

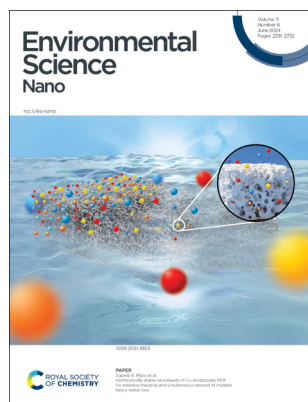
# Environmental Science Nano

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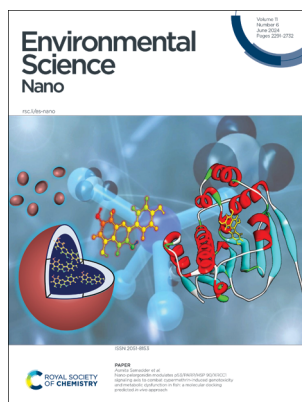
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## IN THIS ISSUE

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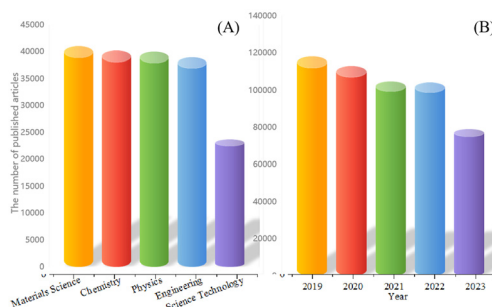
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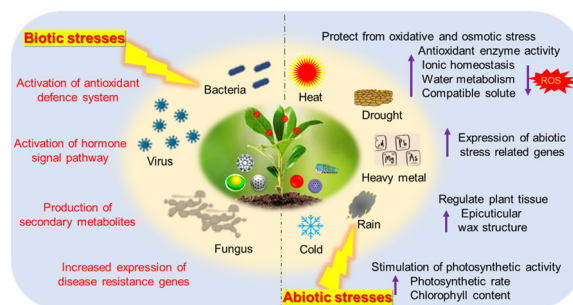


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Ragini Singh,\* Pinky Choudhary, Santosh Kumar and Hemant Kumar Daima\*



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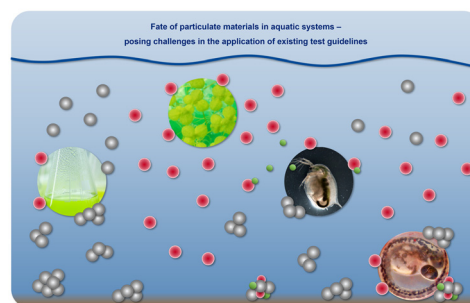


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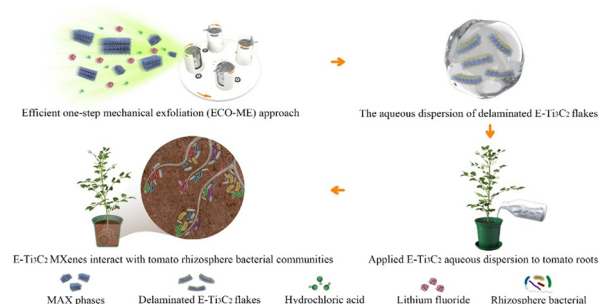


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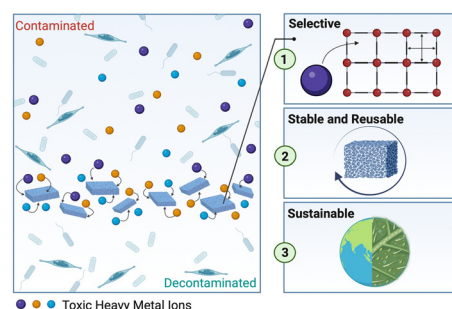


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**Hydrolytically stable nanosheets of Cu-imidazolate MOF for selective trapping and simultaneous removal of multiple heavy metal ions**

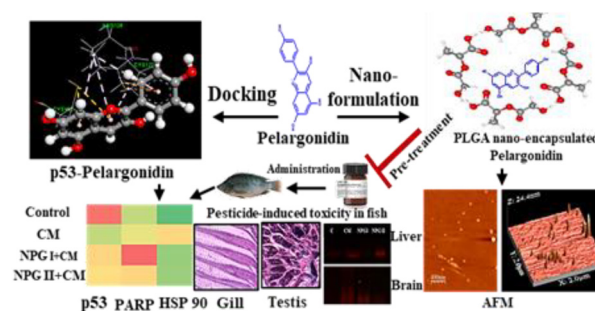
Prathmesh Bhadane, Priya Mahato, Dhruv Menon, Biraj Kanta Satpathy, Lisi Wu, Swaroop Chakraborty, Prateek Goyal, Iseult Lynch and Superb K. Misra\*



