

Biomaterials Science

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

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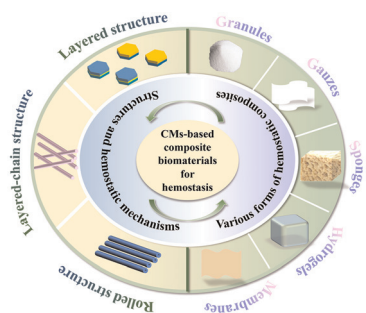
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Progress and future prospects of hemostatic materials based on nanostructured clay minerals

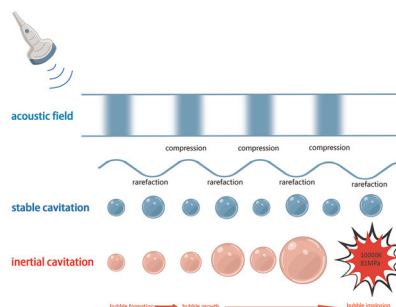
Yinfeng Yang, Xiaomei Wang, Fangfang Yang, Bin Mu and Aiqin Wang*



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Improvement of the effectiveness of sonodynamic therapy: by optimizing components and combination with other treatments

Xiangting Wang, Xiaohong Xu, Zhe Yang, Xuanshou Xu, Shisong Han* and Heng Zhang*



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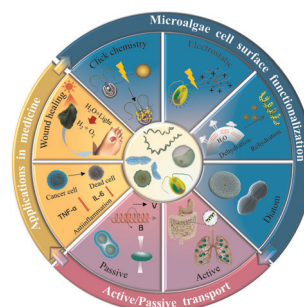


REVIEWS

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Applications of microalga-powered microrobots in targeted drug delivery

Min Zhou, Yannan Yin, JiuHong Zhao, Mingyang Zhou, Yanjie Bai* and Peng Zhang*

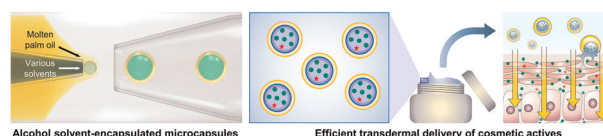


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Microencapsulation of alcohol solvents and high-content actives for efficient transdermal delivery

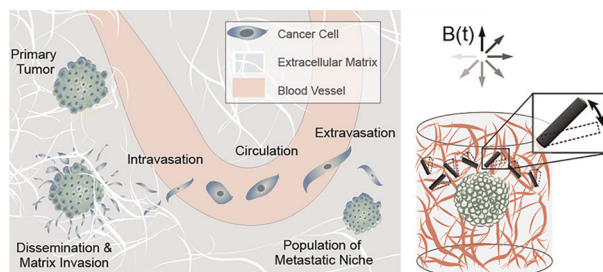
Je Hyun Lee, Yoon-Ho Hwang, Minjoo Noh, Ji Hyun Lee, Jun Bae Lee* and Hyomin Lee*



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Magnetically controlled cyclic microscale deformation of *in vitro* cancer invasion models

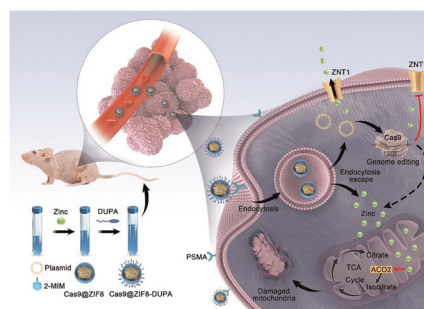
Daphne O. Asgeirsson, Avni Mehta, Anna Scheeder, Fan Li, Xiang Wang, Michael G. Christiansen, Nicolas Hesse, Rachel Ward, Andrea J. De Micheli, Ece Su Ildiz, Stefano Menghini, Nicola Aceto and Simone Schuerle*



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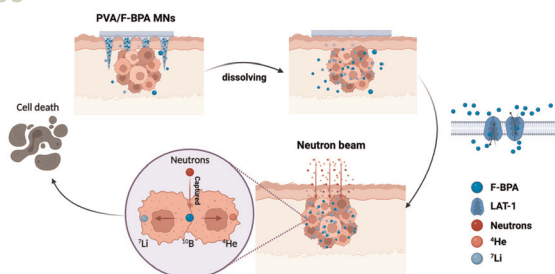
Intracellular regulation of zinc by metal–organic framework-mediated genome editing for prostate cancer therapy

