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### Cover

See Haitang Yang,  
Chongzhao Wu et al.,  
pp. 3800–3811.

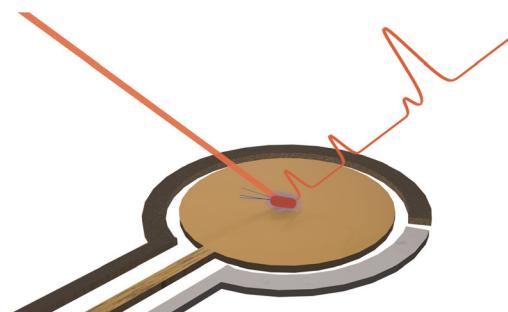
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Analyst, 2025, **150**, 3800.

## MINIREVIEW

3762

### Bacterial detection with electrochemical, SERS, and electrochemical SERS sensors

Kyriaki Karagianni, Tina Leontidou, Marios Constantinou  
and Chrysafis Andreou\*

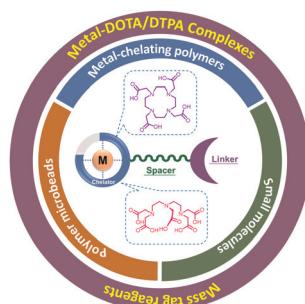


## TUTORIAL REVIEW

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### Advances in metal-DOTA/DTPA complexes for mass cytometry

Yin-Feng Wang,\* Wenyi Wu and Guojun Han





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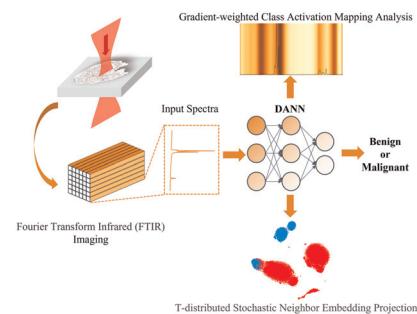
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## PAPERS

3800

**Label-free diagnosis of lung cancer by Fourier transform infrared microspectroscopy coupled with domain adversarial learning**

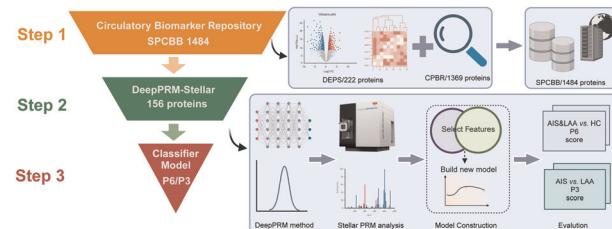
Yudong Tian, Xiangyu Zhao, Jingzhu Shao, Bingsen Xue, Lianting Huang, Yani Kang, Hanyue Li, Gang Liu, Haitang Yang\* and Chongzhao Wu\*



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**High-throughput DeepPRM-Stellar proteomics coupled with machine learning enables precise quantification of atherosclerosis-stroke progression biomarkers and risk prediction**

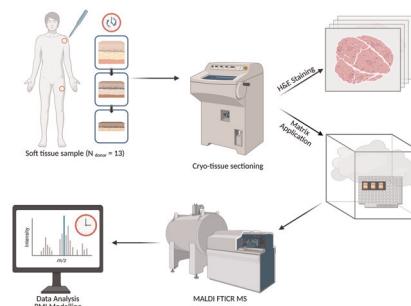
Ye Liu, Ouyang Hu, Zhenxin Wang, Jingyi Wang, Yijie Qiu, Jin Xiao, Xin Cheng, Pengyuan Yang, Ningshao Xia, Yueting Xiong\* and Quan Yuan\*



3825

**A holistic approach to understanding biochemical degradation of human tissues using high resolution MALDI MS**

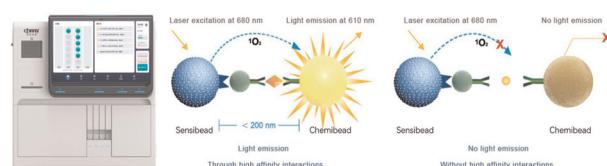
Jerika Ho, Naomi L. Stock, Vaughn Mangal, Shari L. Forbes and Theresa E. Stotesbury\*



