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Title: Preparation and Characterization of Biodegradable Nanocomposites Derived from Carboxymethyl Cellulose and Hydroxyapatite

Author: K. Azzaoui E. Mejdoubi A. Lamhamdi S. Jodeh O. Hamed M. Berrabah S. Jerdioui R. Salghi N. Akartasse A. Errich Á. Ríos M. Zougagh



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Highlights:

- A new bio-based composite prepared by two methods: casting and double decomposition.
- The casting method provides a water-soluble film, that's rough and non-flexible.
- Developed membranes have extraction efficiency suitable for the toxic material
- Analysis data has shown effective interactions between hydroxyapatite and CMC plasticized with lysine
- Antibacterial and antifungal analysis has shown that the composites exhibit both antifungal and antimicrobial activities.

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