



## **Leonor Santos Ruiz**

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**Leonor Santos Ruiz**

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**ResearcherID:** A-4902-2012  
**Nationality:** Spain  
**Country of birth:** Spain  
**Aut. region/reg. of birth:** Andalusia  
**Contact province:** Málaga  
**City of birth:** Málaga  
**Contact address:** Departamento Biología Celular, Genética y Fisiología  
**Rest of contact address:** Facultad de Ciencias, Campus de Teatinos  
**Postcode:** 29071  
**Contact country:** Spain  
**Contact aut. region/reg.:** Andalusia  
**Contact city:** Málaga

**Current professional situation**

**Employing entity:** Universidad de Málaga      **Type of entity:** University  
**Department:** Biología Celular, Genética y Fisiología, Facultad de Ciencias  
**Professional category:** Profesora Titular de Universidad /Reader in Physiology      **Educational Management (Yes/No):** Yes  
**City employing entity:** Málaga, Andalusia, Spain  
**Start date:** 16/11/2021  
**Type of contract:** Civil servant      **Dedication regime:** Full time  
**Performed tasks:** Docencia e investigación  
**Field of management activity:** University  
**Applicability in teaching and/or research:** Docencia en enseñanzas universitarias de Grado y Postgrado. Dirección de Trabajos Avanzados (TFGs, TFMs, Tesis doctorales). Participación en, y dirección de, proyectos de investigación.



## Education

### University education

#### 1st and 2nd cycle studies and pre-Bologna degrees

**1 University degree:** Doctorate

**Name of qualification:** Doctora en Ciencias Biológicas

**City degree awarding entity:** Málaga, Andalusia, Spain

**Degree awarding entity:** Universidad de Málaga      **Type of entity:** University

**Date of qualification:** 20/12/2001

**Average mark:** Excellent

**Prize:** Special award for degree

**Foreign qualification:** Ph. D.

**2 University degree:** Curso de Postgrado

**Name of qualification:** Certificado de Aptitud Pedagógica - Curso de Formación Pedagógica del Profesorado de Enseñanza Secundaria

**Degree awarding entity:** Universidad de Málaga      **Type of entity:** University

**Date of qualification:** 07/04/1995

**3 University degree:** Higher degree

**Name of qualification:** Licenciada en Ciencias (Biología)

**City degree awarding entity:** Málaga, Andalusia, Spain

**Degree awarding entity:** Universidad de Málaga      **Type of entity:** University

**Date of qualification:** 29/07/1994

#### Doctorates

**Doctorate programme:** Métodos Experimentales en Biología Celular y Molecular

**Degree awarding entity:** Universidad de Málaga      **Type of entity:** University

**City degree awarding entity:** Málaga, Andalusia, Spain

**Date of degree:** 20/12/2001

**Thesis title:** FACTORES IMPLICADOS EN EL CONTROL DE LA PROLIFERACION Y DIFERENCIACION CELULARES EN LA REGENERACION DE LA ALETA DE TELEOSTEOS

**Thesis director:** José Becerra Ratia

**Thesis co-director:** Jesús Alberto Santamaría García

**Obtained qualification:** SOBRESALIENTE CUM LAUDE

**Special doctorate award:** Yes

**Date of award:** 30/06/2004



## Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

## Teaching experience

### General teaching experience

- 1** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Animal Ambiental  
**Type of programme:** Grado  
**Type of subject:** Optional  
**University degree:** Grado en Biología  
**Course given:** 4  
**Start date:** 24/09/2019  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 1,5  
**Entity:** Universidad de Málaga  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**Type of teaching:** In person theory  
**Frequency of the activity:** 1  
**End date:** 14/02/2020  
**Type of entity:** University
- 2** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Molecular de los Animales  
**Type of programme:** Grados  
**Type of subject:** Obligatory  
**University degree:** Grado en Bioquímica  
**Course given:** 3  
**Start date:** 24/09/2019  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 4,5  
**Entity:** Universidad de Málaga  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**Type of teaching:** Laboratory work  
**Frequency of the activity:** 1  
**End date:** 14/02/2020  
**Type of entity:** University
- 3** **Type of teaching:** Official teaching  
**Name of the course:** Trabajo de Fin de Grado  
**Professional category:** Profesora Asociada  
**Type of programme:** Grado  
**Type of subject:** Obligatory  
**University degree:** Grado en Bioquímica  
**Course given:** 4

**Type of teaching:** Tutorización  
**Frequency of the activity:** 1



**Start date:** 2019

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,2

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**End date:** 2020

**Type of entity:** University

**4 Type of teaching:** Official teaching

**Name of the course:** Endocrinología

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Optional

**University degree:** Grado en Bioquímica

**Course given:** 4

**Start date:** 2018

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,5

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** In person theory

**Frequency of the activity:** 2

**End date:** 2020

**Type of entity:** University

**5 Type of teaching:** Official teaching

**Name of the course:** Fisiología Molecular de los Animales

**Type of programme:** Grados

**University degree:** Grado en Bioquímica

**Course given:** 3

**Start date:** 2018

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 2,7

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 2019

**Type of entity:** University

**6 Type of teaching:** Official teaching

**Name of the course:** Fisiología Animal II

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Biología

**Course given:** 3

**Start date:** 2017

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 0,95

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Type of teaching:** In person theory

