

Biomaterials Science

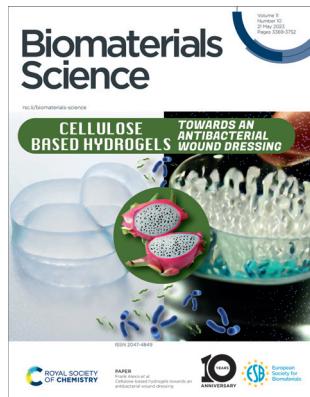
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See Frank Alexis *et al.*,
pp. 3461–3468.

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Kelong Fan *et al.*,
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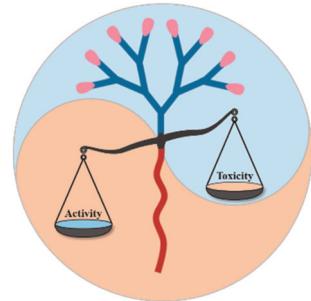
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Amphiphilic dendrimers against antibiotic resistance: light at the end of the tunnel?

Christina Galanakou, Dinesh Dhumal* and Ling Peng*

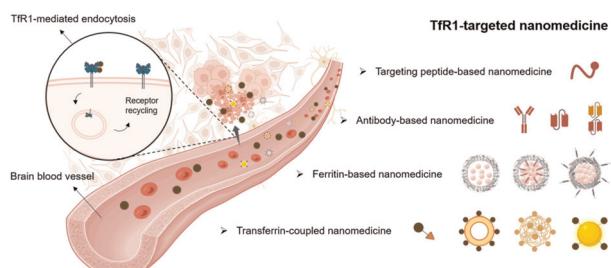


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Transferrin receptor 1 targeted nanomedicine for brain tumor therapy

Jianru Li, Zixia Zhang, Baoli Zhang, Xiyun Yan* and
Kelong Fan*



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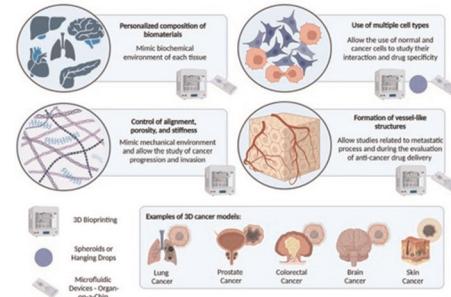


REVIEWS

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3D bioprinting complex models of cancer

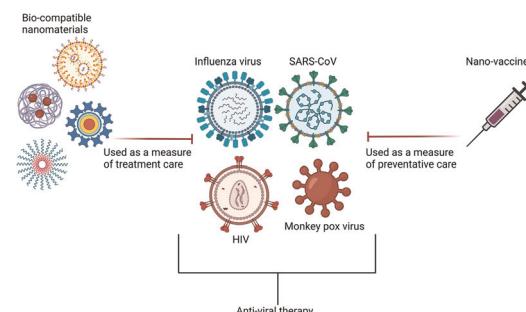
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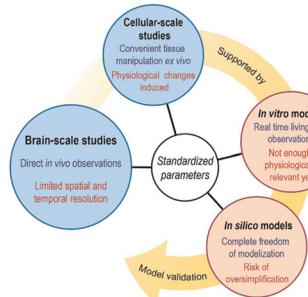
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Daniel Alcaide, Jean Cacheux, Aurélien Bancaud, Rieko Muramatsu and Yukiko T. Matsunaga*

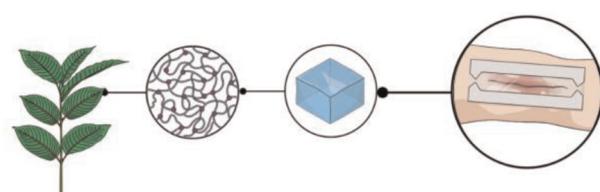


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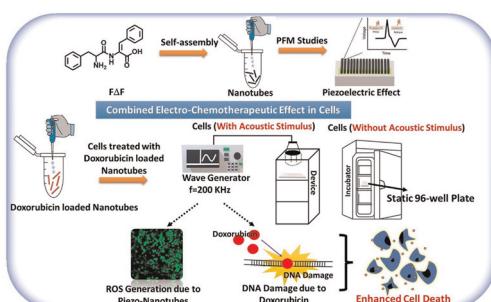
Cellulose-based hydrogels towards an antibacterial wound dressing

