

Journal of Materials Chemistry B

Materials for biology and medicine

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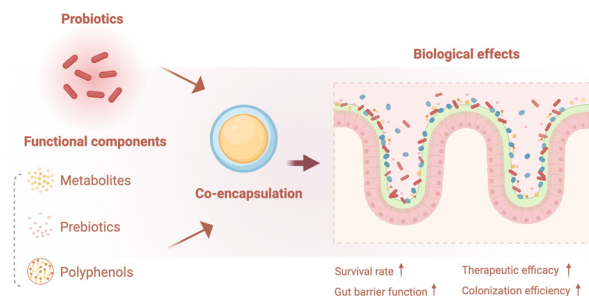
See Joong Ho Shin *et al.*, pp. 13256–13271. Image reproduced by permission of Joong Ho Shin from *J. Mater. Chem. B*, 2025, **13**, 13256.

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Elemental answers

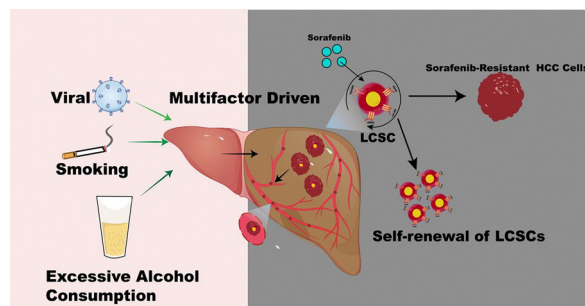


REVIEWS

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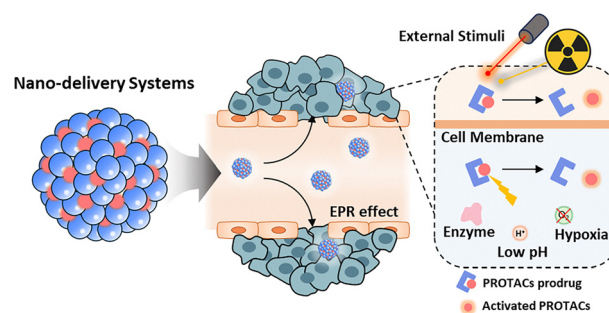
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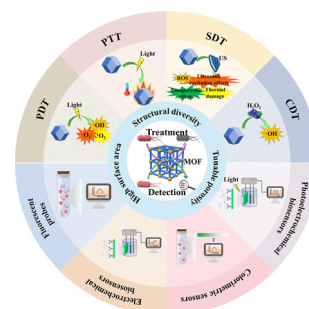
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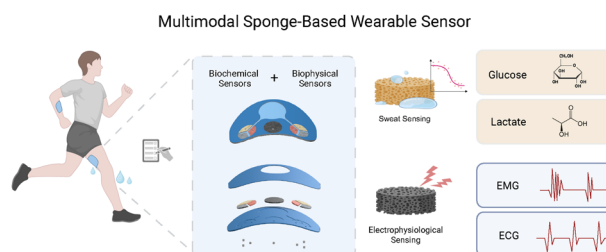


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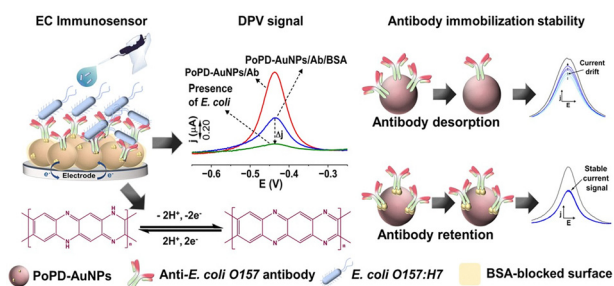
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Multimodal sponge-based wearable sensor for continuous monitoring of electrochemical and electrophysiological signals during exercise

