

Biomaterials Science

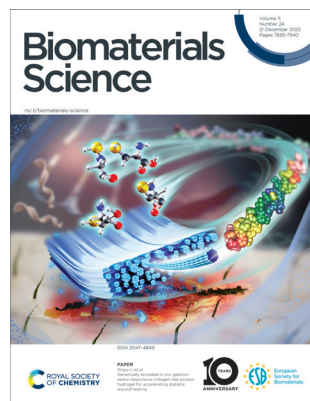
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IN THIS ISSUE

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Cover

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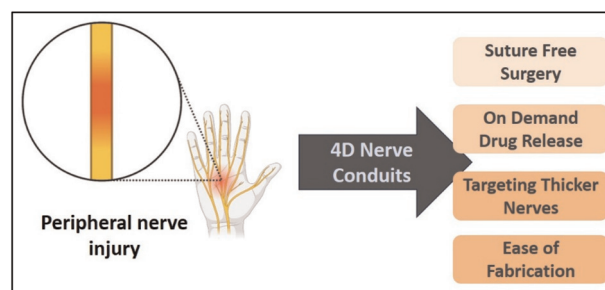
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2023, **11**, 7748.

MINIREVIEW

7703

Emerging 4D fabrication of next-generation nerve guiding conduits: a critical perspective

Akshat Joshi, Saswat Choudhury, Sonal Asthana, Shervanthi Homer-Vanniasinkam, Uma Nambiar and Kaushik Chatterjee*

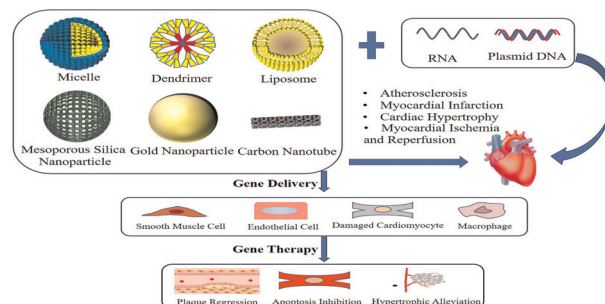


REVIEWS

7709

Nanocarriers for gene delivery to the cardiovascular system

Ling-Xin Shi, Xiu-Ran Liu, Ling-Yue Zhou, Zi-Qi Zhu, Qiong Yuan and Tao Zou*



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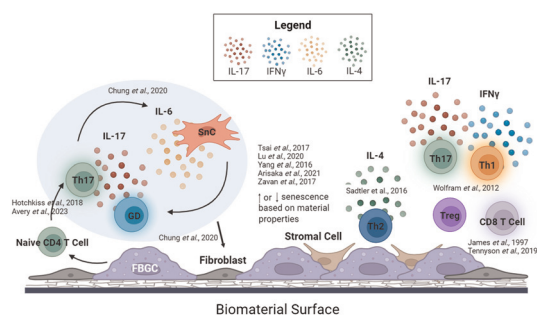


REVIEWS

7730

The foreign body response: emerging cell types and considerations for targeted therapeutics

Brenda Yang, Natalie Rutkowski and Jennifer Elisseeff*

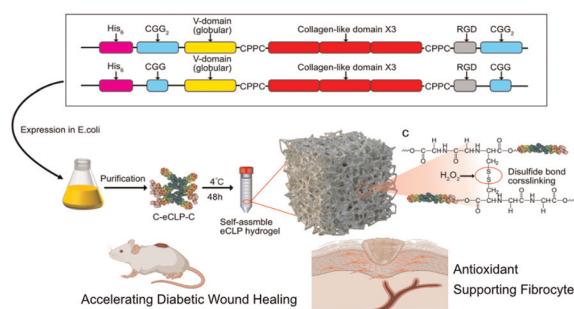


PAPERS

7748

Genetically encoded *in situ* gelation redox-responsive collagen-like protein hydrogel for accelerating diabetic wound healing

