

Biomaterials Science

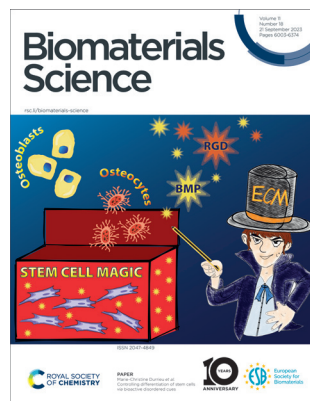
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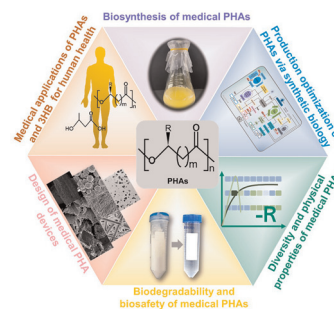
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Polyhydroxyalkanoates: the natural biopolyester for future medical innovations

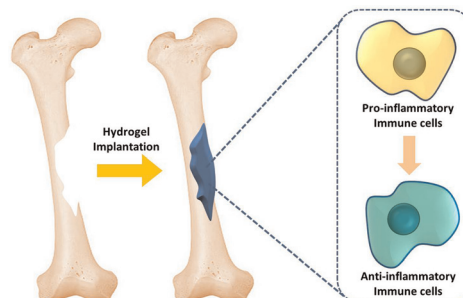
Zi-Wei Ren, Ze-Yu Wang, Yan-Wen Ding, Jin-Wei Dao, Hao-Ru Li, Xue Ma, Xin-Yu Yang, Zi-Qi Zhou, Jia-Xuan Liu, Chen-Hui Mi, Zhe-Chen Gao, Hua Pei* and Dai-Xu Wei*



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Immune homeostasis modulation by hydrogel-guided delivery systems: a tool for accelerated bone regeneration

Bobin Mi, Yuan Xiong, Kangkang Zha, Faqi Cao, Wu Zhou, Samin Abbaszadeh, Lizhi Ouyang, Yuheng Liao, Weixian Hu, Guandong Dai, Zhiming Zhao, Qian Feng,* Mohammad-Ali Shahbazi* and Guohui Liu*



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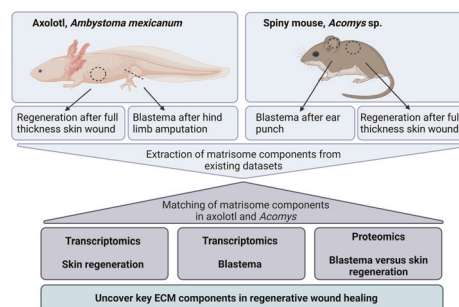


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Matrisomal components involved in regenerative wound healing in axolotl and *Acomys*: implications for biomaterial development

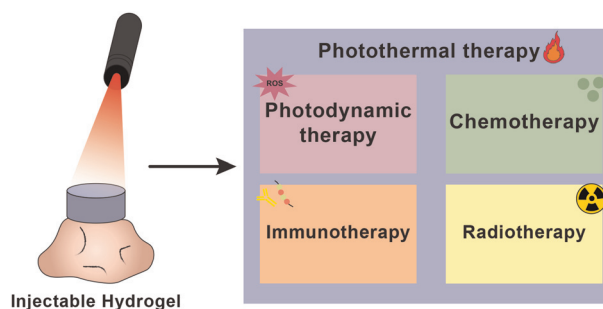
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Rita Lima-Sousa, Cátia G. Alves, Bruna L. Melo, Francisco J. P. Costa, Micaela Nave, André F. Moreira, António G. Mendonça, Ilídio J. Correia* and Duarte de Melo-Diogo*

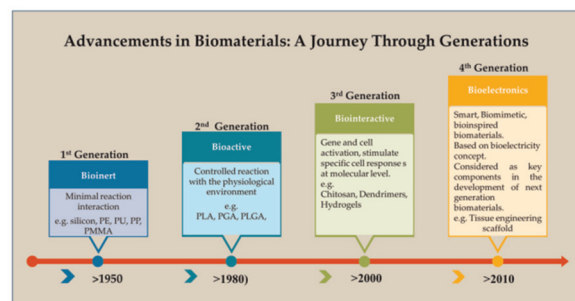


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Sajid Iqbal, Muhammad Sohail, Shiji Fang, Jiayi Ding, Lin Shen, Minjiang Chen, Gaofeng Shu, Yong-Zhong Du* and Jiansong Ji*

