

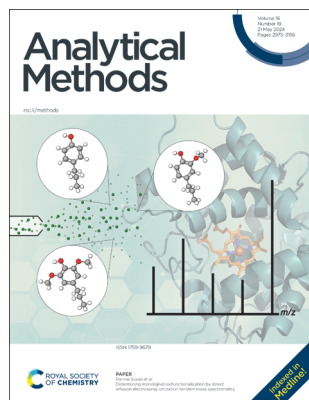
# Analytical Methods

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### Cover

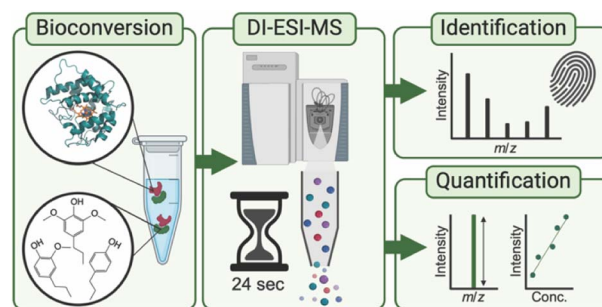
See Rannei Skaali *et al.*, pp. 2983–2996. Image reproduced by permission of Rannei Skaali from *Anal. Methods*, 2024, 16, 2983.

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### Determining monolignol oxifunctionalization by direct infusion electrospray ionization tandem mass spectrometry

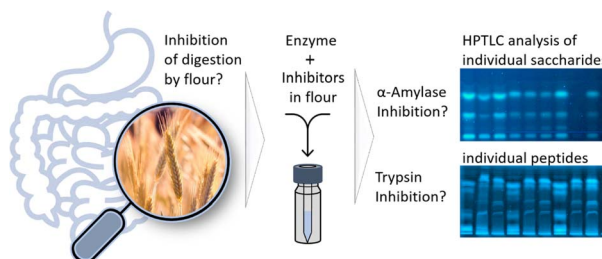
Rannei Skaali,\* Hanne Devle, Katharina Ebner, Dag Ekeberg and Morten Sørli



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### Screening of $\alpha$ -amylase/trypsin inhibitor activity in wheat, spelt and einkorn by high-performance thin-layer chromatography

Isabel Müller, Bianca Schmid, Loredana Bosa and Gertrud Elisabeth Morlock\*



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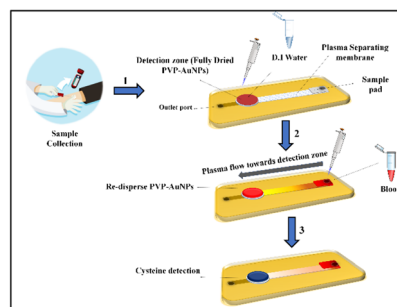
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### A paper-based point-of-care device for the detection of cysteine using gold nanoparticles from whole blood

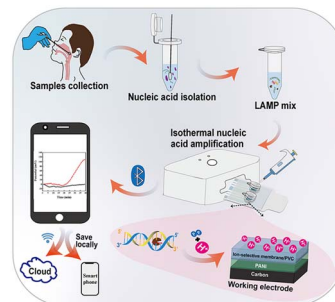
Monika Kumari, Natish Kumar, Sunny Kumar, Shivani Gandhi, Eyal Zussman and Ravi Kumar Arun\*



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### A LAMP-based hydrogen ion selective electrochemical sensor for highly sensitive detection of *Mycoplasma pneumoniae*

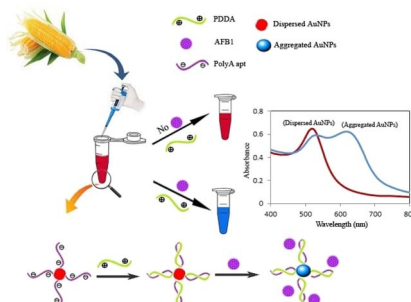
Huiqing Wang, Yang Li, Lin Tian, Xinyi Li, Qian Gao, Yaru Liu, Cuiping Ma, Qing Wang\* and Chao Shi\*



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### Development of a label-free, sensitive gold nanoparticles–poly(adenine) aptasensing platform for colorimetric determination of aflatoxin B1 in corn

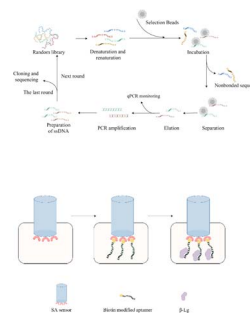
Omid Heydari Shayesteh,\* Katayoun Derakhshandeh, Akram Ranjbar, Reza Mahjub and Abbas Farmany



