

Biomaterials Science

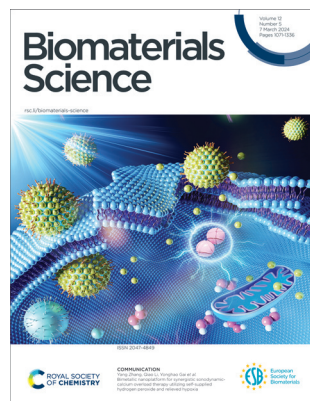
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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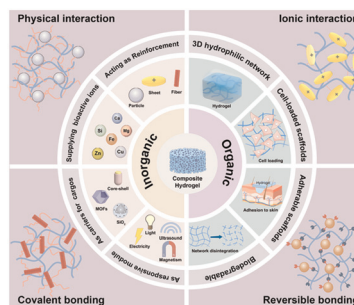
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Organic–inorganic composite hydrogels: compositions, properties, and applications in regenerative medicine

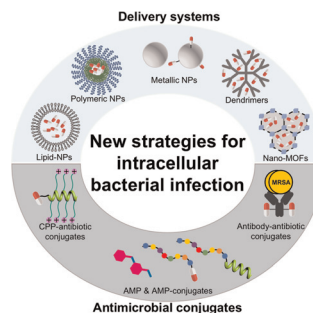
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Strategies for the eradication of intracellular bacterial pathogens

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



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Fundamental questions
Elemental answers

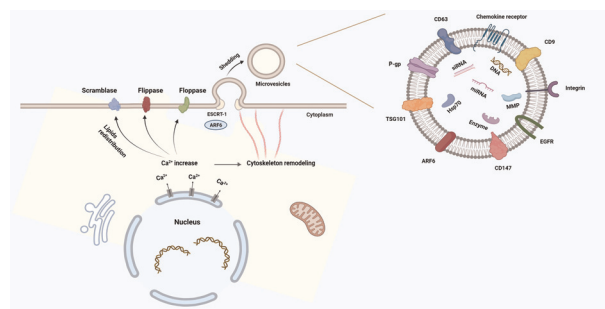


REVIEWS

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Tumor-derived microvesicles for cancer therapy

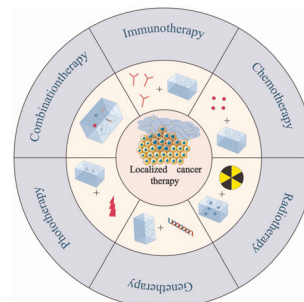
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Injectable hydrogels as emerging drug-delivery platforms for tumor therapy

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

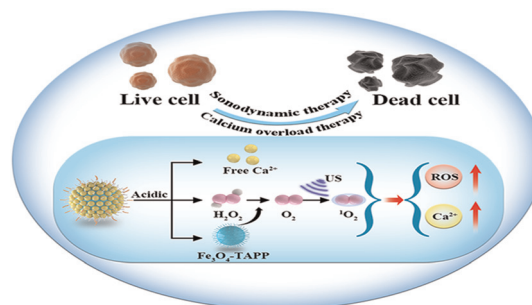


COMMUNICATION

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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*

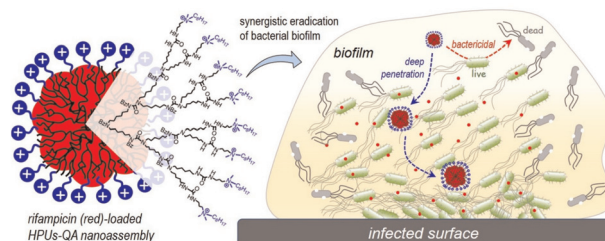


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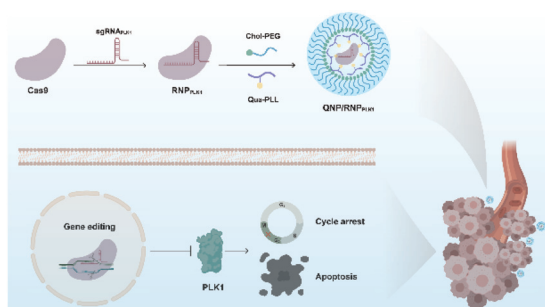
Quaternary ammonium-tethered hyperbranched polyurea nanoassembly synergized with antibiotics for enhanced antimicrobial efficacy

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



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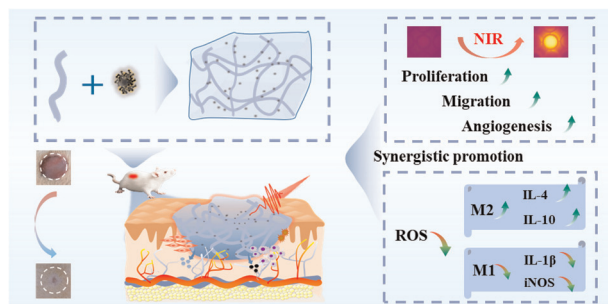
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A quaternary ammonium-based nanosystem enables delivery of CRISPR/Cas9 for cancer therapy

Mengzhu Zhang, Siyu Sun, Xiao Liang, Zengguang Liu, Jiaxin Yin, Quanshun Li* and Shengcai 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*