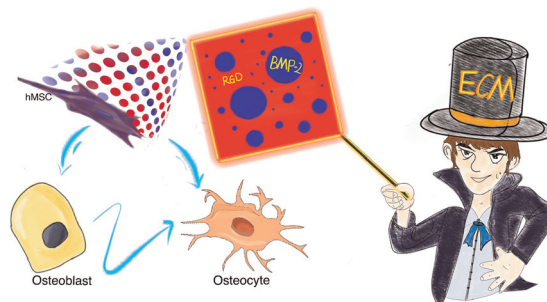


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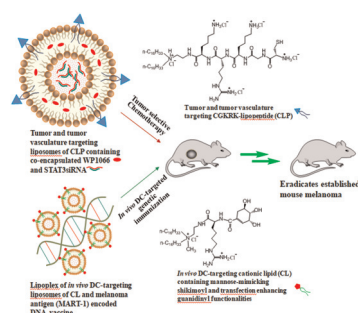
Controlling differentiation of stem cells via bioactive disordered cues

Yujie Zhang, Murielle Rémy, Evgeny Apartsin, Emilie Prouvé, Cécile Feuillie, Christine Labrugère, Nithavong Cam and Marie-Christine Durrieu*



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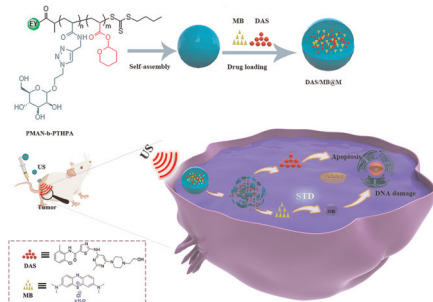
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***In vivo* targeting of a tumor-antigen encoded DNA vaccine to dendritic cells in combination with tumor-selective chemotherapy eradicates established mouse melanoma**

Sugata Barui,* Soumen Saha, Yakati Venu,
Gopi Krishna Moku and Arabinda Chaudhuri*

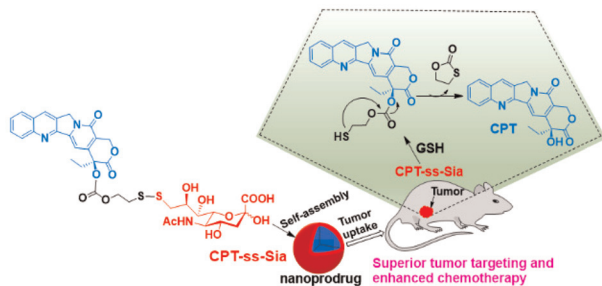
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Jie Chen, Ting Yin, Lili Niu and Jin Geng*

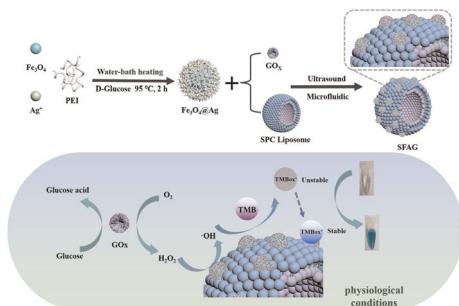
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Huiling Dong, Xuefei Huang and Xuanjun Wu*

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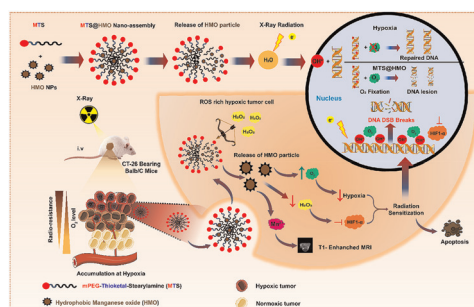
Teng Wang, Qing Wu, Zhenyu Wang, Xi Hu and
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In situ hypoxia modulating nano-catalase for amplifying DNA damage in radiation resistive colon tumors

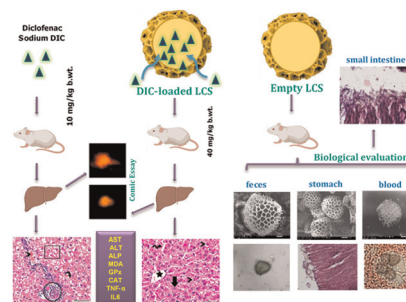
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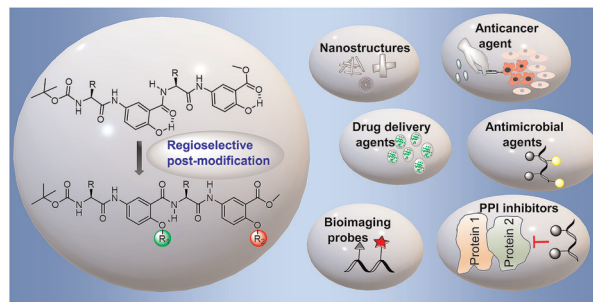
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Site-selective post-modification of short α/γ hybrid foldamers: a powerful approach for molecular diversification towards biomedical applications

