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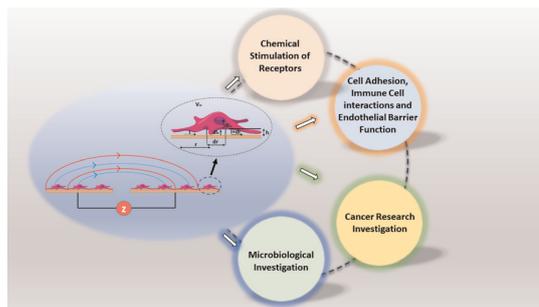
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A review of electrochemical impedance as a tool for examining cell biology and subcellular mechanisms: merits, limits, and future prospects

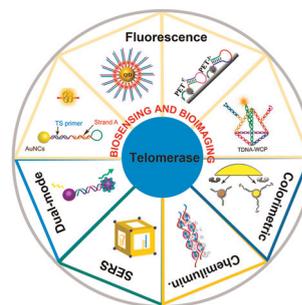
Seyedyousef Arman, Richard D. Tilley and J. Justin Gooding*



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Recent advances in optical biosensing and imaging of telomerase activity and relevant signal amplification strategies

Ruining Yang, Junbo Hu, Longsheng Zhang, Xingfen Liu,* Yanqin Huang, Lei Zhang and Quli Fan



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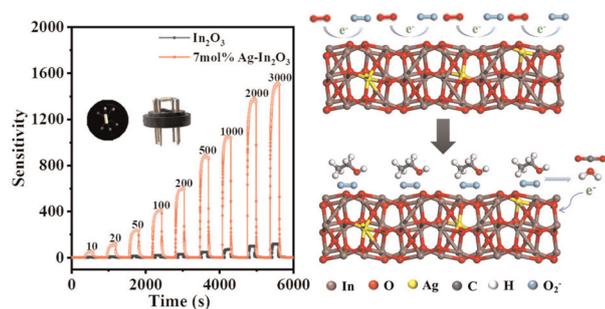
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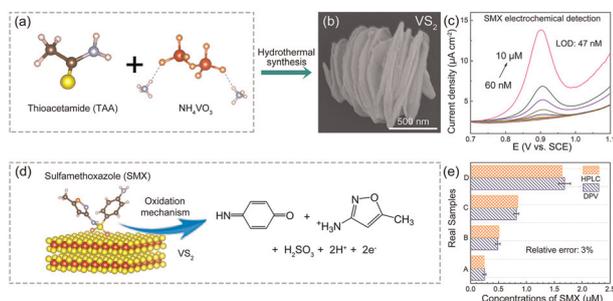
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Facile synthesis of Ag lattice doped mesoporous In_2O_3 nanocubes for high performance ethanol sensing

Xinyu Liu, Cuiping Jia,* Xin liu, Jiabing Luo, Yan Zhou, Wenle Li, Shutao Wang and Jun Zhang*

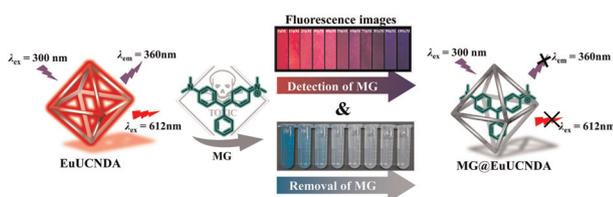
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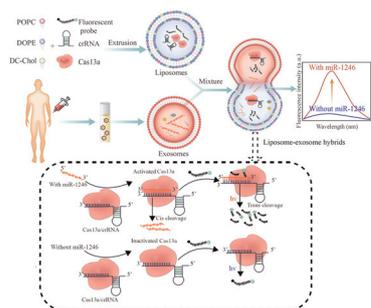
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A recyclable Eu^{3+} -functionalized dual-emissive metal-organic framework for portable, rapid detection and efficient removal of malachite green

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Liposome-exosome hybrids for *in situ* detection of exosomal miR-1246 in breast cancer

