

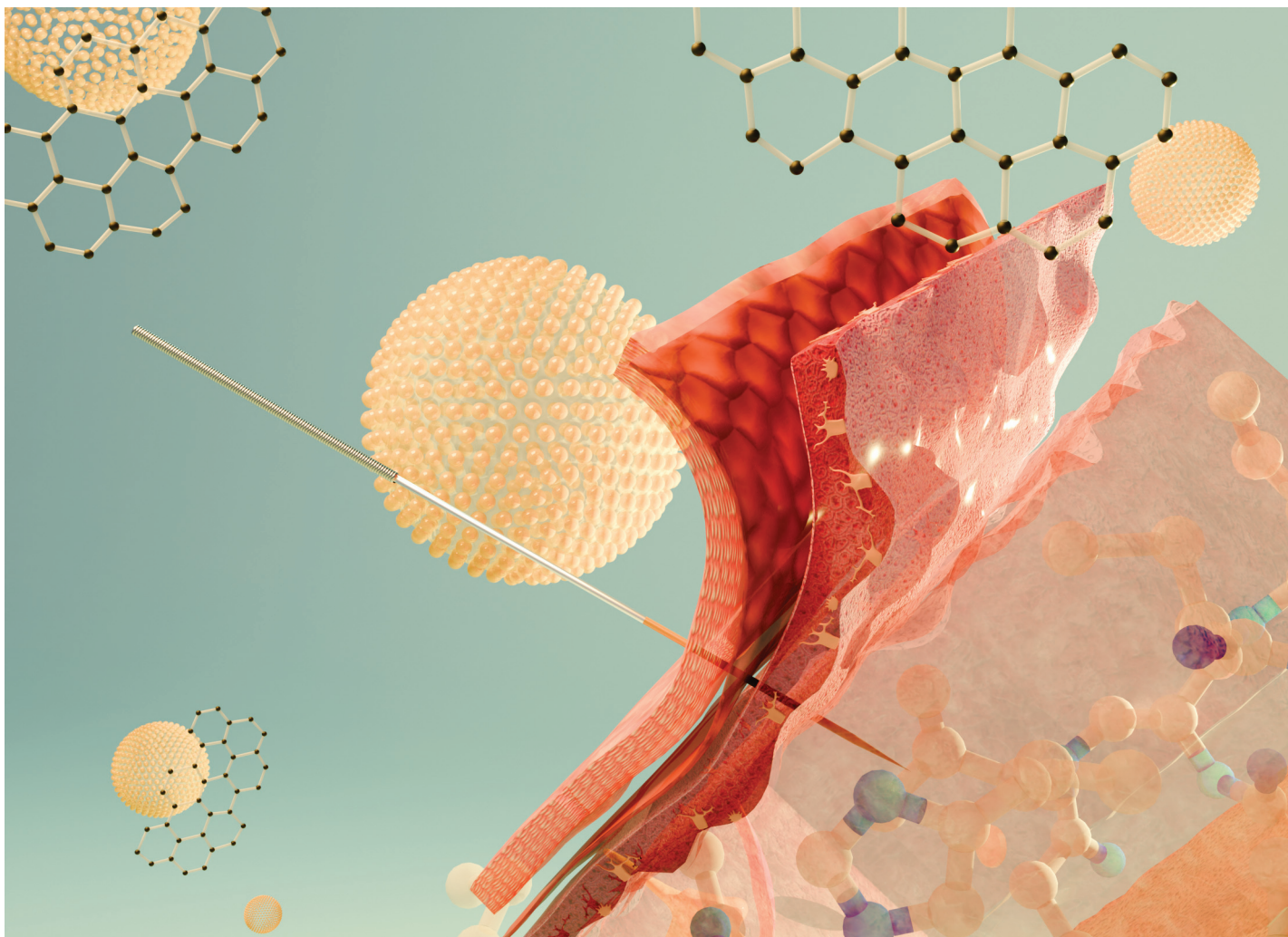
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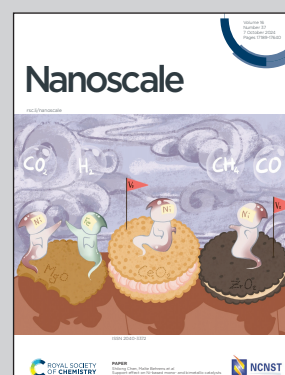


**Showcasing research from Prof. Wenjing Xu's group at the International Institute of Acupuncture Innovation, Beijing University of Chinese Medicine, Beijing, China.**

Highly sensitive biosensors for real-time monitoring of histamine at acupoint PC6 in rats based on graphene-modified acupuncture needles

The first real-time monitoring of histamine at acupoints with high sensitivity and without additional damage has been achieved using graphene-modified acupuncture needles. We developed a histamine biosensor by sequentially introducing gold particles (AuPs) and graphene (G) to modify the bare acupuncture needles (ANs). This work has expanded the applications of nanomaterials through the integration of medicine and engineering, an important aspect for the future development of materials science.

**As featured in:**



See Wenjing Xu *et al.*, *Nanoscale*, 2024, **16**, 17393.