

# Biomaterials Science

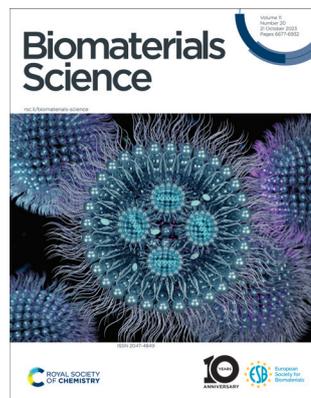
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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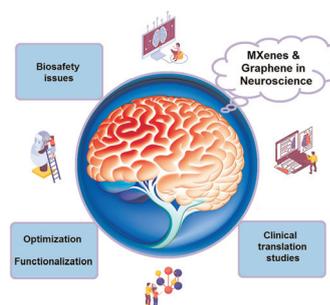


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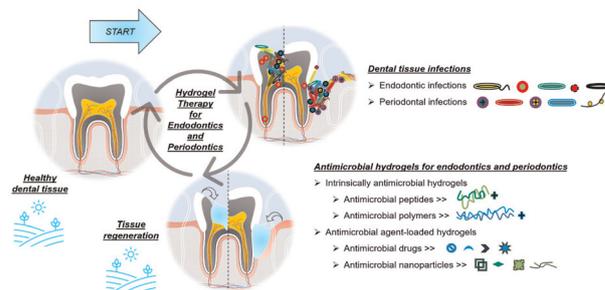


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## Advances in antimicrobial hydrogels for dental tissue engineering: regenerative strategies for endodontics and periodontics

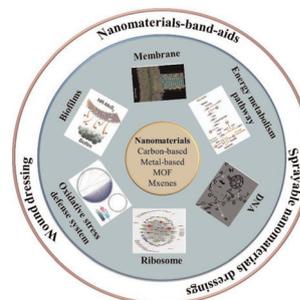
Deniz Atila\* and Vignesh Kumaravel\*



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Wanfeng Wu, Mengjiao Duan, Shuxuan Shao, Fanxing Meng, Yanan Qin\* and Minwei Zhang\*

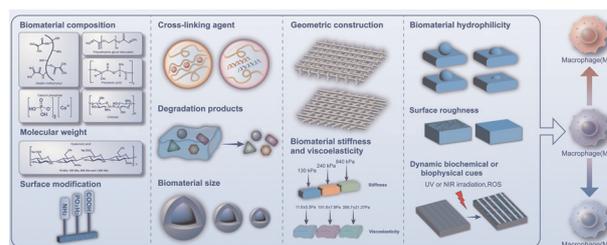


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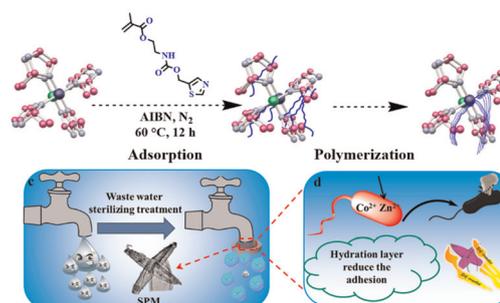
Fan Ding, Xinrui Li, Xu Chen, Yue Ma\* and Guoqing Pan\*



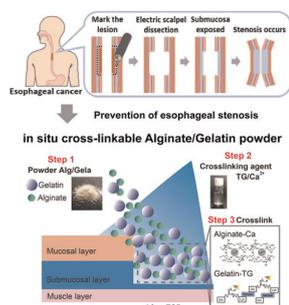
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## Construction of self-propelled micromotor for "hunting bacteria"

Yaping Zhang, Duoxin Zhang, Yuanze Geng, Yufeng He, Pengfei Song and Rongmin Wang\*