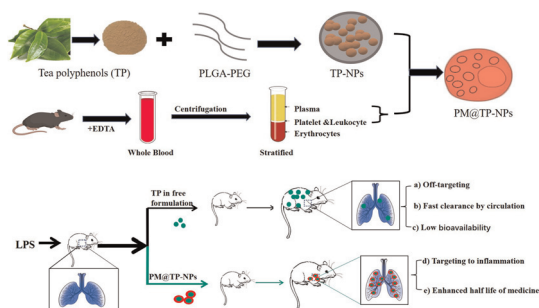
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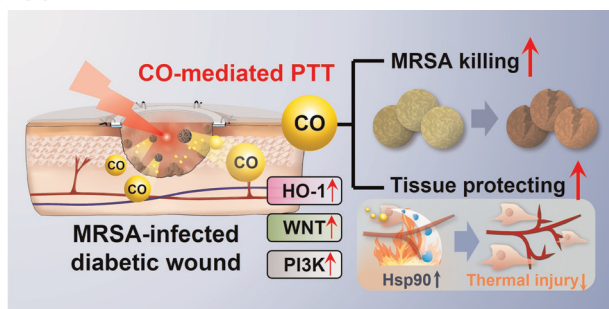
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Hua Jin,* Yue Zhao, Yinlian Yao, Jin Zhao, Renxing Luo, Shilong Fan, Yanlan Wei, Suidong Ouyang, Wanqing Peng, Yumin Zhang, Jiang Pi and Gonghua Huang*



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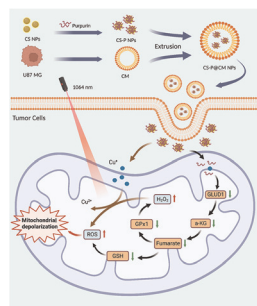
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A CO-mediated photothermal therapy to kill drug-resistant bacteria and minimize thermal injury for infected diabetic wound healing

Xin Jin, Zelin Ou, Guowei Zhang, Rong Shi, Jumin Yang, Wenguang Liu, Gaoxing Luo,* Jun Deng* and Wei Wang*

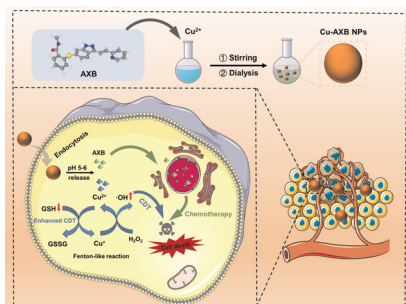
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Ling Wang, Yaobao Han, Zhengpeng Gu, Mengxiao Han, Chunhong Hu* and Zhen Li*

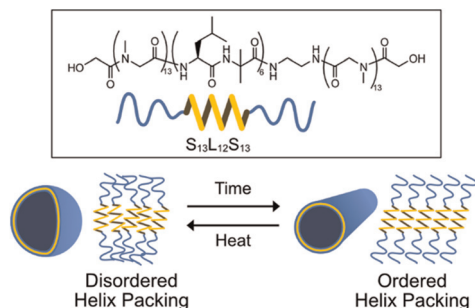
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pH-Activatable copper-axitinib coordinated multifunctional nanoparticles for synergistic chemo-chemodynamic therapy against aggressive cancers

Muse Ji, Hongbing Liu, Hanxun Wang, Xinxin Liang, Mingli Wei, Dongmei Shi, Jingxin Gou, Tian Yin, Haibing He, Xing Tang and Yu Zhang*

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Reversible transformation of peptide assembly between densified-polysarcosine-driven kinetically and helix-orientation-driven thermodynamically stable morphologies

Mohamed S. Elafify, Toru Itagaki, Nermeen A. Elkasabgy, Sinar Sayed, Yoshihiro Ito and Motoki Ueda*

