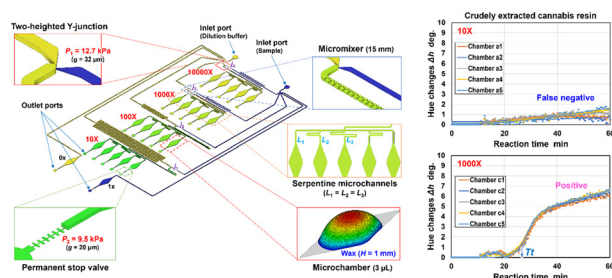
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Danmin Choi, Jun Young Hwang, Youngju Nam, Sunwoo Bang, Seung Hwan Lee* and Seunghun Hong*

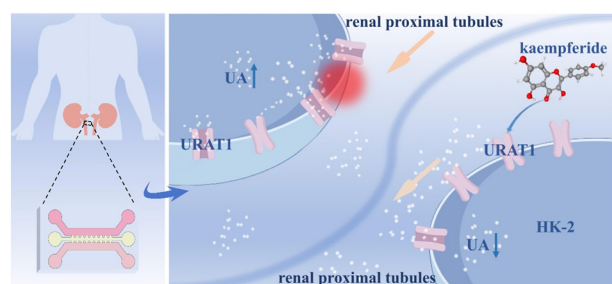
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Parallel dilution microfluidic device for enabling logarithmic concentration generation in molecular diagnostics

Akira Miyajima,* Fumiya Nishimura, Daigo Natsuhara, Yuka Kiba, Shunya Okamoto, Moeto Nagai, Tadashi Yamamuro, Masashi Kitamura and Takayuki Shibata*

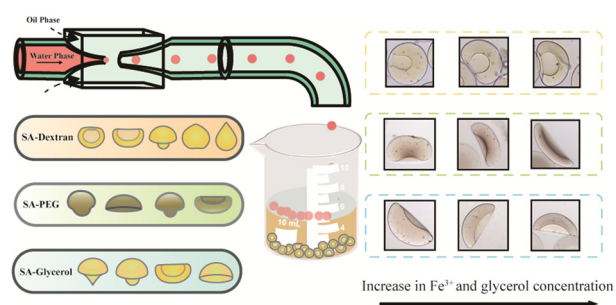
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Investigation of the potential application of kaempferide in hyperuricemia based on a kidney-on-a-chip

Xinyu Song, Lili Zhao, Yingying Tian, Chen Yang, Ting Cao* and Jiayu Zhang*

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Droplet microfluidics-assisted fabrication of Fe-alginate microgels with complex morphology: effect of the composition of droplets

Jie Chen, Penghui Li, Ran An, Aishan Cai, Kaiqi Wang, Zheyu Zhang, Tao Wang* and Yuandu Hu*

