

# Biomaterials Science

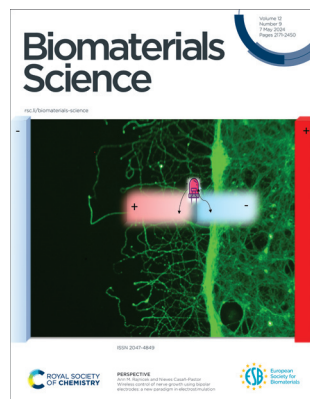
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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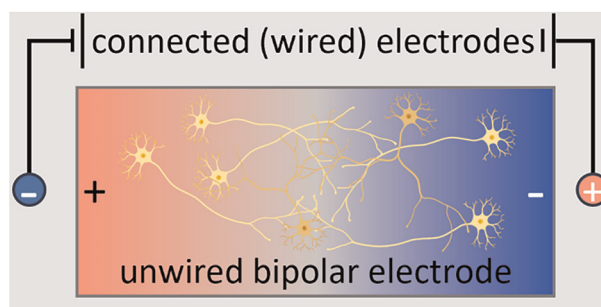
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## PERSPECTIVE

2180

### Wireless control of nerve growth using bipolar electrodes: a new paradigm in electrostimulation

Ann M. Rajnicek and Nieves Casañ-Pastor\*

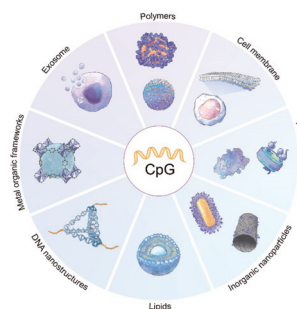


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### Emerging nanoparticle platforms for CpG oligonucleotide delivery

Mingqiang Li, Haochen Yao, Ke Yi, Yeh-Hsing Lao, Dan Shao and Yu Tao\*



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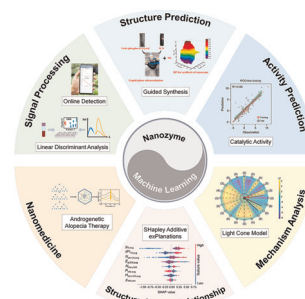


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**Machine learning in nanozymes: from design to application**

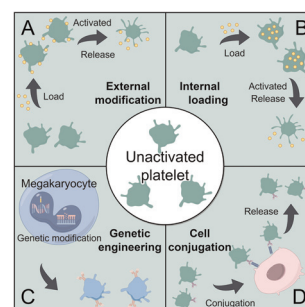
Yubo Gao, Zhicheng Zhu, Zhen Chen, Meng Guo, Yiqing Zhang, Lina Wang\* and Zhiling Zhu\*



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**Engineering unactivated platelets for targeted drug delivery**

Meng Wu, Yan Shi, Jiaxuan Zhao and Ming Kong\*

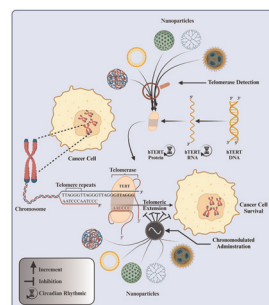


## MINIREVIEW

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**Telomerase: a nexus between cancer nanotherapy and circadian rhythm**

Pramit Kumar Ghosh, Maddila Jagapathi Rao, Chandra Lekha Putta, Sandipan Ray\* and Aravind Kumar Rengan\*

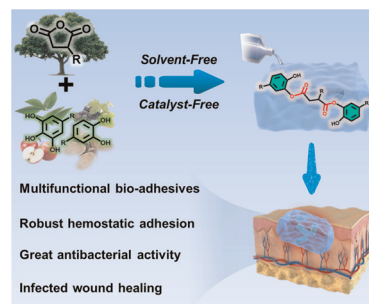


## PAPERS

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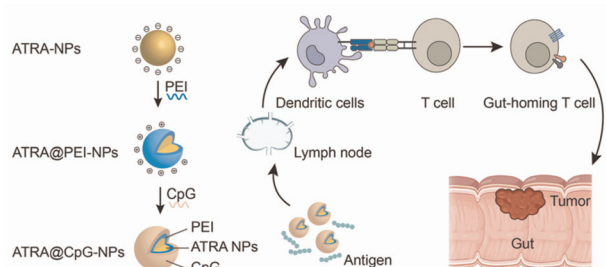
**Natural polyphenolic antibacterial bio-adhesives for infected wound healing**