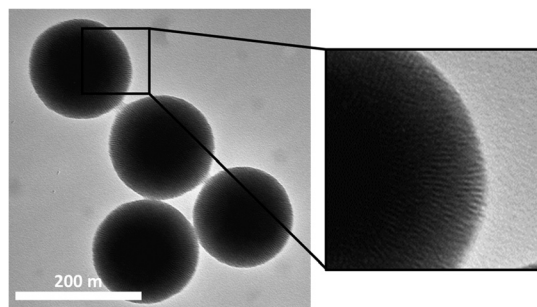


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Towards a simple *in vitro* surface chemistry pre-screening method for nanoparticles to be used for drug delivery to solid tumours

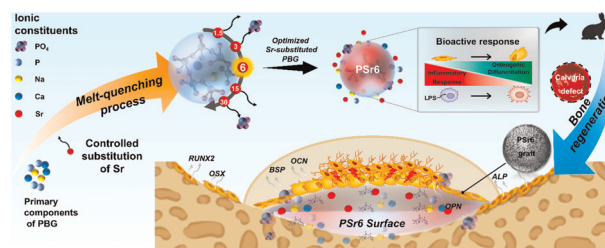
Roman Schmid, Juliane Kaiser, Ramona Willbold, Nomusa Walther, Rainer Wittig* and Mika Lindén*



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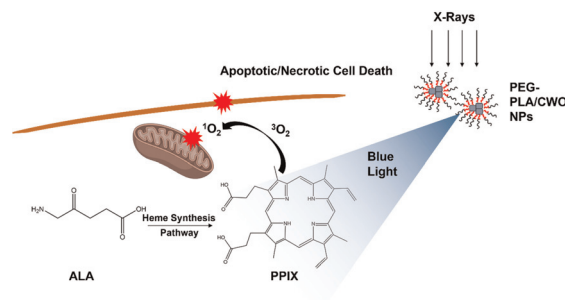
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Radiation-induced photodynamic therapy using calcium tungstate nanoparticles and 5-aminolevulinic acid prodrug

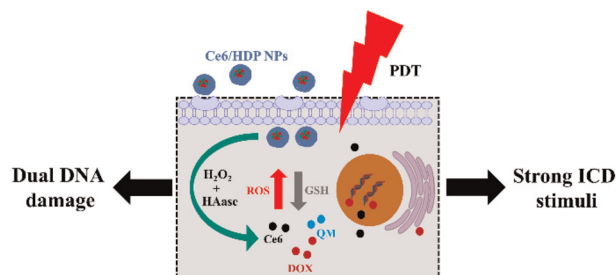
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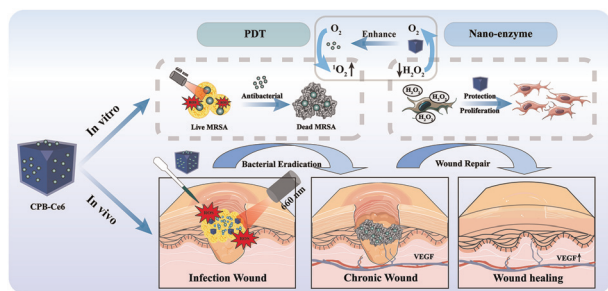
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Shangui Liu, Xinru Kong, Yuelin Fang, Zhijing He, Hang Wu, Jianbo Ji, Xiaoye Yang, Lei Ye and Guangxi Zhai*



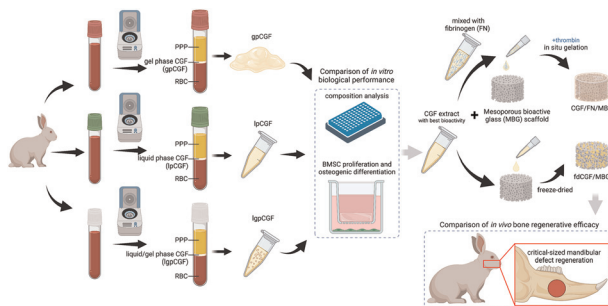
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Prussian blue nano-enzyme-assisted photodynamic therapy effectively eradicates MRSA infection in diabetic mouse skin wounds

Aidi Tong, Chunyi Tong, Jialong Fan, Jingyi Shen, Caiyun Yin, Zhou Wu, Jiansong Zhang* and Bin Liu*

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Optimization of a concentrated growth factor/mesoporous bioactive glass composite scaffold and its application in rabbit mandible defect regeneration

Mengran Ma, Wenjing Shen, Beibei Li, Mengwen Sun, Dan Lin* and Lingqiang Meng*

