

# Biomaterials Science

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ISSN 2047-4849 CODEN BSICCH 12(5) 1071-1336 (2024)



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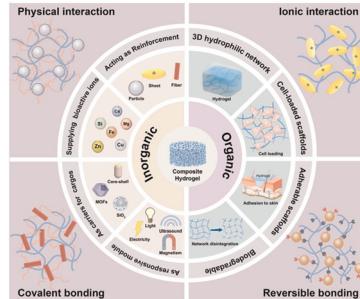
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## Organic–inorganic composite hydrogels: compositions, properties, and applications in regenerative medicine

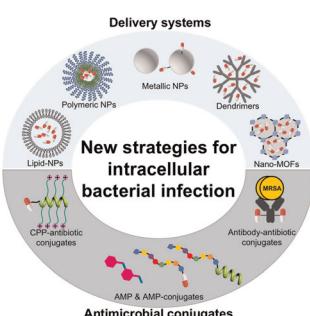
Xinyu Wang, Wei Wei, Ziyi Guo, Xinru Liu, Ju Liu,  
Tiejun Bing, Yingjie Yu,\* Xiaoping Yang and Qing Cai\*



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## Strategies for the eradication of intracellular bacterial pathogens

Yingying Chen, Yunjiang Jiang, Tianrui Xue and Jianjun Cheng\*



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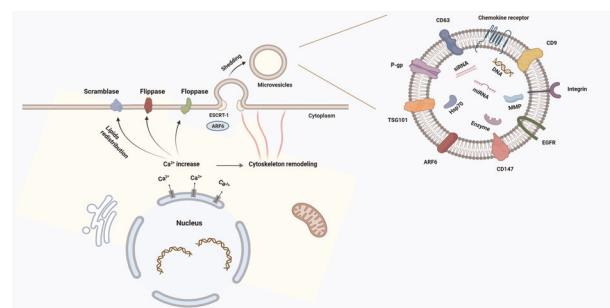
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## REVIEWS

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**Tumor-derived microvesicles for cancer therapy**

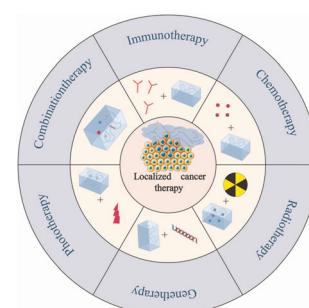
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**Injectable hydrogels as emerging drug-delivery platforms for tumor therapy**

Yao Cheng, Haitao Zhang,\* Hua Wei\* and Cui-Yun Yu\*

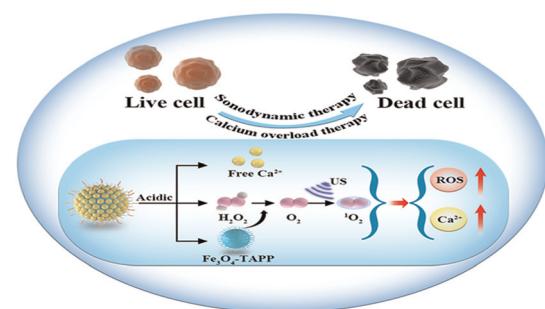


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**Bimetallic nanoplatform for synergistic sonodynamic-calcium overload therapy utilizing self-supplied hydrogen peroxide and relieved hypoxia**

Wenqian Xu, Yisheng Zhao, Chao Zhang,  
Mengping Huo, Lei Wang, Xuewu Wu, Yang Zhang,\*  
Qiao Li\* and Yonghao Gai\*

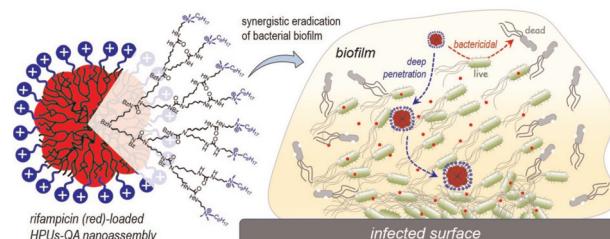


## PAPERS

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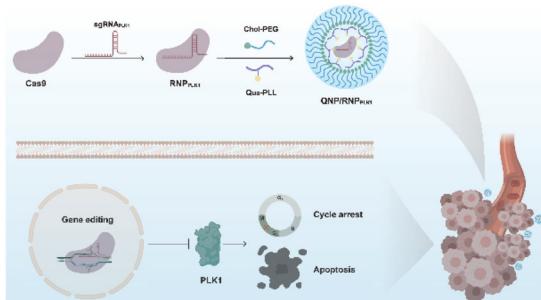
**Quaternary ammonium-tethered hyperbranched polyurea nanoassembly synergized with antibiotics for enhanced antimicrobial efficacy**