Hengjie Zhang, Yuqi Feng, Tianyou Wang, Jianhua Zhang, Yuxian Song, Jing Zhang, Yiwen Li, Dingzi Zhou\* and Zhipeng Gu\*



## PAPERS

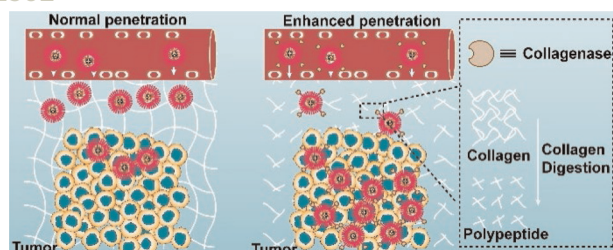
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### Layer-by-layer nanoparticle encapsulating all-trans retinoic acid and CpG as a mucosal adjuvant targeting colorectal cancer

Shiwei Mi, Wei Li, Yixing Wen, Chen Yang, Shuai Liu, Jingjiao Li, Xingdi Cheng, Yuanyuan Zhao, Haonan Huo, Haowei Zu and Xueguang Lu\*

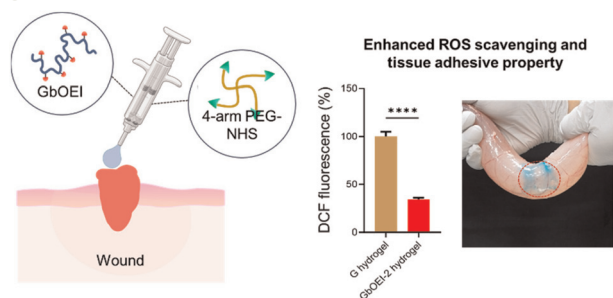
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### Enhancing the tumor penetration of multiarm polymers by collagenase modification

Bo Yu, Weijie Wang, Yongmin Zhang, Ying Sun, Cheng Li, Qian Liu, Xu Zhen,\* Xiqun Jiang\* and Wei Wu\*

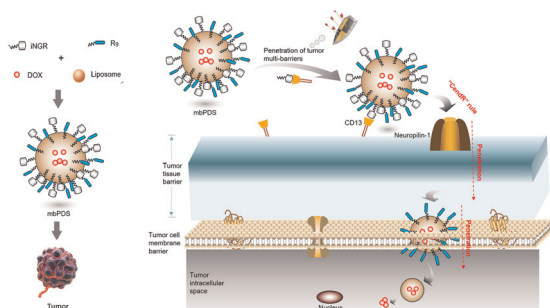
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### Enhanced ROS scavenging and tissue adhesive abilities in injectable hydrogels by protein modification with oligoethyleneimine

Debabrata Palai, Miho Ohta, Iga Cetnar, Tetsushi Taguchi\* and Akihiro Nishiguchi\*

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### Multibarrier-penetrating drug delivery systems for deep tumor therapy based on synergistic penetration strategy

Hui-Feng Zhang, Huan Yu, Shuang-Xue Pan, Chuang Zhang, Ying-Hui Ma, Yan-Fei Zhang, Li-Li Zuo, Cheng-Yi Hao, Xiao-Ying Lin, Hao Geng, Di Wu, Shang-Qiang Mu, Wei-Lun Yu and Nian-Qiu Shi\*

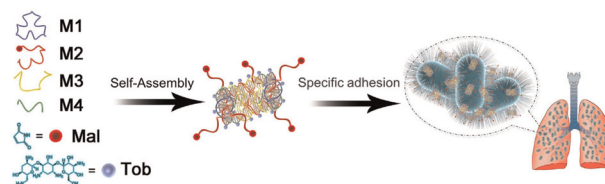


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### Tobramycin-mediated self-assembly of DNA nanostructures for targeted treatment of *Pseudomonas aeruginosa*-infected lung inflammation

