Journal of Materials Chemistry B

Materials for biology and medicine

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See Ying Liang, Yangchao Luo *et al.*, pp. 13122–13153. Image reproduced by permission of Ying Liang and Yangchao Luo from *J. Mater. Chem. B*, 2025, **13**, 13122.

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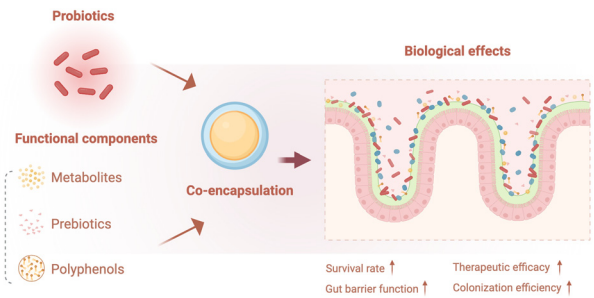

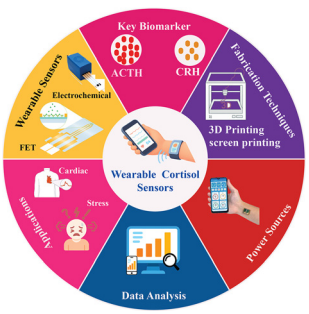

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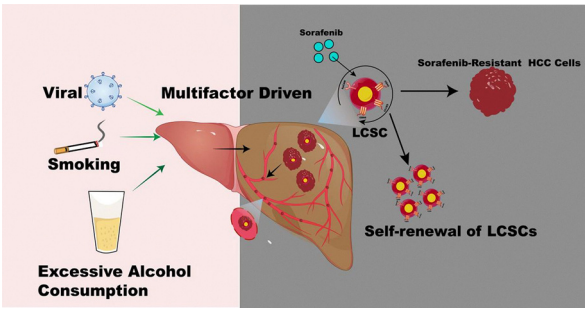

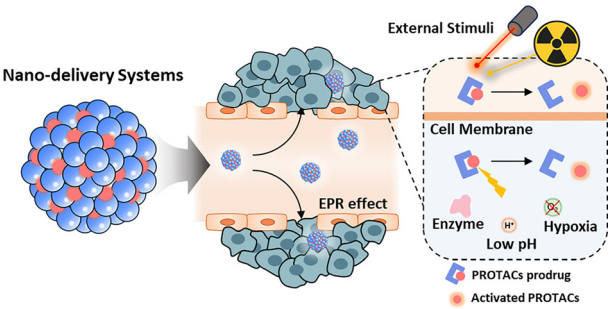

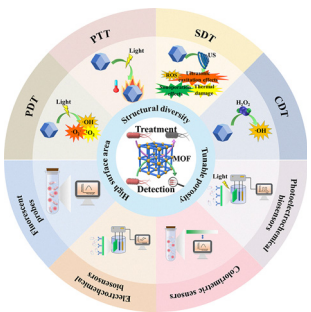

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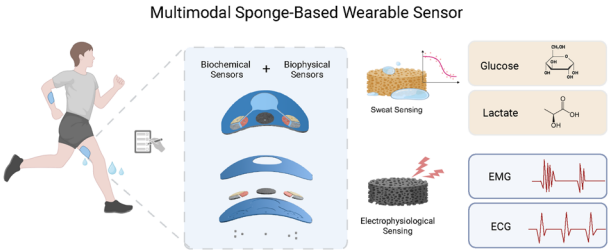

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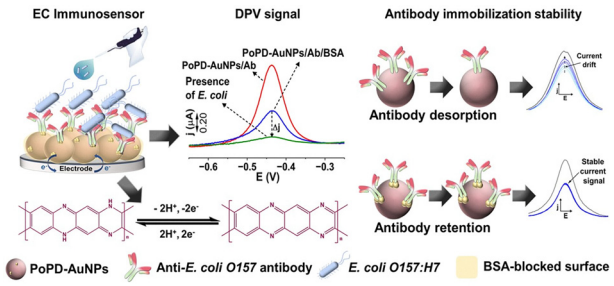

Surfactant-free synthesis of gold nanoparticle-decorated poly(*o*-phenylenediamine) sub-microspheres as surface-confined signaling probes for label-free electrochemical immunosensing of *E. coli O157:H7*

