

Biomaterials Science

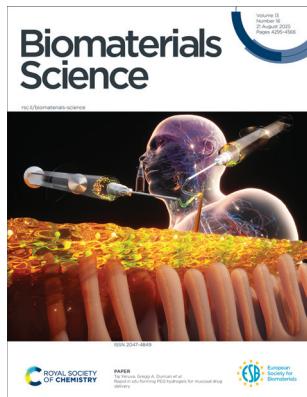
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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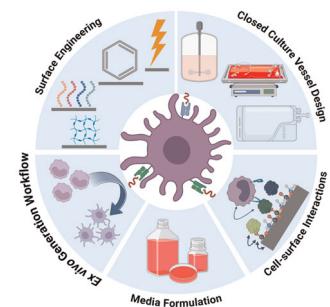
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Impact of culture vessel materials on biomanufacturing of dendritic cell-based immunotherapies in closed systems

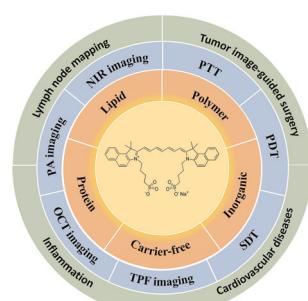
Jiyu Jessica Tian, Hamid Ebrahimi Orimi, Natalie Fekete, Nicolas Drolet, Katie Campbell, Michel L. Tremblay, Linda Peltier, Pierre Laneuville, Pierre-Luc Girard-Lauriault and Corinne A. Hoesli*



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Indocyanine green-based nanomedicine for theranostic applications

Jinghang Li, Shuangyu Tian, Xi Zhang, Xinyang Deng, Haixing Xu and Lesan Yan*





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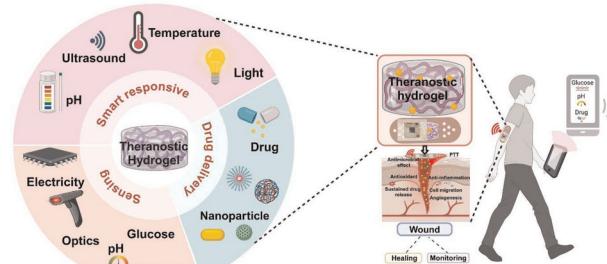


MINIREVIEW

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Recent progress in multifunctional theranostic hydrogels: the cornerstone of next-generation wound care technologies

Laxmanan Karthikeyan and Hyun Wook Kang*

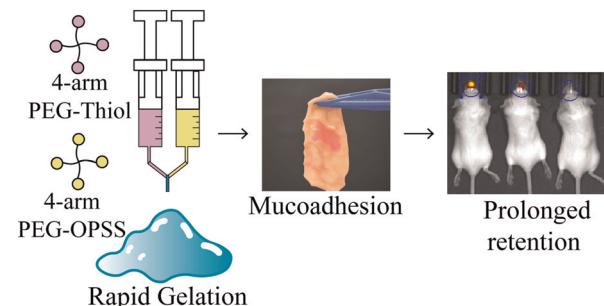


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Rapid *in situ* forming PEG hydrogels for mucosal drug delivery

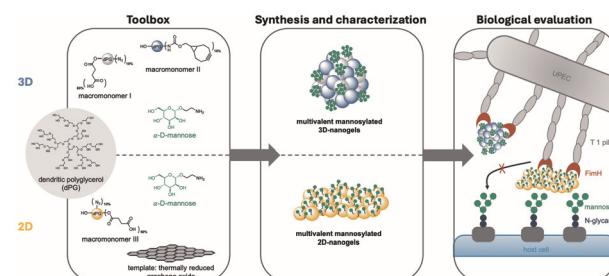
Taj Yeruva,* Robert J. Morris III, Sahana Kumar, Luke Zhao, Peter Kofinas and Gregg A. Duncan*



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Multivalent 2D- and 3D-nanogels as carbohydrate-lectin binders

