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Sommario/riassunto	Recent developments in nanostructured materials have led to a shift in focus away from the replacement of tissues and towards regeneration. Nanoceramics with biomimetic properties have great potential in bone regeneration and new synthesis strategies have been developed to obtain materials with improved biocompatibility and multifunctional performance. The aim is to develop fully biocompatible implants, which exhibit biological responses at the nanometric scale in the same way that biogenic materials do. Current man-made implants are not fully biocompatible and always result in a foreign body