**Frequency of the activity:** 1

**End date:** 2018

**Type of entity:** University



**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Malaga, Andalusia, Spain  
**Subject language:** Spanish

**7** **Type of teaching:** Official teaching  
**Name of the course:** Principios, Instrumentación y Metodología en Fisiología Animal y Vegetal  
**Professional category:** Profesora Asociada  
**Type of programme:** Grado **Type of teaching:** In person theory  
**Type of subject:** Core  
**University degree:** Grado en Biología  
**Course given:** 1 **Frequency of the activity:** 1  
**Start date:** 2017 **End date:** 2018  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 2  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**8** **Type of teaching:** Official teaching  
**Name of the course:** Ciencia y Tecnología para la Paz: Poder, Conflictos y Valores  
**Type of programme:** Master's degree **Type of teaching:** In person theory  
**University degree:** Máster interuniversitario en cultura de paz, conflictos, educación y derechos humanos  
**Frequency of the activity:** 1  
**Start date:** 2017 **End date:** 2018  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 4  
**Entity:** Universidades de Málaga, Granada, Cádiz y Córdoba  
**Faculty, institute or centre:** Facultad de Ciencias de la Educación  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**9** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Animal II  
**Professional category:** Profesora Asociada  
**Type of programme:** Grado **Type of teaching:** Laboratory work  
**Type of subject:** Core  
**University degree:** Grado en Biología  
**Course given:** 3 **Frequency of the activity:** 2  
**Start date:** 2016 **End date:** 2016  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 2,5  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Malaga, Andalusia, Spain  
**Subject language:** Spanish



**10** **Type of teaching:** Official teaching  
**Name of the course:** Biología Celular I  
**Professional category:** Investigadora con venia docendi  
**Type of programme:** Grado **Type of teaching:** Laboratory work  
**Type of subject:** Core  
**University degree:** Grado en Biología  
**Course given:** 2 **Frequency of the activity:** 1  
**Start date:** 2015 **End date:** 2016  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 2,4  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Malaga, Andalusia, Spain  
**Subject language:** Spanish

**11** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Animal II  
**Professional category:** Profesora Asociada  
**Type of programme:** Grado **Type of teaching:** Laboratory work  
**Type of subject:** Core  
**University degree:** Grado en Biología  
**Course given:** 3 **Frequency of the activity:** 1  
**Start date:** 2015 **End date:** 2016  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 0,9  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Malaga, Andalusia, Spain  
**Subject language:** Spanish

**12** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Animal I  
**Professional category:** Profesora Asociada  
**Type of programme:** Grado **Type of teaching:** Laboratory work  
**Type of subject:** Core  
**University degree:** Grado en Biología  
**Course given:** 3 **Frequency of the activity:** 1  
**Start date:** 2015 **End date:** 2016  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 9  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**13** **Type of teaching:** Official teaching  
**Name of the course:** Fisiología Animal y Vegetal  
**Professional category:** Profesora Asociada

**Type of programme:** Grado  
**Type of subject:** Core  
**University degree:** Grado en Ciencias Ambientales  
**Course given:** 2  
**Start date:** 2015  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 18  
**Entity:** Universidad de Málaga  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 2016

**Type of entity:** University

**14 Type of teaching:** Official teaching

**Name of the course:** Principios, Instrumentación y Metodología en Fisiología Animal y Vegetal

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Biología

**Course given:** 1

**Start date:** 2015

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,8

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 3

**End date:** 2016

**Type of entity:** University

**15 Type of teaching:** Official teaching

**Name of the course:** Biología Celular y Genética

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Ciencias Ambientales

**Course given:** 1

**Start date:** 2012

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 2

**End date:** 2013

**Type of entity:** University

**16 Type of teaching:** Official teaching

**Name of the course:** Investigación en Neuromorfología: Una visión actualizada de la Neuroanatomía dentro de un contexto multidisciplinar

**Type of programme:** Doctorate

**Type of subject:** Doctorate

**University degree:** Doctorado en Neurociencias

**Frequency of the activity:** 4

**Start date:** 2009

**Type of teaching:** In person theory

**End date:** 2013



**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 3

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Medicina

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of entity:** University

**17 Type of teaching:** Official teaching

**Name of the course:** Biología Celular II

**Professional category:** Investigadora con venia docendi

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Biología

**Course given:** 2

**Start date:** 2011

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 0,15

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Malaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 2012