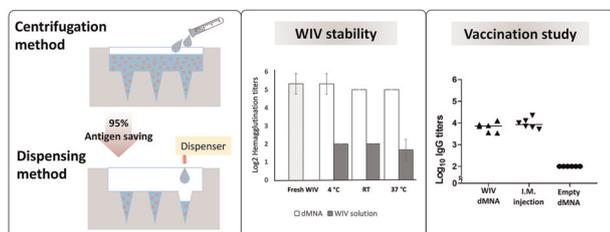
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Qi Pan, Yosuke Tsuji, Athira Sreedevi Madhavikutty, Seiichi Ohta, Ayano Fujisawa, Natsuko F. Inagaki, Mitsuhiro Fujishiro and Taichi Ito\*

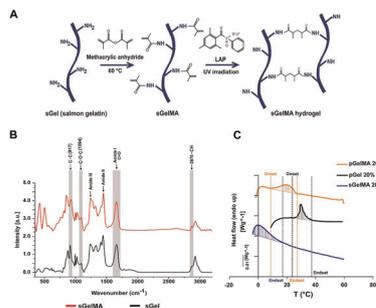
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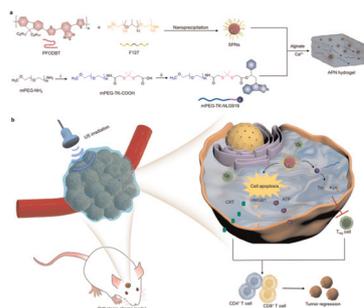
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### An advanced biphasic porous and injectable scaffold displays a fine balance between mechanical strength and remodeling capabilities essential for cartilage regeneration

Gabriela Zavala, Sergio M. Viafara-García, Javier Novoa, Carmen Hidalgo, Ingrid Contardo, Paulo Díaz-Calderón, Wilfredo Alejandro González-Arriagada, Maroun Khoury and Juan Pablo Acevedo\*

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### Prodrug-loaded semiconducting polymer hydrogels for deep-tissue sono-immunotherapy of orthotopic glioblastoma

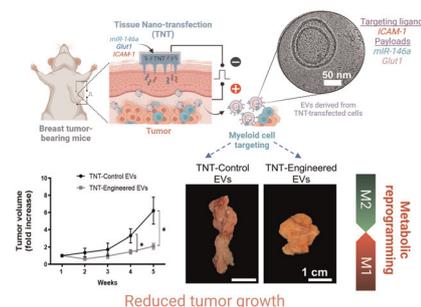
Liyun Zhu, Xing Wang, Mengbin Ding, Ningyue Yu, Yijing Zhang, Hongwei Wu,\* Qin Zhang,\* Jiansheng Liu\* and Jingchao Li\*



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### ICAM-1-decorated extracellular vesicles loaded with miR-146a and *Glut1* drive immunomodulation and hinder tumor progression in a murine model of breast cancer

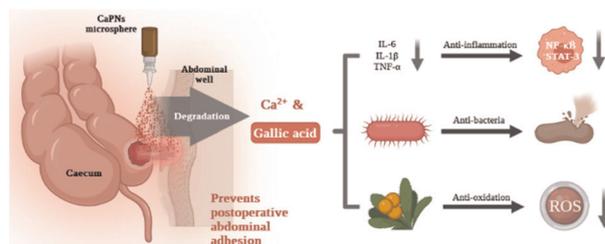
S. Duarte-Sanmiguel, A. I. Salazar-Puerta, A. Panic, D. Dodd, C. Francis, D. Alzate-Correa, L. Ortega-Pineda, L. Lemmerman, M. A. Rincon-Benavides, K. Dathathreya, W. Lawrence, N. Ott, J. Zhang, B. Deng, S. Wang, S. P. Santander, D. W. McComb, E. Reategui, A. F. Palmer, W. E. Carson, N. Higuera-Castro\* and D. Gallego-Perez\*



