Date of the CVA	16/12/2020

Section A. PERSONAL DATA

Name and Surname	MARTA MONJO CABRER		
DNI	43104189G	Age	44
Researcher's identification number	Researcher ID		
	Scopus Author ID	7801549521	
	ORCID	0000-0002-2731-9527	

* Obligatorio

A.1. Current professional situation

Institution	Universidad de las Islas Baleares			
Dpt. / Centre	Faculty of Sciences / Department of Fundamental Biology and Health Sciences			
Address	IUNICS. Carretera de Valldemossa, km 7.5, 07122, Palma			
Phone	971259960 - 9960	Email	marta.monjo@uib.es	
Professional category	Senior lecturer		Start date	2017
Keywords				

A.3. General quality indicators of scientific production

She has recognized 4 teaching five-year periods, 3 research six-year periods (2000-2017), 1 technology transfer six year period (2004-2009), as well as the remuneration complements of stimulation and recognition to the teaching, the research activity and the research excellence and the technology transfer of knowledge from the Balearic Government.He has directed 4 doctoral theses in the last 5 years, and is currently directing another 7. Of the total of 79 publications, 46 publications correspond to the first quartile (Q1). Since 2016 it has 1054 citations and an H index of 24 (Scopus).

Section B. SUMMARY OF THE CURRICULUM

- Marta Monjo received her Bachelor degree in Biology (1998) and Biochemistry (1999) at the University of Balearic Islands (UIB). PhD student at the Department of Fundamental Biology and Health Sciences (UIB) from 2000 to 2004. PhD thesis at UIB in April 2004. Visiting researcher in 2001 and 2002 at the Institute for Nutrition Research (University of Oslo, Norway). Post-doc at the Department of Biomaterials (University of Oslo, Norway) from February 2004 to December 2008. Adjunct Lecturer at the Department of Fundamental Biology and Health Sciences (UIB) from October 2007 to December 2008. 'Ramón y Cajal' Researcher at UIB from January 2009 until December 2013. From 2014 until 2017 she had a Contract lecturer with a doctoral degree position at UIB. Nowadays, she holds a Professor position at UIB. She is the principal investigator of the group 'Cell Therapy and Tissue Engineering' at IUNICS-UIB, coordinates de Area of Bioengineering and Experimental Surgery and member of the Internal Scientific Committee at the Instituto de Investigación Sanitaria de las Islas Baleares (IdISBa). She has participated in the creation of 2 biotech companies. During her postdoctoral stage at University of Oslo (2004-2008) and now as Researcher at UIB (2009-), she has gained experience in technology transfer activities, development and manufacturing of new biomaterials, dental implants and specific medical device products. Her research has resulted up to now in the publication of more than 70 research articles, more than 80 presentations to national and international conferences, and 4 patents. She has participated in 23 R&D projects (11 as main investigator) and 19 contracts with companies. She is part of the Editorial Board of 2 Journals. She has received several prizes for her entrepreneurship. She has been part of the executive commission of The Balearic Islands Biotechnology and Biomedical Cluster since its beginning until September 2013. She is the coordinator of the Doctoral Degree in Translational Research in Public Health and High Prevalence Diseases (TISP) from UIB-IUNICS.

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

AC: Autor de correspondencia; (nº x / nº y): posición firma solicitante / total autores

1 **Scientific paper**. Ramis, J.M.; Blasco-Ferrer, M; Calvo, J.; Villa, O.; Cladera, M.M.; Corbillo, C.; Gayà, A.; Monjo, M.(8/8). 2020. Improved physical and osteoinductive properties of demineralized bone matrix (DBM) by gelatin methacryloyl (GelMA) formulation 914209 - Journal Of Tissue Engineering And Regenerative Medicine. 14, pp.475-485. ISSN 1932-6254.

2 **Scientific paper**. Forteza-Genestra, M.A.; Antich-Rosselló, M.; Calvo, J.; Gayà, A.; Monjo, M.; Ramis, J.M.(5/6). 2020. Purity determines the effect of Extracellular Vesicles derived from Mesenchymal Stromal Cells 918809 - Cells. 9-2, pp.422. ISSN 2073-4409.

3 **Scientific paper**. Llopis-Grimalt, M.A.; Arbós, A.; Gil-Mir, M.; Mosur, A.; Kulkarni, P.; Salito, A.; Ramis, J.M.; Monjo, M.(8/8). 2020. Multifunctional properties of quercitrin coated Porous Ti-6Al-4V implants for orthopaedic applications assessed in vitro.918812 - Journal Of Clinical Medicine. 9-3, pp.855. ISSN 2077-0383.