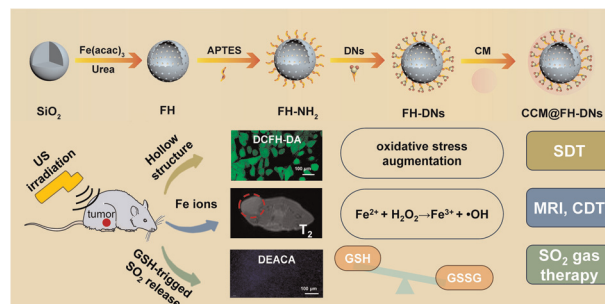
Yuhang Xu, Qian Liu, Bin Wang, Quan Li, Yue Chen, Yao Yang, Zhihao Zhu, Daohui Gong, Chuan Zhang,\* Guansong Wang\* and Hang Qian\*



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### Glutathione-triggered release of SO<sub>2</sub> gas to augment oxidative stress for enhanced chemodynamic and sonodynamic therapy

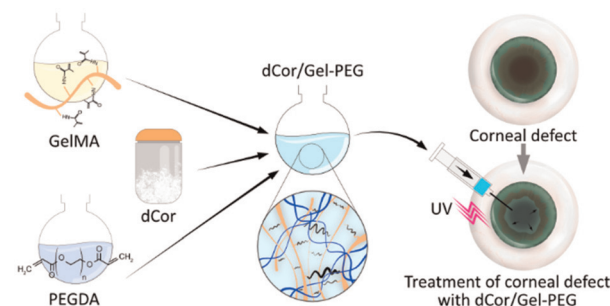
Ya Tian, Pei Li, Likai Wang, Xueli Ye, Zhonghuan Qu, Juan Mou,\* Shiping Yang and Huixia Wu\*



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### ECM-based bioadhesive hydrogel for sutureless repair of deep anterior corneal defects

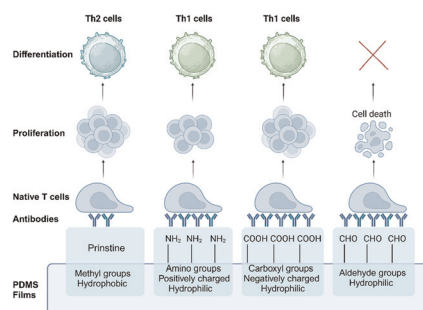
Safieh Borouman, Faraz Sigaroodi, Seyed Mohsen Ahmadi Tafti, Keyvan Khoshmaram, Masoud Soleimani and Mohammad-Mehdi Khani\*



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### Surface chemical modification of poly(dimethylsiloxane) for stabilizing antibody immobilization and T cell cultures

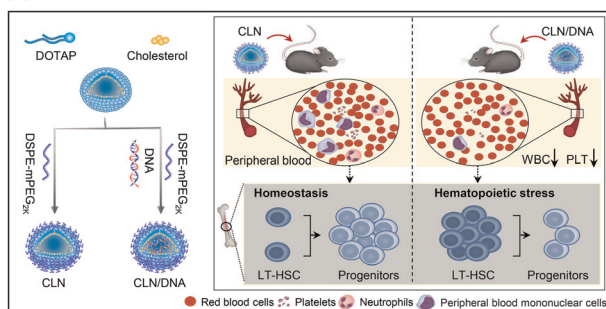
Qiongjiao Zeng, Bowen Xu, Cheng Qian, Nan Li,\* Zhenhong Guo\* and Shuqing Wu\*





## PAPERS

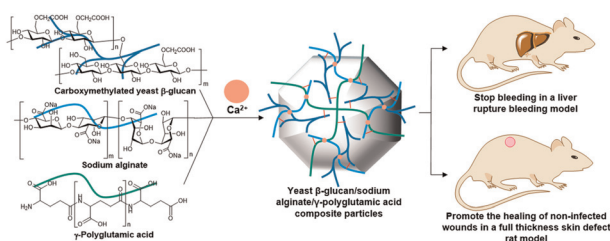
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### Impacts of cationic lipid–DNA complexes on immune cells and hematopoietic cells *in vivo*

