

Biomaterials Science

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

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See Srinivasa Reddy Bonam, Bidya Dhar Sahu, Rajendra Kurapati *et al.*, pp. 2164–2178.

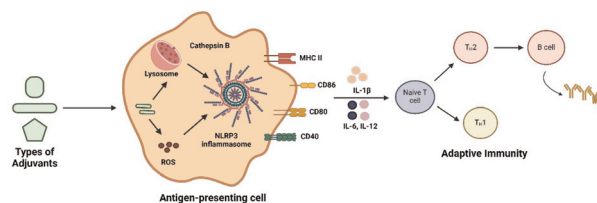
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Role of NLRP3 inflammasome in nanoparticle adjuvant-mediated immune response

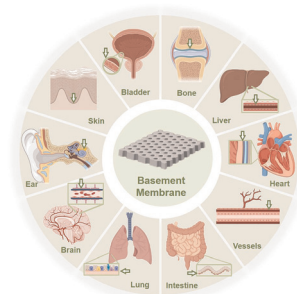
Momitul Ahmed, Pavithra Kurungottu, K. Swetha, Sandeep Atla, Nivethitha Ashok, Easa Nagamalleswari, Srinivasa Reddy Bonam,* Bidya Dhar Sahu* and Rajendra Kurapati*



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Biomimetic basement membranes: advances in materials, preparation techniques, and applications in *in vitro* biological models

Aoxiang Jin, Chunxiang Lu, Chuang Gao, Hao Qiao, Yi Zhang, Huazhen Liu, Wenbin Sun, Qiqi Dai and Yuanyuan Liu*



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Fundamental questions
Elemental answers

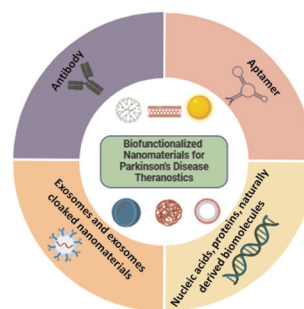


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Biofunctionalized nanomaterials for Parkinson's disease theranostics: potential for efficient PD biomarker detection and effective therapy

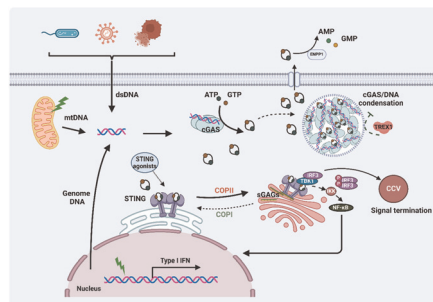
Saheli Sabnam, Raj Kumar* and Pranav*



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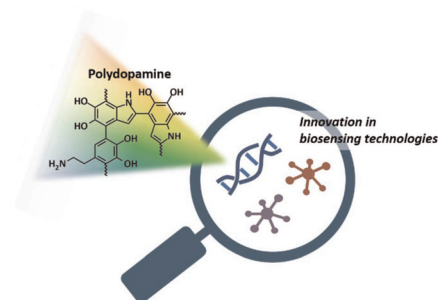
Gaohong Fu, Yanan Zhao, Chengqiong Mao* and Yang Liu*



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Polydopamine as a versatile optical indicator for colorimetric and fluorescence-based biosensing

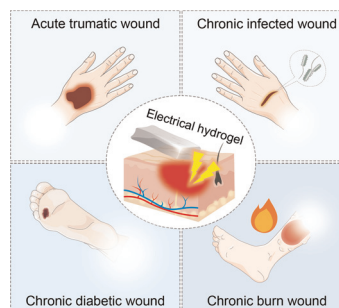
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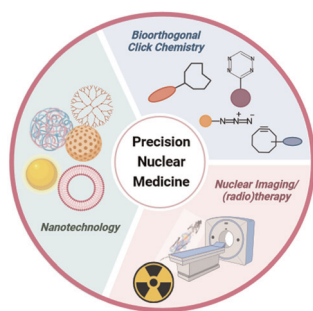
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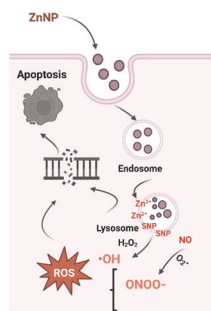


Harnessing nanoparticles and bioorthogonal chemistries for improving precision of nuclear medicine

Gayathri R. Ediriweera, Mengdie Li, Nicholas L. Fletcher, Zachary H. Houston, Muneer Ahamed, Idriss Blakey and Kristofer J. Thurecht*

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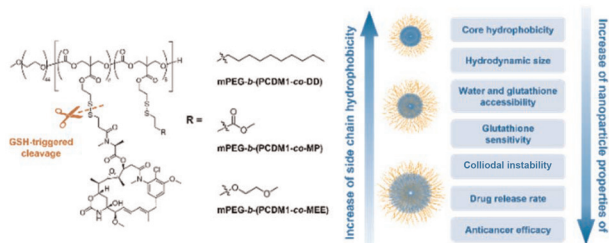
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Self-targeted nanosystem for enhanced chemodynamic cancer therapy

