

# Biomaterials Science

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

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### Cover

See Raechelle A. D'Sa *et al.*,  
pp. 4664–4681.

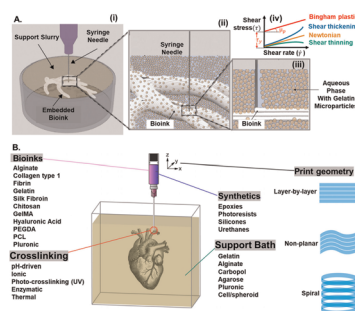
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*Biomater. Sci.*, 2024, **12**,  
4664.

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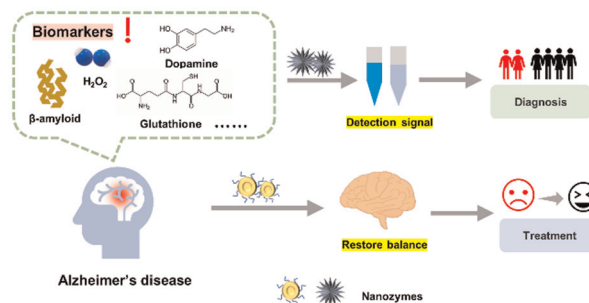
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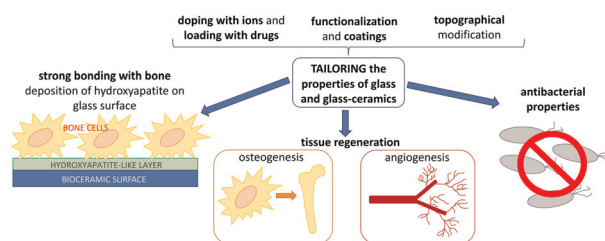
**Fundamental questions  
Elemental answers**

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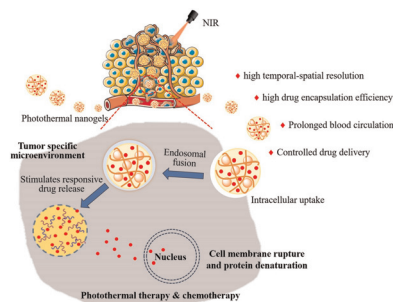
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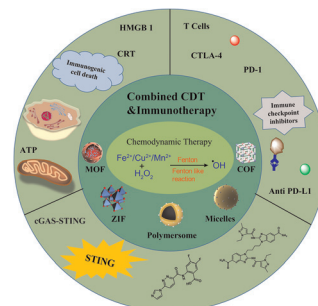
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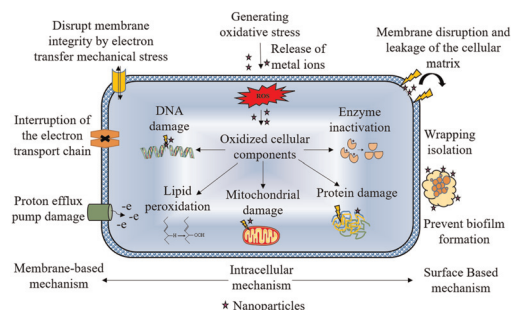
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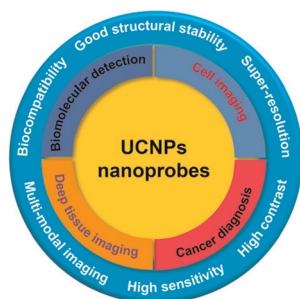
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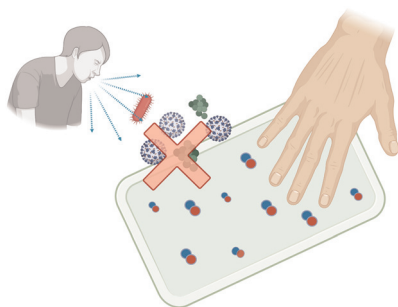