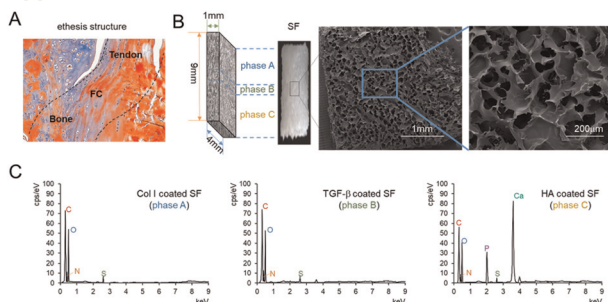
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Lubricity, wear prevention, and anti-biofouling properties of macromolecular coatings for endotracheal tubes

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*

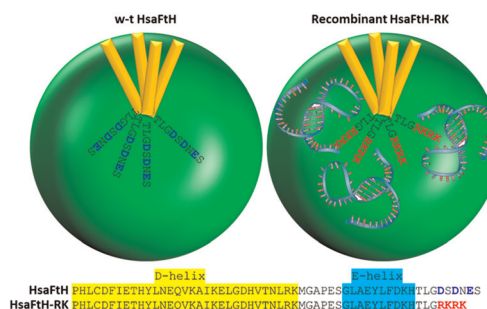


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Engineered human H-chain ferritin with reversed charge of the internal cavity exhibits RNA-mediated spongelike effect for loading RNA/DNA-binding molecules

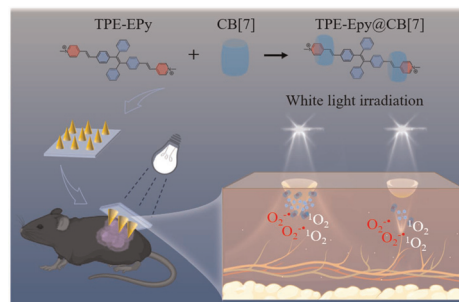
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Aggregation-induced emission photosensitizer microneedles for enhanced melanoma photodynamic therapy

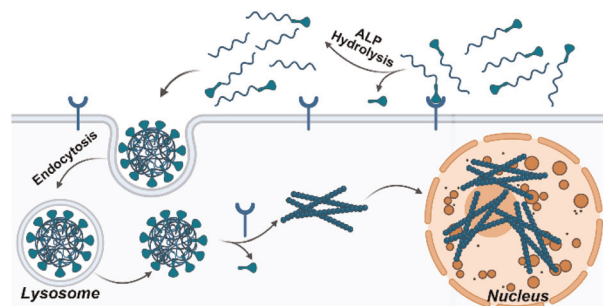
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Intranuclear assembly of leucine-rich peptides for selective death of osteosarcoma cells

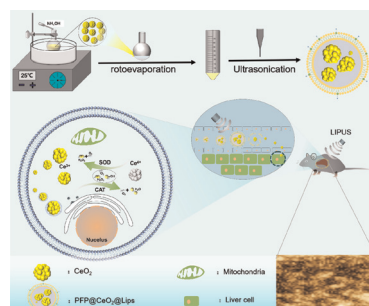
Shuang Liu,* Qiuxin Zhang, Xingrui Peng, Cong Hu, Shaowei Wang* and Yao Sun*



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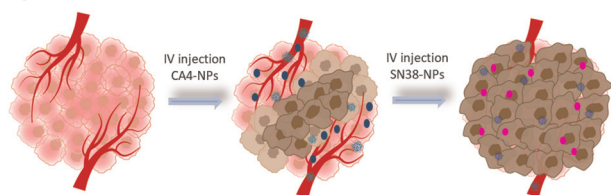
Visualization of therapeutic intervention for acute liver injury using low-intensity pulsed ultrasound-responsive phase variant nanoparticles

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*



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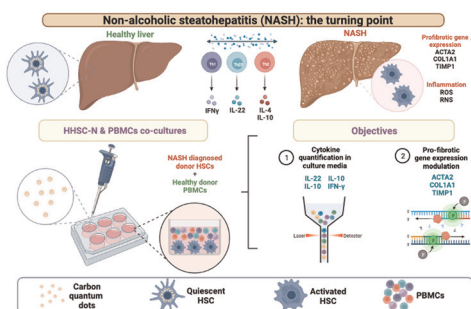
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Hindering the unlimited proliferation of tumor cells synergizes with destroying tumor blood vessels for effective cancer treatment

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

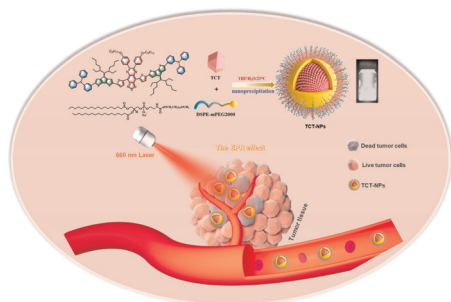
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Antifibrotic activity of carbon quantum dots in a human *in vitro* model of non-alcoholic steatohepatitis using hepatic stellate cells

David A. García-Topete, Laura A. Álvarez-Lee, Gabriela I. Carballo-López, Marco A. Uriostegui-Campos, Carlos Guzmán-Urbe and Ana B. Castro-Ceseña*

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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*