Yanan Xue, Honglin Tang, Guangpeng Chen, Yubin Pan, Da Li* and Yuan Ping*



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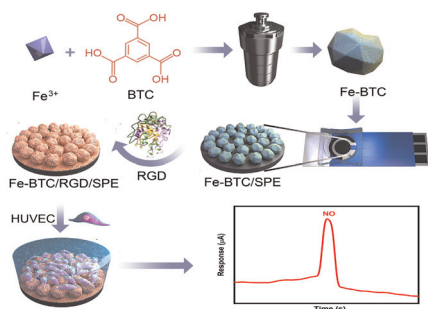


The transdermal drug delivery system based on PVA/F-BPA microneedles for BNCT of Melanoma

A transdermal drug delivery system based on dissolving microneedles for boron neutron capture therapy of melanoma

Jiaxin Li, Xueyi Wang,* Zhaoshuo Wang, Yu Zhao, Ziyang Zhang, Lanya Li, Dandan Ding, Junshu Guo, Jinchao Zhang, Huifang Liu* and Zhenhua Li*

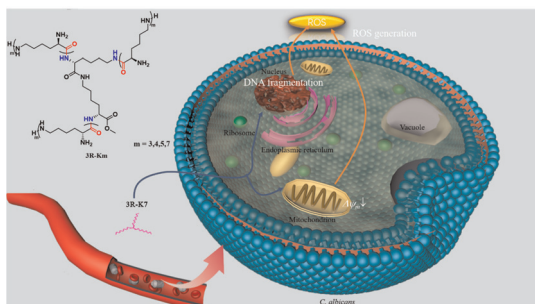
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An Fe-organic framework/arginine-glycine-aspartate peptide-modified sensor for electrochemically detecting nitric oxide released from living cells

Tingting Zhao, Ting Shu, Jinrong Lang, Ziyu Cui, Ping Li and Shi Wang*

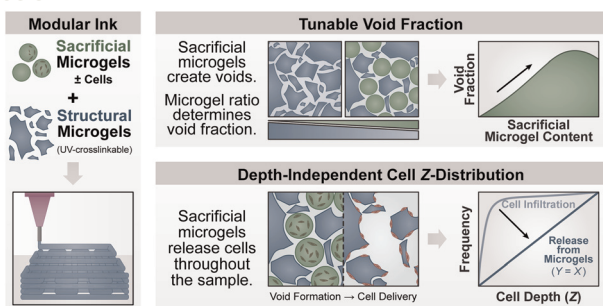
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Multi-arm ϵ -polylysines exhibit broad-spectrum antifungal activities against *Candida* species

Yuanqiao Cao, Ming Liu, Miaomiao Han* and Shengxiang Ji*

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3D printing microporous scaffolds from modular bioinks containing sacrificial, cell-encapsulating microgels

Alexis J. Seymour, David Kilian, Renato S. Navarro, Sarah M. Hull and Sarah C. Heilshorn*

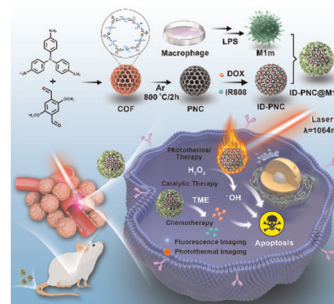


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A covalent organic framework-derived M1 macrophage mimic nanozyme for precise tumor-targeted imaging and NIR-II photothermal catalytic chemotherapy

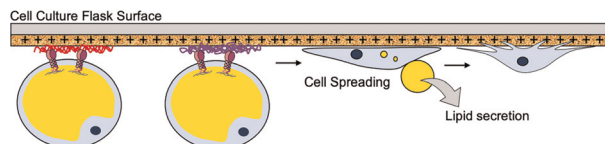
Peng Gao, Kaixian Wang, Ruyue Wei, Xiaoying Shen, Wei Pan,* Na Li* and Bo Tang*



