

# Sensors & Diagnostics

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## IN THIS ISSUE

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### Cover

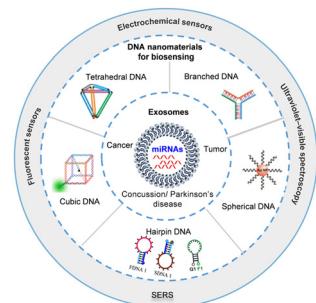
See Keun Seok Seo,  
Chong Ahn et al.,  
pp. 320-335.  
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320.

## CRITICAL REVIEW

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### Biological properties and DNA nanomaterial biosensors of exosomal miRNAs in disease diagnosis

Zhikun Zhang, Md. Ahsan Ahamed and Dayong Yang\*

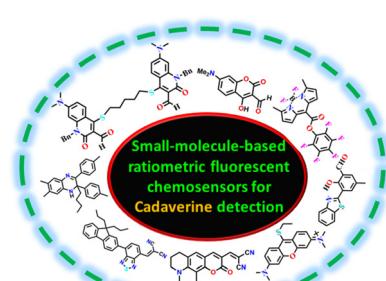


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### Reactivity-based small-molecule fluorescence probes for sensing biogenic amine cadaverine – a biomarker to determine food freshness

Mannanthara Kunhumon Noushija,  
Alenthwar Vamshi Krishna, Ruhila Taj Mehboob Ali  
and Sankarasekaran Shanmugaraju\*



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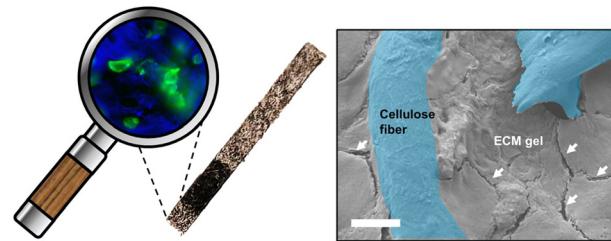
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**Paper sensors for the measurement of nitric oxide release from endothelial cells**

Syed Hassan Ali and Raphaël Trouillon\*

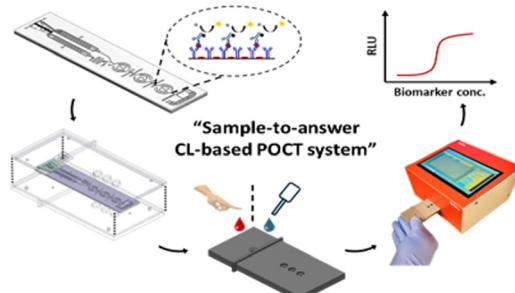


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**A new sequential dual flow lab-on-a-chip with a lyophilized one-component chemiluminescence substrate for high-sensitive microchannel lateral flow assay (mLFA)**

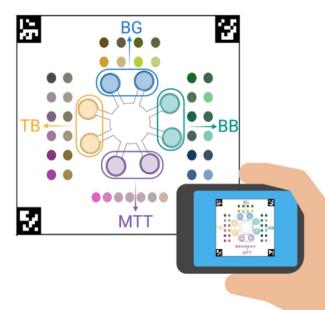
Supreeth Setty, Heeyeong Jang, Jungyup Han, Joo Youn Park, Nogi Park, Keun Seok Seo\* and Chong Ahn\*



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**Leveraging synthetic imagery and YOLOv8 for a novel colorimetric approach to paper-based point-of-care male fertility testing**

Olgac Özarslan, Begum Kubra Tokyay, Cansu Soylemez, Mehmet Tugrul Birtek, Zihni Onur Uygun, İpek Keles, Begum Aydogan Mathyk, Cihan Halcigil and Savas Tasoglu\*

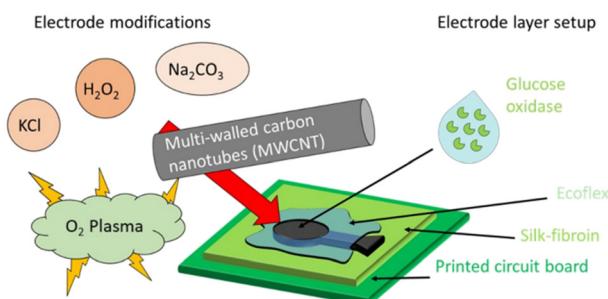


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**Headspace paper-based analytical device for ammonia quantification in human biological samples**

Kawin Khachornsakkul,\* Darren Johnsen and Sameer Sonkusale\*





## Modification of a bioabsorbable carbon electrode on silk-fibroin carriers: setting the composition and adjustment of the working potential

Kevin Alexander Janus, Madita Zach, Stefan Achtsnicht, Aleksander Drinic, Alexander Kopp, Michael Keusgen and Michael Josef Schöning\*