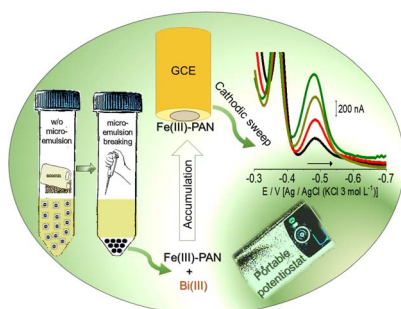
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### A rapid and sensitive aptamer-based biosensor for beta-lactoglobulin in milk

Anqi Liu, Meng Jiang, Yuyin Wu, Han Guo, Ling Kong, Zhiwei Chen\* and Zhao Feng Luo\*



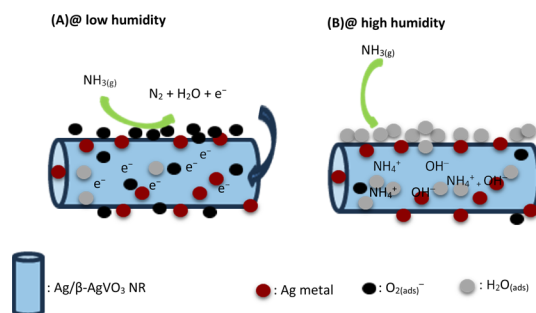
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**A simple, fast and inexpensive approach to quantify low concentrations of iron in biodiesel by voltammetry after extraction induced by microemulsion breaking**

Cristian H. Krause, Alexandre B. Schneider,<sup>\*</sup> Leandro Kolling, Lauren T. T. Oliveira and Márcia M. da Silva

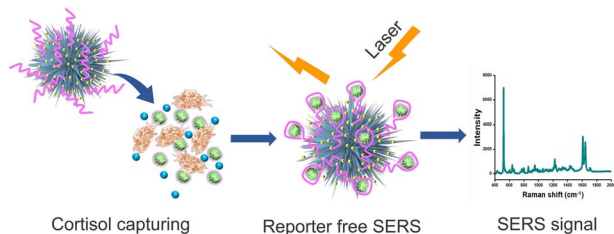
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**Preparation and NH<sub>3</sub> gas-sensing properties of Ag/β-AgVO<sub>3</sub> nanorods**

Pi-Guey Su<sup>\*</sup> and Jia-Jie Yang

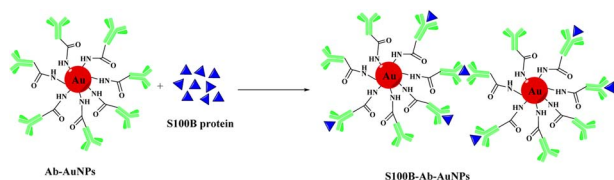
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**Aptamer-aided plasmonic nano-urchins for reporter-free surface-enhanced Raman spectroscopy analysis of cortisol**

Chengyu Li, Jing Hu, Nan Hu, Jianjun Zhao, Qianwen Li, Yanhui Han, Yanxiong Liu, Xufang Hu,<sup>\*</sup> Liyan Zheng<sup>\*</sup> and Qiue Cao<sup>\*</sup>

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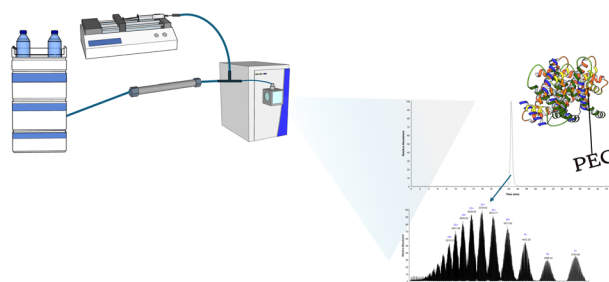
**Antibody-labeled gold nanoparticle based resonance Rayleigh scattering detection of S100B**

Wang Tiantian, Wang Yonghui and Li Junbo<sup>\*</sup>

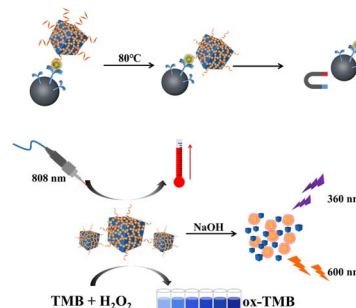


## PAPERS

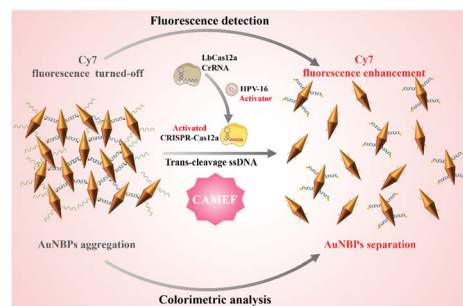
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**Dimethyl sulfoxide as a gas phase charge-reducing agent for the determination of PEGylated proteins' intact mass**Øystein Skjærvø,<sup>\*</sup> Alyssa Togle, Haley Sutton, Xuemei Han and Navin Rauniyar