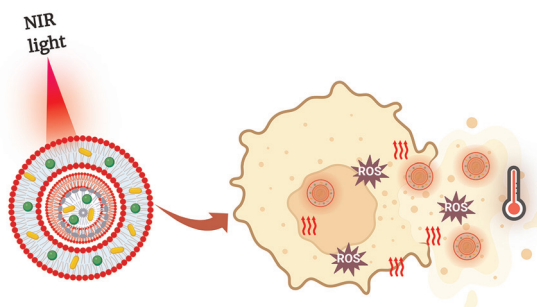
Shuang Jia, Jie Wang, Xiaojie Wang, Xing Liu, Shubin Li, Yimiao Li, Jiaqi Li, Jieqi Wang, Shad Man, Zhao Guo, Yinan Sun, Zhenzhen Jia, Liyao Wang and Xinyu Li*



7759

Near-infrared light activatable niosomes loaded with indocyanine green and plasmonic gold nanorods for theranostic applications

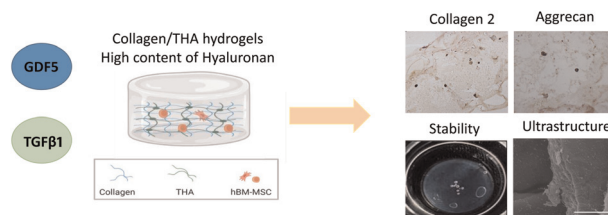
Yumnam Prince, Netra Hiremath and Raviraj Vankayala*



7768

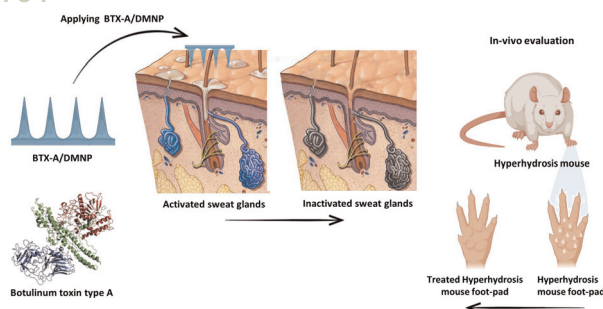
Combining biomimetic collagen/hyaluronan hydrogels with discogenic growth factors promotes mesenchymal stroma cell differentiation into Nucleus Pulposus like cells

Prince David Okoro, Antoine Frayssinet, Stéphanie De Oliveira, Léa Rouquier, Gregor Miklosic, Matteo D'Este, Esther Potier and Christophe Hély*



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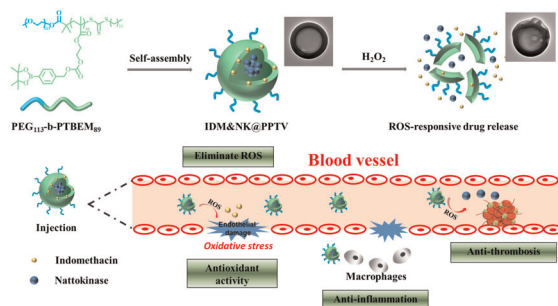
7784



Botulinum toxin A dissolving microneedles for hyperhidrosis treatment: design, formulation and *in vivo* evaluation

Atefeh Malek-Khatabi, Mazda Rad-Malekshahi,*
Morvarid Shafiei, Fatemeh Sharifi,
Hamidreza Motasadizadeh, Vahid Ebrahimejad,
Mazdak Rad-Malekshahi, Hamid Akbarijavar* and
Zahra Faraji Rad*

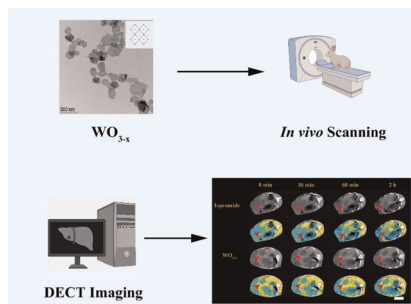
7805



ROS-responsive phenylboronic ester-based nanovesicles as multifunctional drug delivery systems for the treatment of inflammatory and thrombotic complications

