Biomaterials Science

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

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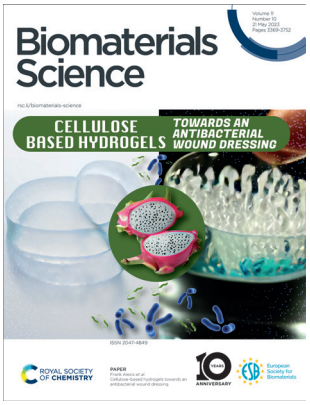

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See Frank Alexis *et al.*, pp. 3461–3468.

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Inside cover
See Xiyun Yan, Kelong Fan *et al.*, pp. 3394–3413.

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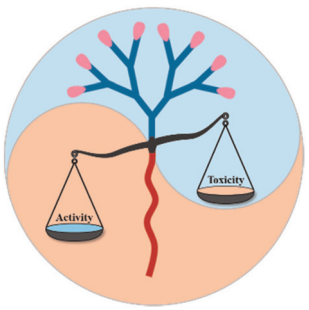

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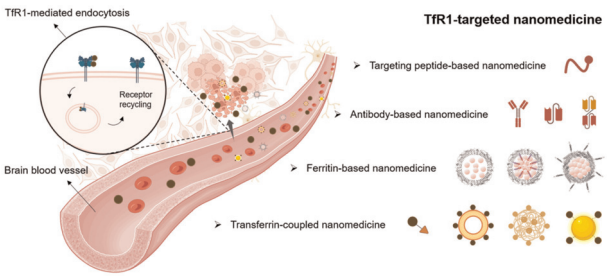

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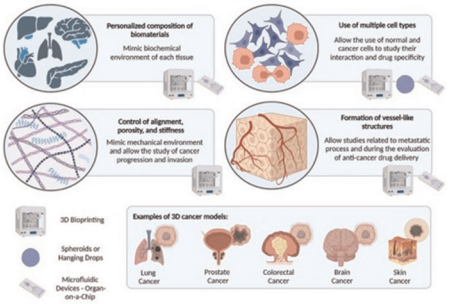

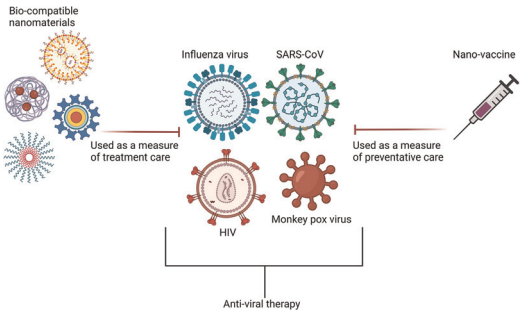

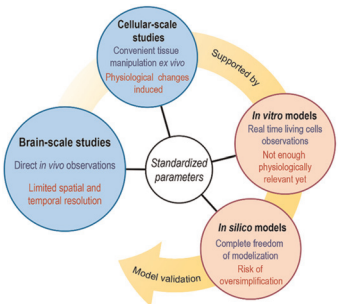

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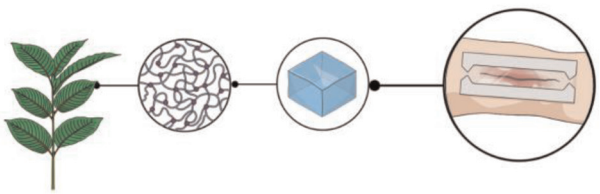

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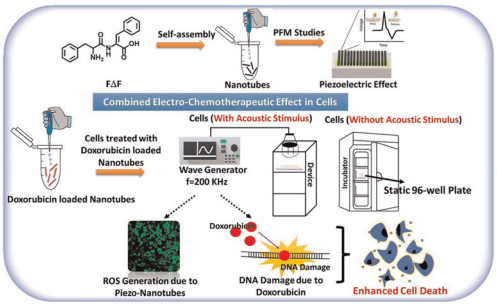

Bio-piezoelectric phenylalanine-αβ-dehydrophenylalanine nanotubes as potential modalities for combinatorial electrochemotherapy in glioma cells

