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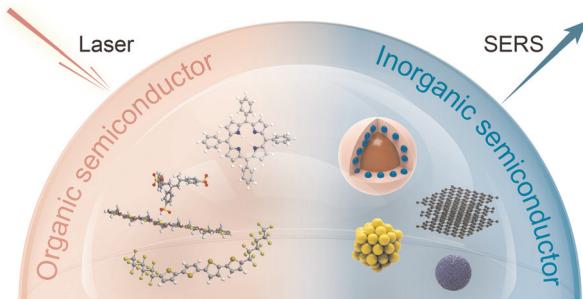
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### Noble metal-free SERS: mechanisms and applications

Sila Jin, Dixin Zhang, Bo Yang,\* Shuang Guo, Lei Chen and Young Mee Jung\*

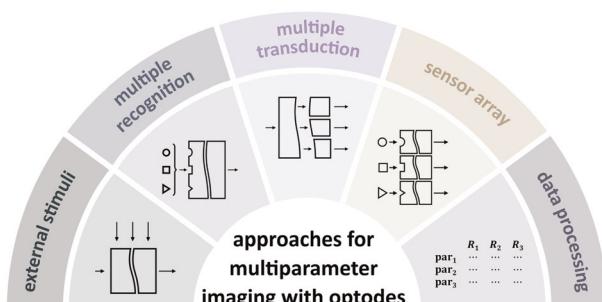


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Andrey V. Kalinichev, Silvia E. Zieger and Klaus Koren\*



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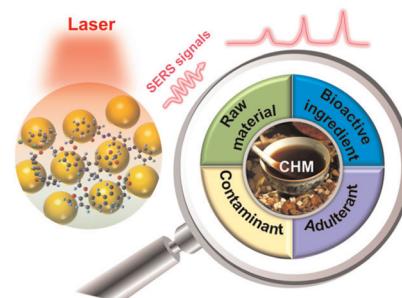


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## Surface-enhanced Raman spectroscopy as a powerful method for the analysis of Chinese herbal medicines

Cai-Xia Xu, Pei Song,\* Zhou Yu and Ya-Hao Wang\*

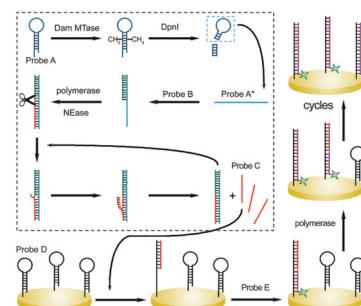


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## Ultrasensitive electrochemical detection and inhibition evaluation of DNA methyltransferase based on cascade strand displacement amplification

Ruizhi Liu, Yuge Wang, Hua Chai and Peng Miao\*

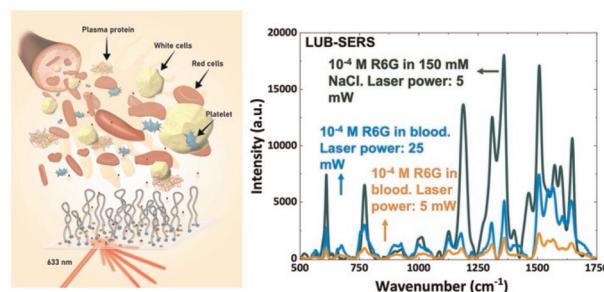


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## Lubricin (PRG-4) anti-fouling coating for surface-enhanced Raman spectroscopy biosensing: towards a hierarchical separation system for analysis of biofluids

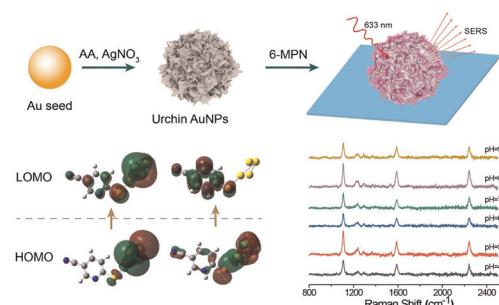
Mingyu Han,\* Saimon M. Silva, Matthew J. Russo, Pauline E. Desroches, Weiwei Lei, Anita F. Quigley, Robert M. I. Kapsa, Simon E. Moulton, Paul R. Stoddart\* and George W. Greene\*