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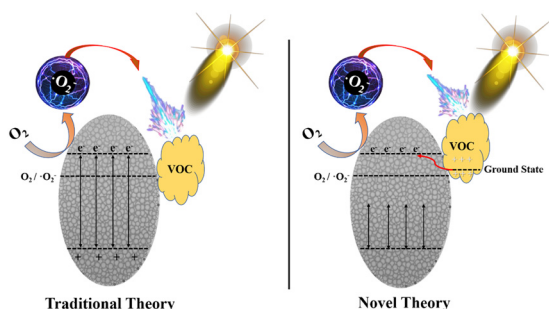
**Nano-pelargonidin modulates p53/PARP/HSP 90/XRCC1 signaling axis to combat cypermethrin-induced genotoxicity and metabolic dysfunction in fish: a molecular docking predicted *in vivo* approach**

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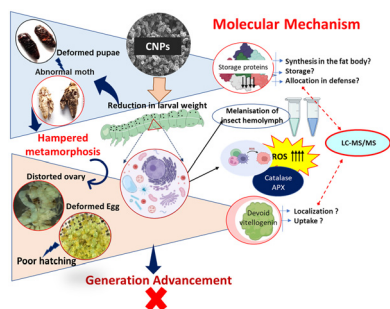
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### A new mechanism for visible light photocatalysis: generation of intraband by adsorbed organic compounds with wide-bandgap semiconductors

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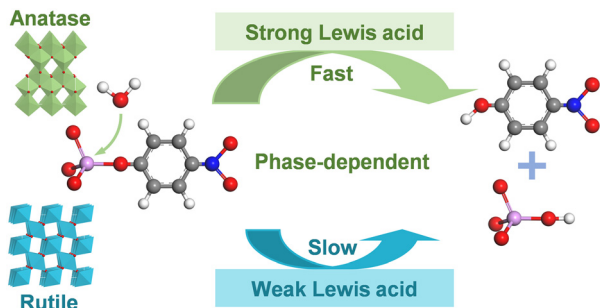
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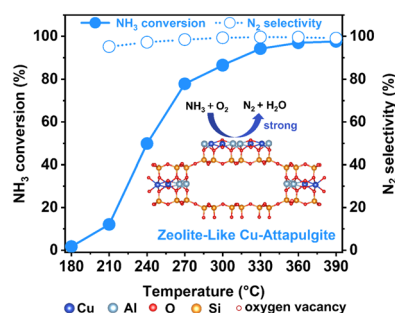
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Tong Li, Yiting Ju, Tingting Du, Chuanjia Jiang,\* Tong Zhang\* and Wei Chen\*

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### Zeolite-like ion-exchanged Cu-attapulgite catalysts for promoted selective oxidation of ammonia

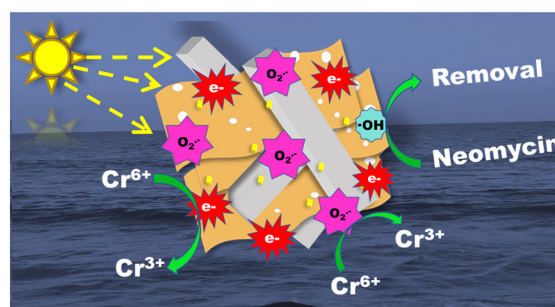
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### Facile fabrication of a Z-scheme g-C<sub>3</sub>N<sub>5</sub>/Gd-MOF/silver nanocube composite as a new generation visible light active photocatalyst for abatement of persistent toxic pollutants

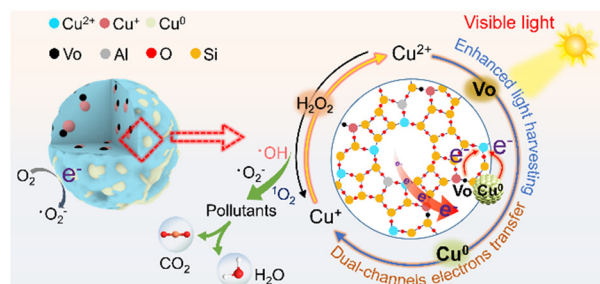
Varsha UshaVipinachandran and Susanta Kumar Bhunia\*



