

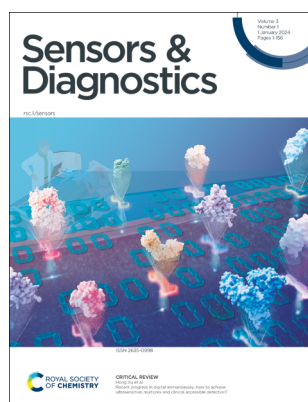
# Sensors & Diagnostics

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## IN THIS ISSUE

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Hong Xu from *Sens. Diagn.*,  
2024, 3, 9.



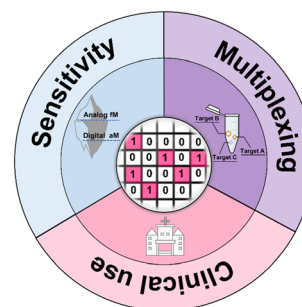
**Inside cover**  
See Darshak R. Trivedi *et al.*,  
pp. 64–78.  
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*Sens. Diagn.*, 2024, 3, 64.

## CRITICAL REVIEW

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### Recent progress in digital immunoassay: how to achieve ultrasensitive, multiplex and clinical accessible detection?

Yutong Zhang, Hongchen Gu and Hong Xu\*

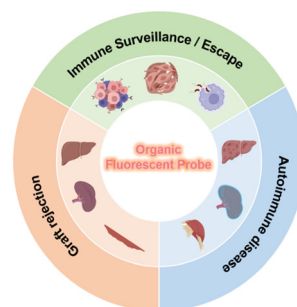


## TUTORIAL REVIEW

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### Organic fluorophore-based fluorescent probes for abnormal immune response diagnosis and treatment evaluation

Shan Zuo, Yanhua Li, Tianbing Ren\* and Lin Yuan\*





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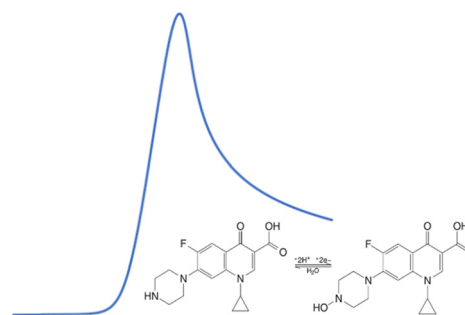


## PERSPECTIVE

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## Electroanalytical overview: the measurement of ciprofloxacin

Robert D. Crapnell, Prashanth S. Adarakatti and Craig E. Banks\*

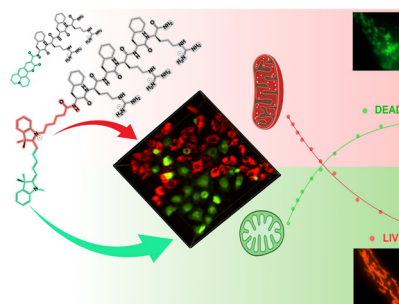


## COMMUNICATION

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## Unveiling cellular vitality: peptide fluorescent probes illuminate mitochondrial dynamics and ROS activity

Ixsoyen Vázquez-Sandoval, Jasmine Bernal-Escalante, Adriana Romo-Pérez and Arturo Jiménez-Sánchez\*

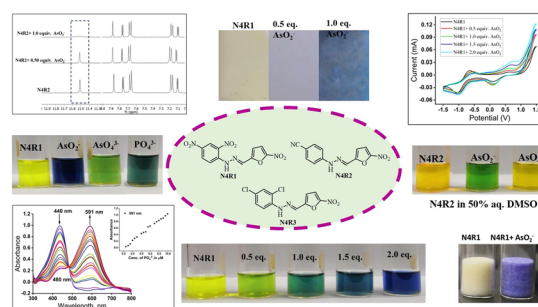


## PAPERS

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## Development of multi-analyte responsive sensors: optical discrimination of arsenite and arsenate ions, ratiometric detection of arsenite, and application in food and water samples

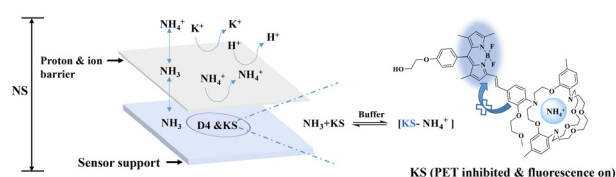
Nagaraj K. A. Nityananda Shetty and Darshak R. Trivedi\*



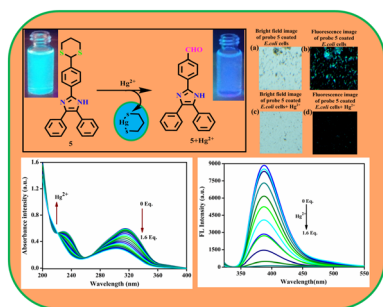
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## Highly selective fluorescent sensor for ammonium ions

Min Shen, Tingting Pan,\* Yonghao Chen, Juwei Ning, Fengyu Su\* and Yanqing Tian\*



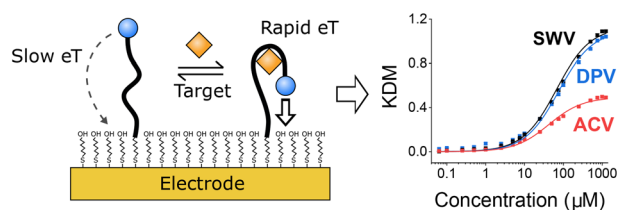
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### Turn-off fluorescence of imidazole-based sensor probe for mercury ions