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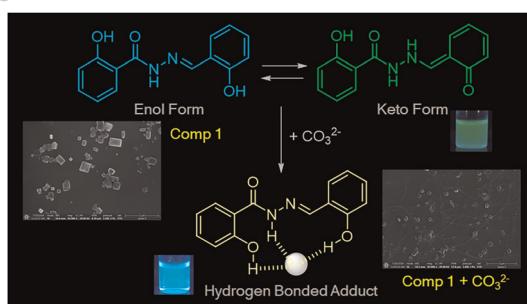
**Development of a light-initiated chemiluminescence system for the detection of human plasma p-tau<sub>181</sub>**

Yang Yang and Xu Wang\*



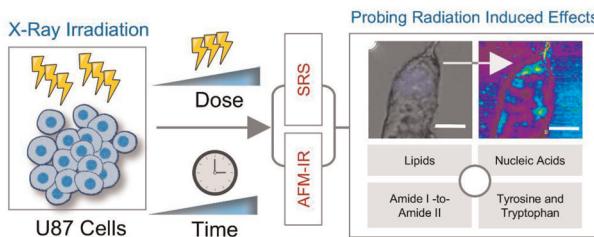
## PAPERS

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**ESIPT-active fluorescent probes for ratiometric analysis of carbonate ions in aqueous media: structural modifications for enhanced selectivity and response**

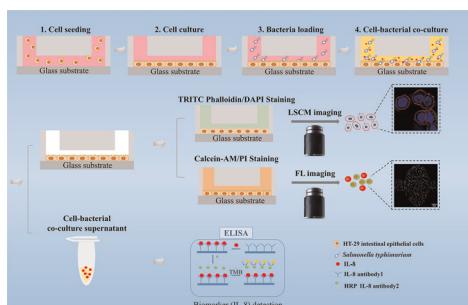
M. Gayathri, Sourav Mondal, D. Sriram and Nilanjan Dey\*

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**X-ray induced modifications in U87 glioma cells probed by Raman- and infrared-based spectromicroscopy**

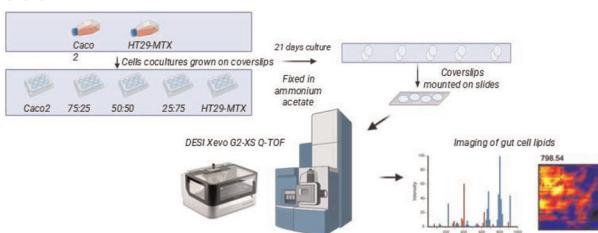
T. Senapati, M. R. Bittermann, R. Nadar, A. van der Meer, B. Kästner, A. G. Denkova and E. Rühl\*

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**Secretion analysis during the invasion process of *Salmonella typhimurium* into HT-29 intestinal epithelial cells on a microfluidic chip**

Hong He, Haolan Tan, Chuang Ge and Yi Xu\*

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**Mass spectrometry imaging of lipids in a gut epithelial cell model**

Qianying Xu, Hadeer Mattar, Emmanuelle Claude, Lee Gethings and E. N. Clare Mills\*

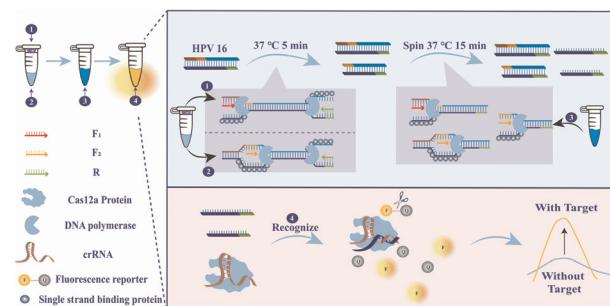


## PAPERS

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**PAM-free activation of CRISPR/Cas12a via semi-nested asymmetric RPA: highly specific detection of HPV16 dsDNA**

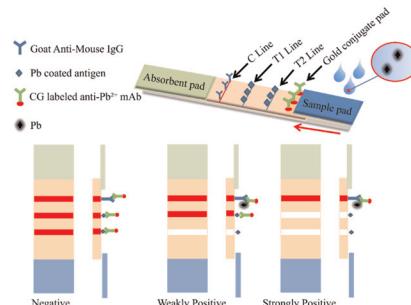
Xiaozhi Zou, Tao Gu, Xuheng Li, Liyuan Deng, Shuyu Zhu, Jiangbo Dong, Fei Deng, Changjun Hou\* and Danqun Huo\*



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**A colloidal gold immunochromatographic assay for on-site lead detection in vegetable oil**

