## **Biomaterials Science**

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

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ISSN 2047-4849 CODEN BSICCH 11(9) 2963-3368 (2023)



**Cover** See Wojciech Święszkowski, Silvia Farè *et al.*, pp. 2988–3015.

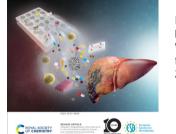


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**Inside cover** See Xian Liu, Ronghui Zhou *et al.*, pp. 3092–3103.

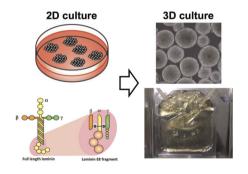
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Eihachiro Kawase\* and Norio Nakatsuji

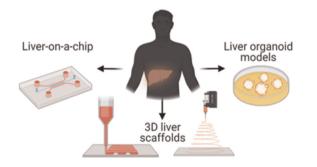


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Biomaterials Science (electronic: ISSN 2047-4849) is published 24 times a year by the

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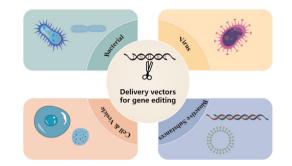


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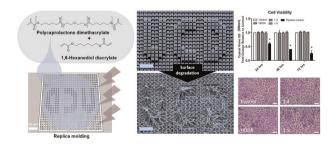


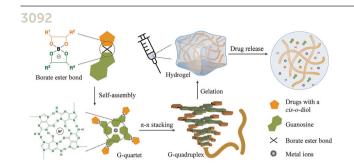
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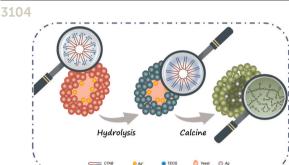
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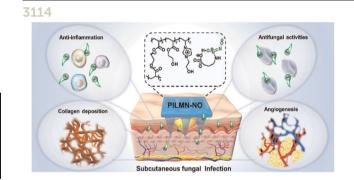
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Xin Xia, Shaojuan Song, Yinghui Wen, Jiajia Qi, Lideng Cao, Xian Liu,\* Ronghui Zhou\* and Hang Zhao



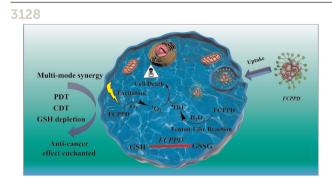
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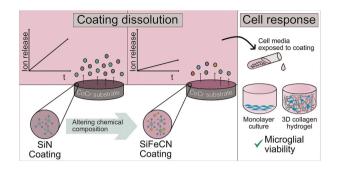
#### Organic disulfide-modified folate carbon dots for tumor-targeted synergistic chemodynamic/ photodynamic therapy

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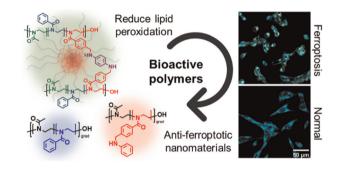
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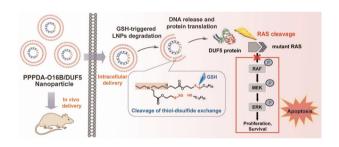
Joshua P. Morrow, David Pizzi, Zihnil A. I. Mazrad, Ashley I. Bush and Kristian Kempe\*



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# Intracellular delivery of bacterial effectors for cancer therapy using biodegradable lipid nanoparticles

Wenting Li, Leihou Shao, Ji Liu, Jinhan Sheng, Qizhen Zheng and Ming Wang\*



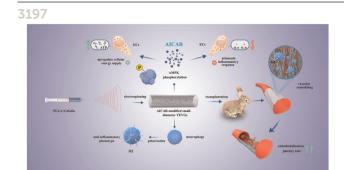
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Huijie Liu, Qun Li, Yingying Xu, Yue Sun, Xin Fan, Huaqiang Fang, Binbin Hu, Li Huang, Lan Liao\* and Xiaolei Wang\*



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firm adhesion

cell adhesion

×

bacteria killing

healing

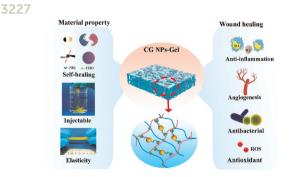
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#### Cellular energy supply for promoting vascular remodeling of small-diameter vascular grafts: a preliminary study of a new strategy for vascular graft development

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Haijun Fu, Jiayu Yang, Zongshan Shen, Yong Zhang, Shuhong Kuang, Lifeng Li, Zhengmei Lin\* and Xuetao Shi\*