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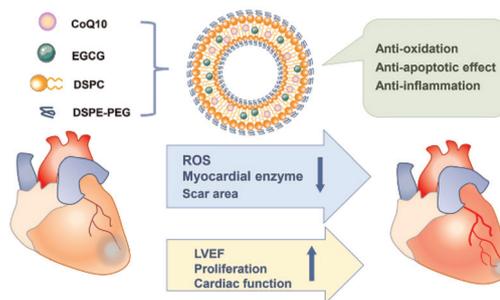
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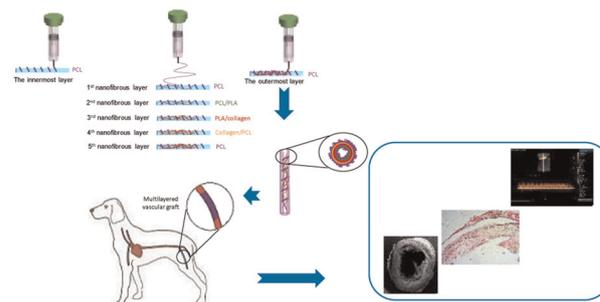
Wenrui Lei, Jie Yang, Junwei Wang, Zezhou Xiao, Pengyu Zhou, Shaoyi Zheng and Peng Zhu\*



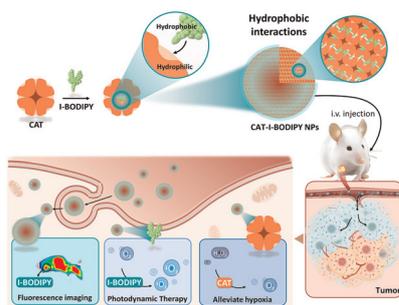
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### Preclinical *in vivo* assessment of a cell-free multi-layered scaffold prepared by 3D printing and electrospinning for small-diameter blood vessel tissue engineering in a canine model

Mehdi Atari, Abbas Saroukhani, Maziar Manshaei, Peiman Bateni, Anousheh Zargar kharazi, Elham Vatankhah\* and Shaghayegh Haghjooy Javanmard\*



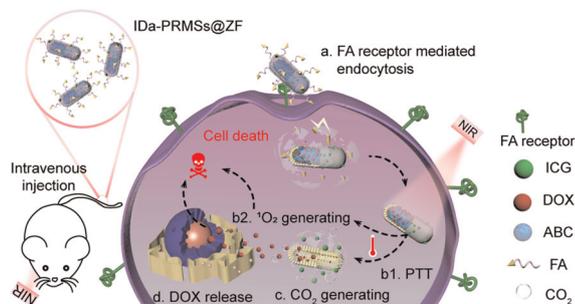
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### Multifunctional protein-based self-assembled nanoplateform: overcoming hypoxic tumor microenvironment for enhanced imaging-guided photodynamic therapy

Min Li, Ziyi Cheng, Heng Liu, Kun Dou, Huan Xiao,\*  
Linlu Zhao\* and Fabio Yu\*

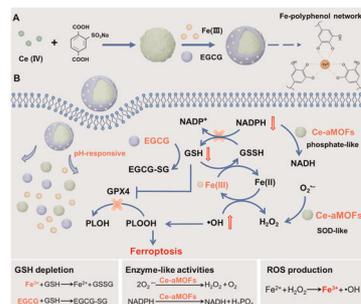
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Wei Zhang, Lu Chen, Xianbin Zhang, Peng Gong,  
Xiyu Wang, Zhiying Xu, Ganyu Nie and Lu Xu\*

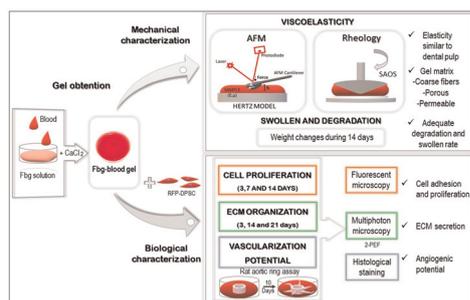
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Wen-Xin Zhang, You Li, Di Ke, Yi-Ru Gao, Teng Fei,  
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Bernard Levallois and Ivan Vladislavov Panayotov

