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# **Synthetic and Biological-Derived Hydroxyapatite Implant Coatings**

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# **Message from the Guest Editors**

Dear Colleagues,

HA is a well-known bioceramic which possesses a close chemical and structural resemblance to the mineral composition of bones and teeth of vertebrates. Despite their favorable bone regeneration properties, HA ceramics are very brittle, and this restricts their usage in high load-bearing applications. To overcome this drawback, HA can be applied as a coating on either metallic or polymeric implants, aiming to significantly improve the implant's overall performance by harmoniously combining the excellent bioactivity of the ceramic with the mechanical advantages of the substrate implants. In particular, the topics of interest of this Special Issue include, but are not limited to:

Synthetic and biological-derived HA coatings for orthopedic and dental implants;

Drug delivery;

Composite HA-based coatings;

Doping of synthetic and biological-derived HA coatings;

Alternative methods for the deposition of synthetic and biological-derived HA coatings;

Biofunctional assessment of synthetic and biologicalderived HA coatings.







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# **Message from the Editorial Board**

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