Esteban Guamba, Nelson Santiago Vispo, Daniel C. Whitehead, Ajaya Kumar Singh, Ralph Santos-Oliveira, Dario Niebiedzikwiat, Camilo Zamora-Ledezma and Frank Alexis*



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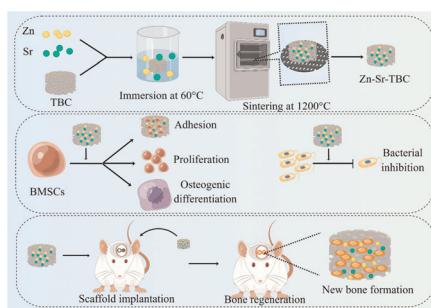
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Bio-piezoelectric phenylalanine- $\alpha\beta$ -dehydrophenylalanine nanotubes as potential modalities for combinatorial electrochemotherapy in glioma cells

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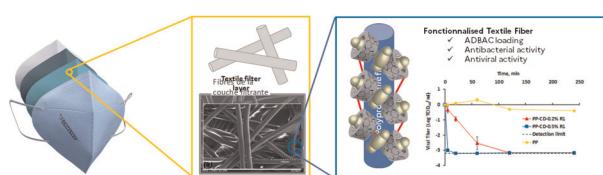
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Zn–Sr-sintered true bone ceramics enhance bone repair and regeneration

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

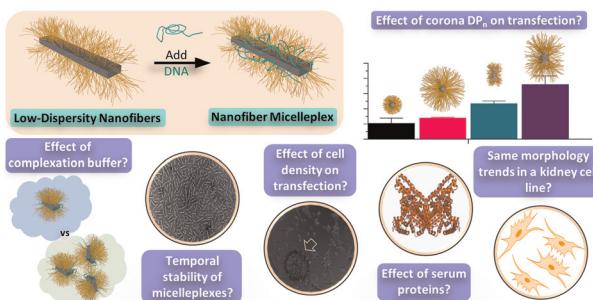
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Antiviral functionalization of a polypropylene nonwoven textile structure as a self-decontaminating layer for respiratory masks

Mickael Maton, Sarah Gabut, Christel Neut, Pascal Odou, Camille Sacareau, Anthony Pinon, Michèle Viallette, 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*

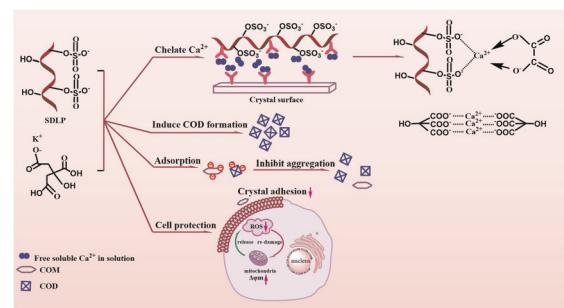


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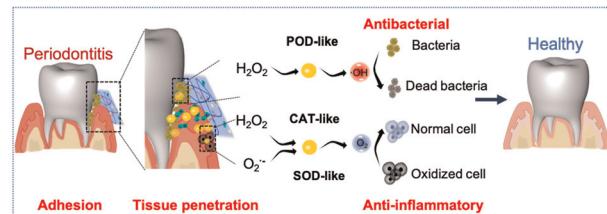
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An ionic gel incorporating copper nanodots with antibacterial and antioxidant dual functions for deep tissue penetration treatment of periodontitis in rats

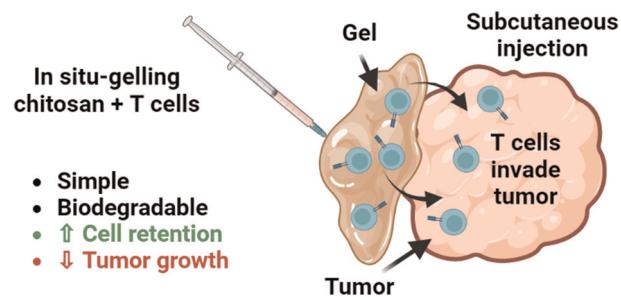
Yiru Gao, Wenxin Zhang, Rong Xue, Yang Shu* and Jianhua Wang*



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T cell-loaded injectable chitosan scaffold shows short-term efficacy in localised cancer immunotherapy in mice

