

## Recent patent applications in biomaterials

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
JP 2012157578	Biological implant material comprising calcium phosphate and titanium hydride; useful for stimulating growth and proliferation of osteoblasts, and used as medical biomaterials, e.g., artificial bone.	Tokai University (Tokyo)	Hayakawa Y, Ishiwatari K, Matsushita J, Takahashi R, Takehana T	2/1/2011	8/23/2012
US 20120208722	A method of preparing a surface-enhanced Raman spectroscopy (SERS) platform for the detection of a biomaterial, comprising contacting a portion of azide-functional groups on the surface of a solid substrate with at least one cyclooctyne having a biomaterial attached to it, to form a triazole.	Boons G, Dluhy R, Guo J, Li X, Martin S	Boons G, Dluhy R, Guo J, Li X, Martin S	10/19/2010	8/16/2012
US 20120201858	An implant comprising a matrix formed of a multiple arm peptide-substrate (MAP-S) formed of a biomaterial-coated substrate S and a multiple MAP peptide; useful for, e.g., wound healing of vascular tissue, soft tissue, joints and bone.	Imran M, Li C	Imran M, Li C	9/16/2003	8/9/2012
IN 253557	A method of obtaining biomaterials coated with growth factor incorporated fibrin adhesive, comprising subjecting the surface of the material to adsorption of enzyme activity by exposing it with a solution of enzyme thrombin; coating the surface with a protein composition and allowing fibrinogen in the mixture to polymerize on thrombin-adsorbed surface; and freeze-drying to a range of -40 °C to -55 °C.	Sree Chitra Tirunal Institute for Medical Sciences & Technology (Kerala, India)	Lissy KK	2/21/2000	8/3/2012
WO 2012102535	A composition comprising tyrosine oxide-coupled biomaterial useful for detecting proteins for diagnosing various diseases conveniently and rapidly in real time in an operation room.	Proteome Tech. Co. (Seoul)	Kim BJ, Lim JI, Lim KJ, Park SJ, Yoo KH	1/26/2011	8/2/2012
JP 2012143220	A culture apparatus for biomaterial comprising a container consisting of a side wall, bottom part and an opening at one end and another container consisting of a side wall, bottom part and latching part which can be latched on the side wall of the first container.	Sumitomo Bakelite Co. (Tokyo)	Akamine A, Hayashi D, Okubo H, Sakura T	1/14/2011	8/2/2012
US 20120186513	A Kyropoulos sapphire single crystal growing apparatus comprising a chamber filled with heat-insulating material, heating element, elliptic crucible located inside heating element and support member; used as biomaterial for artificial joints and teeth.	DK Aztec Co. (Ansung, S. Korea)	Park JK, Gwan PJ	1/26/2011	7/26/2012
KR 1168166	A device for the detection of biomass, comprising a detection unit formed in lower side of load, head, adapter, tube joint protruded to lower side of the head, and load formed to extend from the lower side of the tube joint; useful for biomaterial.	K-MAC (Daejeon, S. Korea)	Ku SJ, Lee JH, Paek MC, Park JH, Seo SM, Sergiy O	2/29/2012	7/24/2012
WO 2012094708	Biomaterial comprising porous polymer, osteoinductive compound and bone anticatabolic compound; useful for treating dental injury or defect, and bone injuries or defects, such as bone fracture and joint replacement.	University of Queensland (St. Lucia, Queensland, Australia), Sydney Children's Hospitals Network (Westmead, NSW, Australia)	Cooper-White J, Kenna J, Little D, Schindeler A, Yu N	1/12/2011	7/19/2012
WO 2012095346	A composite comprising silica aerogel and hydrogel useful for drug or protein delivery, and for biomaterials.	Koç University (Istanbul)	Erkey C, Giray S, Kizilel S	1/10/2011	7/19/2012
US 20120183985	Manufacture of microtissues for inducing growth of hair follicle, involving simultaneously seeding several dermal papilla cells and keratinocytes on a biomaterial substrate surface with a predetermined ratio and predetermined cell density.	National Taiwan University (Taipei)	Chan C, Lin S, Yen C	1/18/2011	7/19/2012

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