

# Review of: "Hydroxyapatite coating techniques for Titanium Dental Implants — an overview"

Ines Fasolino<sup>1</sup>

<sup>1</sup> Italian National Research Council

**Potential competing interests:** No potential competing interests to declare.

In brief, the manuscript titled "Hydroxyapatite coating techniques for Titanium Dental Implants — an overview" describes in detail several techniques for performing hydroxyapatite-based coatings useful for Titanium Dental Implants. In my opinion, the overview is well organized and rich in contents but it should be enriched with minor revisions for the final publication. -However, one of the most common problem related to titanium implants is the onset of local bacterial infections and inflammatory processes which inhibit the bone formation process. Therefore, in the section of Hydroxyapatite coatings obtained by sol-gel technique, the authors should mention articles which report Hydroxyapatite functionalized with innovative antibacterial, anti-inflammatory and osteoinductive compounds such as Ionic liquids (ILs) and Harpagoside (Antimicrobial Imidazolium Ionic Liquids for the Development of Minimal Invasive Calcium Phosphate-Based Bionanocomposites, ACS Applied Materials & Interfaces 2018, 10,42766-42776; Osteogenic and Anti-Inflammatory Behavior of Injectable Calcium Phosphate Loaded with Therapeutic Drugs, Nanomaterials 2020, 10, 1743). -Furthermore, the language of the manuscript should be improved with native English.