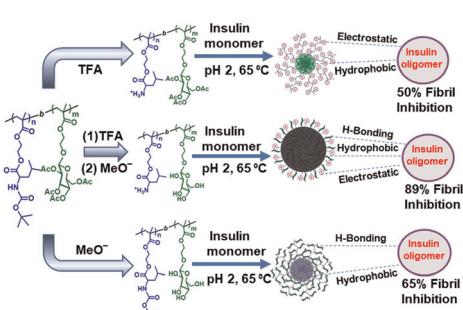
Nicholas Cunningham, Tommy Malaret, Paméla Thébault, Guillaume St-Jean, Feryel Azzi, Dominique Trudel, Réjean Lapointe and Sophie Lerouge*



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Insulin fibril inhibition using glycopolymeric nanoassemblies

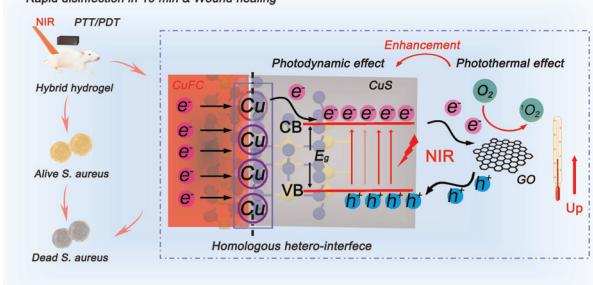
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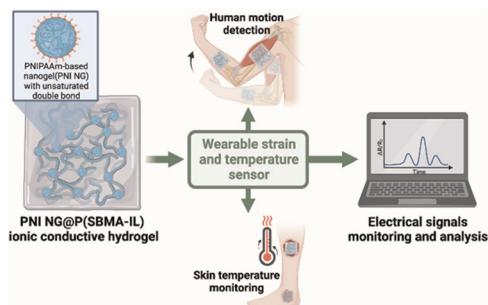
Rapid disinfection in 10 min & Wound healing



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*

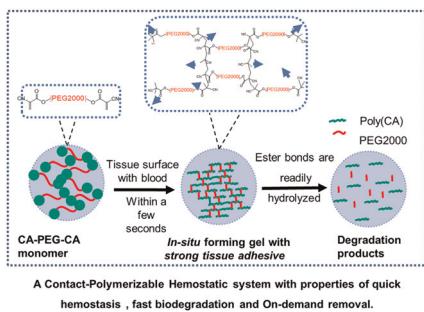
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Nanostructured ionic hydrogel with integrated conductivity, stretchability and thermal responsiveness for a high-performance strain and temperature sensor

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

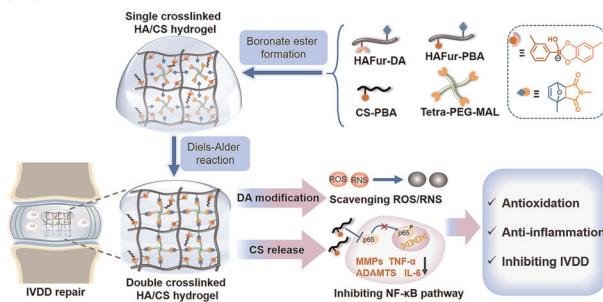
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A contact-polymerizable hemostatic powder for rapid hemostasis

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*

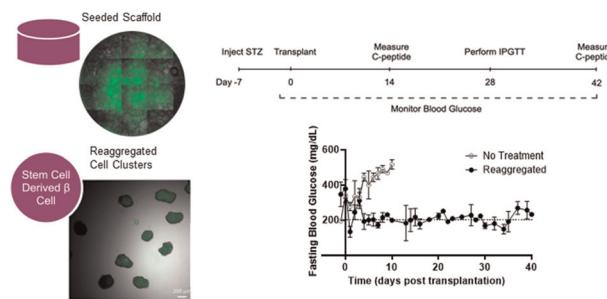


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Extrahepatic transplantation of 3D cultured stem cell-derived islet organoids on microporous scaffolds

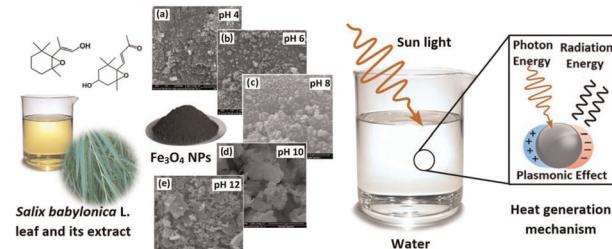
Elizabeth Bealer, Kelly Crumley, Daniel Clough, Jessica King, Maya Behrend, Connor Annulis, Feiran Li, Scott Soleimanpour and Lonnie D. Shea*



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Sunlight harvesting for heat generation inside water using biosynthesized magnetite nanoparticles

