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Sensors & Diagnostics

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See Hong Xu *et al.*, pp. 9–27.
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See Darshak R. Trivedi *et al.*, pp. 64–78.
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CRITICAL REVIEW

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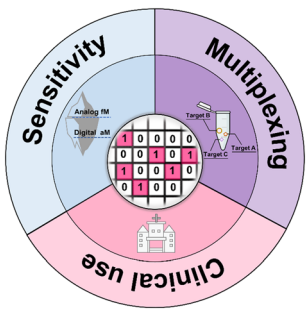
Recent progress in digital immunoassay: how to achieve ultrasensitive, multiplex and clinical accessible detection?

Yutong Zhang, Hongchen Gu and Hong Xu*



TUTORIAL REVIEW

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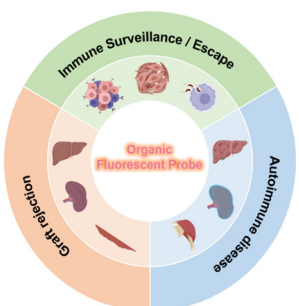
Organic fluorophore-based fluorescent probes for abnormal immune response diagnosis and treatment evaluation

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



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PERSPECTIVE

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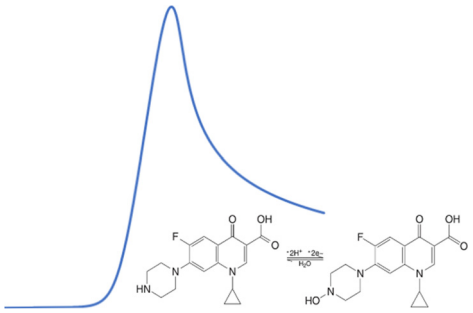
Electroanalytical overview: the measurement of ciprofloxacin

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



COMMUNICATION

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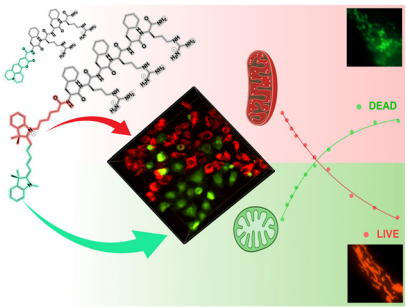
Unveiling cellular vitality: peptide fluorescent probes illuminate mitochondrial dynamics and ROS activity

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



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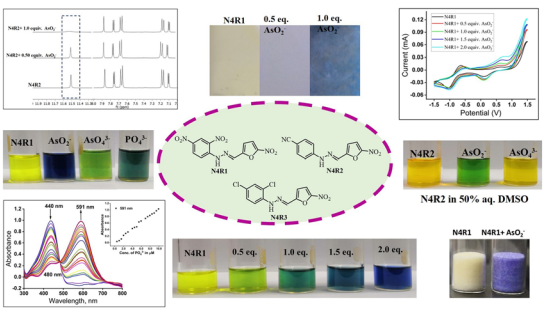
Development of multi-analyte responsive sensors: optical discrimination of arsenite and arsenate ions, ratiometric detection of arsenite, and application in food and water samples

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



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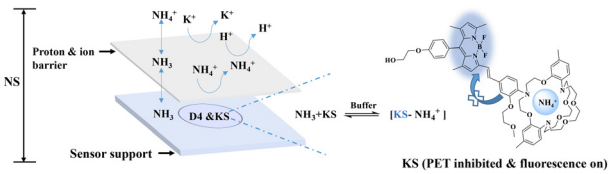
Highly selective fluorescent sensor for ammonium ions

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



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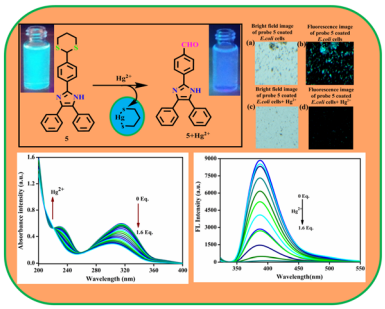

Turn-off fluorescence of imidazole-based sensor probe for mercury ions

Uma Krishnan, Saravanakumar Manickam and Sathiyanarayanan Kulathu Iyer*

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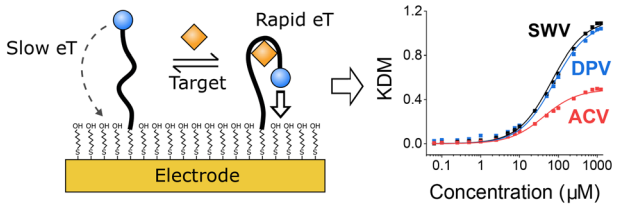