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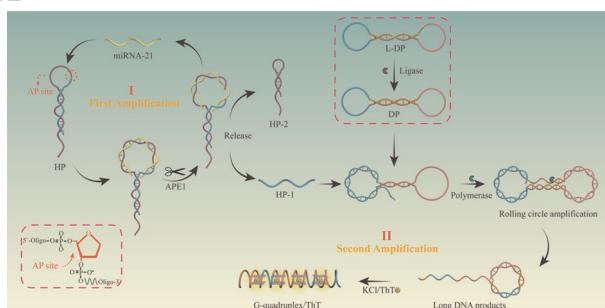
## Design and performance of pH-responsive cyano-Raman label SERS probes based on single urchin Au nanoparticles

Yang Zhou, Zejie Yu, Qirong Zhou, Jiachang Chen, Miaomiao Cai, Yi Wang\* and Lei Zhang\*



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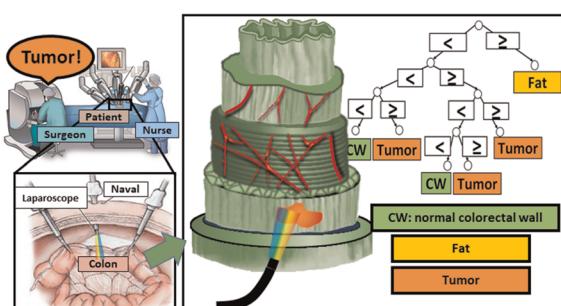
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**A cascade signal-amplified fluorescent biosensor combining APE1 enzyme cleavage-assisted target cycling with rolling circle amplification**

Zirui Liu, Hongqun Yang, Beibei Zhang, Xinhao Li, Hong Wang\* and Yingwei Zhang\*

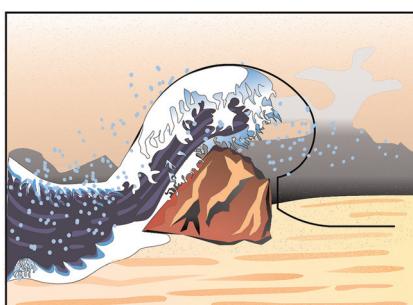
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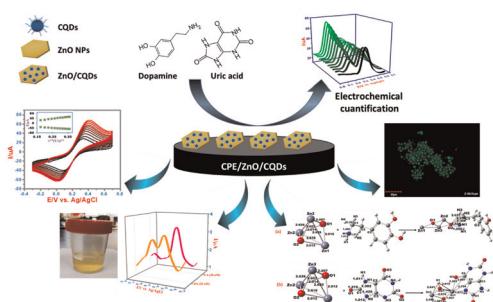
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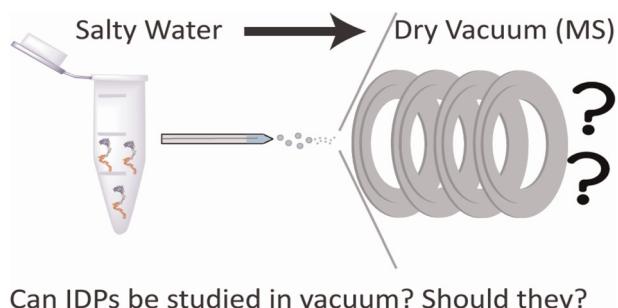


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**The role of solvation on the conformational landscape of  $\alpha$ -synuclein**

Melanie Cheung See Kit, Tyler C. Cropley, Christian Bleiholder, Christopher D. Chouinard, Frank Sobott and Ian K. Webb\*

