

# Biomaterials Science

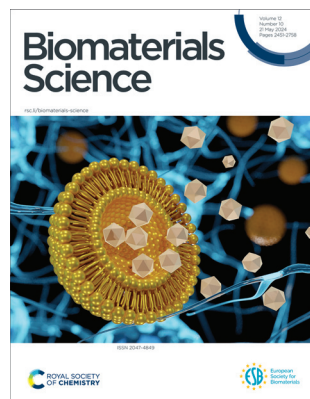
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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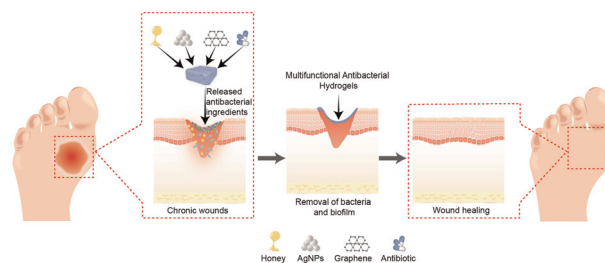
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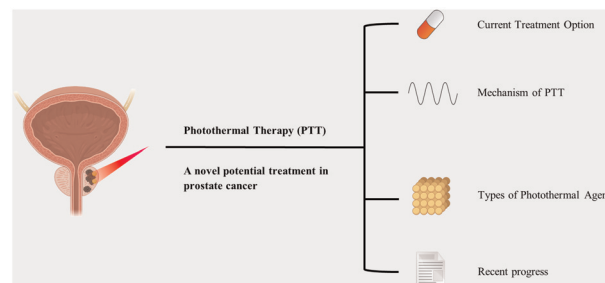
Yungang Hu, Lu Yu, Qiang Dai, Xiaohua Hu and Yuming Shen\*



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Zirui Dong, Kaming Xue, Anushikha Verma, Jian Shi, Zhihao Wei, Xiaotian Xia,\* Keshan Wang\* and Xiaoping Zhang\*



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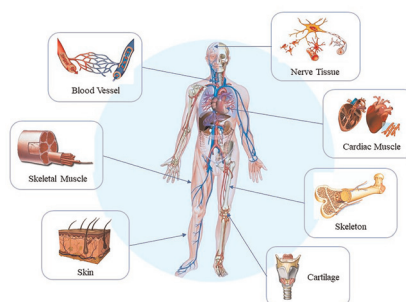


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## Janus hydrogels: merging boundaries in tissue engineering for enhanced biomaterials and regenerative therapies

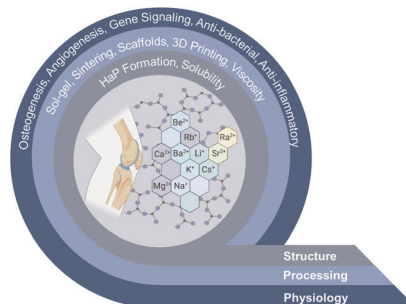
Yingxue Jiang, Chenhui Zhu, Xiaoxuan Ma\* and Daidi Fan\*



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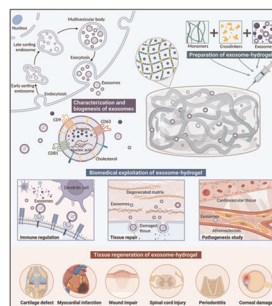
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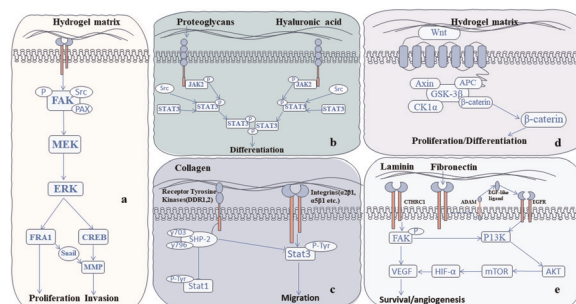
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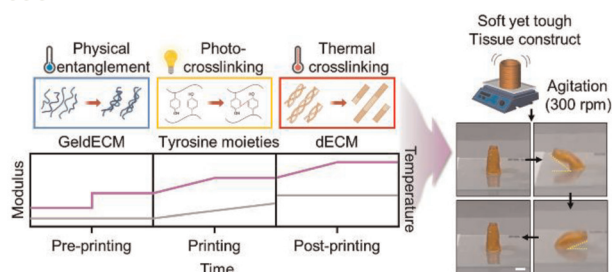
## Applications of hydrogels in tissue-engineered repairing of temporomandibular joint diseases