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ECM proteins and cationic polymers coating promote dedifferentiation of patient-derived mature adipocytes to stem cells

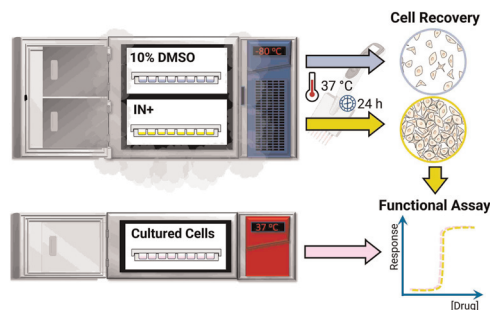
Aslı Sena Karanfil, Fiona Louis,* Yoshihiro Sowa and Michiya Matsusaki*



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Cryopreservation of assay-ready hepatocyte monolayers by chemically-induced ice nucleation: preservation of hepatic function and hepatotoxicity screening capabilities

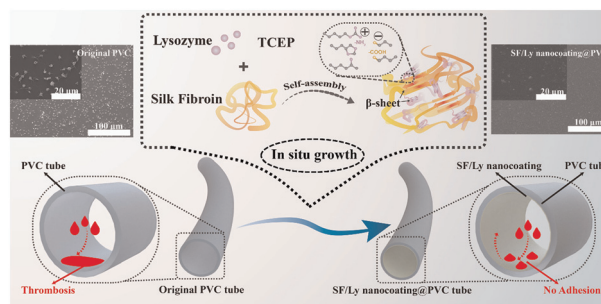
Ruben M. F. Tomás, Robert Dallman, Thomas R. Congdon and Matthew I. Gibson*



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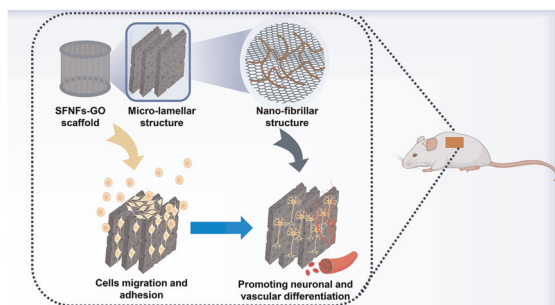
An *in situ* grown ultrathin and robust protein nanocoating for mitigating thromboembolic issues associated with cardiovascular medical devices

Bianliang Miao, Yi Liu, Along Zhang, Ye Cao, Rui Zhong, Jiaxin Liu and Zhengzhong Shao*



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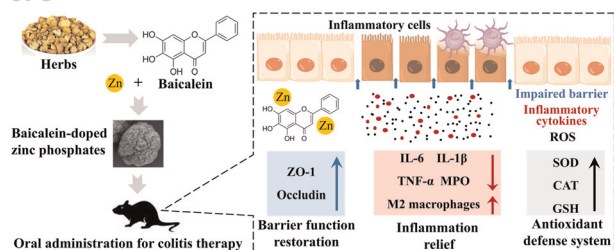
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Hierarchically patterned protein scaffolds with nano-fibrillar and micro-lamellar structures modulate neural stem cell homing and promote neuronal differentiation

Jiaqi Hu, Chenlin Li, Zhangze Yang, Qi Wu, Jie Wang, Zongpu Xu, Yuyin Chen, Quan Wan, Yajun Shuai,* Shuxu Yang* and Mingying Yang*

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Engineered baicalein-decorated zinc phosphates for synergistic alleviation of inflammatory bowel disease by repairing the mucosal barrier and relieving oxidative stress

Limei Liu, Weisong Wu, Siqi Li, Li Ma,* Yunting Liu, Xiaoli Wang* and Yanjun Jiang

CORRECTION

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Correction: Optically controlled hybrid metamaterial of plasmonic spiky gold inbuilt graphene sheets for bimodal imaging guided multimodal therapy

Kunnumpurathu Jibin, Jayaram S. Prasad, Giridharan Saranya, Sachin J. Shenoy, Kaustabh K. Maiti and Ramapurath S. Jayasree*

