

Journal of Materials Chemistry B

Materials for biology and medicine

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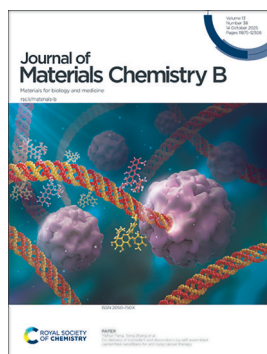
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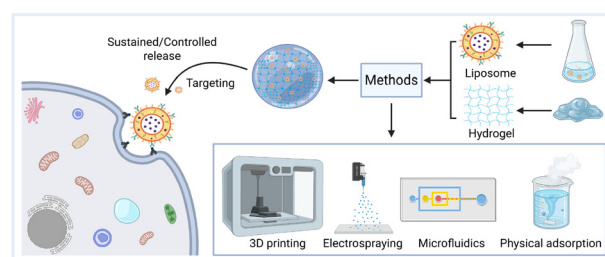
See Yishun Yang, Tong Zhang *et al.*, pp. 12073–12084. Image reproduced by permission of Yishun Yang and Tong Zhang from *J. Mater. Chem. B*, 2025, 13, 12073.

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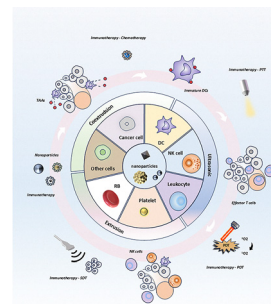
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Cell membrane biomimetic nanomaterials: a novel strategy for tumor immunotherapy

Ziyuan Jing, Wenyu Zhao, Xuezhu Wang, Guifang Chen* and Bo Tian*



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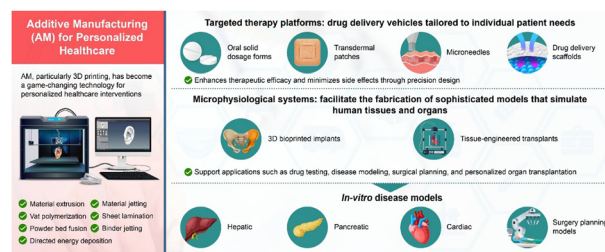


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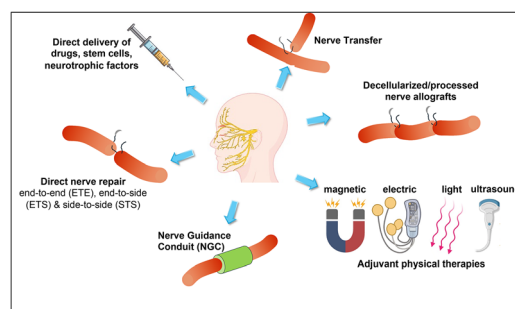
Anushikha Ghosh, Arka Sanyal, Mamta Kumari, Souvik Mukerjee, Santanu Kaity and Subhadeep Roy*



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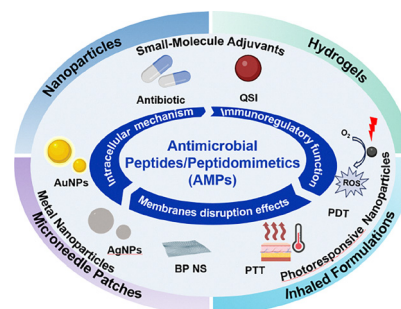
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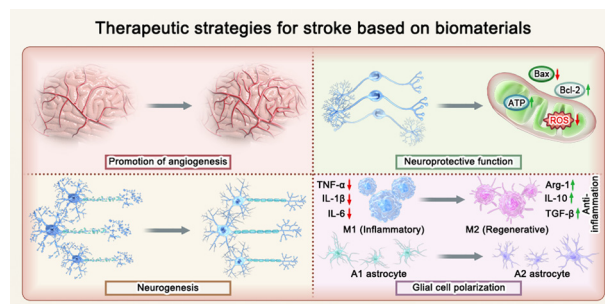
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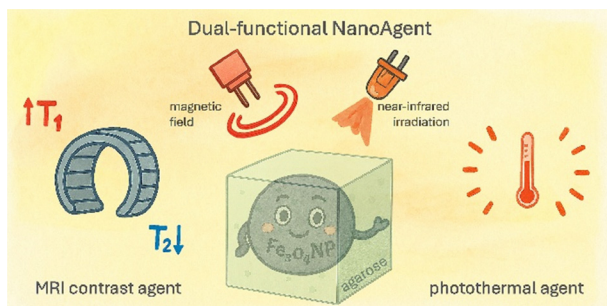
Advanced regenerative biomaterials for ischaemic stroke: a comprehensive therapeutic strategy