Xuan Wang, Fushuang Liu, Tianyi Wang, Yikai He and Yongwen Guo\*



## PAPERS

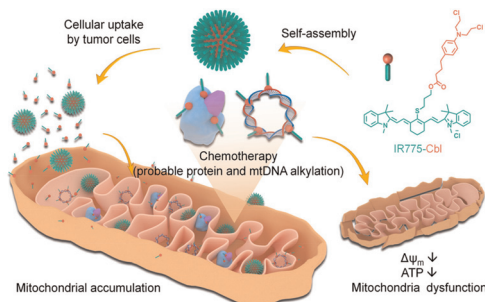
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### Tissue-specific gelatin bioink as a rheology modifier for high printability and adjustable tissue properties

Hohyeon Han, Minji Kim, Uijung Yong, Yeonggwon Jo, Yoo-mi Choi, Hye Jin Kim, Dong Gyu Hwang, Dayoon Kang and Jinah Jang\*

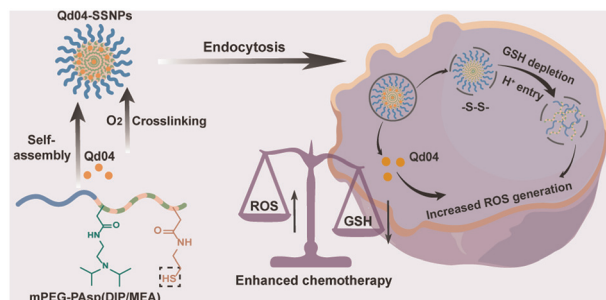
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### A mitochondria-targeting heptamethine cyanine-chlorambucil formulated polymeric nanoparticle to potentiate native tumor chemotherapeutic efficacy

Jing Liu, Jie Zhang, Yongteng Zhang, Wei Wei, Meixiao Zhan, Zhiren Zhang,\* Bing Liu,\* Xianglong Hu\* and Weiling He\*

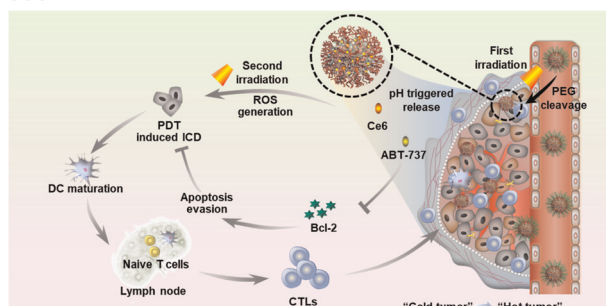
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### Reduction-sensitive polymeric carrier for the targeted delivery of a quinazoline derivative for enhanced generation of reactive oxygen species against cancer

Jianrong Cao, Keze Hong, Chengqi Lv, Weiting Jiang, Qi Chen, Rongze Wang\* and Yong Wang\*

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### Light-inducible nanodrug-mediated photodynamic and anti-apoptotic synergy for enhanced immunotherapy in triple-negative breast cancer

Jing Huang, Xingliang Liu, Minzhao Lin, Zecong Xiao\* and Xintao Shuai



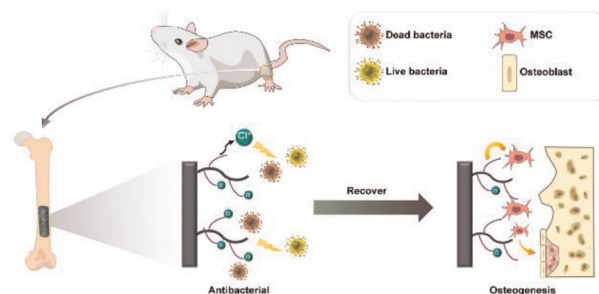


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### N-Halaminated spermidine-containing polymeric coating enables titanium to achieve dual functions of antibacterial and osseointegration

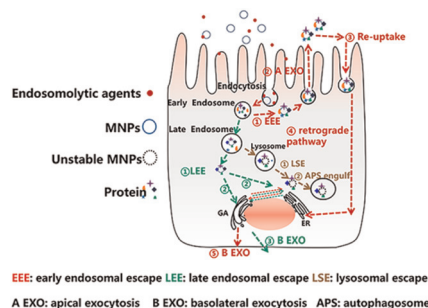
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### Escape sites from the endo-lysosomal trafficking route manipulate exocytosis of nanoparticles in polar epithelium

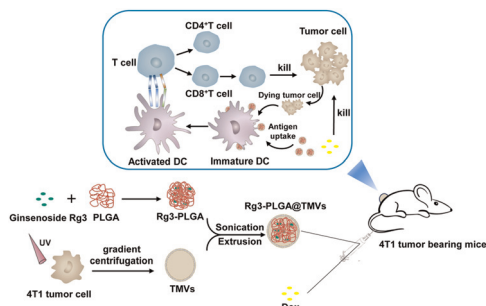
Lingling Wang, Yuting Li, Xi Liu, Liyun Xing, Ruinan Wu and Yuan Huang\*



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### Bioinspired ginsenoside Rg3 PLGA nanoparticles coated with tumor-derived microvesicles to improve chemotherapy efficacy and alleviate toxicity