Kanwal Asif, Md. Mahbubur Rahman, Vincenzo Canzonieri, Isabella Caligiuri, Flavio Rizzolio* and Muhammad Adeel*

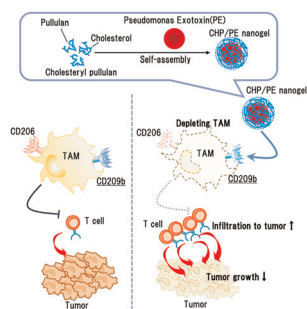
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Controlling stimulus sensitivity by tailoring nanoparticle core hydrophobicity

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Antitumor immune response elicited by M2 TAM-specific DDS via C-type lectin CD209b using cholesteryl pullulan nanogel as a protein drug carrier

Takaaki Nakatsukasa, Daisuke Muraoka,* Situo Deng, Kiyoshi Yasui, Shin-ichi Sawada, Asako Shimoda, Hirokazu Matsushita, Keitaro Matsumoto, Takeshi Nagayasu, Naozumi Harada, Kazunari Akiyoshi and Hiroaki Ikeda*

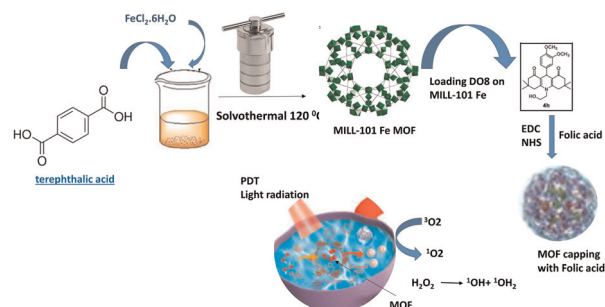


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Metal–organic framework MIL-101(Fe) functionalized with folic acid as a multifunctional nanocarrier for targeted chemotherapy–photodynamic therapy

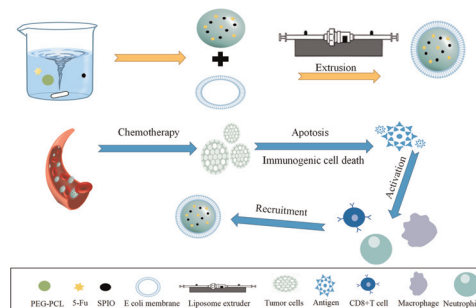
Eman Serag, Esmail M. El-Fakharany, Sherif F. Hammad and Mohamed E. El-Khouly*



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Tumor signal amplification and immune decoy strategy using bacterial membrane-coated nanoparticles for immunotherapy

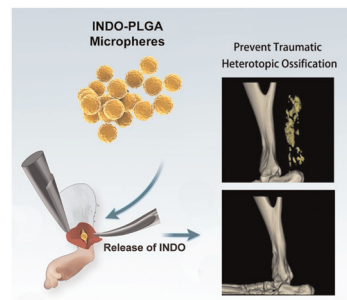
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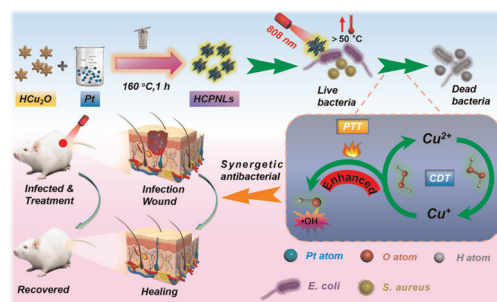
Junmin Shen, Ti Zhang, Junyu Chen, Feifan Chang, Liming Yang, Zhikang Guo, Ruijing Chen, Penghao Liu,* Ni Jiang* and Yajun Xie*



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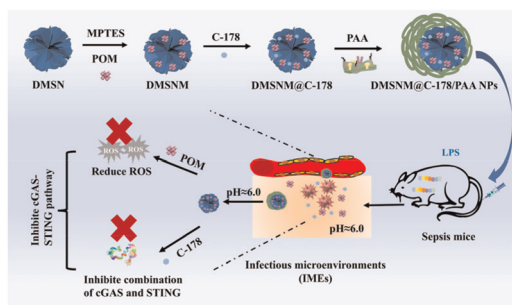
Snowflake-like Cu₂O–Pt nanocluster-mediated Fenton photothermal and chemodynamic therapy for antibiotic wound healing