Shufang Niu, Xiaoyin Liu, Zepei Wu, An Zhu, Yunfan Zhang, Fuheng Hu, Kunlun Ding, Jun Wu* and Anqi Xiao*



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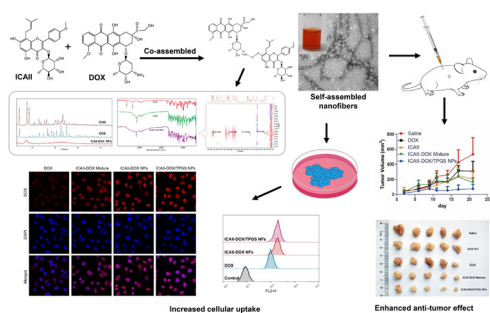
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Radu Lapusan, Andreea Balmus, Radu Fechete, Bogdan Viorel Neamtu, Jessica Ponti, Raluca Borlan* and Monica Focsan*

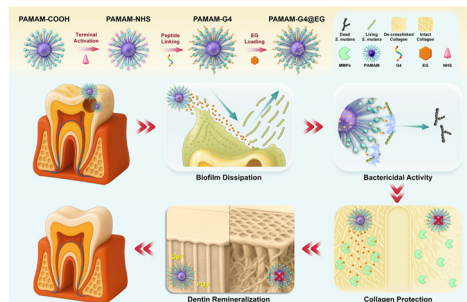
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Co-delivery of icaride II and doxorubicin by self-assembled carrier-free nanofibers for anti-lung cancer therapy

Yishun Yang,* Yue Ding and Tong Zhang*

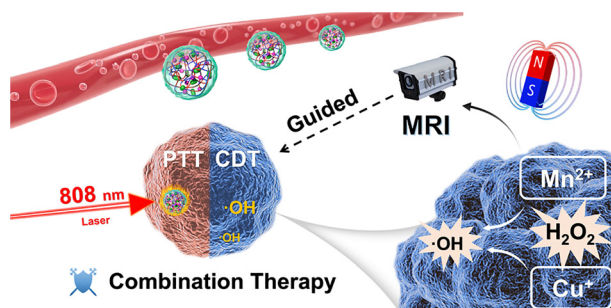
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Yijie Luo, Xiaotong Liang, Kai Wang, Tuohuan Li, Jia Hua, Dalin Wu and Zhong Cao*

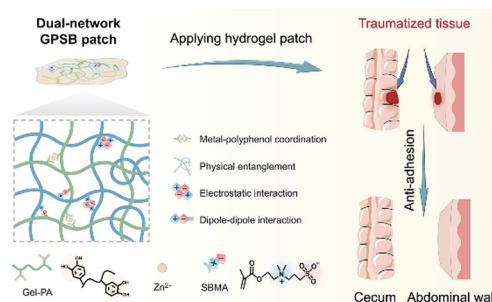


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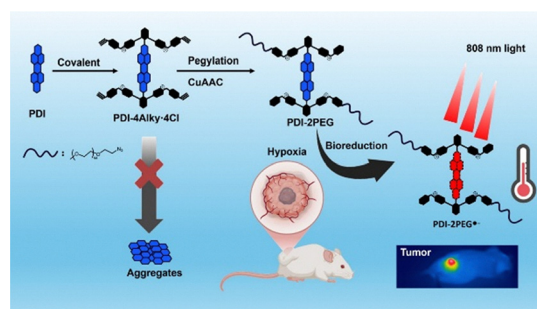
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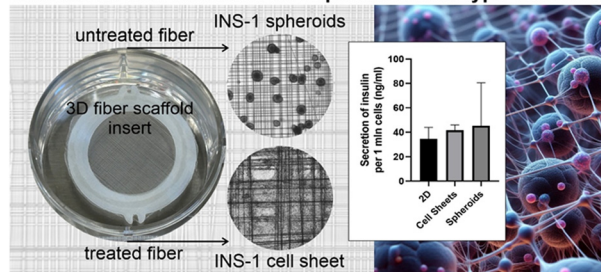