Sonika Chibh, Nidhi Aggarwal, Zinnia Mallick, Dipanjan Sengupta, Parrydeep Kaur Sachdeva, Chandan Bera, Nitin Yadav, Virander Singh Chauhan, Dipankar Mandal* and Jiban Jyoti Panda*

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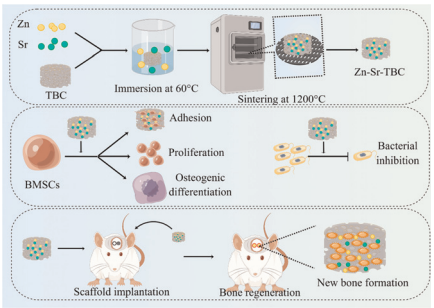

Zn–Sr-sintered true bone ceramics enhance bone repair and regeneration

Yingkun Hu, Yi Wang, Qinyu Feng, Tianhong Chen, Zhuowen Hao, Shuwei Zhang, Lin Cai, Xiaodong Guo and Jingfeng Li*

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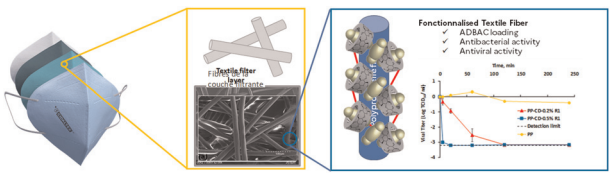

Antiviral functionalization of a polypropylene nonwoven textile structure as a self-decontaminating layer for respiratory masks

Mickael Maton, Sarah Gabut, Christel Neut, Pascal Odou, Camille Sacareau, Anthony Pinon, Michèle Vialette, Gaétan Gerber, Bernard Martel* and Nicolas Blanchemain*

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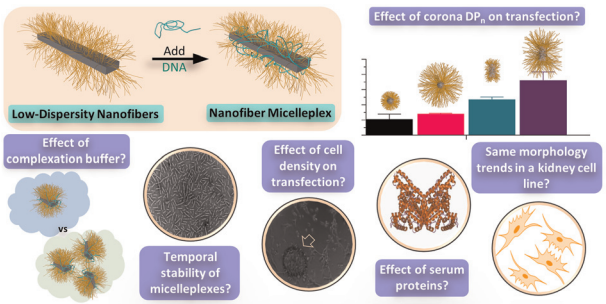

Optimization of precision nanofiber micelleplexes for DNA delivery

Steven T. G. Street, Hayley C. Parkin, Lennard Shopperly, Josie Chrenek, Keiran Letwin, Stephanie M. Willerth* and Ian Manners*

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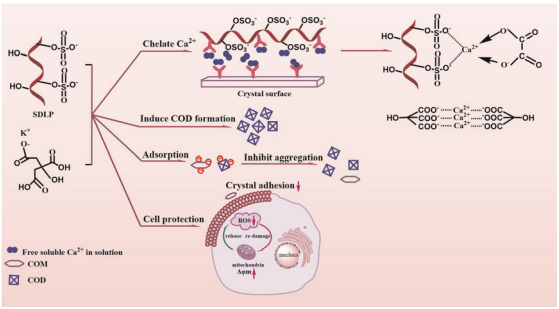