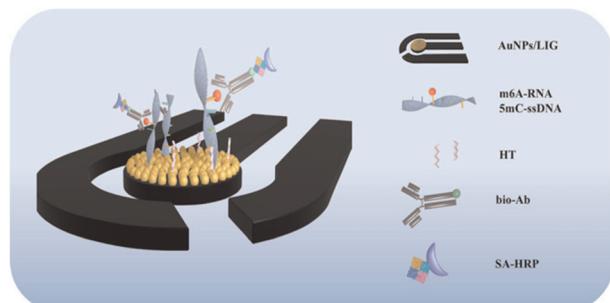


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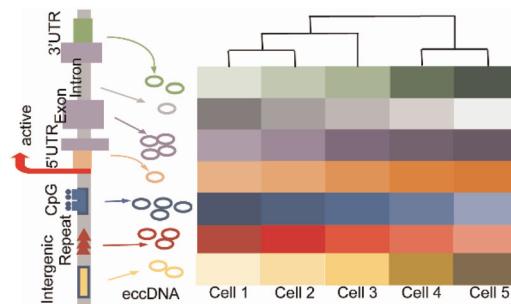
Jingyi Guo, Mei Zhao, Chen Chen, Fang Wang\* and Zilin Chen



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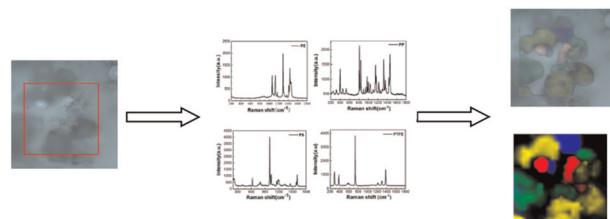
Wenxiang Lu, Fuyu Li, Yunfei Ouyang, Yali Jiang, Weizhong Zhang\* and Yunfei Bai\*



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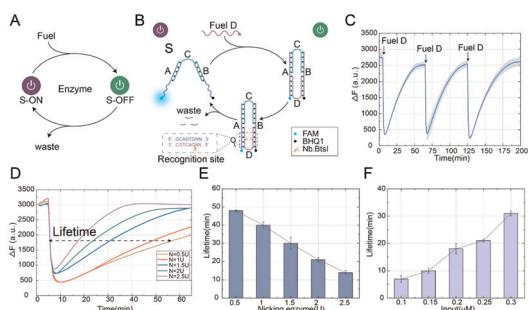
**Visual detection of microplastics using Raman spectroscopic imaging**

Kaili Liu, Xu Pang, Huacai Chen\* and Li Jiang



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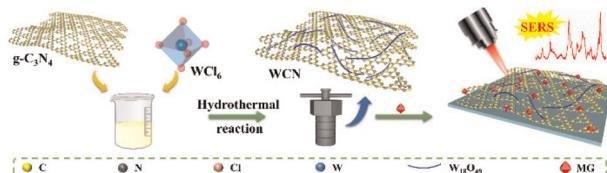
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### A nicking enzyme-assisted allosteric strategy for self-resetting DNA switching circuits

Haoliang Wang, Xiaokang Zhang, Yuan Liu and Shihua Zhou\*

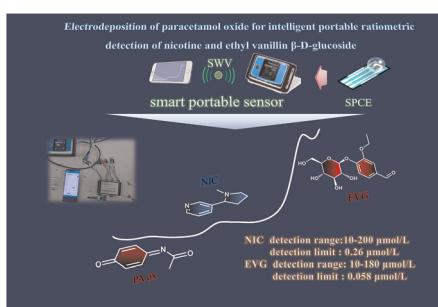
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### Enhancing charge transfer in a $W_{18}O_{49}/g\text{-}C_3N_4$ heterostructure via band structure engineering for effective SERS detection and flexible substrate applications

Lu Tan, Shuzhen Yue, Yongbing Lou\* and Jun-Jie Zhu\*

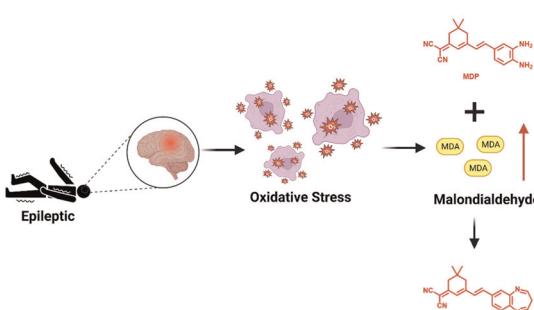
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### Fluorescence probe for real-time malonaldehyde detection in epilepsy model