Yanwen Feng, Jiang Bian, Guoyi Yu, Pei Zhao\* and  
Jun Yue\*



## PAPERS

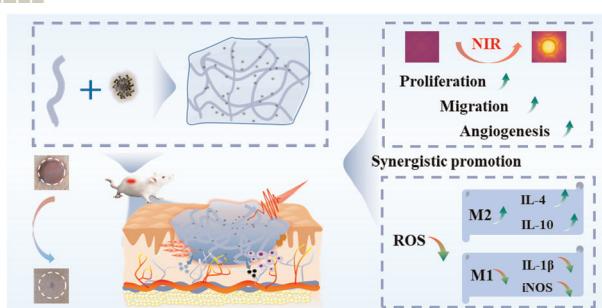
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### A quaternary ammonium-based nanosystem enables delivery of CRISPR/Cas9 for cancer therapy

Mengzhu Zhang, Siyu Sun, Xiao Liang, Zengguang Liu, Jiaxin Yin, Quanshun Li\* and Shengcui Yang\*

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### Wound microenvironment regulatory poly(L-glutamic acid) composite hydrogels containing metal ion-coordinated nanoparticles for effective hemostasis and wound healing

Yanzheng Chen, Xueliang Zhang, Qing Wang, Chang Du\* and Chang-Ming Dong\*

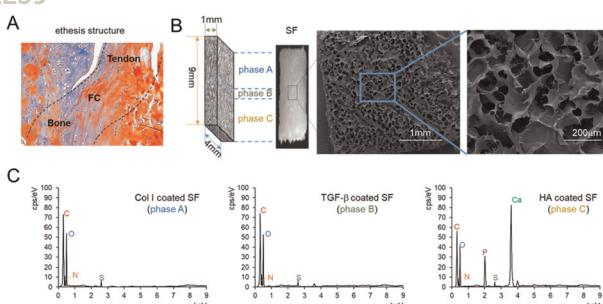
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### Lubricity, wear prevention, and anti-biofouling properties of macromolecular coatings for endotracheal tubes

Bernardo Miller Naranjo, Michael Zollo, Stephan A. Sieber and Oliver Lieleg\*

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### Biomimetic triphasic silk fibroin scaffolds seeded with tendon-derived stem cells for tendon-bone junction regeneration

Yiyun Geng, Penglei Cui, Muli Hu, Bingjun Zhang, Liming Dai, Fengxuan Han, Yungshu-hang Patrick, Sai-Chuen Fu, Bin Li\* and Xiaoling Zhang\*

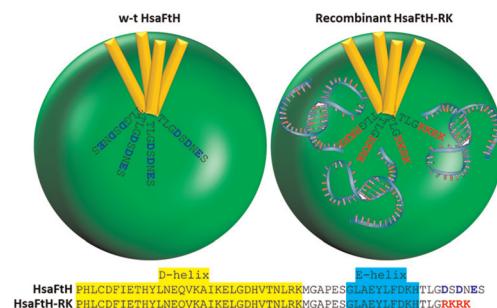


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**Engineered human H-chain ferritin with reversed charge of the internal cavity exhibits RNA-mediated spongelike effect for loading RNA/DNA-binding molecules**

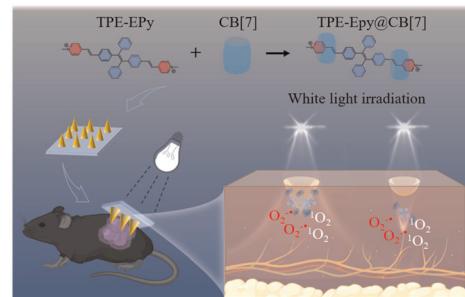
Marketa Charousova, Marie Kudlickova Peskova, Paulina Takacsova, Katerina Kapolkova, Yazan Haddad, Jan Bilek, Ladislav Sivak, Tomas Bartejs, Zbynek Heger\* and Vladimir Pekarik\*