**Type of entity:** University

**18 Type of teaching:** Official teaching

**Name of the course:** Métodos y Técnicas Experimentales en Biología Celular

**Professional category:** Investigadora con venia docendi

**Type of programme:** Bachelor's degree

**University degree:** Licenciado en Biología

**Course given:** 5

**Start date:** 2011

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 4

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 3

**End date:** 2012

**Type of entity:** University

**19 Type of teaching:** Official teaching

**Name of the course:** Citología e Histología Animal y Vegetal

**Professional category:** Profesora Sustituta Interina

**Type of programme:** Bachelor's degree

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Start date:** 2009

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 2,3

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 2010

**Type of entity:** University



**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

- 20** **Type of teaching:** Official teaching  
**Name of the course:** Neuroanatomía: Bases Morfológicas para la Neurología  
**Type of programme:** Doctorate **Type of teaching:** In person theory  
**Type of subject:** Doctorate  
**University degree:** Doctorado en Neurociencias  
**Frequency of the activity:** 1  
**Start date:** 2008 **End date:** 2009  
**Type of hours/ ECTS credits:** Hours  
**Hours/ECTS credits:** 3  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Medicina  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish
- 21** **Type of teaching:** Official teaching  
**Name of the course:** Stem cells and regeneration: from functional genomics to the classic models  
**Type of programme:** Doctorate **Type of teaching:** Teoría y Prácticas  
**Type of subject:** Doctorate  
**University degree:** Doctorado  
**Frequency of the activity:** 1  
**Start date:** 2006 **End date:** 2007  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 1  
**Entity:** Universitat de Barcelona **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Biología  
**Department:** Genética  
**City of entity:** Barcelona, Catalonia, Spain  
**Subject language:** Spanish
- 22** **Type of teaching:** Official teaching  
**Name of the course:** Biología del Desarrollo  
**Professional category:** Personal Investigador en Formación con venia docendi  
**Type of programme:** Bachelor's degree **Type of teaching:** Laboratory work  
**Type of subject:** Optional  
**University degree:** Licenciado en Biología  
**Course given:** 5 **Frequency of the activity:** 1  
**Start date:** 1999 **End date:** 2000  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 1,5  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular, Genética y Fisiología  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish
- 23** **Type of teaching:** Official teaching  
**Name of the course:** Biología General  
**Professional category:** Personal investigadora en formación con venia docendi



**Type of programme:** Bachelor's degree  
**Type of subject:** Core  
**University degree:** Licenciado en Ciencias (Química)  
**Course given:** 1  
**Start date:** 1994  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 2,7  
**Entity:** Universidad de Málaga  
**Faculty, institute or centre:** Facultad de Ciencias  
**Department:** Biología Celular y Genética  
**City of entity:** Málaga, Andalusia, Spain  
**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 1995

**Type of entity:** University

**24** **Type of teaching:** Official teaching

**Name of the course:** Biología General

**Professional category:** Personal investigadora en formación con venia docendi

**Type of programme:** Bachelor's degree

**Type of subject:** Core

**University degree:** Licenciado en Ciencias (Biología)

**Course given:** 1

**Start date:** 1994

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 3

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular y Genética

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**End date:** 1995

**Type of entity:** University

**25** **Type of teaching:** Official teaching

**Name of the course:** Fisiología Animal II

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Biología

**Course given:** 3

**Start date:** 2018

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 2,8

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Malaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** In person theory

**Frequency of the activity:** 2

**Type of entity:** University

**26** **Type of teaching:** Official teaching

**Name of the course:** Modelos y Sistemas Biológicos: Terapia con Células Primarias y Troncales

**Type of programme:** Master's degree

**University degree:** Máster Oficial de Biomedicina Regenerativa

**Frequency of the activity:** 3

**Start date:** 2017

**Type of teaching:** In person theory



**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 4

**Entity:** Universidad de Granada

**Faculty, institute or centre:** Facultad de Medicina

**Department:** Anatomía y Embriología Humana

**City of entity:** Granada, Andalusia, Spain

**Subject language:** Spanish

**Type of entity:** University

**27 Type of teaching:** Official teaching

**Name of the course:** Trabajo de Fin de Grado

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Obligatory

**University degree:** Grado en Biología

**Course given:** 4

**Start date:** 2016

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,2

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Tutorización

**Frequency of the activity:** 4

**Type of entity:** University

**28 Type of teaching:** Official teaching

**Name of the course:** Principios, Instrumentación y Metodología en Fisiología Animal y Vegetal

**Professional category:** Profesora Asociada

**Type of programme:** Grado

**Type of subject:** Core

**University degree:** Grado en Biología

**Course given:** 1

**Start date:** 2015

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 3

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** In person theory

**Frequency of the activity:** 2

**Type of entity:** University

**29 Type of teaching:** Official teaching

**Name of the course:** Trabajo Fin de Máster

**Professional category:** Profesora Asociada de la Universidad de Málaga

**Type of programme:** Master's degree

**Type of subject:** Obligatory

**University degree:** Máster en Biotecnología Avanzada

**Frequency of the activity:** 5

**Start date:** 2015

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 12

**Type of teaching:** Tribunal Evaluador Trabajos Fin de Máster



**Entity:** Universidad de Málaga  
**Faculty, institute or centre:** Facultad de Ciencias  
**City of entity:** Málaga, Andalusia, Spain