Yu Xia, Runhai Chen, Yue Ke, Qiaoyi Han, Zhifang Ma*
and Qiang Shi*

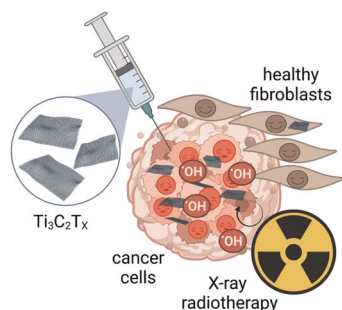
7817



Tungsten-based nanoparticles as contrast agents for liver tumor detection using dual-energy computed tomography

Xiuru Ji, Lan Zhu, Jessica C. Hsu, Han Wang,
Jingwei Zhou, Qingbing Wang, Yuhua Li, Weibo Cai,*
Dalong Ni* and Zhiyuan Wu*

7826



X-ray radio-enhancement by $\text{Ti}_3\text{C}_2\text{T}_x$ MXenes in soft tissue sarcoma

Monika Zimmermann, Lukas R. H. Gerken, Shianlin Wee,
Vera M. Kissling, Anna L. Neuer, Elena Tzolaki,
Alexander Gogos, Maria R. Lukatskaya and
Inge K. Herrmann*

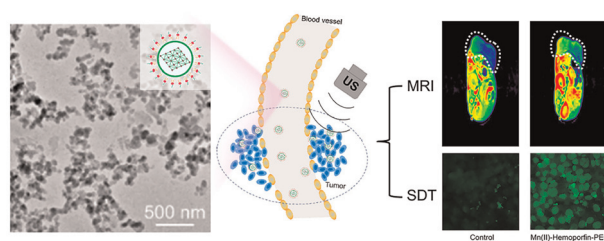


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7838

Mn(II)–hemoporphin-based metal–organic frameworks as a theranostic nanoplatform for MRI-guided sonodynamic therapy

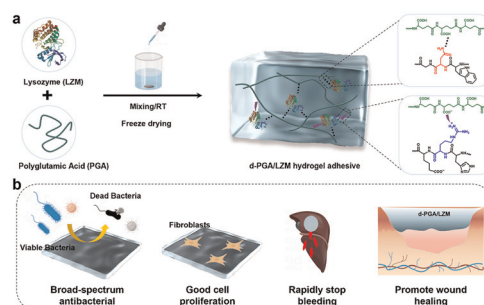
Qin Jiang, Hao Xu, Wen Zhang, Yue Wang,* Jindong Xia and Zhigang Chen*



7845

Biomimetic, self-coacervating adhesive with tough underwater adhesion for ultrafast hemostasis and infected wound healing

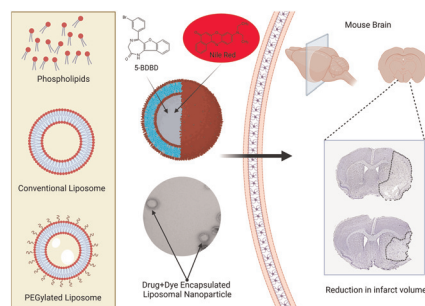
Tingwu Liu, Wen Sun, Xu Zhang, Donghua Xu, Mingzhe Wang, Qiuyan Yan,* Jinghua Yin and Shifang Luan



7856

Fluorescent liposomal nanocarriers for targeted drug delivery in ischemic stroke therapy