Yue Li, Xuejie Wang, Yu-chun Lin, Asmita Veronica and Hnin Yin Yin Nyein*



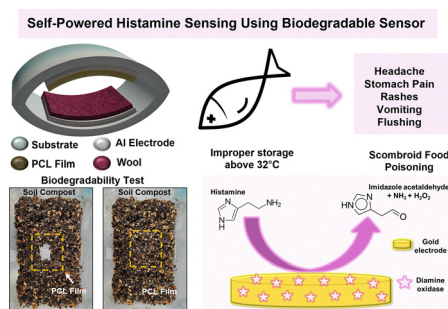
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Surfactant-free synthesis of gold nanoparticle-decorated poly(*o*-phenylenediamine) sub-microspheres as surface-confined signaling probes for label-free electrochemical immunosensing of *E. coli* O157:H7

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

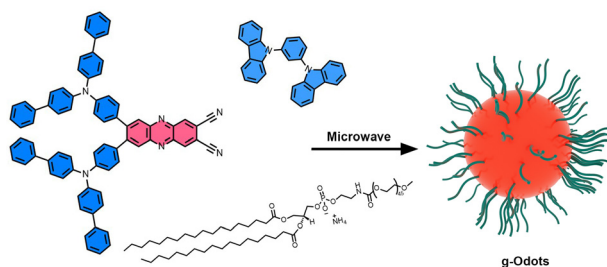
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Detection of biogenic amine histamine using a triboelectric nanogenerator integrated biodegradable sensor

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

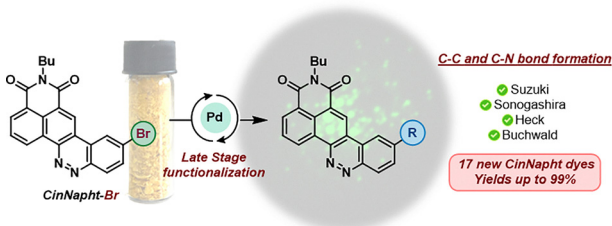
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Glassy organic dots exhibiting near-infrared TADF with quantum yields >40% for cellular imaging

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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

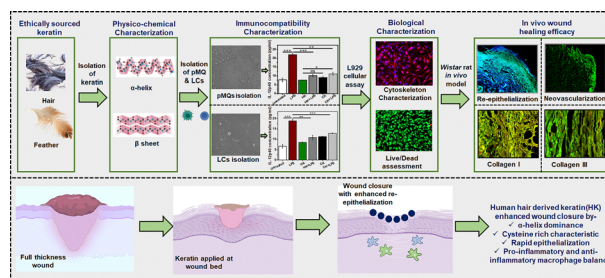
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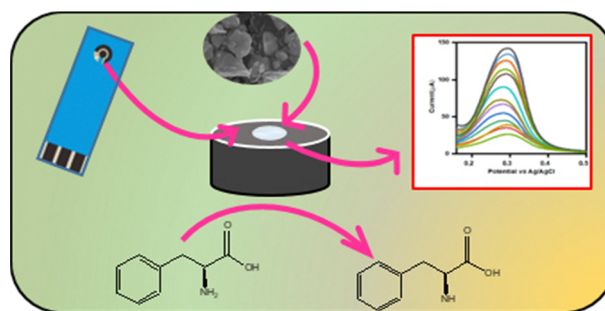
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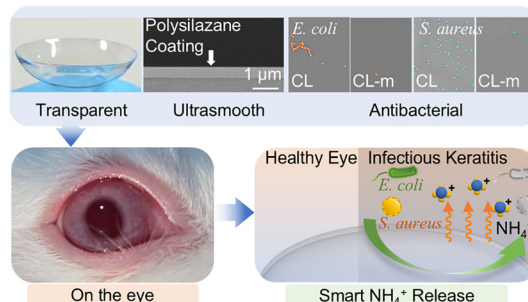
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Smart invisible shield: colorless, durable and self-defending contact lens nanocoating combats keratitis on demand