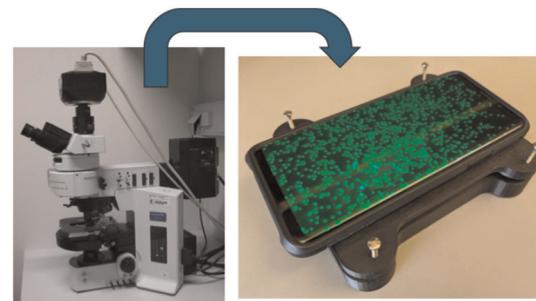
Jiaxun Li, Liuping Zhang, Guoping Qian, Aihong Wu, Liqiang Liu, Lingling Guo,\* Lili Cheng, Chuanlai Xu and Hua Kuang\*



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**HIST-DIP: histogram thresholding and deep image priors assisted smartphone-based fluorescence microscopy imaging**

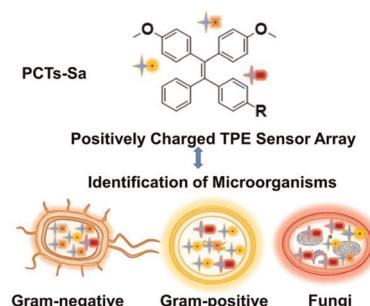
Harshitha Govindaraju, Muhammad Nabeel Tahir and Umer Hassan\*



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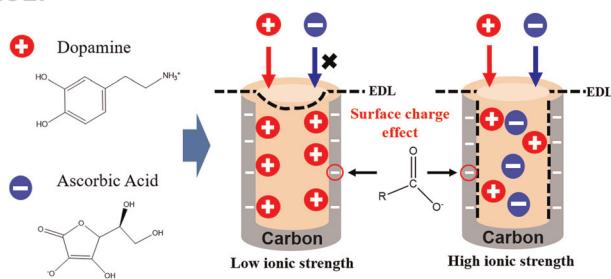
**A positively charged sensor array for identification of microorganisms using fluorescence response patterns**

Yufan Ma, Guoyang Zhang, Xuefei Wang,\* Sio-Long Lo\* and Zhuo Wang\*



## PAPERS

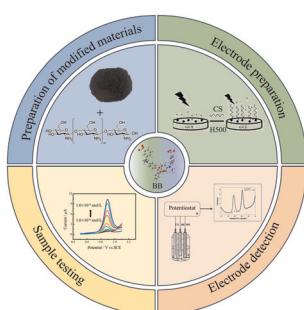
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### Electrochemical detection of dopamine using negatively charged ordered mesoporous carbon (CMK-3)

Junhee Yu, Hyo Chan Lee, Hyun Ju Yang, Sunyeong Hong and Je Hyun Bae\*

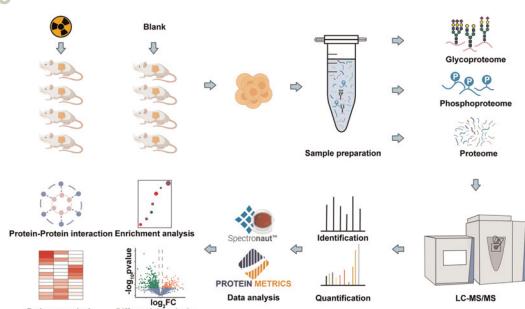
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### High-sensitivity detection of brilliant blue by disposable chitosan–biochar electrochemical sensors

Junbin Cao, Chengcheng Xu, Jianwei Zhao\* and Wenmei Tao\*

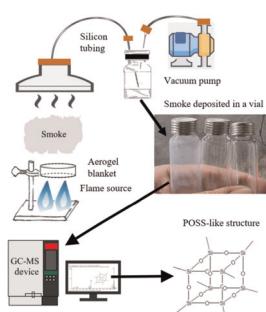
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### Deciphering radiopharmaceutical mechanisms through integrated proteomic and PTM-proteomic profiling

Xuefang Dong, Xinlian Ding, Lingyan Yuan, Yun Cui, Zhitong Bing, Long Yu, Lei Yang,\* Xiuling Li\* and Ximiao Liang

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### Identification of permethylloctasilsesquioxane by a novel method: collecting smoke formed by chemical changes in a methylsilsesquioxane blanket at 2000–2500 °C using gas chromatography-mass spectrometry

Abdullah Tav, Yahya Öz\* and Halil İbrahim Akyıldız



## PAPERS

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**Use of Raman spectroscopy for the label-free discrimination of CHO cells associated with antibody expression**

Yusui Sato, Yukako Senga, Hiroshi Tateno\* and Shinya Honda\*