**Type of entity:** University

**30** **Type of teaching:** Official teaching

**Name of the course:** Trabajo Fin de Grado

**Professional category:** Profesora Asociada de la Universidad de Málaga

**Type of programme:** Grado

**Type of teaching:** Tribunal Evaluador Trabajos Fin de Máster

**Type of subject:** Obligatory

**University degree:** Grado en Biología

**Course given:** 4

**Start date:** 2015

**Frequency of the activity:** 4

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 12

**Entity:** Universidad de Málaga

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Ciencias

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**31** **Type of teaching:** Official teaching

**Name of the course:** Neurociencia y sus Aplicaciones Clínicas

**Type of programme:** Doctorate

**Type of teaching:** In person theory

**Type of subject:** Doctorate

**University degree:** Curso de Doctorado

**Frequency of the activity:** 4

**Start date:** 2009

**Entity:** Universidad de Málaga

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Medicina

**City of entity:** Málaga, Andalusia, Spain

**32** **Type of teaching:** Official teaching

**Name of the course:** Bioingeniería Tisular

**Type of programme:** Master's degree

**Type of teaching:** In person theory

**Type of subject:** Optional

**University degree:** Master en Biotecnología Avanzada

**Frequency of the activity:** 11

**Start date:** 2009

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1

**Entity:** Universidad de Málaga y Universidad Internacional de Andalucía

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Ciencias

**City of entity:** Málaga, Andalusia, Spain

**City assessment entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**33** **Type of teaching:** Official teaching

**Name of the course:** Citología e Histología Animal y Vegetal

**Professional category:** Investigador con venia docendi

**Type of programme:** Bachelor's degree

**Type of teaching:** Laboratory work

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Start date:** 2005

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 3,4

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Frequency of the activity:** 5

**Type of entity:** University

**34 Type of teaching:** Official teaching

**Name of the course:** Organografía Microscópica Vegetal

**Professional category:** Investigador en Formación (beca FPDI) con venia docendi

**Type of programme:** Bachelor's degree

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Start date:** 2005

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,7

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 5

**Type of entity:** University

**35 Type of teaching:** Official teaching

**Name of the course:** Citología e Histología Animal y Vegetal

**Professional category:** Investigador colaborador con venia docendi

**Type of programme:** Bachelor's degree

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Start date:** 2000

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 1,8

**Entity:** Universidad de Málaga

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**Type of teaching:** Laboratory work

**Frequency of the activity:** 1

**Type of entity:** University

**36 Type of teaching:** Official teaching

**Name of the course:** Citología e Histología Animal y Vegetal

**Professional category:** Investigador en formación (beca FPDI) con venia docendi

**Type of programme:** Bachelor's degree

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Type of teaching:** Laboratory work