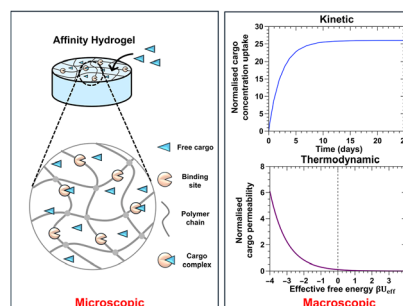
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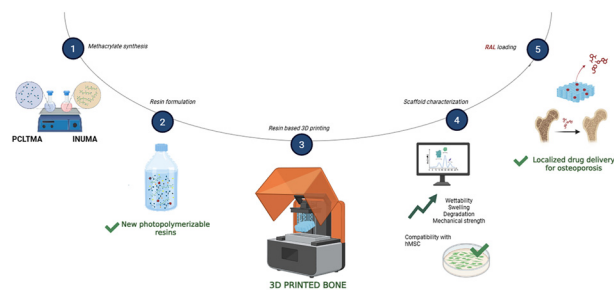
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Theoretical framework for the kinetics and thermodynamics of cargo loading into affinity hydrogels

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



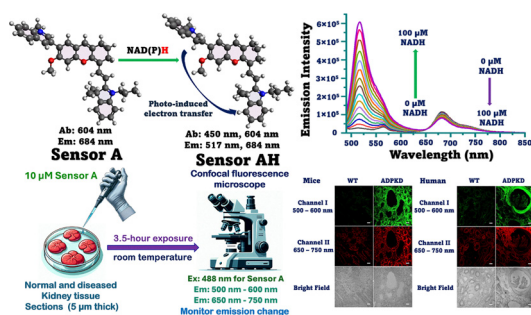
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Hybrid methacrylated PCL/inulin photosensitive resins for 3D printing: a step forward in bone tissue engineering

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*

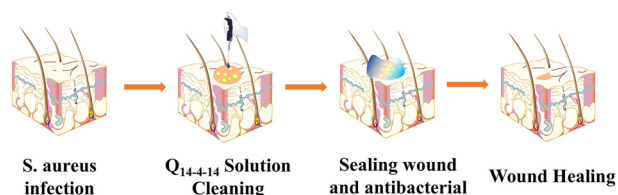
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Methylquinolinium-enhanced near-infrared hemicyanine dye for ratiometric NAD(P)H sensing in live cells via carbon-carbon bond conjugation

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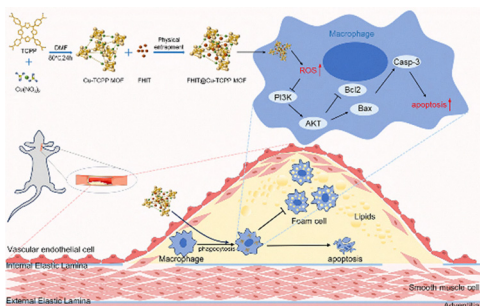
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Degradable gemini quaternary ammonium salts for wound sterilization: an antibiotic-free strategy

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

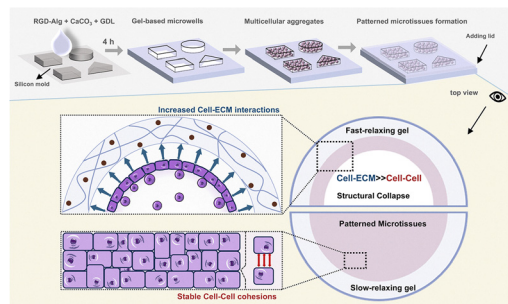
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Engineering patterned tumor microtissues in 3D microwells via stress relaxation-regulated cell–matrix interactions

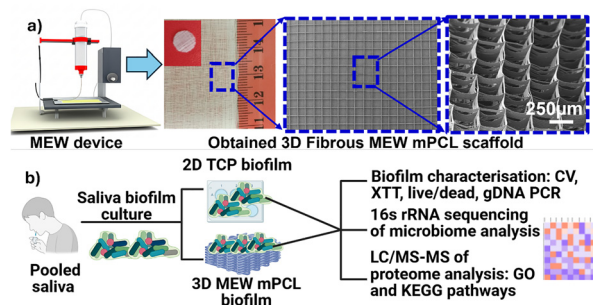
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A ratiometric fluorescent probe with dual red/near-infrared emissions for monitoring lysosomal pH fluctuations

Huiying Mu, Ryo Tanaka, Ryo Kubota, Koji Miki and Kouichi Ohe*

