

# Journal of Materials Chemistry B

Materials for biology and medicine

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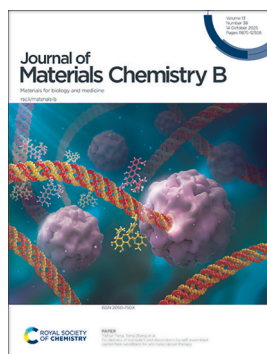
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### Inside cover

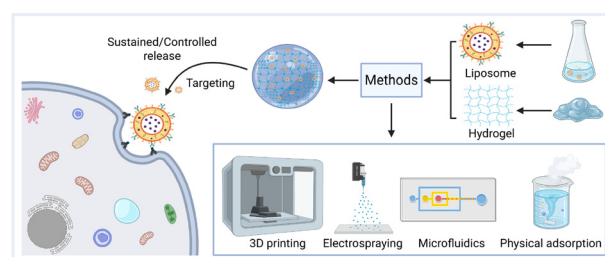
See Yishun Yang, Tong Zhang *et al.*, pp. 12073–12084. Image reproduced by permission of Yishun Yang and Tong Zhang from *J. Mater. Chem. B*, 2025, **13**, 12073.

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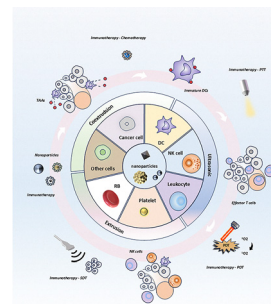
Shuanghong Yang, Ze Li, Sicheng Li, Jinpeng Zhang, Jinjian Huang,\* Jianan Ren\* and Xiuwen Wu\*



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



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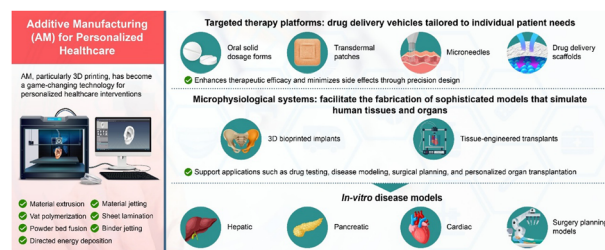


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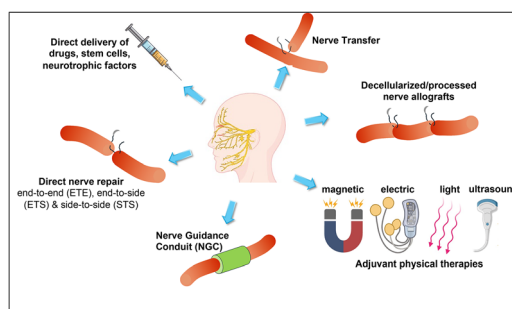
Anushikha Ghosh, Arka Sanyal, Mamta Kumari, Souvik Mukerjee, Santanu Kaity and Subhadeep Roy\*



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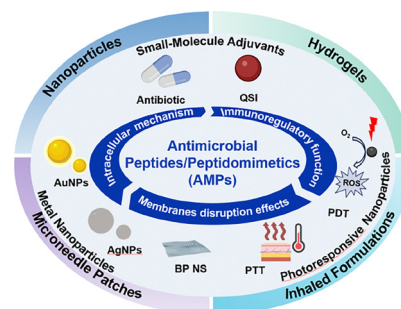
Suranji Wijekoon, Allen Zennifer, Sai Sadhananth Srinivasan, Sama Abdulmalik, Bin Duan and Sangamesh G. Kumbar\*



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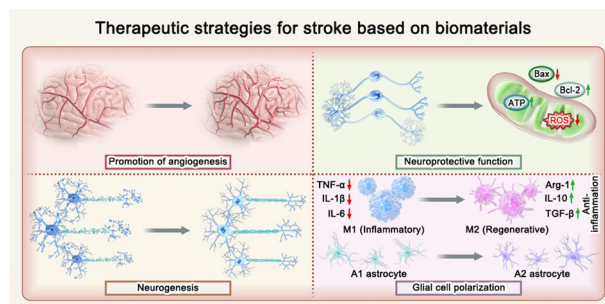
Jiaying Chi, Qiaoni Lin, Bingrui Jin, Jiayu Ou, Ling Jiang, Xinyu Yang, Jialiang Guo, Tingting Peng\* and Chao Lu\*