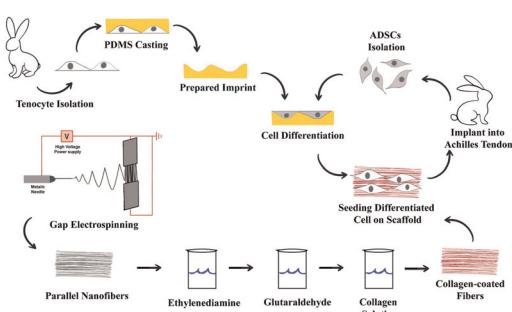
Ann-Cathrin Schmitt, Maximilian Braun, Stefanie Wedepohl, Mathias Dimde, Philip Nickl, Kai Ludwig, Tatyana L. Povolotsky* and Rainer Haag*



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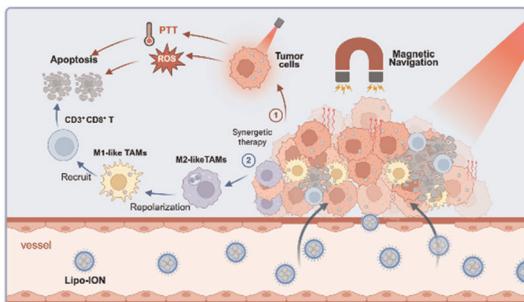
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Seyed Aliakbar Hosseini Toopghara, Shahin Bonakdar,* Sara Nayyeri, Morteza Mehrjoo, Fatemeh Ale Ebrahim, Hossein Aminianfar, Farzad Mohammadian Sabour, Leila Montazeri, Mohammad Amin Hajari, Mohammad Ali Shokrgozar, Sang-Won Park* and Mohammad Mehdi Dehghan*



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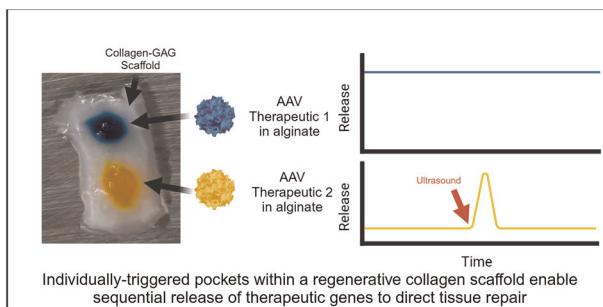
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Magnetically actuated superparamagnetic liposomes for accurate photothermal therapy and *in situ* antitumor immunoactivation

Han Gong, Aiqing Ma, Jiacheng Ouyang, Rui Hao, Shichao Zhang* and Wei Qiu*

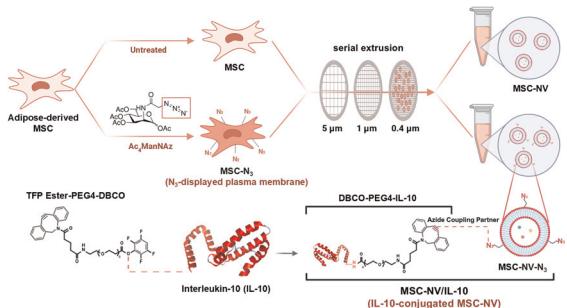
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Combined sustained and triggered release for sequential viral-transduction from collagen-based scaffolds for tissue regeneration

John J. Amante, Bridget Twombly, Naaz Thotathil and Cathal J. Kearney*

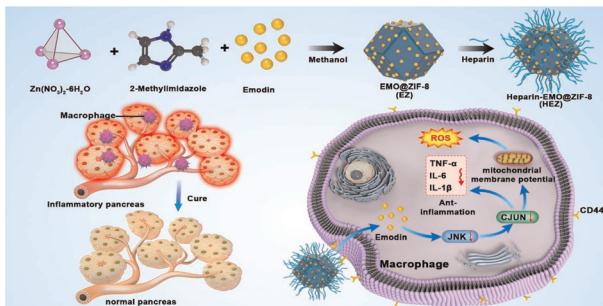
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Metabolic click-labeling of interleukin-10 enhances the immunomodulatory potential and wound healing properties of mesenchymal stem cell-derived extracellular nanovesicles

