

NANOSTRUCTURED CALCIUM PHOSPHATE BIOMATERIALS

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ABSTRACT

The research of nanostructured calcium phosphate materials in Rudolfs Cimdins Riga Biomaterials Innovations and Development Centre, Faculty of Materials Science and Applied Chemistry, Riga Technical University (RBIDC) have been performed already for more than 20 years. Although calcium phosphates are well known in bone tissue regeneration applications and bioactive substance delivery, continuous research is still actively ongoing in order to increase biocompatibility, control regenerative processes and mimic nanostructure of natural bone. In current presentation historically developed materials and progress achieved in several recent research projects at RBIDC will be presented and discussed.