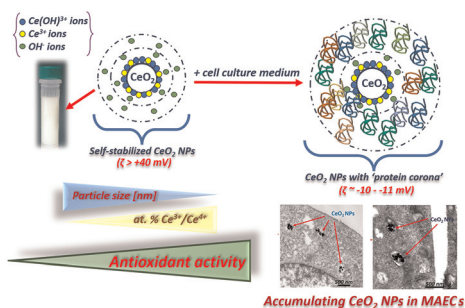
Shulei Zhang, Bo Zheng, Yiqi Wei, Yuhao Liu, Lan Yang, Yujiao Qiu, Jing Su and Mingfeng Qiu\*



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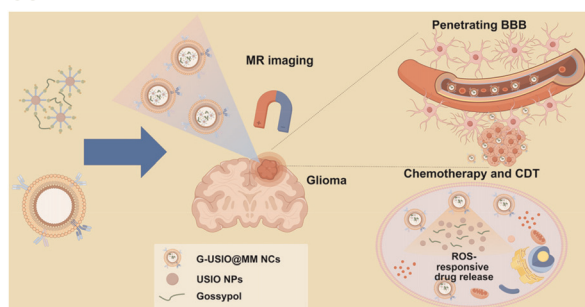
### Bioactivity of cerium dioxide nanoparticles as a function of size and surface features

Veronika Sarnatskaya,\* Yuliia Shlapa,\* Denis Kolesnik, Olexandra Lykhova, Dmytro Klymchuk, Serhii Solopan, Svitlana Lyubchyk, Iuliia Golovynska, Junle Qu, Yurii Stepanov and Anatolii Belous



## PAPERS

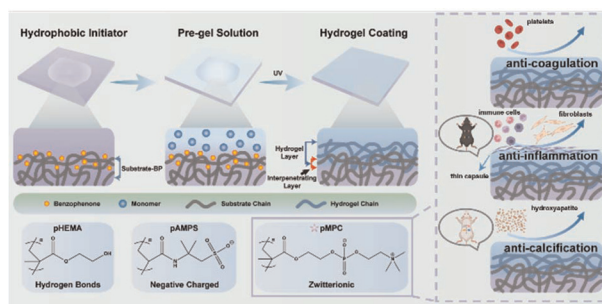
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### Macrophage membrane-camouflaged nanoclusters of ultrasmall iron oxide nanoparticles for precision glioma theranostics

Bin Zhang, Rui Yang, Hongwei Yu, Yamin Peng, Haoyu Huang, Meera Moydeen Abdul Hameed, Han Wang, Guixiang Zhang,\* Mohamed EL-Newehy, Mingwu Shen, Xiangyang Shi\* and Shaojun Peng\*

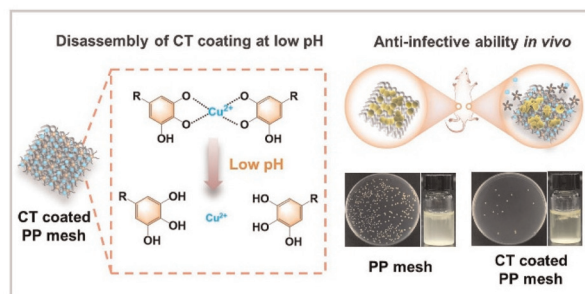
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### Comparison study of surface-initiated hydrogel coatings with distinct side-chains for improving biocompatibility of polymeric heart valves

Yiduo Chen, Yirong Guo, Xinyi Li, Yanchen Chen, Jiarong Wang, Honglin Qian, Jing Wang,\* Youxiang Wang, Xinyang Hu, Jian'an Wang and Jian Ji\*

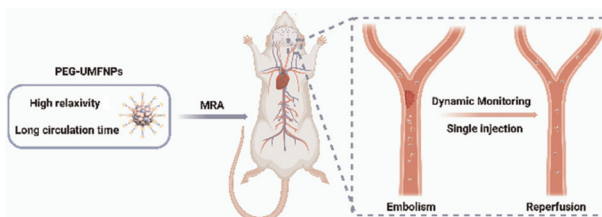
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### pH-Responsive antibacterial metal-phenolic network coating on hernia meshes

Rui Ding, Pandi Peng, Jingjing Huo, Kun Wang, Pengxiang Liu, Hanxue Wu, Likun Yan\* and Peng Li\*

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### Ultrasmall catechol-PEG-anchored ferrite nanoparticles for highly sensitive magnetic resonance angiography

Yanzhi Dong, Jiaojiao Wang, Ting Zhou, Jinbing Pan, Xu Wang and Shao-Kai Sun\*



## CORRECTION

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**Correction: Hindering the unlimited proliferation of tumor cells synergizes with destroying tumor blood vessels for effective cancer treatment**

Ya Liu, Yajun Xu,\* Ying Wang, Jianlin Lv, Kun Wang and Zhaohui Tang\*