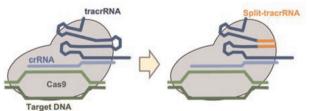
oral ulcer

cross linked collagon

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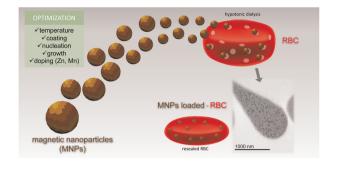
#### Increasing the siRNA knockdown efficiency of lipid nanoparticles by morphological transformation with the use of dihydrosphingomyelin as a helper lipid

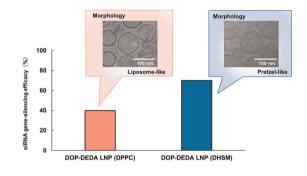
Masahiro Hashimoto, Sei Yonezawa, Song Furan, Chiori Nitta, Noriyuki Maeda, Koji Tomita, Ayano Yokouchi, Hiroyuki Koide and Tomohiro Asai\*

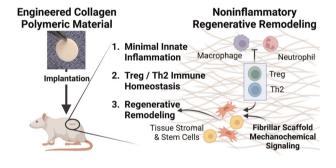
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#### Engineered collagen polymeric materials create noninflammatory regenerative microenvironments that avoid classical foreign body responses

Rachel A. Morrison, Sarah Brookes, Theodore J. Puls, Abigail Cox, Hongyu Gao, Yunlong Liu and Sherry L. Voytik-Harbin\*





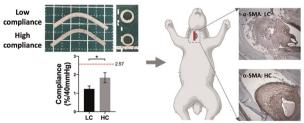


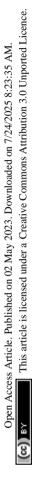
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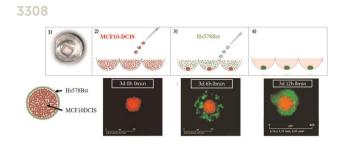
# *In vivo* evaluation of compliance mismatch on intimal hyperplasia formation in small diameter vascular grafts

Yuan Yao, Grace Pohan, Marie F. A. Cutiongco, YeJin Jeong, Joshua Kunihiro, Aung Moe Zaw, Dency David, Hanyue Shangguan, Alfred C. H. Yu and Evelyn K. F. Yim\* Grafts with different mechanical compliance Intim

#### Intimal hyperplasia formation







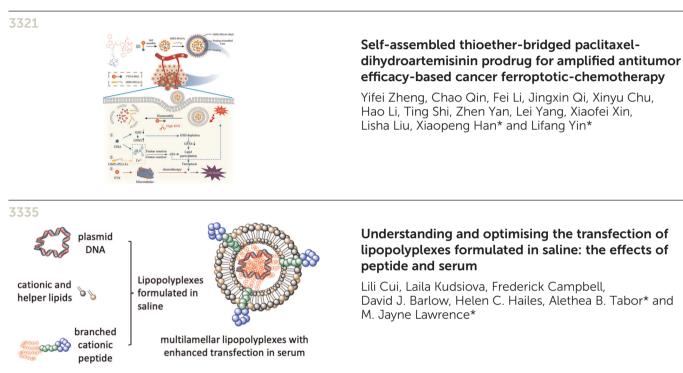
# A bicellular fluorescent ductal carcinoma *in situ* (DCIS)-like tumoroid to study the progression of carcinoma: practical approaches and optimization

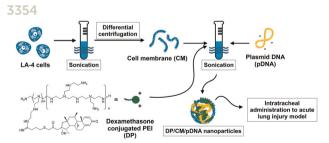
Ola Habanjar,\* Anne-Catherine Maurin, Cyrielle Vituret, Caroline Vachias, Lucie Longechamp, Cécile Garnier, Caroline Decombat, Céline Bourgne, Mona Diab-Assaf, Florence Caldefie-Chezet and Laetitia Delort

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Hybrid nanoparticles with cell membrane and dexamethasone-conjugated polymer for gene delivery into the lungs as therapy for acute lung injury

Chuanyu Zhuang, Chunxian Piao, Minji Kang, Jihun Oh and Minhyung Lee\*

#### RETRACTION

#### 3365

Retraction: Enhanced bone defect repairing effects in glucocorticoid-induced osteonecrosis of the femoral head using a porous nano-lithium-hydroxyapatite/gelatin microsphere/erythropoietin composite scaffold

Donghai Li, Xiaowei Xie, Zhouyuan Yang, Changde Wang, Zhun Wei and Pengde Kang\*

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