

# Sensors & Diagnostics

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## IN THIS ISSUE

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**Cover**  
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pp. 1234–1246.  
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**Inside cover**  
See Denis Svehkarev *et al.*,  
pp. 1253–1262.  
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*Sens. Diagn.*, 2024, 3, 1253.

## PERSPECTIVE

1234

### A holistic pathway to biosensor translation

Laena D'Alton, Dênio Emanuel Pires Souto,  
Chamindie Punyadeera, Brian Abbey,  
Nicolas H. Voelcker, Conor Hogan and Saimon M. Silva\*

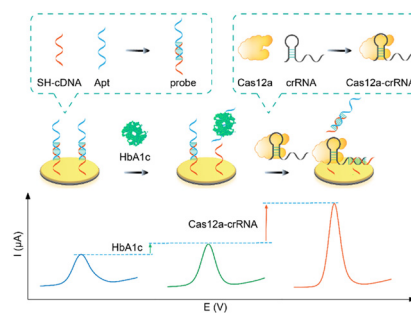


## COMMUNICATION

1247

### A CRISPR-amplified label-free electrochemical aptasensor for the sensitive detection of HbA1c

Jianfeng Ma, Youwei Zheng, Yaoyao Xie, Dan Zhu,  
Lianhui Wang\* and Shao Su\*



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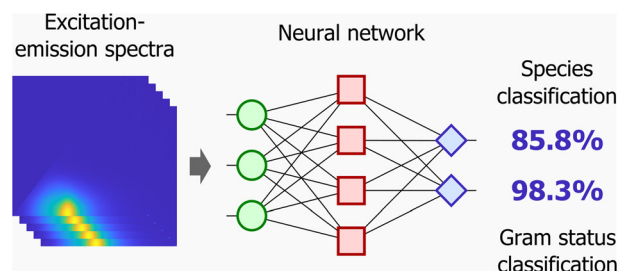
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1253

### Fast and accurate identification of pathogenic bacteria using excitation–emission spectroscopy and machine learning

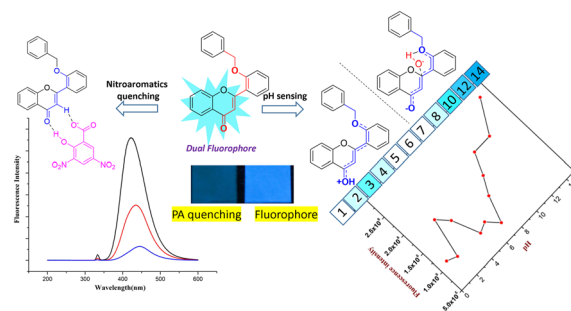
Jacob Henry, Jennifer L. Endres, Marat R. Sadykov, Kenneth W. Bayles and Denis Svechkarev\*



1263

### Synthesis and fluorescence properties of 2'-benzyloxy flavone—a dual probe for selective detection of picric acid and pH sensing

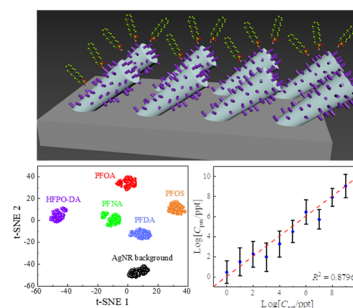
Vengatesh Gopal, Jayasankar Sudhakaran, Nirenjana Ramachandran, Thejus Kozhivattu Mana, Aravind Remesh Kana, Anandhu Omanakuttan Nair, Priyanka Mohan, Tejaswini Madhusudhan, Sankarasekaran Shanmugaraju\* and Pandurangan Nanjan\*



1272

### Ultra-sensitive detection of PFASs using surface enhanced Raman scattering and machine learning: a promising approach for environmental analysis

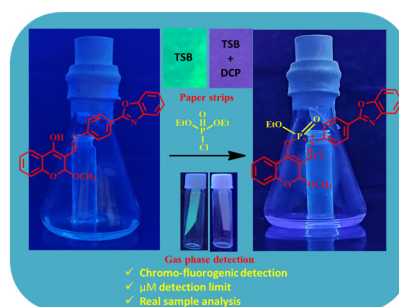
Joshua C. Rothstein, Jiaheng Cui,\* Yanjun Yang, Xianyan Chen and Yiping Zhao\*



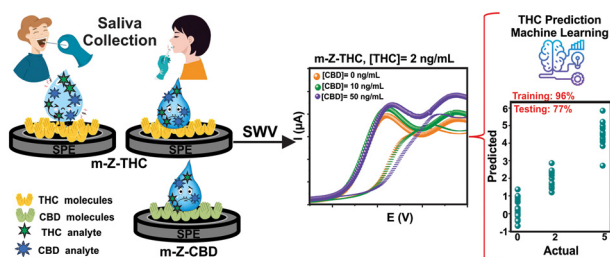
1285

### A highly selective chromo-fluorogenic probe for specific detection of sarin gas simulants diethylchlorophosphate in liquid and vapor phases