Comparison of voltammetric methods used in the interrogation of electrochemical aptamer-based sensors

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

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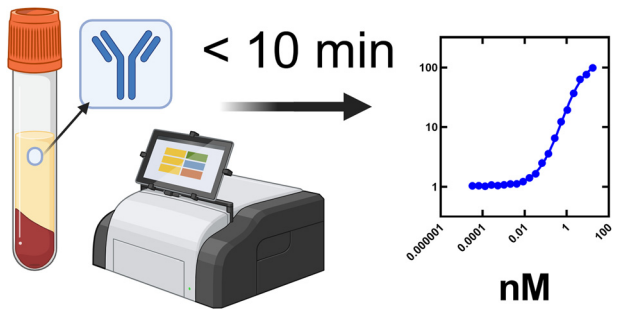

Therapeutic drug monitoring of immunotherapies with novel Affimer–NanoBiT sensor construct

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

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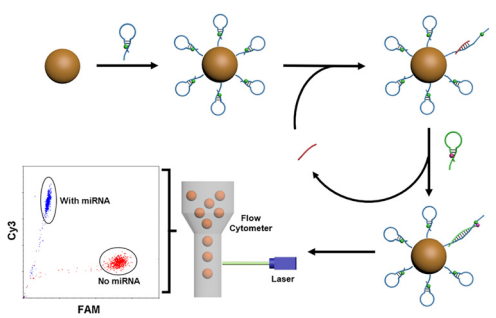

Bead-enriched catalyzed hairpin assembly for the flow cytometric detection of microRNA *via* FRET signal readout

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

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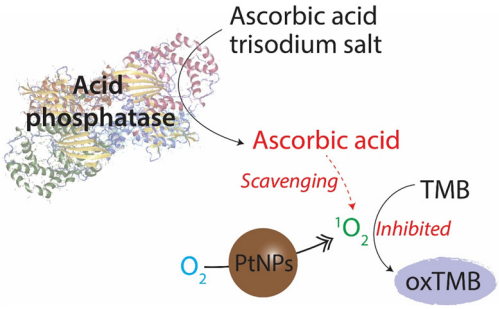
Single-step colorimetric detection of acid phosphatase in human urine using an oxidase-mimic platinum nanozyme

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



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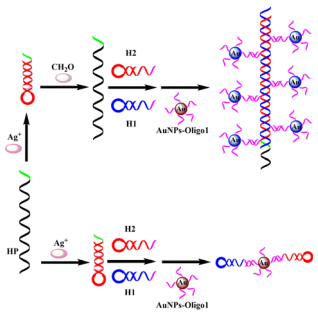
Colorimetric and dynamic light scattering dual-readout assay for formaldehyde detection based on the hybridization chain reaction and gold nanoparticles

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



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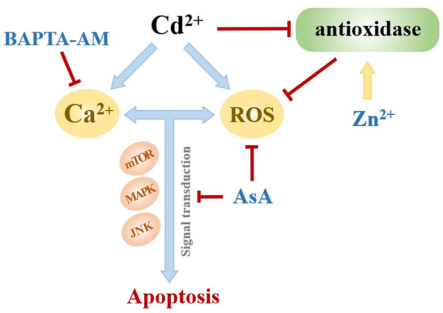
Study on inhibitory effects of AsA, $ZnCl_2$, and BAPTA-AM on Cd^{2+}-induced cell oxidative stress and cytotoxicity by scanning electrochemical microscopy (SECM) technology

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



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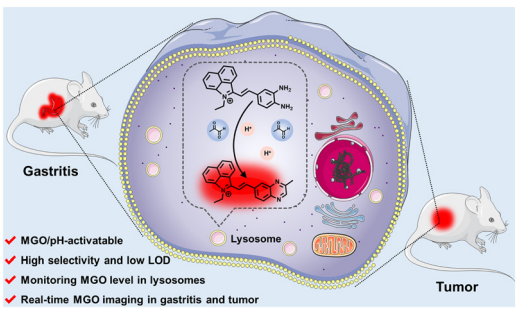
Acid-promoted fluorescent probe for monitoring endogenous methylglyoxal in tumors and gastritis

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



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 Bezinge, Andres Rocha Tapia, Chih-Jen Shih, Andrew J. deMello* and Daniel A. Richards*

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