



Biomineralization and Biomaterials: Fundamentals and Applications

Conrado Aparicio, Maria Pau Ginebra

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Biomineralization is a natural process by which living organisms form minerals in association with organic biostructures to form hybrid biological materials such as bone, enamel, dentine and nacre among others. Scientists have researched the fundamentals of these processes and the unique structures and properties of the resulting mineralized tissues. Inspired by them, new biomaterials for tissue engineering and regenerative medicine have been developed in recent years.

Biomineralization and biomaterials: fundamentals and applications looks at the characteristics of these essential processes and natural materials and describes strategies and technologies to biomimetically design and produce biomaterials with improved biological performance.

- Provides a thorough overview of the biomineralization process
- Presents the most recent information on the natural process by which crystals in tissues form into inorganic structures such as bone, teeth, and other natural mineralized tissues
- Investigates methods for improving mineralization
- Explores new techniques that will help improve the biomimetic process



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