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**Aggregation-induced emission photosensitizer microneedles for enhanced melanoma photodynamic therapy**

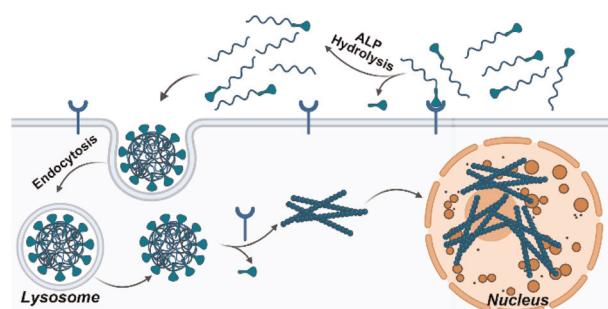
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**Intranuclear assembly of leucine-rich peptides for selective death of osteosarcoma cells**

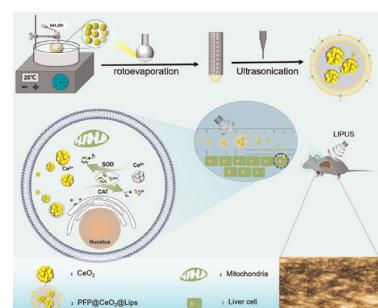
Shuang Liu,\* Qiuixin Zhang, Xingrao Peng, Cong Hu, Shaowei Wang\* and Yao Sun\*



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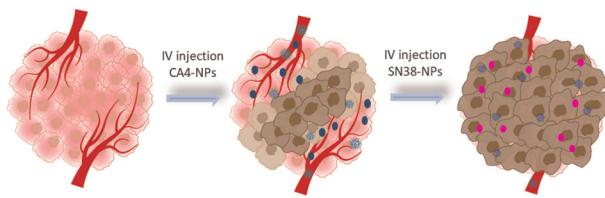
**Visualization of therapeutic intervention for acute liver injury using low-intensity pulsed ultrasound-responsive phase variant nanoparticles**

You Yang, Ju-ying Zhang, Zi-jun Ma, Shi-chun Wang, Ping He, Xiao-qing Tang, Chao-feng Yang, Xia Luo, Xing Yang, Ling Li, Mao-chun Zhang, Yang Li and Jin-hong Yu\*



## PAPERS

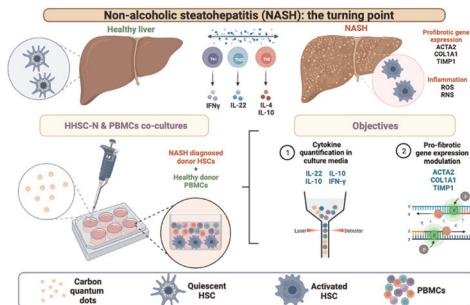
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### Hindering the unlimited proliferation of tumor cells synergizes with destroying tumor blood vessels for effective cancer treatment

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

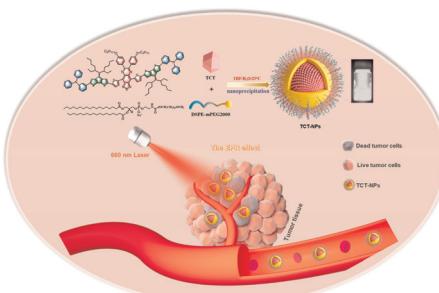
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### Antifibrotic activity of carbon quantum dots in a human *in vitro* model of non-alcoholic steatohepatitis using hepatic stellate cells

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### D-A-D organic fluorescent probes for NIR-II fluorescence imaging and efficient photothermal therapy of breast cancer

Jie Gao, Lin Yuan, Yu Min, Bing Yu,\* Hailin Cong\* and Youqing Shen

## CORRECTION

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### Correction: MiR-4458-loaded gelatin nanospheres target COL11A1 for DDR2/SRC signaling pathway inactivation to suppress the progression of estrogen receptor-positive breast cancer

Jie Liu, Chang-Qing Yang, Qiang Chen, Tong-Yao Yu, Shi-Long Zhang, Wei-Hong Guo, Li-Heng Luo, Gang Zhao,\* Da-Chuan Yin\* and Chen-Yan Zhang\*