Uma Krishnan, Saravanakumar Manickam and Sathiyarayanan Kulathu Iyer\*

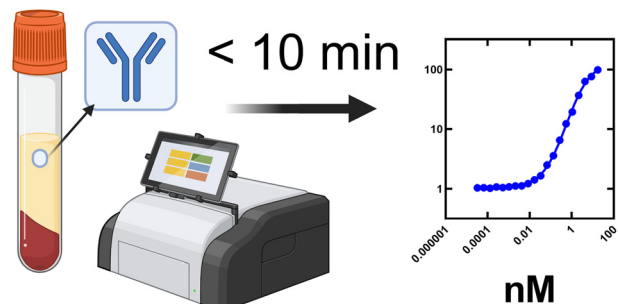
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### Comparison of voltammetric methods used in the interrogation of electrochemical aptamer-based sensors

Elsi Verrinder, Kaylyn K. Leung, Murat Kaan Erdal, Lior Sepunaru and Kevin W. Plaxco\*

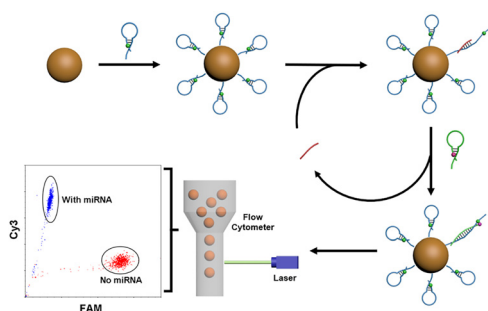
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### Therapeutic drug monitoring of immunotherapies with novel Affimer-NanoBIT sensor construct

Emma Campbell, Hope Adamson, Timothy Luxton, Christian Tiede, Christoph Wälti, Darren C. Tomlinson and Lars J. C. Jeuken\*

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### Bead-enriched catalyzed hairpin assembly for the flow cytometric detection of microRNA via FRET signal readout

Zhengkun Dong, Wenjiao Fan,\* Wei Ren and Chenghui Liu\*

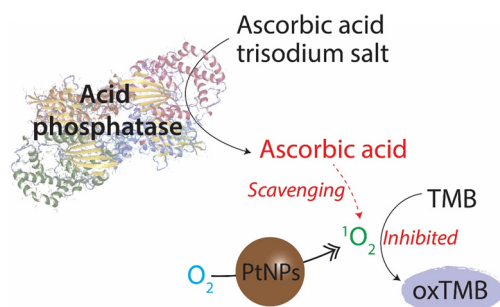


## PAPERS

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### Single-step colorimetric detection of acid phosphatase in human urine using an oxidase-mimic platinum nanozyme

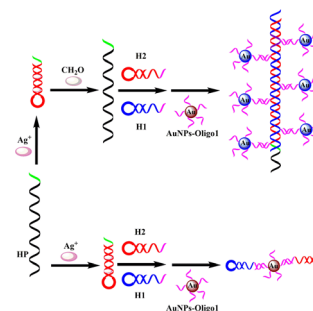
Sanjana Naveen Prasad, Sanje Mahasivam, Sabeen Hashmi, Vipul Bansal\* and Rajesh Ramanathan\*



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### Colorimetric and dynamic light scattering dual-readout assay for formaldehyde detection based on the hybridization chain reaction and gold nanoparticles

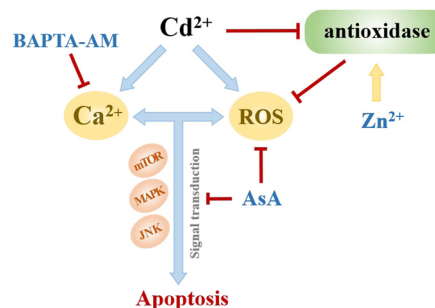
Wenxiu Huang, Linyuan Chen, Li Zou\* and Liansheng Ling\*



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### Study on inhibitory effects of AsA, ZnCl<sub>2</sub>, and BAPTA-AM on Cd<sup>2+</sup>-induced cell oxidative stress and cytotoxicity by scanning electrochemical microscopy (SECM) technology

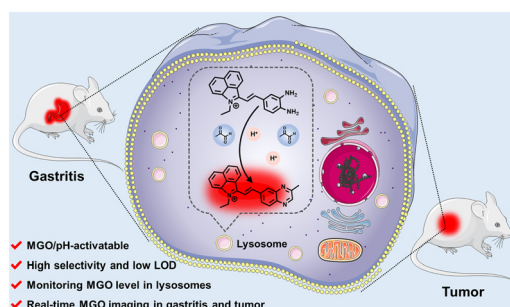
Ke Gao, Yuying Du, Na Pan, Xuewei Zhou, Liping Lu\* and Xiayan Wang



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### Acid-promoted fluorescent probe for monitoring endogenous methylglyoxal in tumors and gastritis

Weijia Xu, Senyao Liu, Wenwen Cao and Hu Xiong\*



- ✓ MGO/pH-activatable
- ✓ High selectivity and low LOD
- ✓ Monitoring MGO level in lysosomes
- ✓ Real-time MGO imaging in gastritis and tumor



## CORRECTION

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**Correction: Real-time, smartphone-based processing of lateral flow assays for early failure detection and rapid testing workflows**

Monika Colombo, Léonard Bezingue, Andres Rocha Tapia, Chih-Jen Shih, Andrew J. deMello\* and Daniel A. Richards\*