Xuting Zhou, Wenting Tang, Yan Zhang, Aidong Deng, Yuehua Guo* and Li Qian*

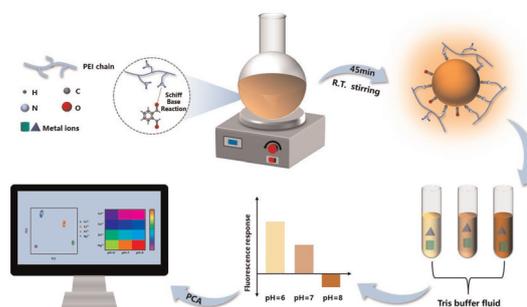


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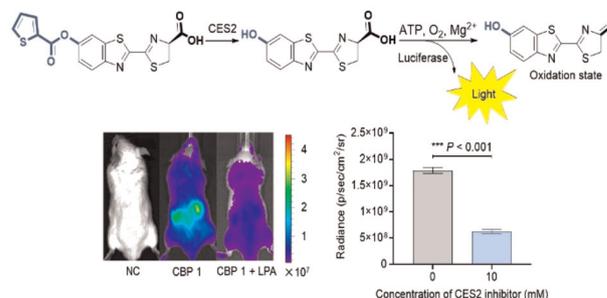
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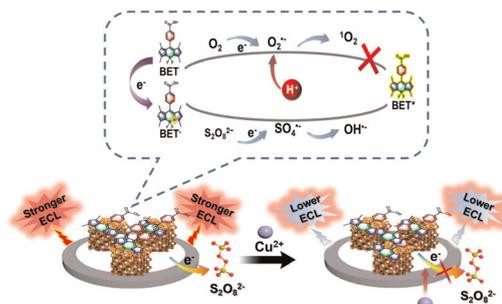
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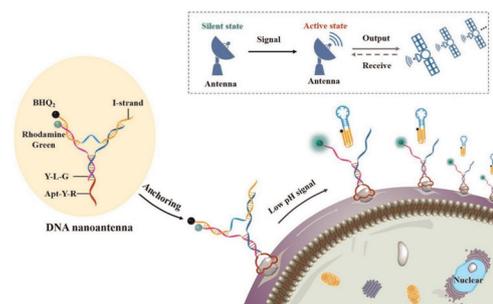
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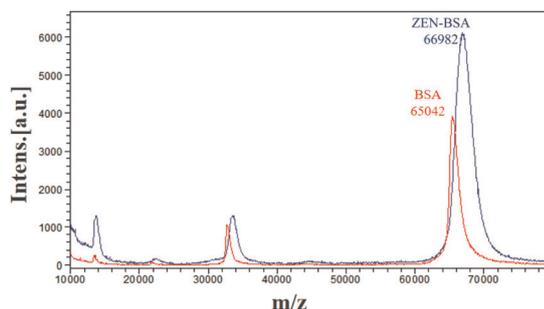
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A hairpin-contained i-motif guided DNA nanoantenna for sensitive and specific sensing of tumor extracellular pH gradients

Wenjie Ma, Yuchen Wu, Jinyan Li, Mei Yang, He Zhang, Chang Liu and Xiaoxiao He*



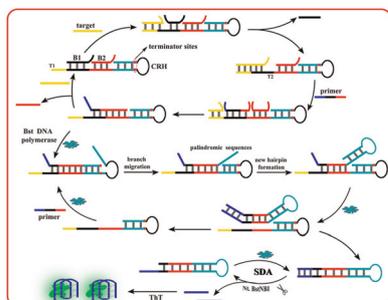
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A sensitive monoclonal antibody-based ELISA integrated with immunoaffinity column extraction for the detection of zearalenone in food and feed samples

Ting Wang, Ting Zhou, Kang Wu,* Junlin Cao, Yuze Feng, Jianguo Li* and Anping Deng*

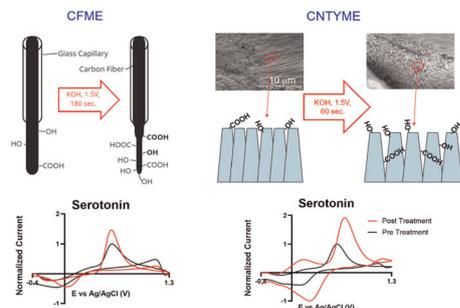
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Target-initiated triplex signal amplification cascades for non-label and sensitive fluorescence sensing of microRNA