Hee Gyeong Ko, Yun-A Kim, Jun Kwon, So Won Jeon, Jong Sang Yoon, Min-Ho Kang, Ju-Ro Lee and Han Young Kim*

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Macrophage-targeted emodin nanomaterials for effective acute pancreatitis treatment via modulation of the JNK pathway

Liying Wang,* Mengxiang Tian, Bingzhi Dong, Weiqi Li, Liang Shi, Yifan Tong, Wei Chen, Xin Yu, Hongxia Xu, Bo Shen and Hong Yu*

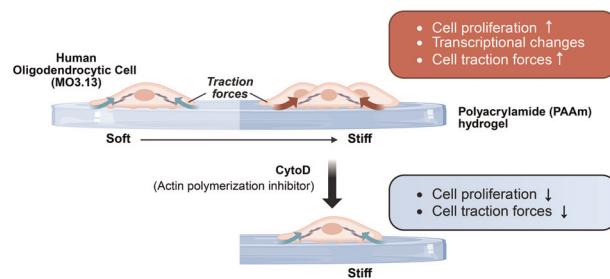


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Scaffold stiffness affects oligodendrocyte proliferation via cell traction forces

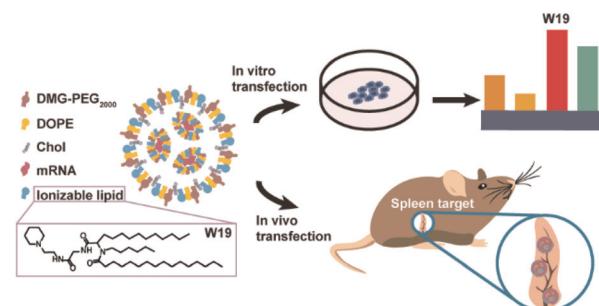
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Ugi-reaction-derived ionizable lipids with cyclic tertiary amine heads enable spleen-targeted mRNA delivery

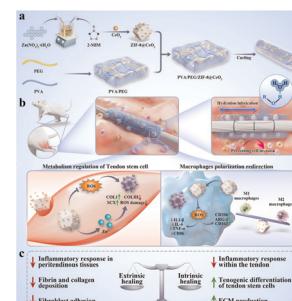
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Nano-enzymatic functionalized dual network hydrogel promotes tendon repair by modulating the inflammatory cycle and cellular behavior

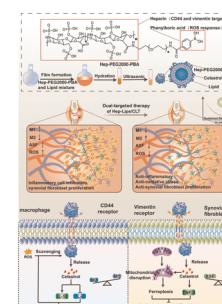
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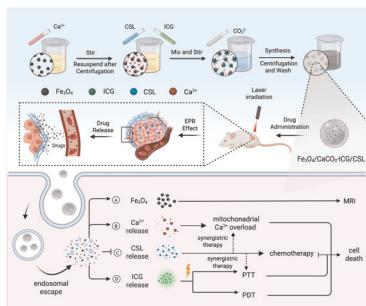
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Xiaohua Wang, Tingting Gao, Jingjing Wu, Xu Zhou, Yuanyuan Chu, Lei Zhang* and Xi Cao*



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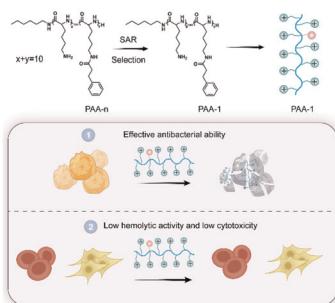
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A pH-responsive nanoparticle enhancing tumor therapy via calcium overload-induced oxidative stress to potentiate phototherapy and chemotherapy

Shanshan Fan, Shengsheng Cui, Xinni Pan, Haisong Tan, Cheng Cao, Yueqi Zhu* and Yanlei Liu*

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Structure-optimized poly(α -amino acid)-based antimicrobial peptide mimetics with balanced bactericidal activity and biosafety for MRSA peritonitis therapy

Hongfei Sun, Guifeng An, Sarula Bao, Wenbo Du, Ya Su, Dezhi Sun and Xiaohui Zhang*

