

Recent patent applications in biomedical imaging

Patent number	Description	Assignee	Inventor	Priority application date	Publication date
WO 2013122710	A method for analyzing vascular permeability and flow in human body using biomedical images, involving determining pharmacokinetic parameter value based on the application of a linear least squares fitting algorithm to a linear model.	Arizona Board of Regents (Tucson)	Cardenas-Rodriguez J, Page1 MD	2/13/2012	8/22/2013
US 20130208737	A variable repetition rate and wavelength optical pulse source for imaging applications that enables the source of supercontinuum pulses and optical bandpass filter to provide variable repetition rate and variable wavelength optical pulses.	Clowes JR, Godfrey IM, Grudinin AB	Clowes JR, Godfrey IM, Grudinin AB	1/19/2008	8/15/2013
US 20130188241	An optical pulse source for generating optical supercontinuum pulses for, e.g., biomedical imaging application; has an optical fiber in which optical pump pulses are launched without the use of free space optics.	Clowes JR, Godfrey IM, Grudinin AB	Clowes JR, Godfrey IM, Grudinin AB	1/19/2007	7/25/2013
WO 2013088144	A method for transforming a biomedical image of a heart, involving calculating a transform value indicative of a voxel for representing a tissue type for each voxel of a biomedical image and calculating the clinical indicator from the voxel value of the extracted image segment.	Gardiner S, University of Stavanger (Stavanger, Norway), Stavanger University Hospital (Stavanger, Norway)	Eftestol T, Engan K, Kotu LP, Orn S, Woie L	12/12/2011	6/20/2013
WO 2013078244	A new rhodamine-type compound used, e.g., as a fluorescent dye, in medical diagnostics and for labeling a protein for quantification of protein interactions and detecting the presence of an enzyme in a sample.	Promega (Madison, WI, USA)	Dwight S, Kirkland TA, McDougall MG	11/21/2011	5/30/2013
CN 102951642	A method for preparing water-soluble nano-silicon particles, comprising carrying out an electrochemical corrosion of a monocrystalline silicon sheet to obtain a porous silicon sheet and mixing the sheet in organic solvent; useful, e.g., for biomedical imaging.	Changzhou Nuoruige Nanotechnology (Changzhou, China)	Chao Y	8/31/2011	3/6/2013
CN 102925160	A method of synthesizing gold-doped fluorescent quantum dots used for biomedical imaging and biological analysis, comprising reacting, e.g., potassium borohydride and tellurium powder and adding, e.g., water-soluble cadmium salt and gold compound.	Zhejiang University (Hangzhou, China)	Han S, Jin W, Mu Y	1/8/2010	2/13/2013
WO 2013116322	A method for generating thermo-acoustic signals for thermo-acoustic tomography and hyperthermia, involving receiving an ultrasonic signal from the region imbued with magnetic particles generated by particles under a pulsed magnetic field.	Oklahoma State University (Stillwater, OK, USA)	Piao D	1/30/2012	1/30/2013

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