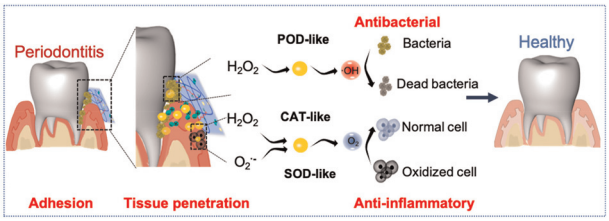

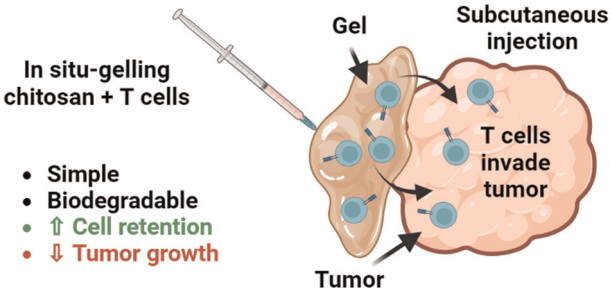

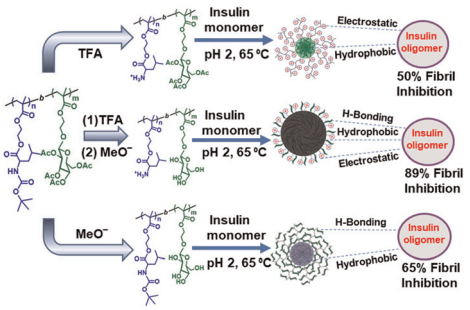

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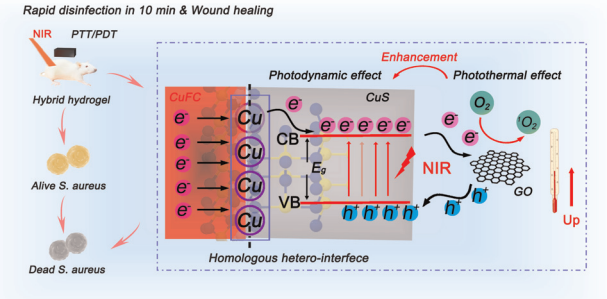

S–Cu–FC/CuS modified GO carboxymethyl cellulose hydrogel for enhanced photocatalytic sterilization through homo-heterojunction interface accelerated charge transfer

Bo Huang, Wei Guan, Chaofeng Wang, Shuilin Wu,* Zhenduo Cui, Yufeng Zheng, Zhaoyang Li, Shengli Zhu, Hui Jiang, Paul K. Chu and Xiangmei Liu*

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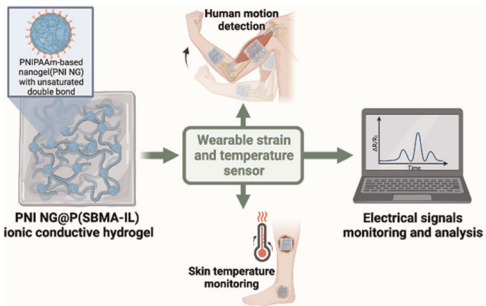

Nanostructured ionic hydrogel with integrated conductivity, stretchability and thermal responsiveness for a high-performance strain and temperature sensor

Qian Pang,* Kaihao Wu, Zilian Jiang, Fang Yang, Zewen Shi, Hanlin Gao, Cuicui Zhang, Ruixia Hou* and Yabin Zhu*

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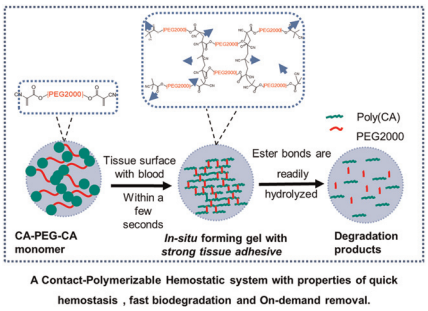

A contact-polymerizable hemostatic powder for rapid hemostasis

Jia Wang, Cheng Li, Wei Zhang, Weimin Huang, Zhiqiang Liu, Rui Shi, Shiyuan Wang, Shan Liu, Weiguo Shi, Yunlan Li* and Liang Xu*

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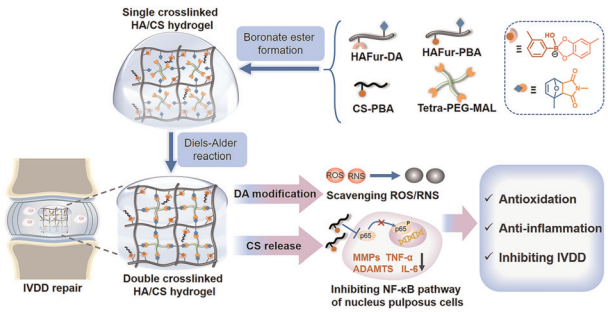