4 **Scientific paper**. Antich-Rosselló, M.; Forteza-Genestra, M.A.; Calvo, J.; Gayà, A.; Monjo, M.; Ramis, J.M.(5/6). 2020. Platelet derived extracellular vesicles promote osteoinduction of mesenchymal stem cells 918044 - Bone & Joint Research. 9-10, pp.667-674. ISSN 2046-3758.

5 **Scientific paper**. Llopis-Grimalt, M.A.; Amengual-Tugores, A.M.; Monjo, M.; Ramis, J.M.(3/4). 2019. Oriented Cell Alignment Induced by a Nanostructured Titanium Surface Enhances Expression of Cell Differentiation Markers 918068 - Nanomaterials. 9-12, pp.1-12. ISSN 2079-4991.

6 **Scientific paper**. Perale, G.; Monjo, M.; Ramis, J.M.; Øvrebø, Ø.; Betge, F.; Lyngstadaas, P.; Haugen, H.J.(2/7). 2019. Biomimetic Biomolecules in Next Generation Xeno-Hybrid Bone Graft Material Show Enhanced In Vitro Bone Cells Response 918812 - Journal Of Clinical Medicine. 8-12, pp.1-19. ISSN 2077-0383.

7 **Scientific paper**. Ramis, J.M.; Calvo, J.; Matas, A.; Corbillo, C.; Gayà, A.; Monjo, M.(6/6). 2018. Enhanced osteoinductive capacity and decreased variability by enrichment of demineralized bone matrix with a bone protein extract.908128 - Journal of Materials Science-Materials in Medicine. 29, pp.103. ISSN 0957-4530.

8 **Scientific paper**. Ramis, J.M.; Coelho, C.C.; Córdoba, A.; Quadros, P.A.; Monjo, M.(5/5). 2018. Safety Assessment of Nano-Hydroxyapatite as an Oral Care Ingredient according to the EU Cosmetics Regulation 002498 - Cosmetics. 5-3, pp.53. ISSN 2079-9284.

9 **Scientific paper**. Ferrà-Cañellas, M.M.; Llopis-Grimalt, M.M.; Monjo M.; Ramis, J.M.(3/4). 2018. Tuning nanopore diameter of titanium surfaces to improve human gingival fibroblast respons 913186 - International Journal Of Molecular Sciences. 19-10, pp.2881. ISSN 1422-0067.

10 **Scientific paper**. Córdoba, A.; Manzanaro-Moreno, N.; Colom, C.; Rønold, H.J.; Lyngstadaas , S.P.; Monjo, M.; Ramis, J.M.(6/7). 2018. Quercitrin Nanocoated Implant Surfaces Reduce Osteoclast Activity In Vitro and In Vivo.913186 - International Journal Of Molecular Sciences. 19-11. ISSN 1422-0067.

11 **Scientific paper**. Satué M; Monjo M; Ronold HJ; Lyngstadaas SP; Ramis JM. (2/5). 2017. Titanium implants coated with UV-irradiated vitamin D precursor and vitamin E: in vivo performance and coating stability 908666 - Clinical Oral Implants Research. 28, pp.424-431. ISSN 0905-7161.

12 **Scientific paper**. Satúe, M.; Ramis, J.M.; Monjo, M.(3/3). 2016. UV-activated 7-dehydrocholesterol coated titanium implants promote differentiation of human umbilical cord mesenchymal stem cells into osteoblasts 909986 - Journal of Biomaterials Applications. 30-6, pp.770-779. ISSN 0885-3282.

13 **Scientific paper**. Satué M.; Gómez-Florit M.; Monjo M.; Ramis J.M.(3/4). 2016. Improved human gingival fibroblast response to titanium implants coated with UV-irradiated vitamin D precursor and vitamin E.901044 - Journal of Periodontal Research. 51-342, pp.349. ISSN 0022-3484.

14 **Scientific paper**. Gomez-Florit, M.; Pacha-Olivenza, M.A.; Fernández-Calderón, M.C.; Córdoba, A.; González-Martín, M.L.; Monjo, M.; Ramis, J.M.(6/7). 2016. Quercitrin-nanocoated titanium surfaces favour gingival cells against oral bacteria 917079 - Scientific Reports. Nature Publishing Group. 6-22444. ISSN 2045-2322.