### Lanthanide-doped upconversion nanoparticles as nanoprobe for bioimaging

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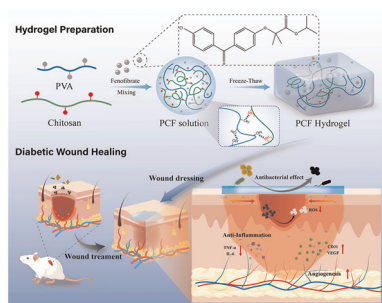
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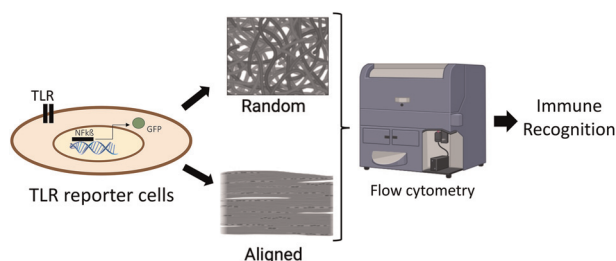
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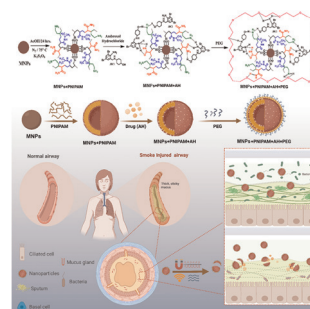


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### A magnetic mucus-penetrating nanoagent boosting phlegm elimination for inhalation injury treatment

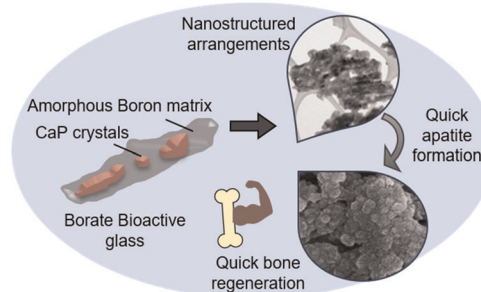
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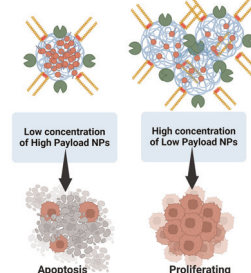


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### Enhanced anticancer effect of lysozyme-functionalized metformin-loaded shellac nanoparticles on a 3D cell model: role of the nanoparticle and payload concentrations

Anheng Wang, Leigh A. Madden and Vesselin N. Paunov\*

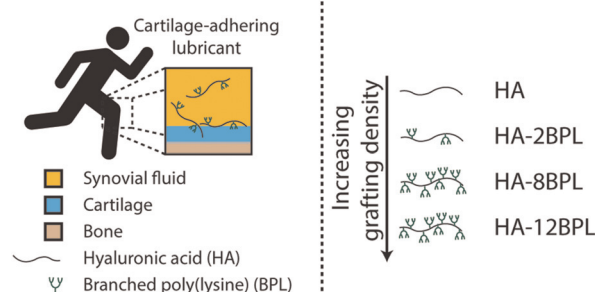
Approaches for nanocarrier delivery of metformin



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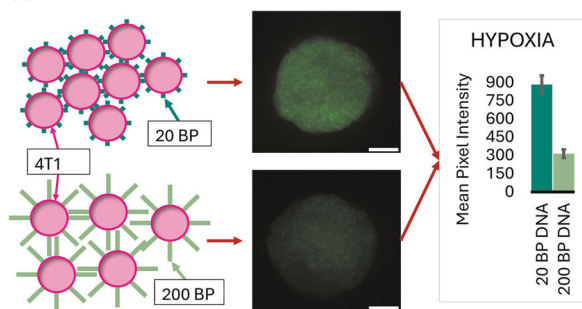
### Grafting of cationic molecules to hyaluronic acid improves adsorption and cartilage lubrication

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## PAPERS

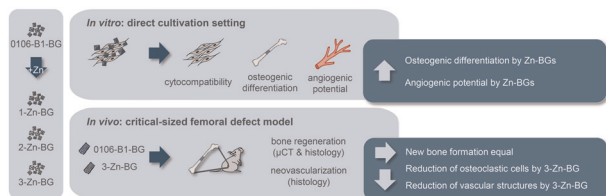
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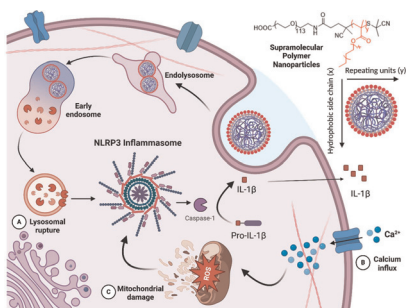
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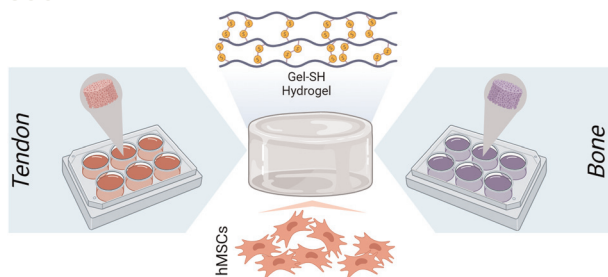
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