Lei Liao, Tingting Gong, Bingying Jiang,* Ruo Yuan and Yun Xiang*

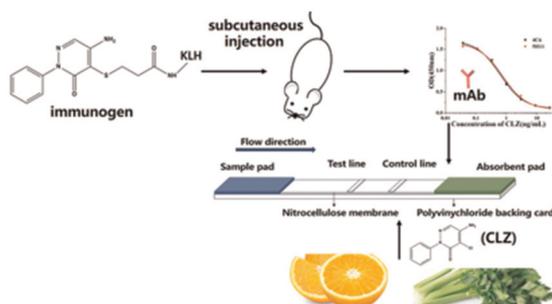
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Samuel M. Hanser, Zijun Shao, He Zhao and B. Jill Venton*

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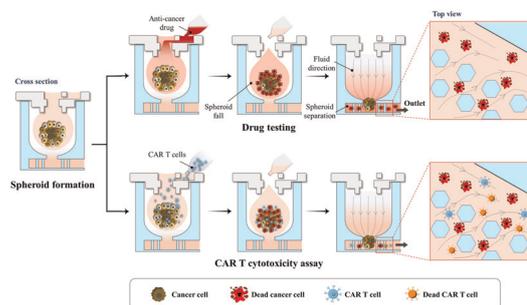
Qing Zhang, Aihong Wu, Jinyan Li, Liqiang Liu, Hua Kuang, Chuanlai Xu and Lingling Guo*



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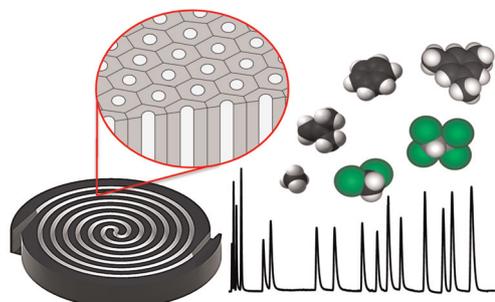
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A stamped aluminium gas chromatographic column disk employing directly grown anodic aluminium oxide stationary phase for the separation of aromatic and chlorinated compounds

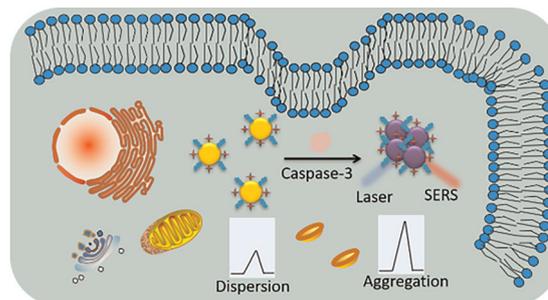
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Highly sensitive and selective SERS detection of caspase-3 during cell apoptosis based on the target-induced hotspot effect

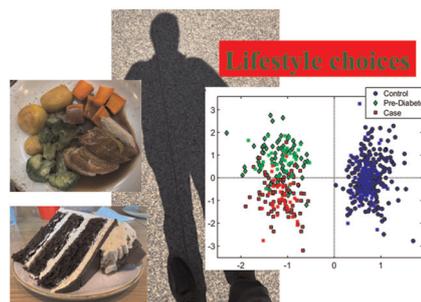
Yueyuan Zhuang, Han Dong, Tianqing Liu, Yongmei Zhao, Yan Xu, Xiaojuan Zhao* and Dan Sun*



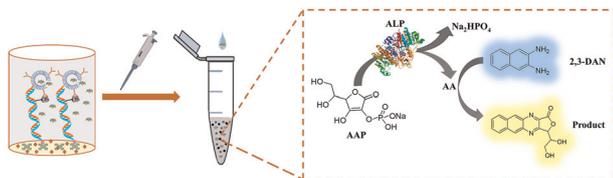
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Serum-based ATR-FTIR spectroscopy combined with multivariate analysis for the diagnosis of pre-diabetes and diabetes

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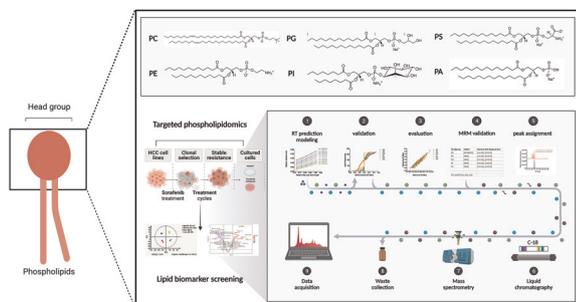
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A ratiometric fluorescence assay for the detection of DNA methylation based on an alkaline phosphatase triggered *in situ* fluorogenic reaction