**Frequency of the activity:** 4



**Start date:** 1997

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 5

**Entity:** Universidad de Málaga

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

**37 Type of teaching:** Official teaching

**Name of the course:** Organografía Microscópica Vegetal

**Professional category:** Investigador en Formación (beca FPD) con venia docendi

**Type of programme:** Bachelor's degree

**Type of teaching:** Laboratory work

**Type of subject:** Core

**University degree:** Licenciado en Biología

**Course given:** 1

**Frequency of the activity:** 5

**Start date:** 1996

**Type of hours/ ECTS credits:** Credits

**Hours/ECTS credits:** 4,7

**Entity:** Universidad de Málaga

**Type of entity:** University

**Faculty, institute or centre:** Facultad de Ciencias

**Department:** Biología Celular, Genética y Fisiología

**City of entity:** Málaga, Andalusia, Spain

**Subject language:** Spanish

## Experience supervising doctoral thesis and/or final year projects

**1 Project title:** Fisiología del sueño y su importancia en las enfermedades neurodegenerativas: Alzheimer y Parkinson

**Type of project:** End of course project

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Ángela López Valenzuela

**Obtained qualification:** 8,2

**Date of reading:** 19/06/2023

**2 Project title:** Disruptores endocrinos en la salud y el medio ambiente

**Type of project:** End of course project

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Adrián Torreblanca Jiménez

**Obtained qualification:** 6,5

**Date of reading:** 22/09/2022

**3 Project title:** Células madre y envejecimiento

**Type of project:** End of course project

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Fernando Banderas Bergillos

**Obtained qualification:** 9,3



**Date of reading:** 13/07/2022

- 4** **Project title:** Asociación del alelo Smad2rs29725537C>A con fenotipos de la raíz aórtica en cepas de ratón de laboratorio  
**Type of project:** Trabajo de Fin de Máster  
**Co-director of thesis:** Leonor Santos Riuz; Francisco de Borja Fernández Corujo  
**Entity:** Universidad de Málaga **Type of entity:** University  
**Student:** Juan Antonio Martínez Iglesias  
**Date of reading:** 02/2022
- 5** **Project title:** Producción sostenible de alimentos y otros productos de consumo humano. Un enfoque biotecnológico  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Alberto Sánchez Venegas  
**Obtained qualification:** 8,4  
**Date of reading:** 22/07/2021
- 6** **Project title:** Cronobiología y salud: la influencia de los biorritmos sobre la obesidad  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Cristina Pérez Cano  
**Obtained qualification:** 8,8  
**Date of reading:** 19/07/2021
- 7** **Project title:** Alteración de biorritmos y estrés fisiológico. La importancia del tiempo en la salud humana  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Antonio David López Aguilera  
**Obtained qualification:** 8,9  
**Date of reading:** 21/07/2020
- 8** **Project title:** Microplásticos  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Paula Fernández Salgado  
**Obtained qualification:** 8,9  
**Date of reading:** 17/07/2020
- 9** **Project title:** Efecto de la mutación FGFR2-C278F sobre células osteoblásticas  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Juan Bermúdez Tejada  
**Obtained qualification:** 9,1 -- Sobresaliente  
**Date of reading:** 07/10/2019





- 10** **Project title:** Tratamiento del envejecimiento con productos celulares procedentes de individuos jóvenes  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Sara Estévez Sánchez  
**Obtained qualification:** 9,4 -- Matrícula de Honor  
**Date of reading:** 24/09/2019
- 11** **Project title:** Influencia de la microbiota en la fisiología del anfitrión  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Eugenia Díaz Santiago  
**Obtained qualification:** 8,7  
**Date of reading:** 01/10/2018
- 12** **Project title:** Caracterización de las células madre mesenquimales en distintas condiciones pretrasplante para su administración experimental en la hidrocefalia congénita  
**Type of project:** Proyecto Final de Máster  
**Co-director of thesis:** Leonor Santos Ruiz; Antonio Jesús Jiménez Lara  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Betsaida Ojeda Pérez  
**Obtained qualification:** 9,6 -- Matrícula de Honor  
**Date of reading:** 2018
- 13** **Project title:** Evaluación de una nueva cerámica de base silíceas destinada a reparación ósea  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Beatriz Pilar Mateo Calahorra  
**Date of reading:** 20/12/2017
- 14** **Project title:** Biomecánica del hueso  
**Type of project:** End of course project  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Cecilia Barroso Medina  
**Date of reading:** 10/07/2017
- 15** **Project title:** Evaluación del uso de células madre derivadas de la decidua en un modelo in vivo de reparación ósea craneal  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Ana M<sup>a</sup> González Luque  
**Date of reading:** 22/12/2016
- 16** **Project title:** Estudio comparativo in vitro del comportamiento de un nuevo recubrimiento cerámico para la mejora en la integración de prótesis de titanio articulares y maxilares  
**Type of project:** Proyecto Final de Máster



**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Lucrecia Márquez Ballesteros

**Date of reading:** 21/12/2016

- 17 Project title:** Evaluación de un método de seguimiento no invasivo para detección de MSC in vivo por MRI y fluorescencia

**Type of project:** Proyecto Final de Máster

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Lucas David Andrés Garrido

**Date of reading:** 18/12/2015

- 18 Project title:** Evaluación del potencial biomédico de nuevos biomateriales para aplicación en Cirugía Ortopédica y Traumatología

**Type of project:** Doctoral thesis

**Co-director of thesis:** Leonor Santos Ruiz; María José Mora Huzmán

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Daniel Amat Trujillo

**Obtained qualification:** SOBRESALIENTE CUM LAUDE

**Identify key words:** Biomaterials; Biomedicine; Biological engineering

**Date of reading:** 11/07/2014

**European doctorate:** Yes

**Date of recognition:** 07/2014

- 19 Project title:** Aplicación de MRI para el estudio de la vascularización en endoimplantes en un modelo de pequeño animal de laboratorio

**Type of project:** Proyecto Final de Máster

**Co-director of thesis:** Leonor Santos Ruiz; Pilar María Arrabal García

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Luz Divina María Gómez Pulido

**Date of reading:** 2014

- 20 Project title:** Modificación superficial de titanio de grado clínico y su efecto sobre células osteoprogenitoras

**Type of project:** Proyecto Final de Máster

**Entity:** Universidad de Málaga y Universidad Internacional de Andalucía

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Cristina Polo

**Date of reading:** 2014

- 21 Project title:** Establecimiento de un método de seguimiento in vivo de células madre mesenquimales en implantes ectópicos en un modelo de pequeño animal de laboratorio

