

Environmental Science journals

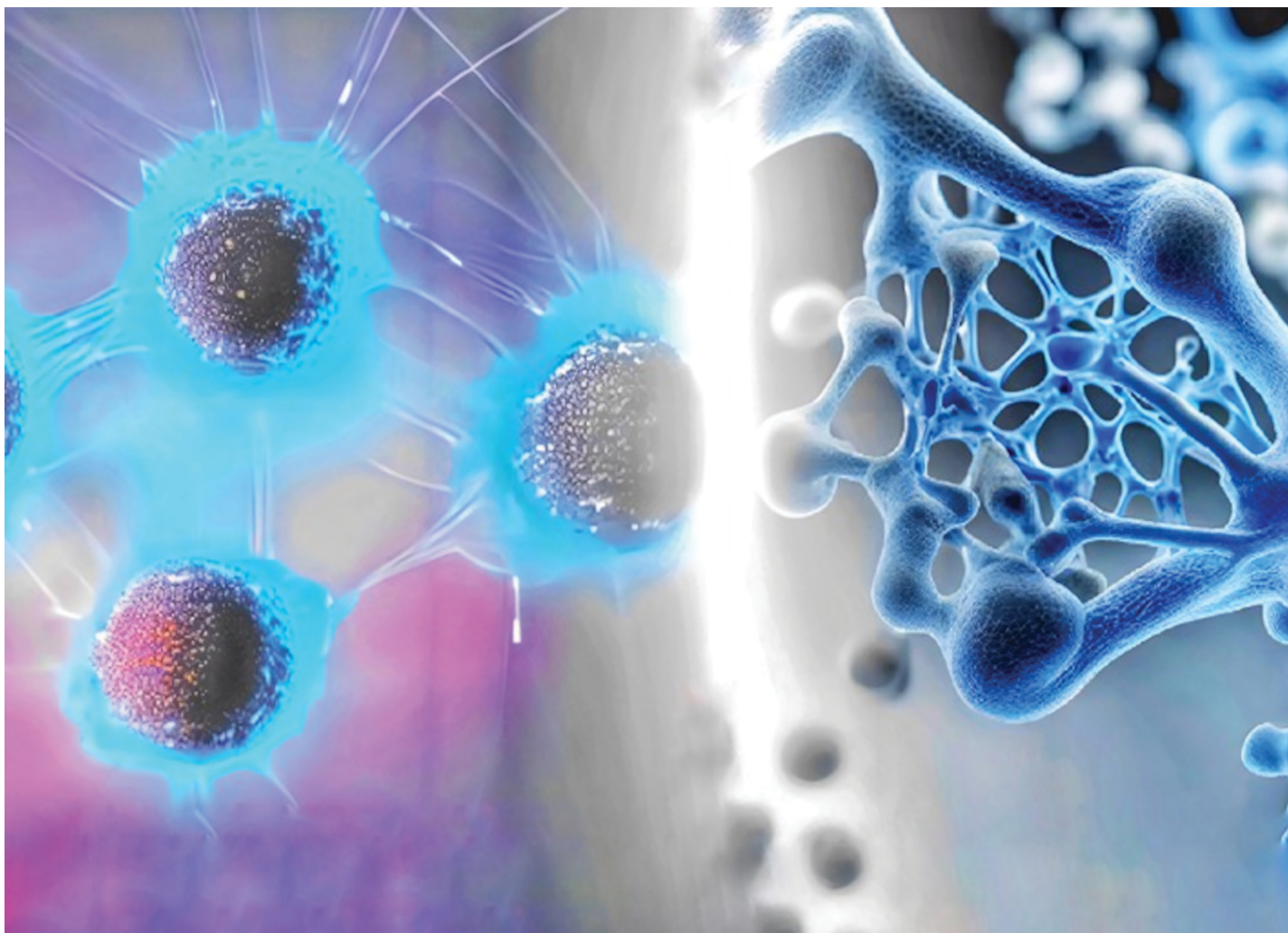
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Fundamental questions
Elemental answers



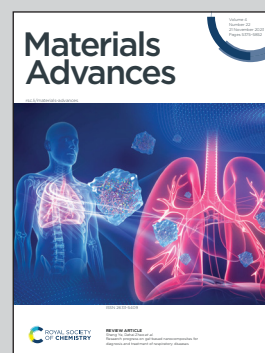


Showcasing research Professor Ana Leite Oliveira's laboratory (Biomaterials and Biomedical technology) at Centre of Biotechnology and Fine Chemistry, Faculty of Biotechnology, Catholic University, Porto, Portugal.

Tackling current production of HAp and HAp-driven biomaterials

The present work explores the latest trends in Hydroxyapatite (HAp)-based biomaterials. HAp has a well-established clinical track record, and recent efforts have focused on enhancing its properties by combining it with other materials, growth factors, and cells. 3D printing has emerged as a promising technology for these biomaterials, offering the potential for complex structures and on-demand production. However, manufacturing reproducible materials and ensuring scalability remains challenging. The limitations associated with HAp-based materials are addressed as well as the importance of continuous production for achieving uniform properties and enabling research-clinical-industry transition.

As featured in:



See João B. Costa,
Ana L. Oliveira *et al.*,
Mater. Adv., 2023, 4, 5453.