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Insulin-producing INS-1 cell cultures on biomimetic 3D scaffolds

Mikhail Parker, Nataraja Sekhar Yadavalli,* Kristina Peranidze, Eugene Boland, Vladimir Reukov and Sergiy Minko*

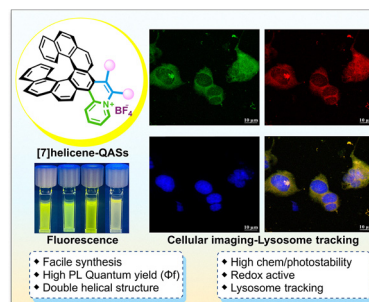
Tunable 3D fiber scaffolds for implants to treat type 1 diabetes



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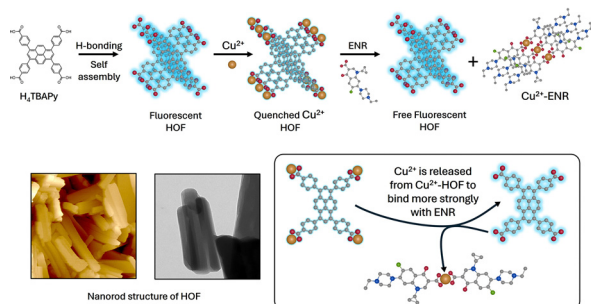
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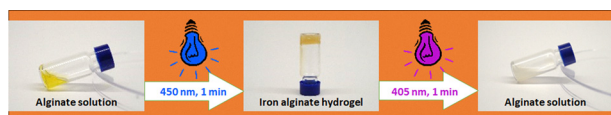
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Selective detection of an antibiotic using hydrogen-bonded organic frameworks (HOFs): insights from DFT mechanistic analysis

Malabika Ghosh, Uddipan Dasgupta, Prashanth Venkatesan, Manas Kumar Sarangi, Rupali Gangopadhyay,* Ruy-An Doong* and Ankan Dutta Chowdhury*

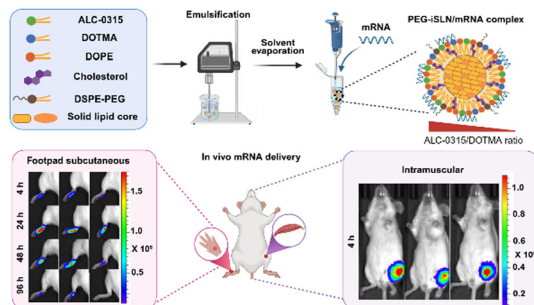
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Reversible photo-induced formation of iron alginate hydrogels

Alexey S. Sokolov,* Arkady S. Abdurashitov, Pavel I. Proshin and Gleb B. Sukhorukov

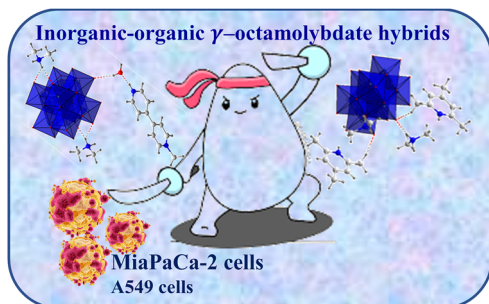
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Enhanced mRNA and pDNA delivery via PEGylated solid lipid nanoparticles with an optimally balanced ionizable/cationic lipid content

Nipuni Maniyamgama, Ki Hyun Bae, Jialing Lee, James Hoi Po Hui and Yi Yan Yang*

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Inorganic-organic γ -octamolybdate hybrids for targeted anticancer applications against MiaPaCa-2 and A549 cells

Ankita Pardiwala, Nandini Bajaj, Arup Kumar Ghosh, Deepika Sharma,* Komal Kumar Jangir* and Ritambhara Jangir*