**Type of project:** Proyecto Final de Máster

**Entity:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Student:** Julia Alba Amador

**Date of reading:** 11/2013



- 22** **Project title:** Evaluación in vitro de scaffolds de titanio macroporoso sintetizados por EBM  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Rosa María Belmonte Urbano  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 12/2012
- 23** **Project title:** Análisis del tratamiento superficial de piezas de titanio para cirugía ortopédica  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Raúl Rico Roldán  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 09/2010
- 24** **Project title:** Caracterización de los nanobiomateriales cerámicos SBA-15 y HA-SBA-15 para ingeniería tisular esquelética  
**Type of project:** Proyecto Final de Máster  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Daniel Amat Trujillo  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 09/2010
- 25** **Project title:** EXPRESIÓN Y FUNCIÓN DE COLÁGENOS FIBRILARES DURANTE EL DESARROLLO Y LA REGENERACIÓN DE LA ALETA DE DANIO RERIO  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Leonor Santos Ruiz; Manuel Marí Beffa  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** IVAN JESÚS DURAN JIMENEZ  
**Obtained qualification:** SOBRESALIENTE CUM LAUDE  
**Date of reading:** 05/03/2010  
**European doctorate:** Yes **Date of recognition:** 03/2010
- 26** **Project title:** Análisis de la regeneración y el desarrollo de estructuras esqueléticas en la aleta de Danio rerio  
**Type of project:** Work leading to an ASD  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Iván Jesús Durán Jiménez  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 2007
- 27** **Project title:** Evaluación in vitro de cerámicos mesoporosos nanoestructurados  
**Type of project:** Work leading to an ASD  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Morneira Neira Elena  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 2007



- 28** **Project title:** Cellular and molecular characterization of a method for osteogenic commitment of stem cells and its application into the clinical management of congenital skeletal malformations  
**Type of project:** End of course project  
**Entity:** Universidades de Reutlingen y de Málaga **Type of entity:** University  
**Student:** Denise Hoffmann  
**Date of reading:** 06/2006
- 29** **Project title:** Combination of nanotechnology and cell therapy as a novel treatment option for osteosarcoma  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Leonor Santos Ruiz; José Becerra Ratia  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Liliya Kazantseva  
**Obtained qualification:** Aún en ejecución  
**Identify key words:** Nanoparticles; Biomedicine; Cell culture; Clinical biology
- 30** **Project title:** Células madre perinatales y nuevos biovidrios para la reparación de tejido óseo  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Leonor Santos Ruiz  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Ana María González Luque  
**Obtained qualification:** Aún en ejecución  
**Identify key words:** Biomaterials; Biomedicine; Cell culture; Clinical biology
- 31** **Project title:** Implantes personalizados de titanio poroso implementados con ingeniería tisular: prueba de concepto en un nuevo modelo de resección maxilar  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Leonor Santos Ruiz; José Ignacio Yáñez Vilas  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Juan Francisco Granados Colocho  
**Obtained qualification:** Aún en ejecución  
**Identify key words:** Biomaterials; Biomedicine; Cell culture; Biological engineering
- 32** **Project title:** Nuevas aproximaciones en cirugía ortopédica y reparación ósea: Terapia Celular e Ingeniería Tisular  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Leonor Santos Ruiz  
**Entity:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Student:** Rosa María Belmonte Urbano  
**Obtained qualification:** Aún en ejecución  
**Identify key words:** Biomaterials; Biomedicine; Biological engineering



## Other activities/achievements not included above

- 1** **Description of the activity:** Participación en el Proyecto de Innovación Docente código PIE19-181, titulado " Tutorías como herramientas de innovación educativa en el ámbito de las Ciencias Experimentales: análisis de la situación actual y propuesta de mejora". Cursos académicos 2019/20 y 2020/21  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Málaga **Type of entity:** University  
**End date:** 30/09/2021
- 2** **Description of the activity:** Participación en el Proyecto de Innovación Docente código 17-183, titulado "Desarrollo de mini proyectos por alumnos de nuevo ingreso. Cursos académicos 2017/18 y 2018/19  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Málaga **Type of entity:** University  
**End date:** 30/09/2019
- 3** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de África Smith de Diego, estudiante de doctorado de la Universidad de Leeds (Reino Unido)  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Leeds  
**End date:** 31/07/2017
- 4** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de Carlotta Perucca Orfei, estudiante de doctorado de la Universidad de Pavía (Italia).  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Pavía  
**End date:** 30/06/2016
- 5** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de Marco Viganó, estudiante de doctorado en el Instituto Ortopédico Galeazzi de Milán (Italia)  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Instituto Ortopédico Galeazzi  
**End date:** 30/06/2016
- 6** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de Domenica Valeria Pintacuda, estudiante de postgrado de la Universidad de Pavía (Italia).  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Pavía  
**End date:** 03/04/2015
- 7** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de Valentina Fumagalli, estudiante de postgrado de la Universidad de Pavía (Italia).  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Pavía  
**End date:** 03/04/2015
- 8** **Description of the activity:** Tutora en la Universidad de Málaga de la estancia de investigación (1 mes) de la estudiante internacional África Smith, estudiante de tercer curso de la Licenciatura en Bioquímica y Biotecnología del INSA (L'Institut National des Sciences Appliquées), de la Universidad de Lyon  
**City of activity:** Málaga, Andalusia, Spain  
**Organising entity:** Universidad de Lyon



**End date:** 28/07/2013

**9 Description of the activity:** Participación en el Proyecto de Innovación Educativa código 08-061, titulado "Nuevos entornos y metodologías virtuales en la Formación en Cirugía Traumatológica (Patología Quirúrgica) para pregrado"