Injectable chondroitin sulfate-grafted self-antioxidant hydrogels ameliorate nucleus pulposus degeneration against overactive inflammation

Huitong Luo, Zetao Wang, Zhichao He, Zemin Ling, Hao Wang, Jiayi Zhu, Jingjun Nie, Dafu Chen, Qi Feng* and Xiaodong Cao*

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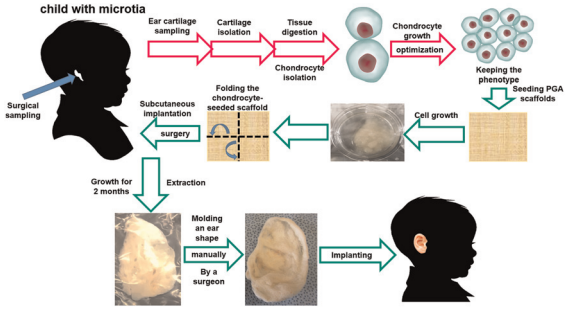

Optimization of 3D autologous chondrocyte-seeded polyglycolic acid scaffolds to mimic human ear cartilage

Pedro Melgar-Lesmes,* Oriol Bosch, Rebecca Zubajlo, Gemma Molins, Sofia Comfort, Ainara Luque-Saavedra, Mario López-Moya, Fernando García-Polite, Francisco José Parri Ferrandis, Carolyn Rogers, Agata Gelabertó, Jordi Martorell, Elazer R. Edelman and Mercedes Balcells

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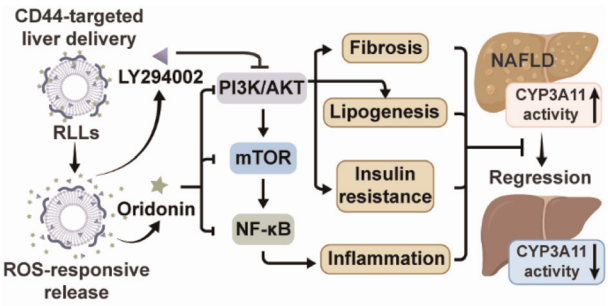

ROS-scavenging nanomedicine for "multiple crosstalk" modulation in non-alcoholic fatty liver disease

Xiaofei Xin, Jingjing Li, Wantao Wu, Pengbo Zhao, Yang Yang, Ying Zhu, Lianjie Ren, Chao Qin* and Lifang Yin*

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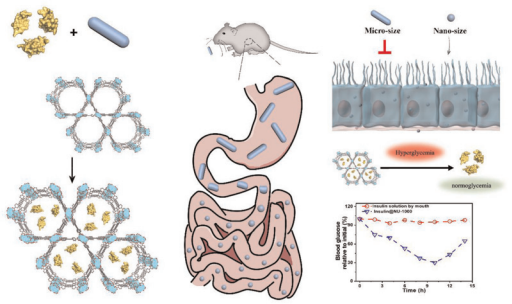

Transformation of the shape and shrinking the size of acid-resistant metal–organic frameworks (MOFs) for use as the vehicle of oral proteins

Li Yang, Jun Guo, Liwen Wang, Sicheng Tang, Ai-fang Wang, Shengwu Zheng, Zhiyong Guo* and Xingjie Zan*

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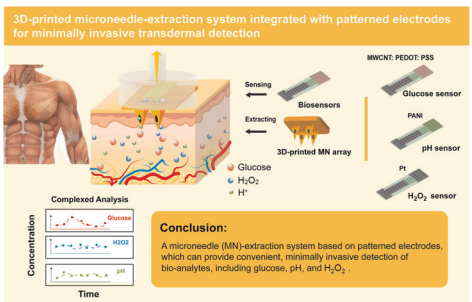

A 3D-printed microneedle extraction system integrated with patterned electrodes for minimally invasive transdermal detection

Changyuan Zhan, Fanmao Liu, Zhiran Shen, Xinshuo Huang, Shuang Huang, Xiangling Li, Jing Liu, Jiang Yang, Jiefeng Xu, Xi Xie* and Hui-Jiuan Chen*