

HIGHLY FUNCTIONAL IMPLANT MATERIAL

ABSTRACT

The purpose of the present invention is to provide: a method for preparing a cell product for use in the production of an implant, which can improve the surface properties of a material by a simple technique and can integrate a bone with a metallic implant material satisfactorily within a given period of time; a product produced by the method; and a sophisticated implant produced using the product. A cell product containing Col-I, OCN, OPN, BSP, fibronectin and VEGF or another growth factor which are produced by a bone marrow stromal cell or an immortalized milk teeth stem cell is prepared from the bone marrow stromal cell or the immortalized milk teeth stem cell, and a sophisticated implant having the growth factor immobilized on the surface thereof is provided using the resultant cell product and a mineralizing solution.

[No Figure]