Hongding Zhang,* Yinhui Su, Jiamiao Zhao, Huixi Song and Xiaohong Zhou

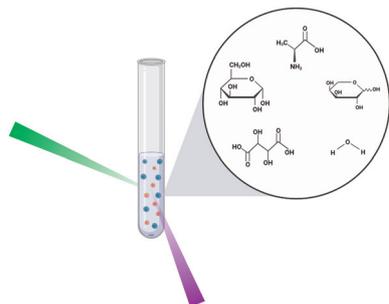
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Retention time prediction and MRM validation reinforce the biomarker identification of LC-MS based phospholipidomics

Jiangang Zhang, Yu Zhou, Juan Lei, Xudong Liu, Nan Zhang, Lei Wu and Yongsheng Li*

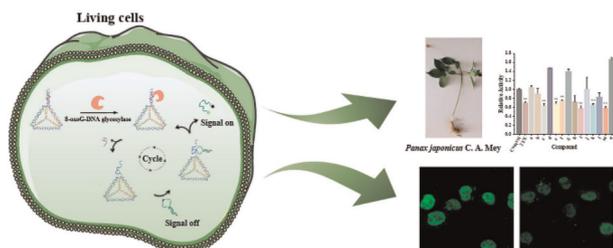
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Hyper-Raman spectroscopy of biomolecules

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Repair-driven DNA tetrahedral nanomachine combined with DNAzyme for 8-oxo guanine DNA glycosylase activity assay, drug screening and intracellular imaging

Yun Qiu, Bin Liu, Wenchao Zhou, Xueqing Tao, Yang Liu, Linxi Mao, Huizhen Wang, Hanwen Yuan, Yupei Yang, Bin Li, Wei Wang* and Yixing Qiu*

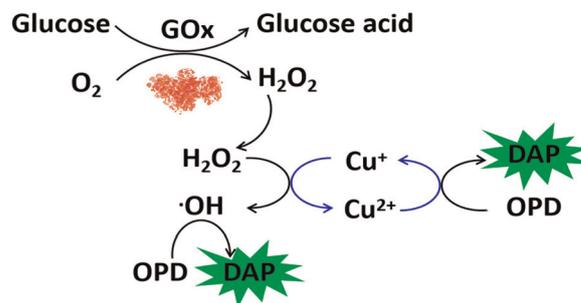


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Fenton-like reaction triggered chemical redox-cycling signal amplification for ultrasensitive fluorometric detection of H₂O₂ and glucose

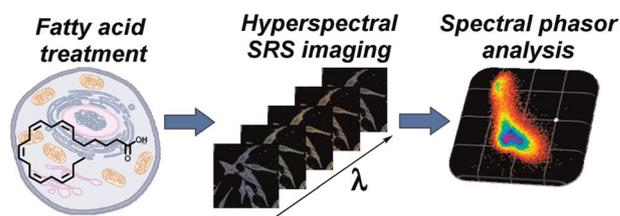
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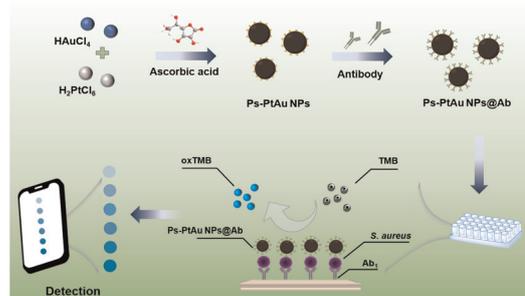
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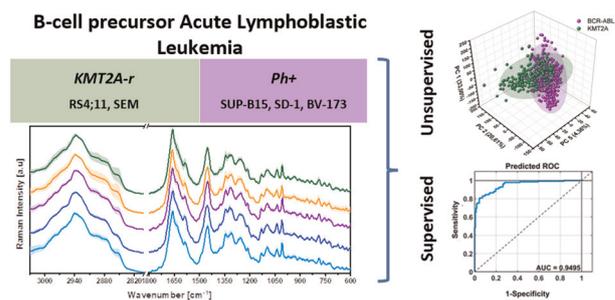
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Nathan Kodjo Mintah Churcher, Vikram Narayanan Dhamu and Shalini Prasad*

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Correction: A poly(thymine)-templated fluorescent copper nanoparticle hydrogel-based visual and portable strategy for an organophosphorus pesticide assay

Jihua Chen, Ting Han, Xiuyun Feng, Baojuan Wang and Guangfeng Wang*