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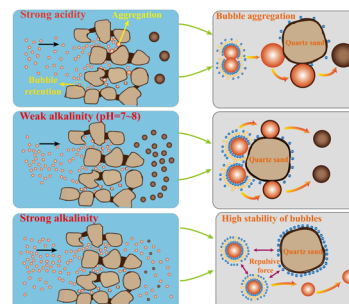
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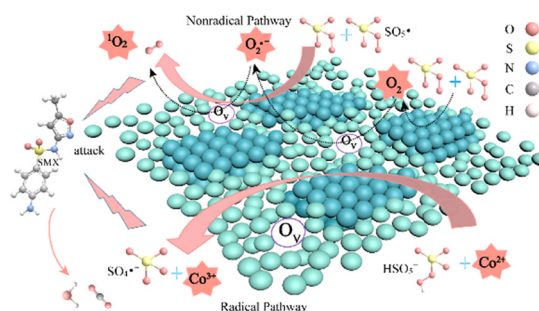
Chunjiang Liu, Minghui Xiang, Chen Yang, Yiran Chen, Zhongyuan Li, Wu Wang,\* Wei Yin, Hui Li and Yuan Huang\*



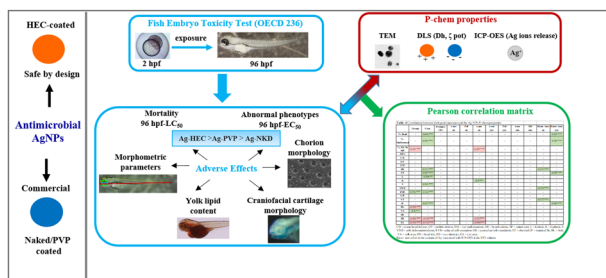
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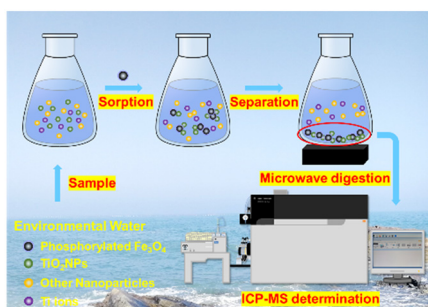
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## Functional silver-based nanomaterials affecting zebrafish development: the adverse outcomes in relation to the nanoparticle physical and chemical structure

Patrizia Bonfanti,\* Anita Colombo, Rossella Bengalli, Maurizio Gualtieri, Ilaria Zanoni, Magda Blosi, Anna Costa and Paride Mantecca\*

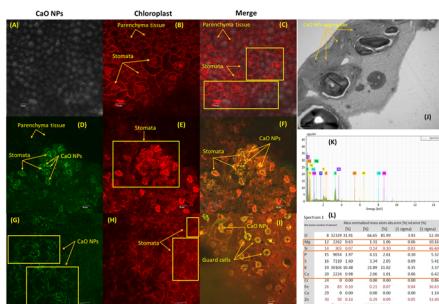
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## Highly selective capture and efficient concentration of trace titanium dioxide nanoparticles in environmental waters by phosphorylated ferroferric oxide

Ronggang Zheng, Sujuan Yu, Rui Yang, Peng Li, Qingcun Li, Li Li, Yuhang Chen, Yaqi Cai and Jingfu Liu\*

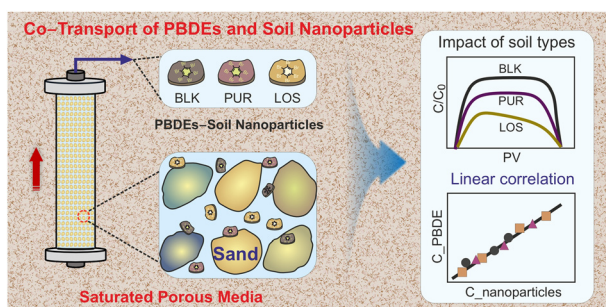
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## Unravelling mechanisms of CaO nanoparticle-induced drought tolerance in *Brassica napus*: an analysis of metabolite and nutrient profiling

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## Co-transport of polybromodiphenyl ethers and soil nanoparticles in saturated porous media: implications for the risks of polybromodiphenyl ether spreading in groundwater

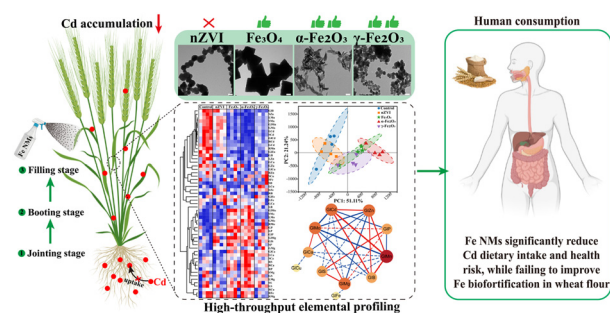
Jiameng Liu, Tianchi Cao,\* Lin Duan, Shengkai Xu, Min Li, Tong Zhang\* and Wei Chen\*