Xiuxiu Cong, Huizhu Tan, Yue Lv, Kuirong Mao, Yanbao Xin, Jialiang Wang, Xiandi Meng, Meng Guan, Haorui Wang, Yong-Guang Yang and Tianmeng Sun\*

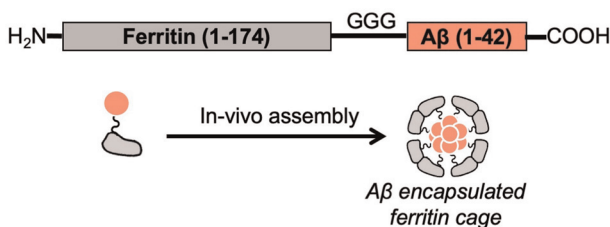
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### Fabrication of yeast $\beta$ -glucan/sodium alginate/ $\gamma$ -polyglutamic acid composite particles for hemostasis and wound healing

Qinglin Zou, Hongdong Duan, Shimin Fang, Wenlong Sheng, Xiaobin Li, Rostyslav Stoika, Nataliya Finiuk, Rostyslav Panchuk, Kechun Liu\* and Lizhen Wang\*

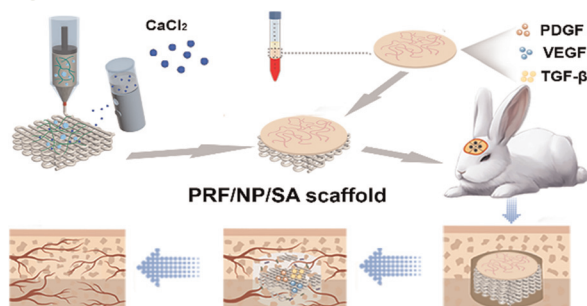
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### Fusion of amyloid beta with ferritin yields an isolated oligomeric beta-sheet-rich aggregate inside the ferritin cage

Basudev Maity, Shiori Kameyama, Jiaxin Tian, Thuc Toan Pham, Satoshi Abe, Eri Chatani, Kazuyoshi Murata and Takafumi Ueno\*

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### 3D printing nacre powder/sodium alginate scaffold loaded with PRF promotes bone tissue repair and regeneration

Bin Liu, Cewen Hu, Xinyue Huang, Kaiqi Qin, Lei Wang, Zhilong Wang, Jiachen Liang, Fuqiang Xie\* and Zengjie Fan\*

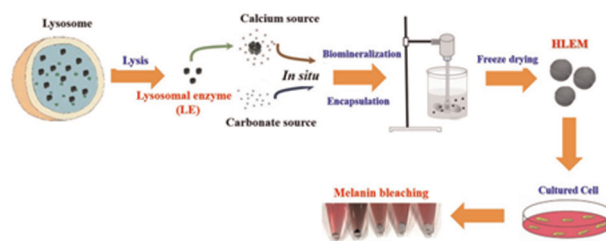


## PAPERS

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### Hybrid protein microspheres and their responsive release behaviors and inhibitory effects on melanin synthesis

Ee Taek Hwang,\* Yeahwa Yoon, Ka Ram Kim, Chan Hee Lee, Kyung Chan Jeon, Ji Ho Min, Jae Won Lee and Jangyong Kim



## CORRECTIONS

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### Correction: ECM-based bioadhesive hydrogel for sutureless repair of deep anterior corneal defects

Safieh Boroumand, Faraz Sigaroodi, Seyed Mohsen Ahmadi Tafti, Keyvan Khoshmaram, Masoud Soleimani and Mohammad-Mehdi Khani\*

2445

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Ee Taek Hwang,\* Yeahwa Yoon, Ka Ram Kim, Chan Hee Lee, Kyung Chan Jeon, Ji Ho Min, Jae Won Lee and Jangyong Kim

2446

### Correction: Clodronate-nintedanib-loaded exosome–liposome hybridization enhances the liver fibrosis therapy by inhibiting Kupffer cell activity

Keqin Ji, Mingrui Fan, Dong Huang, Lingna Sun, Bingqin Li, Ruoting Xu, Jiajing Zhang, Xuan Shao and Yanzuo Chen\*