**City of activity:** Málaga, Andalusia, Spain

**Organising entity:** Universidad de Málaga

**Type of entity:** University

**End date:** 30/09/2009

**10 Description of the activity:** Curso de Verano "La Terapia Celular: Una Nueva Estrategia para la Medicina Regenerativa"

**Organising entity:** Universidad de Málaga

**Type of entity:** University

**End date:** 2007

**11 Description of the activity:** Certificado de la Calidad de la Actividad Docente, emitido por el Servicio de Calidad, Planificación Estratégica y Responsabilidad Social de la Universidad de Málaga, con calificación de EXCELENTE

**City of activity:** Málaga, Andalusia, Spain

**Organising entity:** Universidad de Málaga

**Type of entity:** University

## Scientific and technological experience

### Research and development groups/teams

**Name of the group:** Biología y Fisiología Celular UMA

**Name of principal investigator:** José Becerra Ratia

**Standardised code:** CVI-0217

**Type of collaboration:** Co-authorship of projects and their development

**City of group:** Málaga, Andalusia, Spain

**Affiliation entity:** Universidad de Málaga

**Type of entity:** University

**Start date:** 10/12/2001

### Scientific or technological activities

#### R&D projects funded through competitive calls of public or private entities

**1 Name of the project:** FACEPRINT - Preclinical evaluation of personalized, bioprinted, implants for the surgical correction of critical-sized cranio-maxillofacial defects in pediatric patients

**Identify key words:** Cell culture

**Type of project:** Basic research (including archaeological digs, etc)

**Geographical area:** National

**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** IBIMA Plataforma BIONAND **Type of entity:** Healthcare Institutions

**City of entity:** MÁLAGA, Andalusia, Spain

**Name principal investigator (PI, Co-PI...):** Leonor Santos Ruiz

**Nº of researchers:** 9

**Funding entity or bodies:**



Instituto de Salud Carlos III

**Type of entity:** Public Research Body

**Type of participation:** Principal investigator

**Name of the programme:** Acción Estratégica en Salud

**Code according to the funding entity:** PI22/01627

**Start-End date:** 01/01/2023 - 31/12/2025

**Duration:** 3 years

**Participating entity/entities:** Hospital Regional Universitario de Málaga; IBIMA Plataforma BIONAND; University of Málaga

**Total amount:** 93.170 €

**Dedication regime:** Full time

**2 Name of the project:** Biomechanical and biological analysis of osteosynthesis system combined with scaffolds for segmental bone defect repair (SEGBONREP)

**Type of project:** Basic research (including archaeological digs, etc)

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de las Palmas de Gran Canaria

**Type of entity:** University

**City of entity:** Canary Islands, Spain

**Name principal investigator (PI, Co-PI...):** Manuel Alejandro Yáñez Santana

**Nº of researchers:** 12

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Academia

**Type of participation:** Team member

**Name of the programme:** Programas Estatales de Generación de Conocimiento y Fortalecimiento Científico y Tecnológico del Sistema de I+D+i

**Code according to the funding entity:** PID2020-116336RB-I00

**Start-End date:** 01/07/2021 - 30/06/2024

**Duration:** 3 years

**Participating entity/entities:** CIBER BIOINGENIERIA BIOMATERIALES Y NANOMEDICINA (CIBER-BBN); FUNDACION CANARIA PARQUE CIENTIFICO TECNOLOGICO DE LA UNIVERSIDAD DE LAS PALMAS DE GRAN CANARIA; Instituto Tecnológico de Canarias; Universidad de Málaga; Universidad de las Palmas de Gran Canaria

**Total amount:** 102.850 €

**Sub-project amount:** 102.850 €

**Percentage as grant:** 102.850

**Mixed percentage:** 102.850

**Dedication regime:** Full time

**3 Name of the project:** NanoBuds - Nanoscale regulation of implantable osteochondral buds

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** Instituto de Bioingeniería de Cataluña (IBEC) y Universidad de Málaga

**City of entity:** Spain

**Name principal investigator (PI, Co-PI...):** Anna Lagunas; Leonor Santos Ruiz

**Nº of researchers:** 8

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria

**Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011



**Start-End date:** 01/01/2020 - 31/12/2021

**Duration:** 2 years

**Participating entity/entities:** Instituto de Bioingeniería de Cataluña (IBEC); Universidad de Málaga

**Dedication regime:** Full time

**Applicant's contribution:** Investigadora principal de uno de los grupos del consorcio formado para llevar a cabo el proyecto