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## Foliar application of iron-based nanofertilizers to wheat grown in a Cd-contaminated field: implications for food safety and biofortification

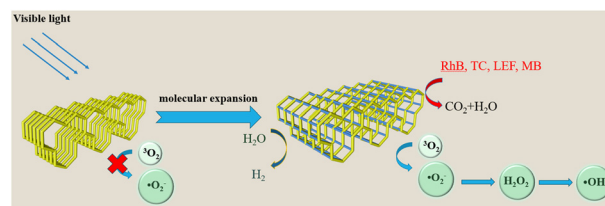
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## Constructing a novel super-crosslinked triazine COF through molecular expansion for enhanced photocatalytic performance under visible light

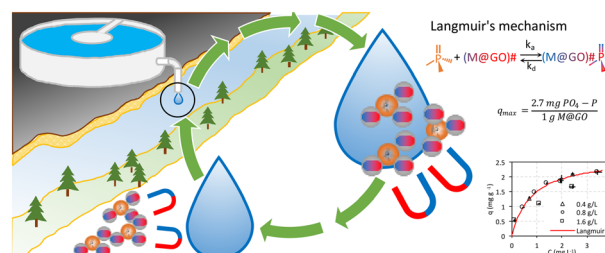
Yuxuan Shao, Dan You, Yuqi Wan,\* Zhiquan Pan and Qingrong Cheng\*



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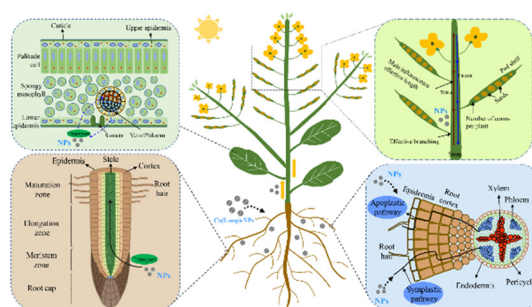
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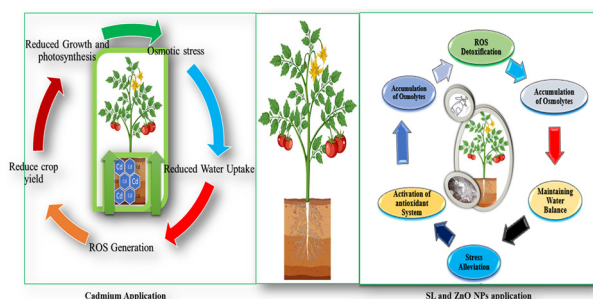
## Calcium L-aspartate nanoparticles modify the root ultrastructure and improve plant yield in *Brassica napus* L.

Kesong Lu, Jiayu Hou, Muhammad Riaz, Saba Babar, Ali M. Abd-Elkader, Zeinab El-Desouki and Cuncang Jiang\*





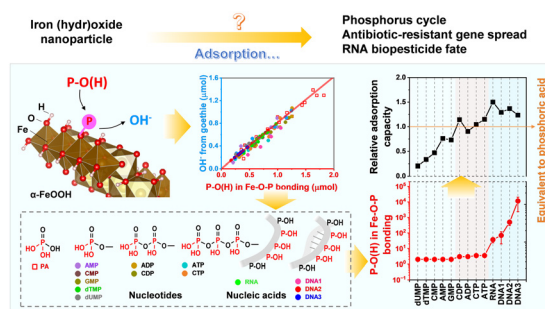
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### Alleviation of cadmium-induced oxidative damage through application of zinc oxide nanoparticles and strigolactones in *Solanum lycopersicum* L.

Vaseem Raja, Karanpal Singh, Sami Ullah Qadir, Jagpreet Singh\* and Ki-Hyun Kim\*

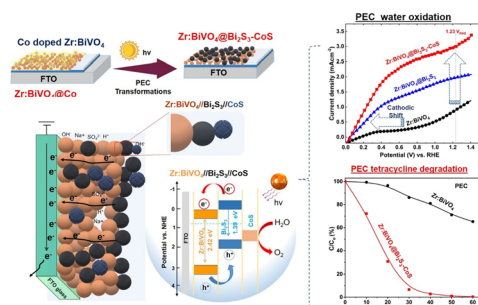
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### Adsorption of nucleotides and nucleic acids on goethite nanoparticles: mode, sites and relationship with phosphate and non-phosphate structures