Balamurugan Thangavel, Juhee Lim, Minseon Kim and Joong Ho Shin*

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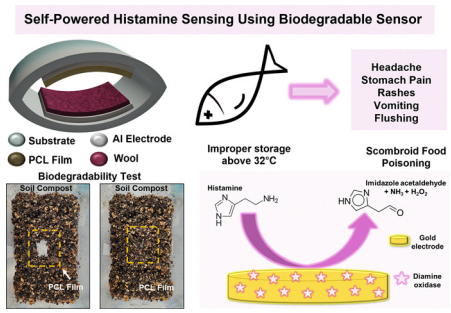

Detection of biogenic amine histamine using a triboelectric nanogenerator integrated biodegradable sensor

Swati Panda, Heewon Song, Sugato Hajra, Kyeong Jun Park, P. Ganga Raju Achary, Venkateswaran Vivekananthan and Hoe Joon Kim*

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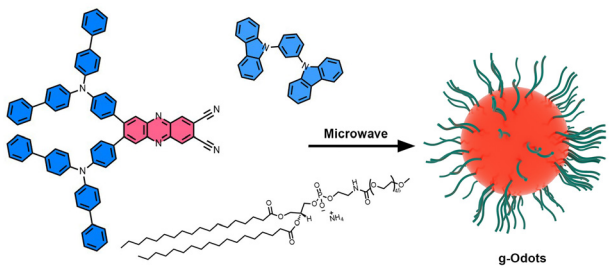

Glassy organic dots exhibiting near-infrared TADF with quantum yields >40% for cellular imaging

Xujun Qiu, André Jung, Angelica Sevilla-Pym, Peiqi Hu, Stefan Bräse* and Zachary M. Hudson*

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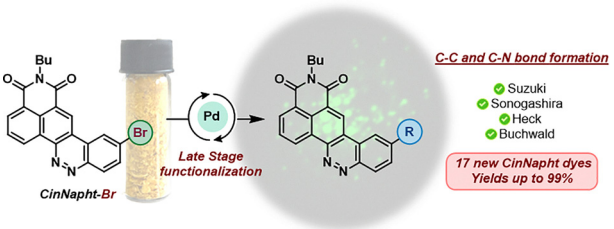

Synthesis of π-extended CinNapht fluorophores *via* late-stage Pd-catalyzed C–N and C–C bond formation and application for selective imaging of lipid droplets in living cells

Eléonore Tacke, Philippe Durand and Arnaud Chevalier*

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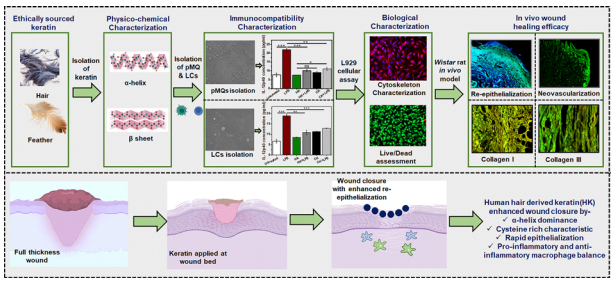
Immunological and wound healing properties of keratin and its conformational variants extracted from ethically derived bio-resources

Krishna Dixit, Linto John, Hema Bora, Anita Hansda, Baisakhee Saha, Rituparna Chakrabarti, Nantu Dogra, Praphulla Chandra Shukla, Gayatri Mukherjee* and Santanu Dhara*



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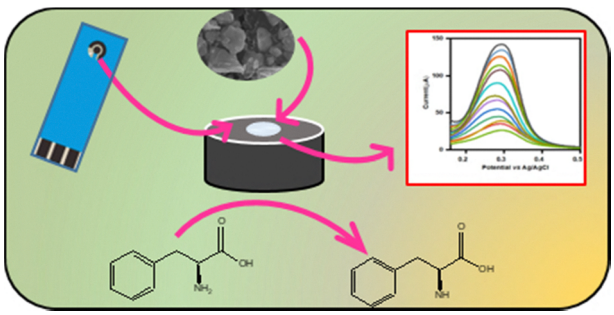
A non-enzymatic electrochemical biosensor for the detection of phenylalanine using bismuth telluride nanosheets

Priyadharshini Sriram, John Bosco Balaguru Rayappan,* Ahmed M. Fouda and Mani Govindasamy*



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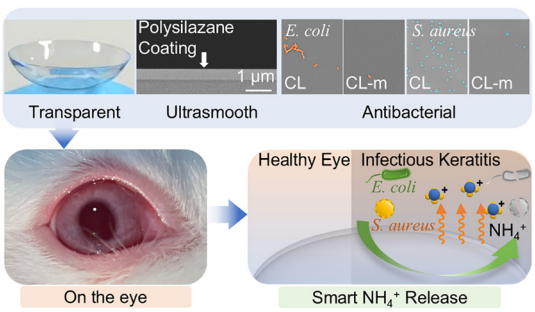
Smart invisible shield: colorless, durable and self-defending contact lens nanocoating combats keratitis on demand

