

Biomaterials Science

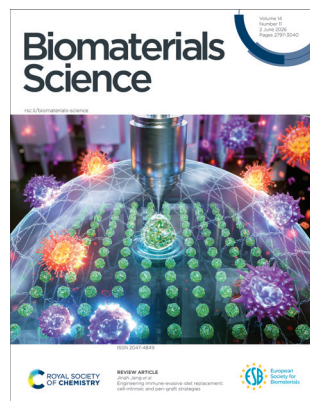
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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Cover
See Jinah Jang *et al.*,
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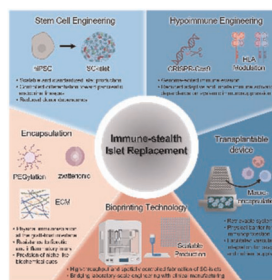
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REVIEWS

2805

Engineering immune-evasive islet replacement: cell-intrinsic and peri-graft strategies

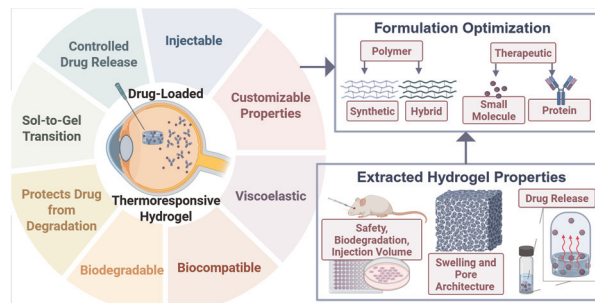
Myungji Kim, Minji Kim and Jinah Jang*



2824

Thermoresponsive hydrogels for controlled drug delivery to the back of the eye: a data-driven guide to formulation design

Alexa K. Beathard-Wojan and Vibhuti Agrahari*



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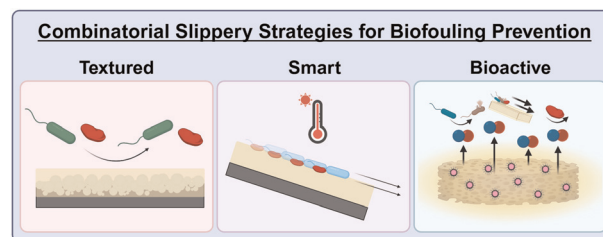
Fundamental questions
Elemental answers

MINIREVIEW

2847

Slippery lubricant-infused surfaces with anti-fouling and antimicrobial properties for preventing biofouling in biomedical applications

Grace H. Nguyen and Elizabeth J. Brisbois*

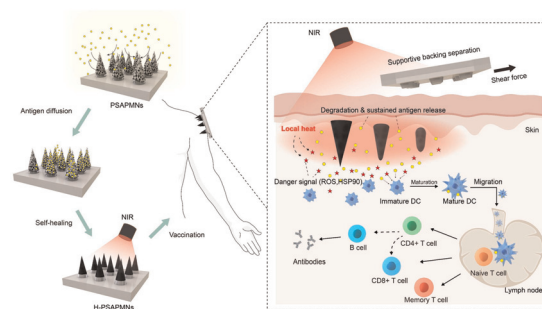


PAPERS

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Photothermal self-adjuvant porous microneedles for self-healing encapsulation and sustained release of antigens to improve adaptive immunity

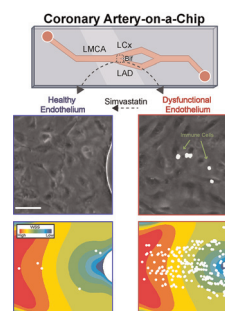
Xin Wang, Zhiming Li, Jiahui Fu, Xueyu Wen, Zhenni Chen, Shaohua Li, Tianqi Liu,* Fei Jia* and Hao Chang*



2880

Simvastatin attenuates endothelial dysfunction in a coronary artery-on-a-chip

Jasneil Singh, Deepu Ashok, Henry Howard, Steven G. Wise and Anna Waterhouse*



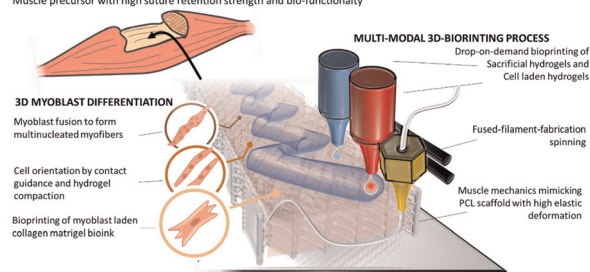
2894

Biofabrication of 3D-printed fibrous scaffolds for large muscle tissue engineering: enhancing scalability, myotube formation and surgical handling