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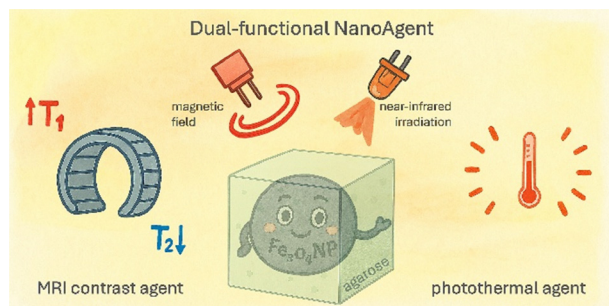
## Advanced regenerative biomaterials for ischaemic stroke: a comprehensive therapeutic strategy

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



## PAPERS

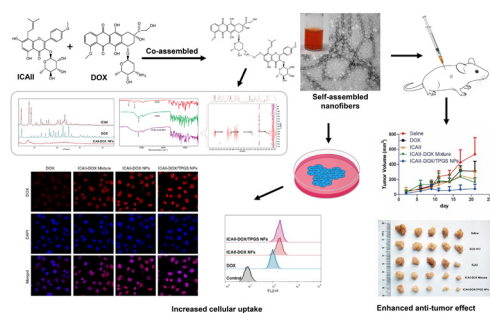
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### From fundamentals to applications: magnetic nanoparticles for MRI imaging and NIR-induced thermal activation in tissue-mimicking environments

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

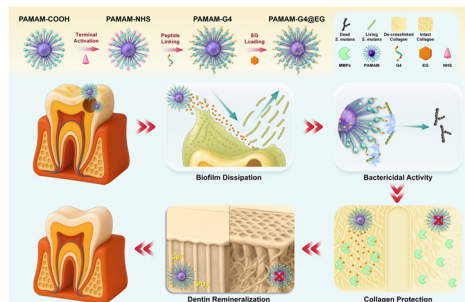
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### Co-delivery of icaride II and doxorubicin by self-assembled carrier-free nanofibers for anti-lung cancer therapy

Yishun Yang,\* Yue Ding and Tong Zhang\*

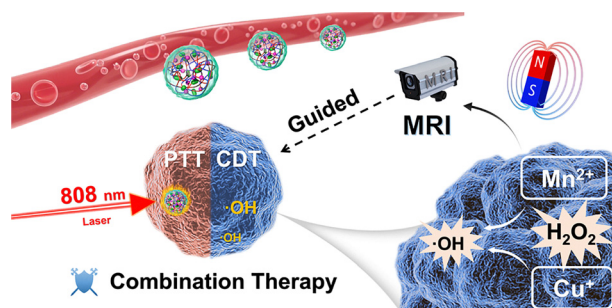
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### Multifunctional PAMAM nanoparticles with sequential antimicrobial-reminerization therapy for dentin caries management

Mingxiao Liu, Jiahe Li, Ziyu Wang, Miao Chen, Jianru Yi,\* Zhihe Zhao\* and Kunpeng Liang\*

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### Copper-manganese hybrid nanogel for MRI-guided combined photothermal and chemodynamic tumor theranostics

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



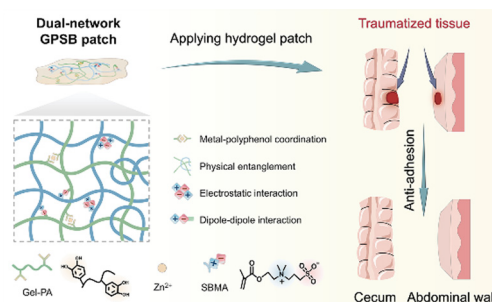


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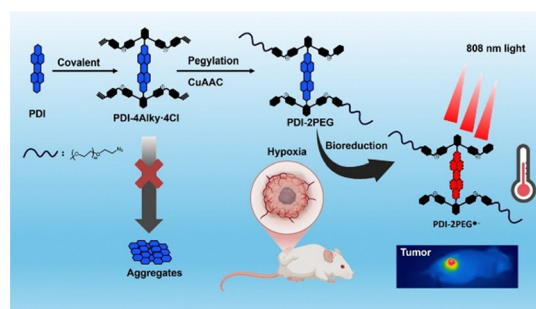
Yangrui Du, Li Ma, Shiyang Lang, Shan Liu, Kang Dai, Kaijun Li, Qian Wang\* and Gongyan Liu\*