15 **Scientific paper**. Córdoba, A.; Hierro-Oliva,M.; Pacha, M.A.; et al; Monjo, M.; Ramis, J.M.(8/9). 2016. Direct Covalent Grafting of Phytate to Titanium Surfaces through Ti-O-P Bonding Shows Bone Stimulating Surface Properties and Decreased Bacterial Adhesion 914334 - Acs Applied Materials & Interfaces. 8-18, pp.11326-11335. ISSN 1944-8244.

16 **Scientific paper**. Caubet, J.; Ramis, J.M.; Ramos-Murguialday, M.; Morey, M.; Monjo, M.(5/5). 2015. Gene expression and morphometric parameters of human bone biopsies after maxillary sinus floor elevation with autologous bone combined with Bio-Oss® or BoneCeramic® 908666 - Clinical Oral Implants Research. 26-6, pp.727-735. ISSN 0905-7161.

17 **Scientific paper**. Satúe, M.; Ramis, J.M.; Arriero, M.M.; Monjo, M.(4/4). 2015. A new role for 5-methoxytryptophol on bone cells function in vitro.900305 - Journal of Cellular Biochemistry. 116-4, pp.551-558. ISSN 0730-2312.

18 **Scientific paper**. Córdoba, A.; Satué, M.; Gómez-Florit, M.; et al; Monjo, M.; Ramis, J.M.(8/9). 2015. Flavonoid-Modified Surfaces: Multifunctional Bioactive Biomaterials with Osteoinductive, Anti-Inflammatory and Anti-Fibrotic Potential on Human Stem Cells and Gingival Fibroblasts 917522 - Advanced Healthcare Materials. 4-4, pp.540-549. ISSN 2192-2640.

19 **Scientific paper**. Satúe, M.; Ramis, J.M.; Monjo, M.(3/3). 2015. Cholecalciferol synthesized after UV-activation of 7-dehydrocholesterol onto titanium implants inhibits osteoclastogenesis in vitro.912754 - Journal Of Biomedical Materials Research Part a. Wiley Periodicals. 103-7, pp.2280-2288. ISSN 1549-3296.

20 **Scientific paper**. Gómez-Florit M; Monjo M; Ramis JM. (2/3). 2015. Quercitrin for periodontal regeneration: effects on human gingival fibroblasts and mesenchymal stem cells 917079 - Scientific Reports. Nature Publishing Group. 5, pp.16593. ISSN 2045-2322.

C.2. Participation in R&D and Innovation projects

1 PI20/00115, 'Desarrollo de un adhesivo tisular anticancerígeno para la quimioterapia intraperitoneal del cáncer de ovario avanzado Instituto de Salud Carlos III. Marta Monjo Cabrer. (Fundació Institut d'Investigació Sanitària Illes Balears (IdISBa)). 01/01/2021-31/12/2023. 62.920 €.

2 SYN20/03, P-SEWVEN: Profiling of Sepsis-derived Extracellular Vesicles with Nanosensors Fundació Institut d'Investigació Sanitària Illes Balears (IdISBa). Joana Mª Ramis Morey y Roberto de la Rica Quesada. (Fundació Institut d'Investigació Sanitària Illes Balears (IdISBa)). 01/01/2021-31/12/2022. 79.528 €.

3 EQC2018-004206-P, Adquisición de un equipo de dispersión de rayos X de bajo ángulo (SAXS) Ministerio de Ciencia, Innovación y Universidades. Antonio Costa Torres. (Universidad de las Islas Baleares). 01/01/2018-31/12/2020. 599.500 €.

4 PI17/01605, Mejora de la capacidad osteoinductora de biomateriales utilizados para la regeneración ósea mediante la incorporación de vesículas extracelulares derivadas de plaquetas humanas Instituto de Salud Carlos III. Joana Maria Ramis Morey; Marta Monjo Cabrer. (Universidad de las Islas Baleares). 01/01/2018-31/12/2020. 68.970 €.

5 Evaluación del potencial regenerativo de un gel para el tratamiento de la periodontitis en un modelo de tejido gingival 3D in vitro (PERIOGEL). Convocatoria de ayuda al PDI para pruebas de concepto 2019. Fundació Universitat Empresa de les Illes Balears (FUEIB). Marta Monjo Cabrer. (Universidad de las Islas Baleares). 06/05/2019-31/12/2019. 4.000 €.