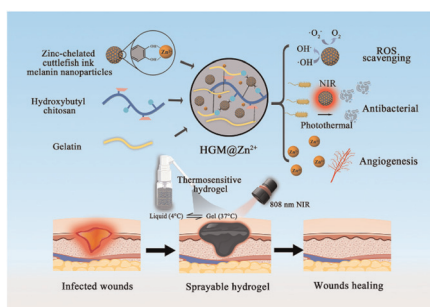
Eva Schätzlein, Oliver Weeger, Sebastian Scholpp, Leon Faulhaber, Anna Fritschen, Jamina Sofie Gerhardus, Robin Maatz, Annabelle Neuhäusler, Souraj Mandal, Regine von Klitzing and Andreas Blaeser*

TREATMENT OF VOLUMETRIC MUSCLE LOSS

Muscle precursor with high suture retention strength and bio-functionality



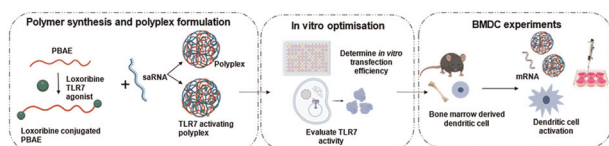
2911



Zinc-chelated cuttlefish ink melanin nanoparticle-complexed sprayable chitosan-based hydrogel for promoting infected wound healing

Ruimin Zhan, Lu Liu, Yan Shi, Jinrui Li, Dandan Jing, Mengyang Mao, Qian Yu, Siyi Tong, Hu Hou, Hui-Min David Wang, Zhiguo Wang* and Ming Kong*

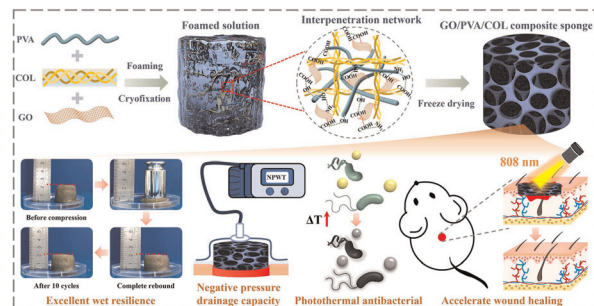
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Engineering immunostimulatory nanocarriers: TLR7-agonist conjugated poly(beta-amino ester) mRNA delivery systems

Hulya Bayraktutan, Amr ElSherbeny, Rafat J. Kopiasz, Charlotte Galley, Nurcan Gumus, Clare L. Bennett, Cameron Alexander* and Pratik Gurnani*

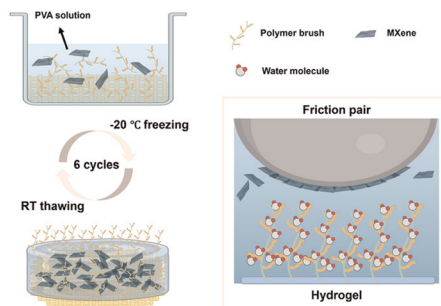
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Functionalized collagen-based sponge dressing integrating negative pressure wound therapy and photothermal antibacterial treatment for advanced wound management

Jiaqi Zhou, Jingjing Yu, Tianshuo Hu, Jingyi Li, Cuicui Ding,* Lihui Chen, Hui Wu and Min Zhang*

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Brush-like copolymer and MXene-functionalized PVA/PEEK scaffolds: enhancing lubrication in metatarsophalangeal joint prostheses

Jian Pu, Nengshen Zhang, Luyao Tang, Zemin Ling,* Chao Zhang and Jian Song*

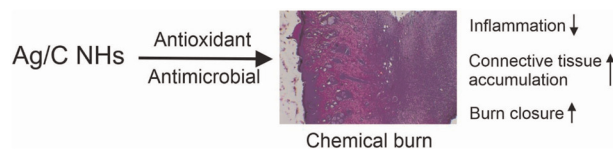


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Plasmonic fluorescent Ag/C-based nanohybrids for treatment of chemically-induced cutaneous burns