Huajun Feng, Shanshan Ma, Zaiming Chen,\* Yungui Li, Meizhen Wang and Yangcheng Ding

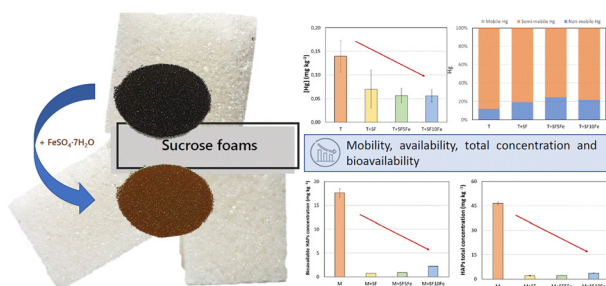
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### Cooperative catalytic behavior of CoS and Bi<sub>2</sub>S<sub>3</sub> nanoparticles on Zr:BiVO<sub>4</sub> photoanodes for enhanced photoelectrochemical sulfite oxidation coupled with pharmaceutical pollution degradation

Prabhakarn Arunachalam,\* Maged N. Shaddad, Mabrook S. Amer, Abdulaziz M. Alsalman and Jagannathan Madhavan

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### Bio-based carbon foams assembled with Fe nanoparticles for simultaneous remediation of As, Hg and PAHs in co-contaminated industrial soils

I. Janeiro-Tato, E. Rodríguez, M. A. Lopez-Anton,\* D. Baragaño, L. Arrojo, P. Parra-Benito, A. I. Peláez and J. R. Gallego

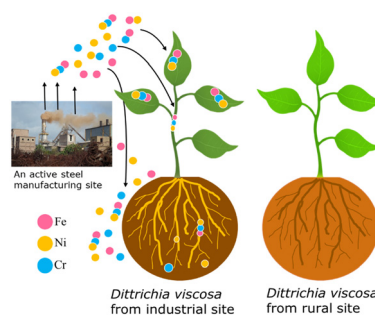




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### Assessing the internalization pathways of Cr–Fe–Ni nanoparticles in native *Dittrichia viscosa* naturally exposed to industrial atmospheric fallout

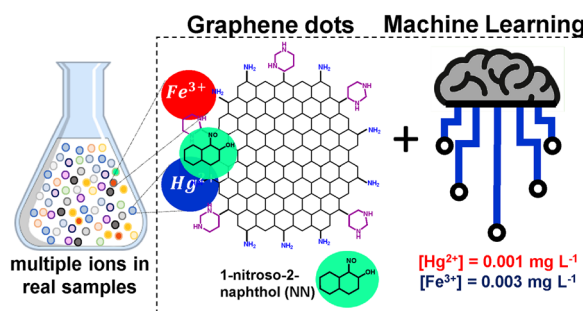
Bouchra Belhaj Abdallah, Irene Andreu, Viridiana Perez and Byron D. Gates\*



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### Fluorescent graphene quantum dots-enhanced machine learning for the accurate detection and quantification of $\text{Hg}^{2+}$ and $\text{Fe}^{3+}$ in real water samples

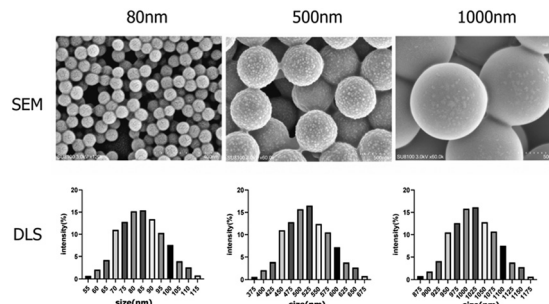
Mauricio Llaver,\* Santiago D. Barrionuevo, Jorge M. Núñez, Agostina L. Chapana, Rodolfo G. Wuilloud, Myriam H. Aguirre and Francisco J. Ibañez\*



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### Metal ion transport: unveiling the difference of nanoplastics and microplastics in *Chiromantes dehaani* glucolipid metabolism

Mingming Han, Yuanhao Yang, Zihan Zhou, Daming Li, Ji Liang, Chenxi Zhu, Tian Zhu, Yanshan Liu, Qichen Jiang\* and Weiwei Lv\*



## CORRECTION

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### Correction: Nano-pelargonidin modulates p53/PARP/HSP 90/XRCC1 signaling axis to combat cypermethrin-induced genotoxicity and metabolic dysfunction in fish: a molecular docking predicted *in vivo* approach

Priyanka Sow, Sudatta Dey, Rishita Dey, Asmita Samadder,\* Sisir Nandi, Debojyoti Tarafdar and Anisur Rahman Khuda-Bukhs