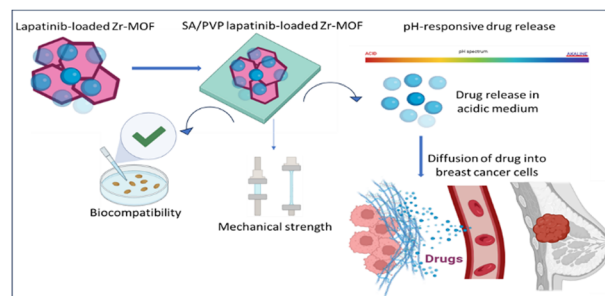


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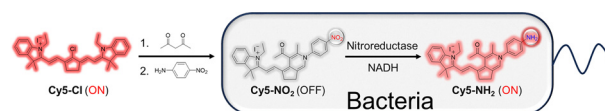
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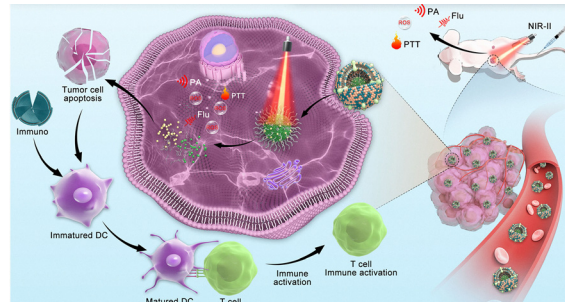
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Biomimetic semiconducting polymer dots for dual targeted NIR-II phototheranostic and multimodal coordinated immunostimulatory therapy

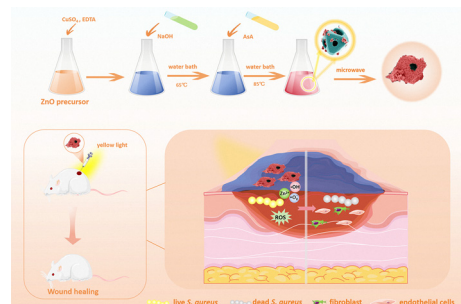
Jintong Guo, Xianyuan Wei, Ye Liu, Yun Li, Pu Chun Ke and Zhen Yuan*



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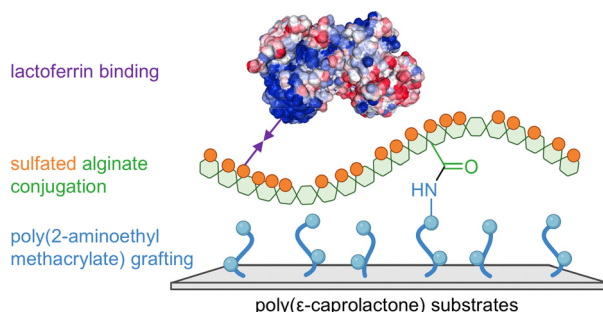
Engineered hollow Cu₂O@ZnO p–n heterojunction nanocomposites for synergistic photocatalytic disinfection and tissue regeneration

Yu Fen, Miao Xinxin, Xiao Yang, Deng Jianjian, Deng Dan, Cheng Xinyan, Ding Rui and Wang Xiaolei*



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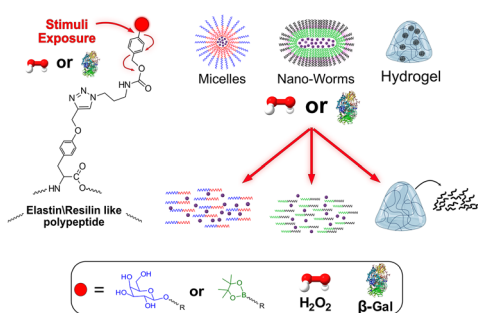
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Surface modification of polycaprolactone with sulfated alginate for enhanced binding of a heparin-binding protein

Alexandra L. Mutch, Jiankun Yang, A. Anitha, Sašo Ivanovski, Marco van de Weert and Lisbeth Grøndahl*

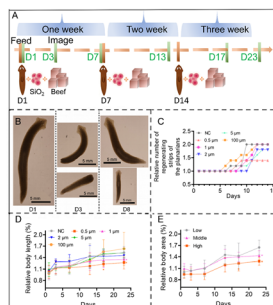
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Imparting new stimuli-responsive behaviors in protein-polymers *via* self-immolative linker conjugation

Federico Kaufman, Maya David, Michal Zaiden, Doron Shabat and Miriam Amiram*

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Submicron silica particles disrupt planarian homeostasis: bridging bioaccumulation, oxidative stress, and growth-regeneration trade-offs

Maonan Wang, Can Jiang, Shuojie Li, Weiting Chen, Jingting Zhang, Yongqian Zhao, Ruixin Feng, Na Han, Guang Shu, Xiang Li* and Gang Yin*