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Kecheng Huang, Xiangkun Cui, Miaomiao Zhen, Xueying Zhang, Fei Yang,\* Wei Wei and Yanqing Xu\*

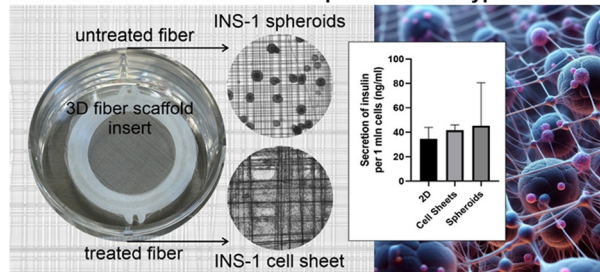


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## Insulin-producing INS-1 cell cultures on biomimetic 3D scaffolds

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

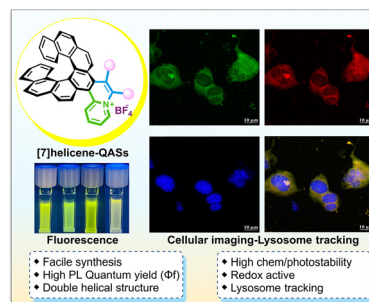
### Tunable 3D fiber scaffolds for implants to treat type 1 diabetes



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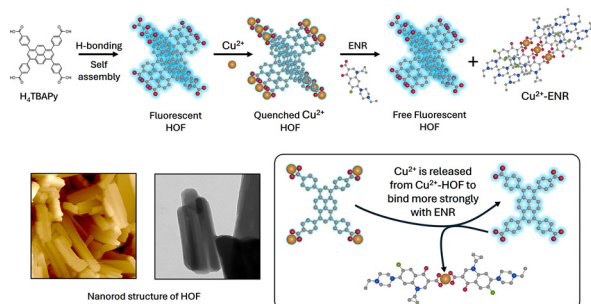
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Deepshikha, Sanjay S. Bisht, Nand Lal, Puja Singh, Jonaid A. Malik, Javed N. Agrewala and Aslam C. Shaikh\*



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

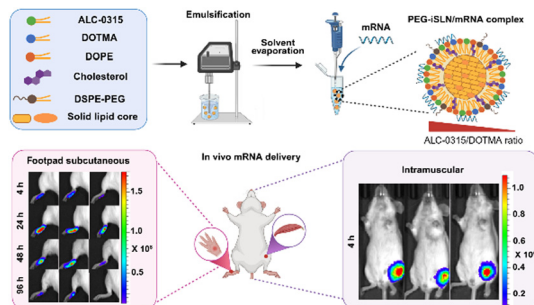
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### Reversible photo-induced formation of iron alginate hydrogels

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

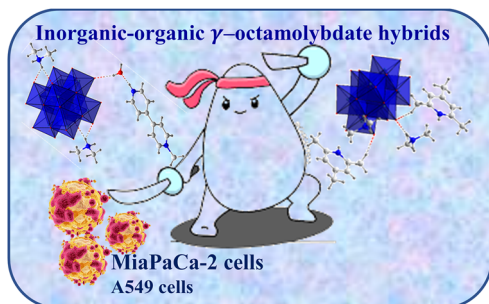
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### Enhanced mRNA and pDNA delivery via PEGylated solid lipid nanoparticles with an optimally balanced ionizable/cationic lipid content