En Li, Qi Han, Ting Chen, Si Cheng and Jinghua Li*



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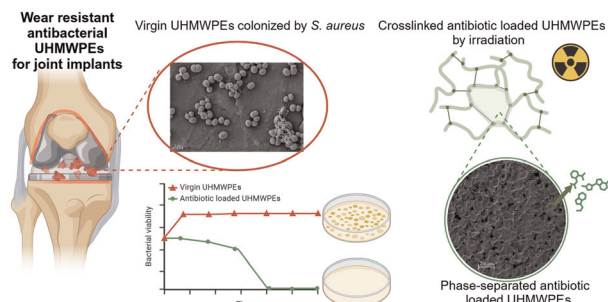
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Acid responsive molybdenum (Mo)-based nanoparticles inhibit the cGAS-STING signaling pathway for sepsis therapy

Xinyu Wang, Qingbin He, Lining Wang, Chengzhilin Li, Wenyu Zhang, Zhonghou Rong,* Qingqing Yin* and Yingchun Zhao*

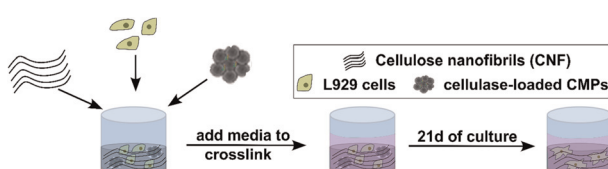
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Wear-resistant antibacterial UHMWPE-based implant materials obtained by radiation crosslinking

Nicoletta Inverardi, Maria F. Serafim, Amita Sekar, Keita Fujino, Matheus Ferreira, Anthony Marzouca, Emma Nagler, Orhun K. Muratoglu and Ebru Oral*

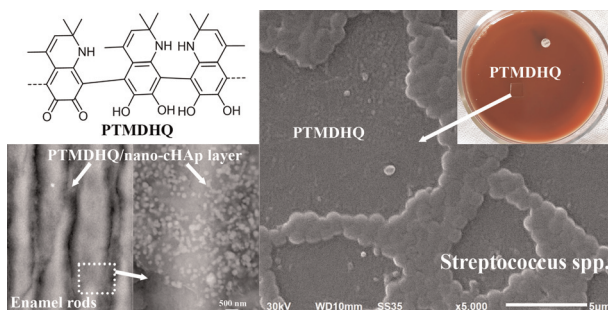
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Casein microparticles filled with cellulose to enzymatically degrade nanocellulose for cell growth

Céline Bastard, Jann Carl-Theodor Schulte, Md Asaduzzaman, Calvin Hohn, Yonca Kittel, Laura De Laporte* and Ronald Gebhardt*

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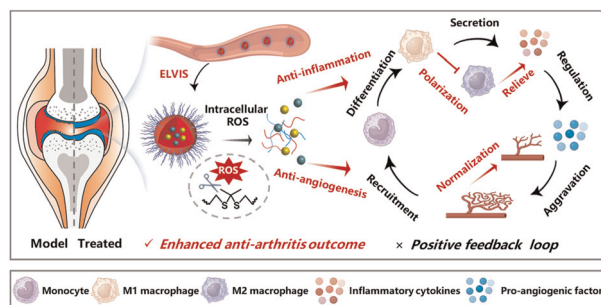


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Natural product-integrated microneedle patch for rheumatoid arthritis treatment through anti-inflammation and angiogenesis suppression

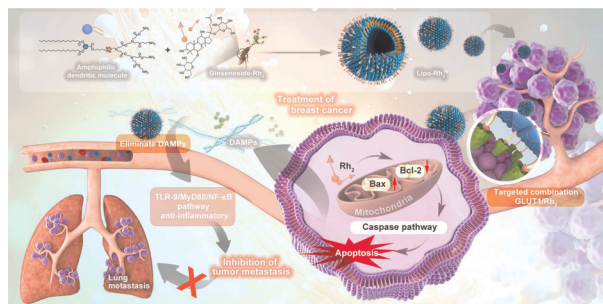
Peng Hua, Suleixin Yang, Lin Yu, Yongzhuo Huang and Meiwan Chen*



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Multifunctional biomimetic liposomal nucleic acid scavengers inhibit the growth and metastasis of breast cancer

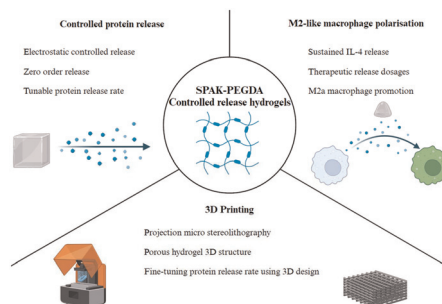
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George A. Loxley, Consuelo Coser, Amir M. Ghaemmaghami* and Jing Yang*



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OligoA-tailed DNA for dense functionalization of gold nanoparticles and nanorods in minutes without thiol-modification: unlocking cross-disciplinary applications

Feng Liu and Guoqing Wang*

