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Authors: Shumin Pang, Yuan He, Ping He, Xueshi Luo, Zhenzhao Guo, Hong Li



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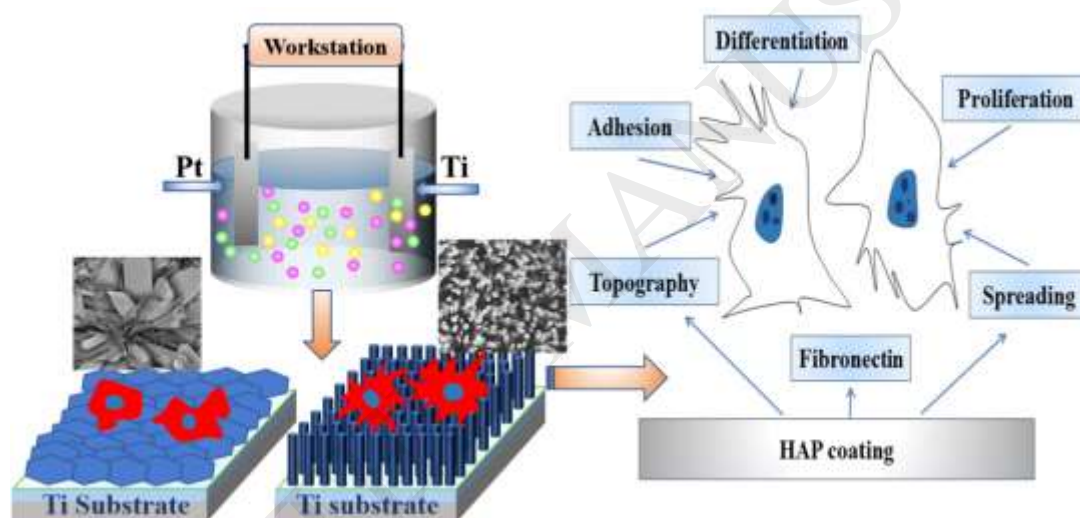
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Fabrication of Two Distinct Hydroxyapatite Coatings and Their Effects on MC3T3-E1 Cell Behavior

Shumin Pang, Yuan He, Ping He, Xueshi Luo, ZhenzhaoGuo, Hong Li*

Department of Materials Science and Engineering, Jinan University, Guangzhou, 510632, China

Graphical Abstract



Two distinct hydroxyapatite (HAP) with ordered rod-like and flower plate-like HAP crystals were deposited directly on titanium surface and MC3T3-E1 cells responds on them were investigated.

Highlights

- Rod-like and flake-like hydroxyapatite coatings were fabricated.
- With different crystal orientation, surface roughness and wettability.
- Rod-like one prefers cell spreading, proliferation and osteogenic differentiation.
- Might cause topography-dependent coordination with biomolecules.

Abstract

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