

TITLE: BIOMATERIAL COMPRISING OSTEOSTATIN FOR OSSEOUS REGENERATION AND TISSUE ENGINEERING

FIELD OF INTEREST

Biomaterials (Bone, Tissue Engineering, Regeneration)

CLINICAL NEED

Situations regarding osteoarticular damage are often irreversible such as fractures (especially in the presence of osteopenia / osteoporosis). There is a growing demand for tools to accelerate tissue engineered bone regeneration. Among these tools, a variety of growth factors have been investigated, although none of them are perfect.

DESCRIPTION OF THE INVENTION

The invention relates to bioactive bioceramics for the local and controlled release of PTHrP (107-111), also known as osteostatin or TRSAW, and to the methods used to bind the pentapeptide to the bioceramic by covalent bonding or by adsorption. The immobilisation of PTHrP in bioactive bioceramics enables the controlled release of said peptide and/or its local exposition, providing the bioactive-PTHrP bioceramic systems with an osteoinductive and osteointegration capacity.

TECHNOLOGY KEYWORDS

Osteostatin, Bioceramics, TRSAW, PTHrP, Bone, Regeneration

IPR Status

Patent application number: P201031193.

Applicants: UCM, UAH, FIIS-FJD.

TYPE AND ROLE OF PARTNERS

Looking for commercial partners interested in licensing.

Contact details:

Innovation Unit

e-mail: irene.ruano@fjd.es

Phone number: 0034-915504800 Ext.3455