Tuhina Sultana, Manas Mahato, Sabbir Ahamed, Najmin Tohora, Jyoti Chourasia, Shreya Ali and Sudhir Kumar Das\*



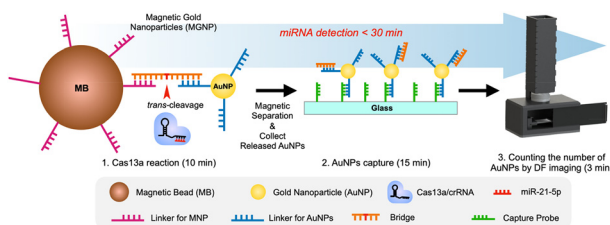
1298



### Ultra-low dual detection of tetrahydrocannabinol and cannabidiol in saliva based on electrochemical sensing and machine learning: overcoming cross-interferences and saliva-to-saliva variations

Greter A. Ortega, Herlys Viltres, Hoda Mozaffari, Syed Rahin Ahmed, Seshasai Srinivasan\* and Amin Reza Rajabzadeh\*

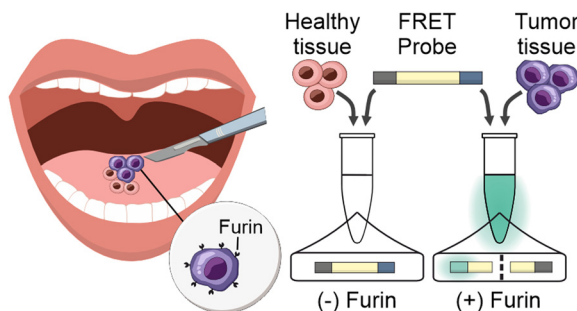
1310



### CRISPR/Cas13a-assisted amplification-free miRNA biosensor via dark-field imaging and magnetic gold nanoparticles

Jae-Jun Kim, Jae-Sang Hong, Hyunho Kim, Moonhyun Choi, Ursula Winter, Hakho Lee and Hyungsoon Im\*

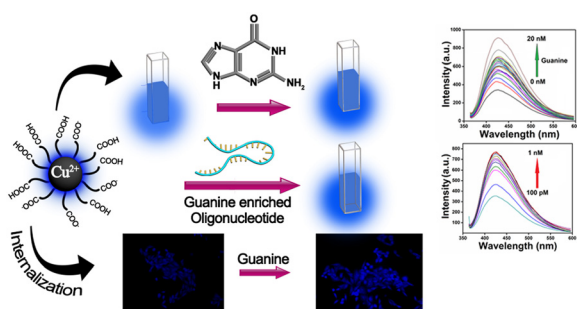
1319



### Visually distinguishing between tumor tissue and healthy tissue within ten minutes using proteolytic probes

Debora Reinhardt, Björn ter Mors, Marc D. Driessen, Marcus Gutmann, Julian Faber, Lukas Haug, Anna-Maria Faber, Anna Herrmann, Prisca Hamm, Tessa Lühmann, Christian Linz\* and Lorenz Meinel\*

1329



### Cu<sup>2+</sup>-integrated carbon dots as an efficient bioprobe for the selective sensing of guanine nucleobase

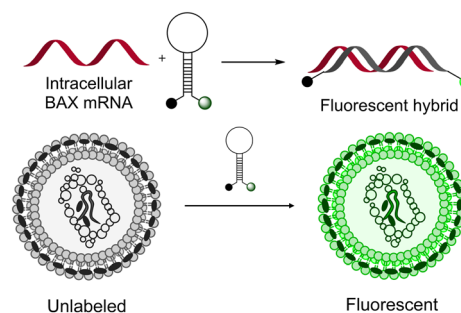
Monalisa Chowdhury, Debolina Basu and Prasanta Kumar Das\*



1344

### Microfluidic measurement of intracellular mRNA with a molecular beacon probe towards point-of-care radiation triage

Xin Meng, Kechun Wen, Jingyang Zhao, Yaru Han, Shanaz A. Gandhi, Salan P. Kaur, David J. Brenner, Helen C. Turner, Sally A. Amundson\* and Qiao Lin\*



1353

### DNA walker coupled with nicking endonuclease for sensitive electrochemical detection of saxitoxin

Yiwei Liu, Shumin Feng, Ruoxi Zhong, Yuanchang Peng, Guoyuan Mu, Jiayi Bai, Wei Chen\* and Zhan Qu\*