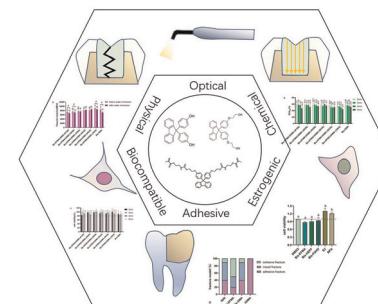
Azeez Abdullah Barzinji,* Samir Mustafa Hamad, Vinos Mushir Faris, Ahmed Fattah Abdulrahman, Mohammad Mansoob Khan* and Amir Abdulrahman Ahmad



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Low shrinkage bulk-filled dental resin composites with non-estrogenic dimethacrylate

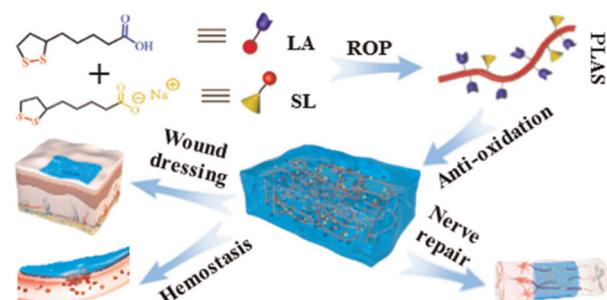
Xinyue Ma, Xiaoqing Zhang, Xiangya Huang, Fang Liu, Jingwei He* and Sui Mai*



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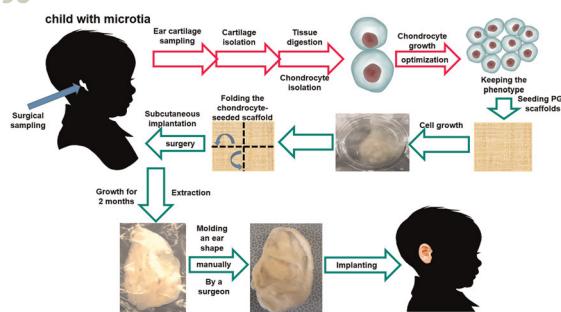
Green polymer hydrogels from a natural monomer with inherent antioxidative capability for efficient wound healing and spinal cord injury treatment

Jiaqiang Du, Fang Wang, Jiaxi Li, Yuxuan Yang, Dong Guo, Yanfeng Zhang, Aimin Yang, Xijing He* and Yilong Cheng*



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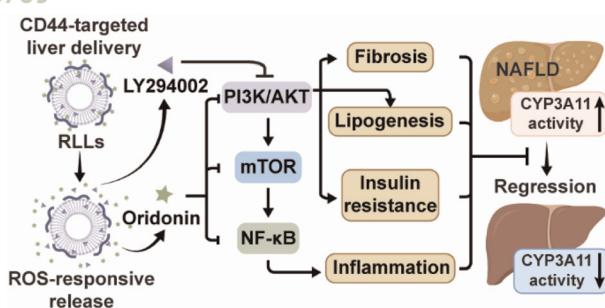
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Optimization of 3D autologous chondrocyte-seeded polyglycolic acid scaffolds to mimic human ear cartilage

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

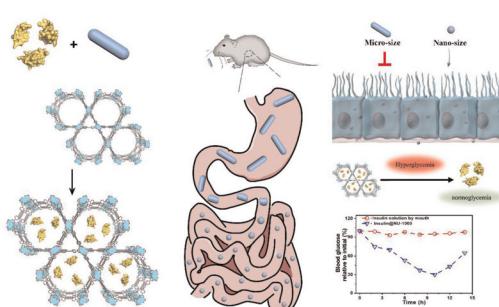
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ROS-scavenging nanomedicine for "multiple crosstalk" modulation in non-alcoholic fatty liver disease

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

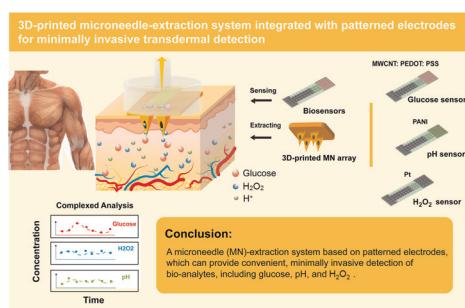
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Li Yang, Jun Guo, Liwen Wang, Sicheng Tang, Ai-fang Wang, Shengwu Zheng, Zhiyong Guo* and Xingjie Zan*

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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*