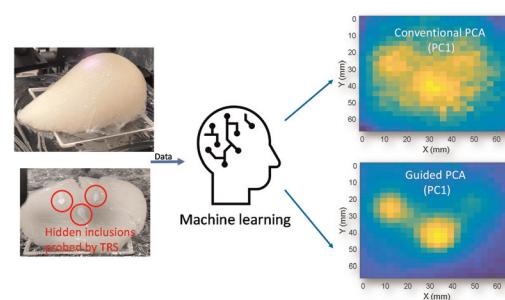
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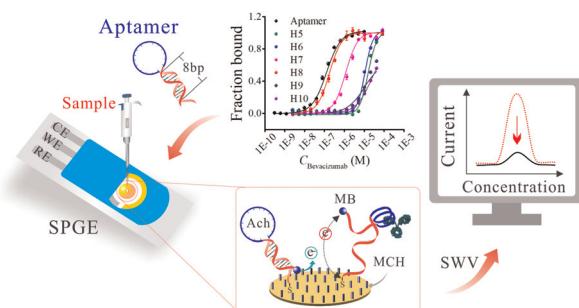
Benjamin Gardner, Jennifer Haskell, Pavel Matousek\* and Nicholas Stone\*



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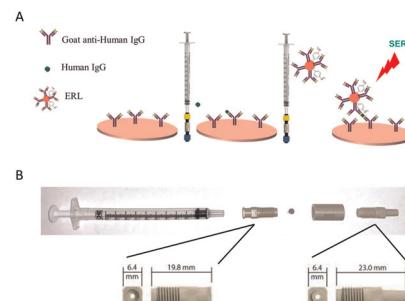
Shengfeng Huang, Mengyun Zhang, Feng Chen, Huihui Wu, Minyi Li, Jacques Crommen, Qiqin Wang\* and Zhengjin Jiang\*



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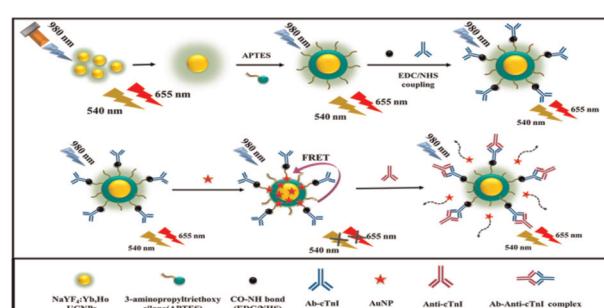
Eunice Ebbah, Anthony Amissah, Jun-Hyun Kim\* and Jeremy D. Driskell\*



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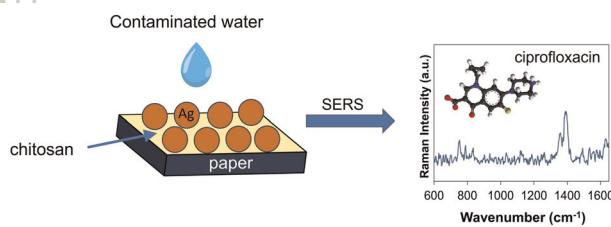
**NaYF<sub>4</sub>:Yb/Ho upconversion nanoprobe incorporated gold nanoparticle (AuNP) based FRET immunosensor for the "turn-on" detection of cardiac troponin I**

Merin K. Abraham, Anju S. Madanan, Susan Varghese, Ali Ibrahim Shkhair, Geneva Indongo, Greeshma Rajeevan, N. S. Vijila and Sony George\*



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Natércia C. T. Martins,\* Sara Fateixa, Helena I. S. Nogueira and Tito Trindade

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Jongyun Kim, Arunkumar Shanmugasundaram, Dong-Su Kim, Yun-Jin Jeong, Pooja P. Kanade, Eung-Sam Kim, Bong-Kee Lee and Dong-Weon Lee\*