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

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

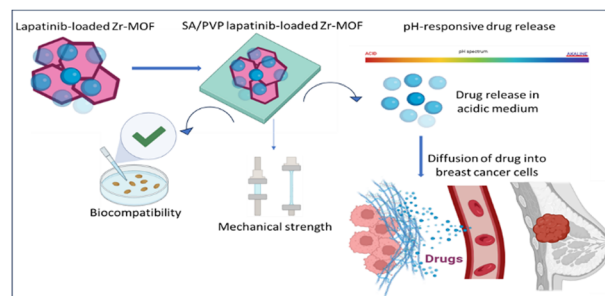


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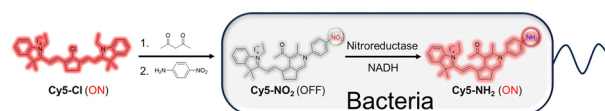
Sneha Rajeev, Naja Hasoon K T and Unnikrishnan Gopalakrishna Panicker\*



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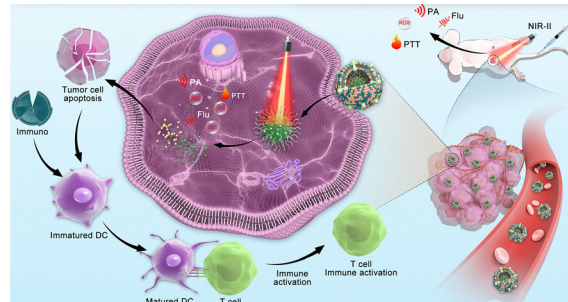
Jiqiang Liu, Abdulkadir Zakari Abdulkadir, Siye Wu, Yonghui Gao, Baraka Joseph Butuyuyu, Keith Man-Chung Wong, Chi-Sing Lee, Lintao Cai, Jihong Chen and Pengfei Zhang\*



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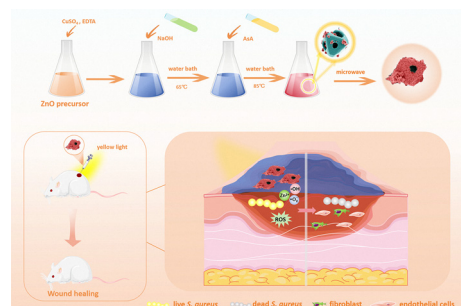
Jintong Guo, Xianyuan Wei, Ye Liu, Yun Li, Pu Chun Ke and Zhen Yuan\*



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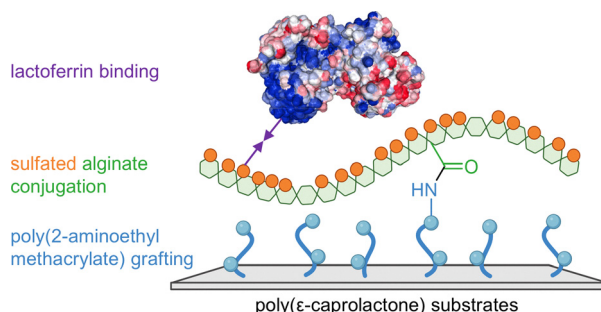
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Yu Fen, Miao Xinxin, Xiao Yang, Deng Jianjian, Deng Dan, Cheng Xinyan, Ding Rui and Wang Xiaolei\*



## PAPERS

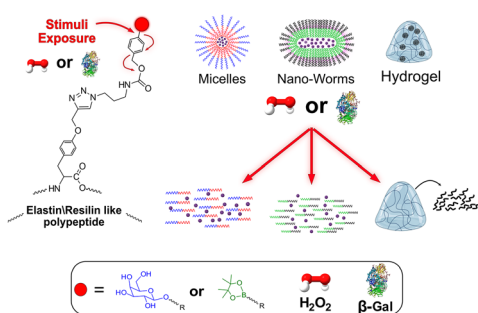
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Alexandra L. Mutch, Jiankun Yang, A. Anitha, Sašo Ivanovski, Marco van de Weert and Lisbeth Grøndahl\*

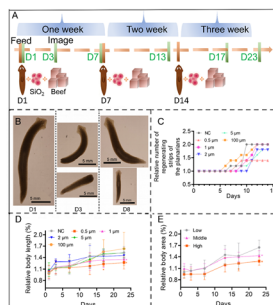
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Federico Kaufman, Maya David, Michal Zaiden, Doron Shabat and Miriam Amiram\*

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