Chenwei Sun, Lin Li, Zeyu Yang, Yi Guo, Jieyu Zhang, Xuefeng Hu* and Yunbing Wang



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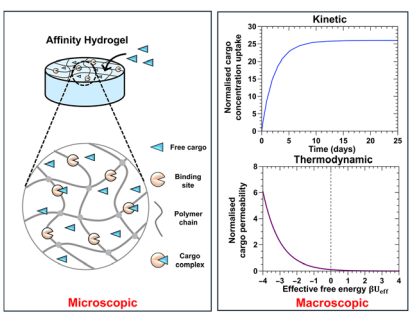
Theoretical framework for the kinetics and thermodynamics of cargo loading into affinity hydrogels

Ruhanesh Suthan, Ian Keen Koo, Xin Wang and K. B. Goh*



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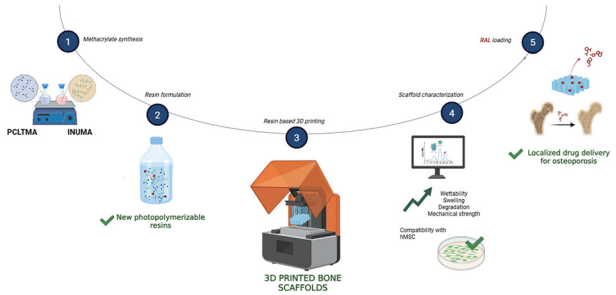

Hybrid methacrylated PCL/inulin photosensitive resins for 3D printing: a step forward in bone tissue engineering

Carmela Tommasino, Carla Sardo, Angiola Guidone, Maria Grazia Raucci, Anna Mariano, Alessandra Soriente, Rita Patrizia Aquino, Matthew P. Wylie, Giulia Auriemma* and Dimitrios A. Lamprou*

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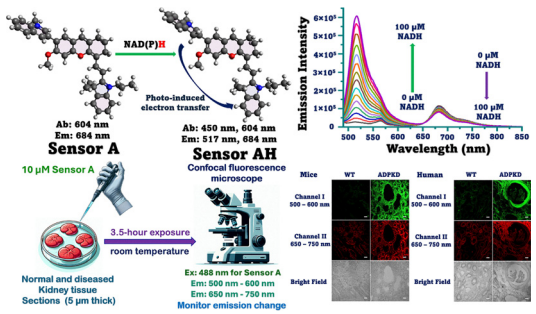

Methylquinolinium-enhanced near-infrared hemicyanine dye for ratiometric NAD(P)H sensing in live cells *via* carbon–carbon bond conjugation

Sushil K. Dwivedi, Adonis Amoli, Mahmood Norouzi, Alicia Guo, Henry Lanquaye, Tyler Gregersen, Yan Zhang,* Micaela Geborkoff, Athar Ata,* Thomas Werner and Haiying Liu*

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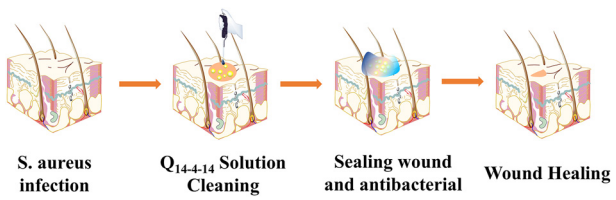

Degradable gemini quaternary ammonium salts for wound sterilization: an antibiotic-free strategy

Yuansong Sun, Yue Su, Zhengyang Zhou, Huan Zhou* and Pengpeng Chen*

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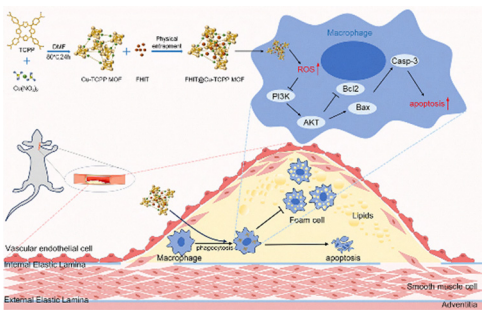

A metal–organic framework-based co-delivery system for atherosclerosis therapy *via* macrophage regulation

Xiaodong Wu, Huihua Shi, Bo Li, Bo Dong,* Xiaoyu Wu,* Ran Lu,* Chaowen Yu and Xinwu Lu*

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