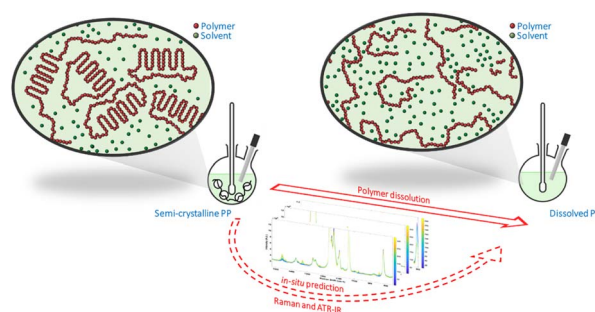
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**A multimode biosensor based on prussian blue nanoparticles loaded with gold nanoclusters for the detection of aflatoxin B1**Zhaodi Fu, Juan Huang, Wei Wei, Zhihui Wu<sup>\*</sup> and Xingbo Shi<sup>\*</sup>

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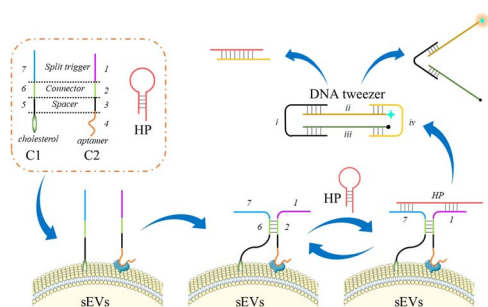
**Detection of free DNA based on metal-enhanced fluorescence triggered by CRISPR-Cas12a and colorimetric analysis**Mingqiu Zheng, Yuyao Li, Liling Zhang, Chengyu Li, Menghan Liu and Hongwu Tang<sup>\*</sup>

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***In situ* dissolved polypropylene prediction by Raman and ATR-IR spectroscopy for its recycling**Sofiane Ferchichi, Nida Sheibat-Othman,<sup>\*</sup> Olivier Boyron, Charles Bonnin, Sébastien Norsic, Maud Rey-Bayle<sup>\*</sup> and Vincent Monteil<sup>\*</sup>



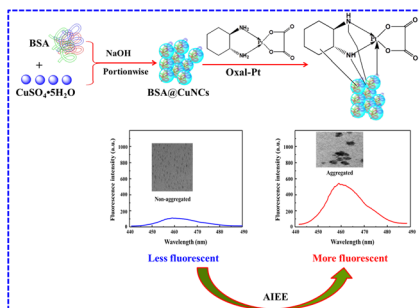
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### Proximity hybridization based “turn-on” DNA tweezers for accurate and enzyme-free small extracellular vesicle analysis

Jinlin Wu, Xi Mei, Xiaoqin Zhan, Fang Liu and Dongfang Liu\*

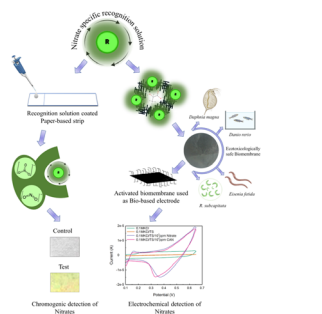
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### Enhanced fluorescent detection of oxaliplatin via BSA@copper nanoclusters: a targeted approach for cancer drug monitoring

Yahya S. Alqahtani, Ashraf M. Mahmoud, Hossieny Ibrahim and Mohamed M. El-Wakil\*

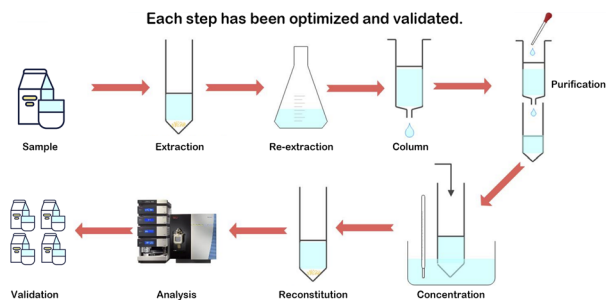
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### A poly(lactic acid)–carbon nanofiber-based electro-conductive sensing material and paper-based colorimetric sensor for detection of nitrates

Pawankumar Rai, Srishti Mehrotra, Krishna Gautam, Rahul Verma, Sadasivam Anbumani, Satyakam Patnaik, Smriti Priya and Sandeep K. Sharma\*

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### Solid phase extraction technology combined with UPLC-MS/MS: a method for detecting 20 $\beta$ -lactamase antibiotics traces in goat's milk

Xiwen He, Ming Li, Qi Yu, Wuyan Liu, Shufang Sun, Xiang Li, Zhaohua Wang, Xiaohuan Yan and Songli Li\*