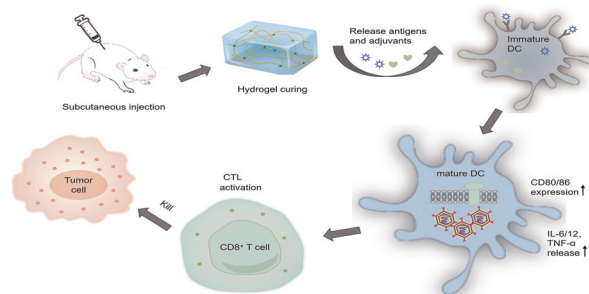
Halyna Kuznietsova,* Iryna Byelinska, Arsen Ishchuk, Vladimir Lysenko, Alexander Zaderko, Yury V. Ryabchikov, Olga Pylypova, Kostiantyn Palienko and Nataliia Dziubenko



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Hybrid cell membrane-conjugated photosensitive hydrogels as a tumor vaccine for promoting cancer immunotherapy

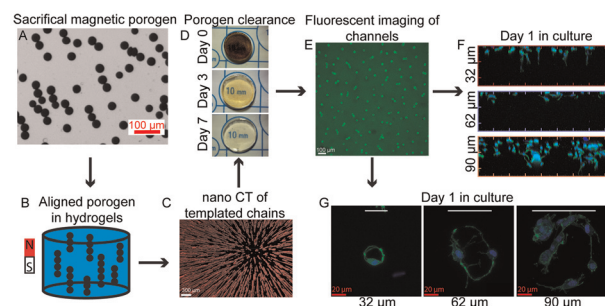
Chaoying Wang, Tao Wang, Wenxin Zhou, Yanxu Li, Weiben Ji, Shengyi Wu, Yutao Feng, Lai Chang, Quan Zhang* and Wei Wu*



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Tuning hydrogel properties and Schwann cell behavior through microchannel size control in magnetically templated hydrogels

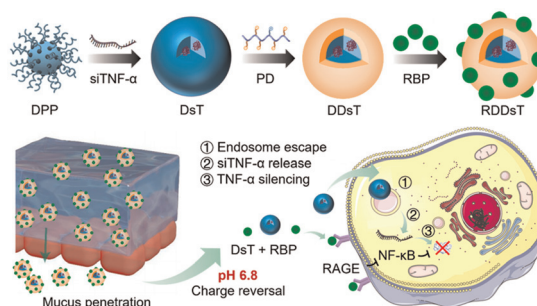
Victor G. Rivera-Llabres, Zoe A. Fields, Hayden J. Good, Elizabeth L. Aikman, Stephanie Manrique, Adeline Schmidt, Eleana Manousiouthakis, Whitney L. Stoppel, Christine E. Schmidt and Carlos M. Rinaldi-Ramos*



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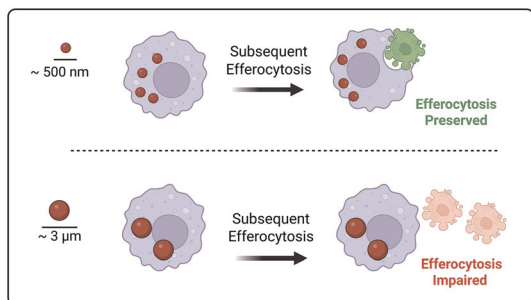
Inflammation-responsive hierarchical delivery of anti-inflammatory siRNA and peptide alleviates cytokine storm in pneumonia

Xiaohui Li, Shanzhou Duan, Jiandong Yang, Chunxian Piao, Yang Zhou, Chenglong Ge, Qiujun Liang, Minhyung Lee,* Lichen Yin* and Yongbing Chen*



PAPERS

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Microparticle uptake reduces efferocytic capacity of macrophages

Shivangi Mishra, Bharti Aggarwal, Prem Singh Anant, Avinash Bajaj and Siddharth Jhunjhunwala*

CORRECTIONS

3036

Correction: Osteopromotive carbon dots promote bone regeneration through the PERK-eIF2 α -ATF4 pathway

Nianqiang Jin, Nuo Jin, Zilin Wang, Lili Liu, Lin Meng, Daowei Li, Xing Li, Dabo Zhou, Jie Liu, Wenhuan Bu,* Hongchen Sun* and Bai Yang

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Correction: An ROS-sensitive tegafur-PpIX-heterodimer-loaded *in situ* injectable thermosensitive hydrogel for photodynamic therapy combined with chemotherapy to enhance the tegafur-based treatment of breast cancer

Zhiqiang Zhang, Anning Li, Xingqi Min, Qunqun Zhang, Jun Yang, Guo Chen, Meijuan Zou, Wei Sun* and Gang Cheng*