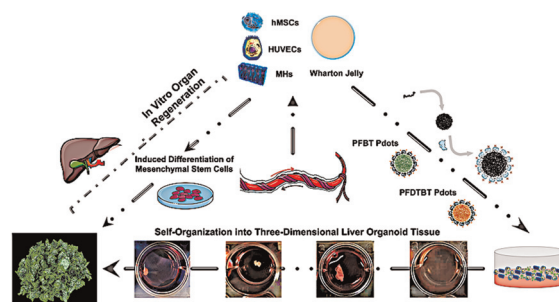
Michael R. Arul, Ibtihal Alahmadi, Daylin Gamiotea Turro, Aditya Ruikar, Sama Abdulmalik, Justin T. Williams, Basavaraju G. Sanganahalli, Bruce T. Liang, Rajkumar Verma* and Sangamesh G. Kumbar*



7867

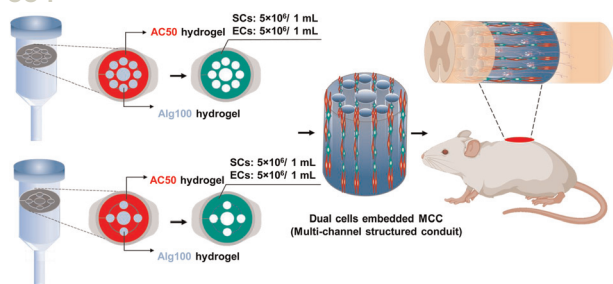
Self-assembly of three-dimensional liver organoids: virtual reconstruction via endocytosed polymer dots for refactoring the fine structure

Ze Zhang, Yuyang Wu, Zhilu Xuan, Haotian Xu, Shengyan Yin* and Zihui Meng*



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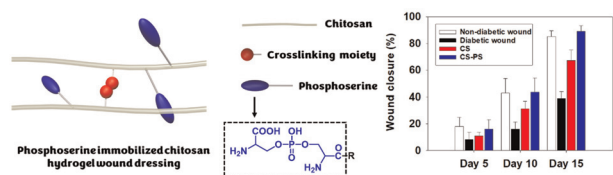
7884



A multi-channel collagen conduit with aligned Schwann cells and endothelial cells for enhanced neuronal regeneration in spinal cord injury

Hye Yeong Lee, Seo Hyun Moon, Donggu Kang, Eunjeong Choi, Gi Hoon Yang, Keung Nyun Kim, Joo Yun Won and Seong Yi*

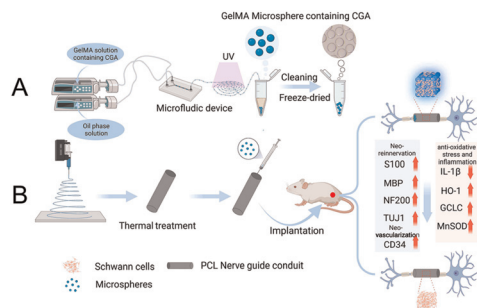
7897



Design of an apoptotic cell-mimetic wound dressing using phosphoserine-chitosan hydrogels

Gyeongwoo Lee, Ahmed Nabil, Oh Hyeong Kwon and Mitsuhiro Ebara*

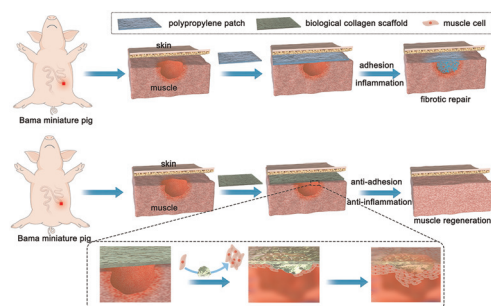
7909



Chlorogenic acid releasing microspheres enhanced electrospun conduits to promote peripheral nerve regeneration

Jiaqi Fang, Xuehan Jin, Bo Xu, Liping Nan, Shuhao Liu, Jianguang Wang, Na Niu, Zhong Wu,* Feng Chen* and Junjian Liu*

7926



Collagen biomaterials promote the regenerative repair of abdominal wall defects in Bama miniature pigs

Langfan Qu, Zelin Chen, Jianhua Chen, Yibo Gan, Xu Tan, Yu Wang, Can Zhang, Bing Chen, Jianwu Dai,* Jianxin Chen* and Chunmeng Shi*