6 CP16/00124, Extracellular vesicles for cell-free regenerative medicine and its application for the treatment of Osteoarthritis Instituto de Salud Carlos III. Joana Maria Ramis Morey. (FUNDACION DE INVESTIGACION SANITARIA DE LAS ISLAS BALEARES RAMON LLULL (FISIB)). 01/01/2017-31/12/2019. 121.500 €.

7 AAEE073/2017, Adquisició d'una caixa seca Conselleria d' innovació, recerca i turisme. Montserrat Rodríguez Delgado. (Universidad de las Islas Baleares). 08/01/2018-08/01/2019. 24.999,2 €.

8 PI13/00372, Potenciación de las propiedades osteoinductoras de matriz osea desmineralizda (DBM) para su uso terpéutico en humanos Instituto de Salud Carlos III. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 01/01/2014-30/06/2018. 46.766,5 €.
9 13-069, Nanostructured flavonoid coated implants for soft tissue integration Osteology Foundation. Marta Monjo Cabrer/Joana Maria Ramis Morey. (Universidad de las Islas Baleares). 01/01/2015-31/12/2016. 75.046,45 €.
10 PROCOE15/2017, Optimización de recubrimientos de quercitrina sobre superficies de titanio para implantes óseos con mejor integración de los tejidos (OPTIQUER) Direcció General d'Innovació, CAIB. Joana Mª Ramis. (Institut d'Investigació Sanitària de Palma (IdISPa)). From 01/03/2018. 58.100 €.

C.3. Participation in R&D and Innovation contracts

1 Estudio sobre la biocompatibilidad y bioactividad in vitro de diferentes recubrimientos de implantes metálicos Numat Medtech. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 01/01/2020-01/01/2021. 63.375 €.
2 Estudio sobre la biocompatibilidad y bioactividad in vitro de diferentes recubrimientos de implantes metálicos Numat Medtech. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 01/04/2019-P09M. 71.966,62 €.
3 Biocompatibility studies SMARTBONE Industrie Biomediche Insubri S. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 31/03/2019-P09M01D. 5.000 €.
4 Study of different gel formulations and buffer solutions on the regeneration of 3D gingival tissue after wounding and under inflammatory conditions with LPS (Porphyromonas gingivalis) simulating periodontitis. Dentaid S.L.. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 2019-P1Y01D. 20.116,87 €.
5 Evaluation of biocompatibility, stability and absorption of NanoXIM Hydroxyapatite Nanoparticles Fluidinova S.A.. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 2019-P1Y01D. 9.662,5 €.
6 Biocompatibility and efficacy of micro-immunotherapy medicines for osteoporosis and periodontitis treatment Labolife España SA. Marta Monjo Cabrer. (Universidad de las Islas Baleares). From 2018. 8.188,75 €.
7 Estudi de diferents factors immunològics (proteïnes i àcids nucleics) sobre la remodelació òssia com a model per desenvolupar tractaments per l'osteoporosi i la periodontitis. Labolife España SA. Marta Monjo Cabrer. (Universidad de las Islas Baleares). 2018-P2Y01D. 58.592,95 €.
8 In vitro studies with a bone graft substitute Corticalis AS. Marta Monjo Cabrer i Joana Maria Ramis Morey. (Universidad de las Islas Baleares). From 20/02/2017. 45.000 €.
9 Efecto in vitro de diferentes formulaciones de geles en la capacidad regenerativa de fibroblastos gingivales humanos Dentaid S.L.. Marta Monjo Cabrer. (Universidad de las Islas Baleares). From 13/09/2016. 14.920 €.
10 Testing nanoXIM hydroxyapatite for biocompatibility, absorption in the oral mucosa and stability under simulated gastric fluid Fluidinova S.A.. Marta Monjo Cabrer. (Universidad de las Islas Baleares). From 12/07/2016. 27.486,88 €.

C.4. Patents

1 Monjo, M; Perelló, J.; Ramis, J.M.; Tur, F.; Arriero, M.; Martín, E.; Isern, B.; Henriquez, R.EP 2797642 B1. Biocompatible implant 20/11/2019. 07909 - Numat Medtech.
2 Monjo Cabrer, Marta; Ramis Morey, Joana María; Córdoba Insensé, Alba; Satué Sahún, María; Gómez Florit, Manuel. EP 2986330 B1. Implants For Inducing Soft And Hard Tissue Integration 17/10/2018. 3571 - NUMAT BIOMEDICAL S.L..