

Bone Pathophysiology and Biomaterials Group

Publications: 7

Q1: 4



RESEARCH ACTIVITY

■ Doctoral theses

Sánchez Casanova S. Hidrogeles foto-térmicos con aplicación en ingeniería tisular ósea [dissertation]. Madrid: UAM: 2021(04/06/2021).

Director: Vilaboa Díaz N.

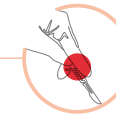
■ Publications

• Cifuentes SC, Saldaña L, González-Carrasco JL, Benavente R, García-Penas A. Effect of thermal processing on the dynamic/isothermal crystallization and cytocompatibility of polylactic acid for biomedical applications. *Macromol Chem Phys.* 2021; 222(23): 2100274. Article. IF: 2.996; Q2

- Aguado M, Saldaña L, del Río EP, Guasch J, Pareira M, Córdoba A, Seras-Franzoso J, Cano-Garrido O, Vazquez E, Villaverde A, Veciana J, Ratera I, Vilaboa N, Ventosa N. Polylactide, processed by a foaming method using compressed freon r134a, for tissue engineering. *Polymers-Basel.* 2021; 13(20): -3453. Article. IF: 4,967; Q1
- Maestro-Paramio L, García-Rey E, Bensiamar F,

Saldana L. Osteoblast function in patients with idiopathic osteonecrosis of the femoral head implications for a possible novel therapy. *Bone Joint Res.* 2021; 10(9): 619-28. Article. IF: 4.41; Q1

- García-Rey E, Saldaña L, García-Cimbrello E. Impaction bone grafting in hip re-revision surgery bone stock restoration and radiological migration of the acetabular component. *Bone Joint J.*



2021; 103B(3): 492-9. Article. IF: 5.385; D1

- García-Rey E, Bizot P, García-Cimbrelo E. Ceramic-on-ceramic cementless total hip arthroplasty in patients aged 40 years or under: Do preoperative conditions affect long-term results? Orthop Traumatol-Sur. 2021; 107(1): 102763. Article. IF: 2.425; Q3
- Fernández-Villa D, Asensio G, Silva M, Ramírez-Jiménez RA, Saldaña L, Vilaboa N, Leite-Oliveira A, San Román J, Vázquez-Lasa B, Rojo L. Vitamin B9 derivatives as carriers of bioactive cations for musculoskeletal regeneration applications: Synthesis, characterization and biological evaluation. Eur J Med Chem. 2021; 212: 113152. Article. IF: 7.088; D1
- Valles G, García-Rey E, Saldaña L, García-Cimbrelo E, Vilaboa N. Wear of hip prostheses increases serum IGFBP-1 levels in patients with aseptic loosening. Sci Rep-Uk. 2021; 11(1): 576. Article. IF: 4.996; Q2

■ Research projects

Huarte Sebastián C. Contrato garantía juvenil (PEJ-2020-AI/BMD-17656). CAM. 2021-2021.

Management centre: FIBHULP

Lerma Juarez MA. Contrato predoctoral (PRE2019-090430). MICIU. 2020-2024.

Management centre: FIBHULP

Ortega Ponce D. Nanotecnología en hipertermia traslacional (RED2018-102626-T). MICIU. 2020-2022.

Management centre: Fundación IMDEA Nanociencia

Saldaña Quero L. Identificación de factores moleculares implicados en la osteonecrosis idiopática: análisis del transcrito del tejido óseo (PI18/00643). ISCIII. 2019-2023.

Management centre: FIBHULP

Serrano Yamba RF. Contrato garantía juvenil (PEJ-2020-AI/BMD-17656). CAM. 2021-2023.

Management centre: FIBHULP

Vilaboa Díaz NE, Saldaña Quero L. Desarrollo de fluidos que potencien o favorezcan la osteointegración de los implantes ante distintas situaciones. Mozo-Grau S. A. 2017-Ongoing.

Management centre: FIBHULP

Vilaboa Díaz NE. Contrato Miguel Serret Categoría A (CES07/031). CM. 2007-2025.

Management centre: FIBHULP

Vilaboa Díaz NE. Detección de activación de HSF parte II. HSF Pharmaceutica. 2004-Ongoing.

Management centre: FIBHULP

Vilaboa Díaz NE. Hidrogeles que responden a energía infrarroja y contienen adenovirus de alta capacidad. Aplicación en regeneración ósea (RTI2018-095159-B-I00). MICIU. 2019-2022.

Management centre: FIBHULP

■ Cibers & Retics

Vilaboa Díaz NE. Networked Biomedical Research Center for Bio-engineering, Biomaterials and Nanomedicine (CB06/01/0008). Carlos III Health Institute. (31/12/2022).

Management centre: FIBHULP

■ Patents and trademarks

Vilaboa Díaz NE, González Carrasco JL, Saldaña Quero L, Frutos Torres E. inventors; FIBHULP, CSIC, CIBER-BBN, assignees. Method to obtain a metallic-coated biomaterial; P201030949, PCT/ES2011/070400; 2010 June 21.

Vilaboa Díaz NE, González Carrasco

JL, Multigner Domínguez M, Lieblich Rodríguez M, Muñoz Hernández M, Frutos Torres E, Saldaña Quero L, inventors; FIBHULP, CSIC, CIBER-BBN, Universidad Alfonso X El Sabio, assignees. Magnesium/polymer composite biomaterial for biomedical applications; P201030950, PCT/ES2011/070440; 2010 June 21.

Fabiilli M, Wilson C, Padilla F, Martín Saavedra FM, inventors; The regents of the University of Michigan, assignee. Ultrasound-triggerable agents for tissue engineering; PCT/US2013/044817, US2013/0330389; 2012 June 08.

Vilaboa Díaz NE, Calzado Martín A, Crespo García L, Saldaña Quero L, Moreo Calvo P, Alastrué Vera V, inventors; FIBHULP, CIBER-BBN, assignees. Chamber device for dynamic cell culture on biomaterials; P201330040, PCT/ES2013/070819; 2013 January 16.

Martín Saavedra FM, Vilaboa Díaz NE, Cebrián Hernando V, Arruebo Gordo M, Santamaría Ramiro J, Gómez Navascués L, inventors; FIBHULP, CIBER-BBN, Universidad de Zaragoza, assignees. Fibrin hydrogel with plasmonic nanoparticles; P201330894, PCT/ES2014/070484; 2013 June 14.

González Carrasco JL, Benavente Castro R, Cifuentes Cuellar SC, Lieblich Rodríguez M, Olalde Graells B, Atorrastagasti Goyalde G, Argarate Madariaga N, Pacha Olivenza MA, Fernández Calderón MC, Saldaña Quero L, González Martín ML, Pérez Giraldo C, Gallardo Moreno AM, inventors; CSIC, Fundación Tecnalia Research & Innovation, FIBHULP, Universidad de Extremadura, Centro de Investigación Biomédica en Red (CIBER).

Moldable, biodegradable, biocompatible and bioresorbable implant material, method for its preparation and uses thereof. P201530683; 2015 May 18.

Voellmy R, Vilaboa Díaz NE, inventors; HSF Pharmaceuticals S.A., assignee. Inhibitors of heat shock factor I and uses thereof. US 62/495,501 and US62/499,650, PCT/EP2017/072930, EP3512602; 2016 September 16 and 2017 February 02.

Voellmy R, Vilaboa Díaz NE. Inventors; HSF Pharmaceuticals SA. Assignees. Compounds that induce protein unfolding and a mitigated response thereto, and methods of use thereof. US 62/764,569. 2018 August 08