- 4** **Name of the project:** EXOMOD - Prueba de concepto para alcanzar TRL 4 para un producto inmunomodulador basado en exosomas de células madre mesenquimales de cordón umbilical humano, para uso en casos graves de Covid-19. Desarrollo de pruebas in vitro e in vivo
- Type of project:** Research and development, including transfer **Geographical area:** Provincial
- Degree of contribution:** Researcher
- Entity where project took place:** Universidad de Málaga **Type of entity:** University
- City of entity:** Málaga, Andalusia, Spain
- Name principal investigator (PI, Co-PI...):** José Becerra Ratia; Leonor Santos Ruiz; Cristina Alcoholado Cueto; María del Carmen Martín Astorga; Antonio J Villatoro; Cristina Antúnez Rodríguez
- Nº of researchers:** 6
- Funding entity or bodies:** Universidad de Málaga **Type of entity:** University
- Type of participation:** Team member
- Code according to the funding entity:** E3/02/20
- Start-End date:** 29/10/2020 - 28/10/2021 **Duration:** 1 year
- Total amount:** 20.000 €
- Dedication regime:** Full time
- 5** **Name of the project:** MicroSEC - Mesenchymal stem cell secretome delivery system based on a microparticulate hybrid dressing for chronic skin wound healing
- Identify key words:** Cell culture; Clinical biology; Cell biology; Veterinary medicine; Biotechnology
- Type of project:** Research and development, including transfer **Geographical area:** National
- Degree of contribution:** Researcher
- Entity where project took place:** Universidad de Málaga **Type of entity:** University
- City of entity:** Málaga, Andalusia, Spain
- Name principal investigator (PI, Co-PI...):** Soledad Pérez Amodio; Elisabeth Engel; Miguel Ángel Mateos; Bárbara Blanco; José Becerra Ratia; Rick Visser; Antonio José Villatoro Jiménez; Leonor Santos Ruiz; Cristina Alcoholado Cueto; Cristina Antúnez Rodríguez; Cristina Segovia Gallardo
- Nº of researchers:** 11
- Funding entity or bodies:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
- Type of participation:** Team member
- Name of the programme:** Programa de Valorización de Proyectos del CIBER-BBN, Convocatoria de 2019
- Code according to the funding entity:** MicroSEC
- Start-End date:** 01/06/2019 - 31/05/2021 **Duration:** 2 years
- Participating entity/entities:** Instituto de Bioingeniería de Cataluña (IBEC); Universidad de Málaga
- Total amount:** 48.000 €
- Dedication regime:** Full time





- 6** **Name of the project:** Red de Terapia Celular (TERCEL). Research, development, production and application of cell therapy in osteoarticular, hematologic and inflammatory diseases  
**Identify key words:** Clinical biology; Cell biology; Molecular biology; Biological engineering  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga y otros  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** José Becerra Ratia  
**Nº of researchers:** 172  
**Type of participation:** Team member  
**Name of the programme:** RETICS  
**Code according to the funding entity:** RD16/0011/0022  
**Start-End date:** 01/01/2017 - 31/12/2020  
**Duration:** 4 years  
**Participating entity/entities:** Centro Andaluz de Biología Molecular y Medicina Regenerativa (CABIMER); Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas; Centro de de Genómica e Investigación Oncológica (GENYO); Complejo Hospitalario Virgen del Rocío; Fundación Jiménez Díaz; INSTITUT DE RECERCA DE L'HOSPITAL DE LA SANTA CREU I SANT PAU; INSTITUTO DE BIOMEDICINA DE SEVILLA; INSTITUTO DE QUIMICA AVANZADA DE CATALUÑA; Instituto Murciano de Investigación Biosanitaria (IMIB); Instituto de Investigación Biomédica de Málaga (IBIMA); Instituto de Investigación Biomédica de Salamanca (IBSAL); Instituto de Terapia Regenerativa Tisular (ITRT); Universidad Complutense de Madrid; Universidad de Málaga; Universidad de Valladolid  
**Total amount:** 1.274.000 €  
**Sub-project amount:** 182.286,5 €  
**Percentage as grant:** 14,3  
**Dedication regime:** Full time
- 7** **Name of the project:** SecMeV - Secretoma de células madre mesenquimales de tejido adiposo canino (CAD-MSCS) y desarrollo de su aplicación clínica en medicina veterinaria  
**Type of project:** Basic research (including archaeological digs, etc)  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga  
**Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** José Becerra Ratia  
**Nº of researchers:** 8  
**Funding entity or bodies:** Consejería de Economía y Conocimiento de la Junta de Andalucía  
**Type of entity:** Regional Government  
**City funding entity:** Sevilla, Andalusia, Spain  
**Type of participation:** Team member  
**Name of the programme:** Programa Operativo FEDER de Andalucía 2014-2020  
**Code according to the funding entity:** UMA18-FEDERJA-133  
**Start-End date:** 2019 - 2020  
**Duration:** 2 years  
**Total amount:** 39.463,82 €  
**Percentage as grant:** 100  
**Dedication regime:** Full time
- 8** **Name of the project:** COAT-EBM - Bioactive coatings to promote osseointegration of personalized 3D porous titanium prostheses  
**Identify key words:** Organic chemistry; Biomaterials; Cell biology  
**Geographical area:** National



**Type of project:** Research and development, including transfer

**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** Universidad de Málaga y otros

**Name principal investigator (PI, Co-PI....):** Leonor Santos Ruiz

**Nº of researchers:** 21

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria **Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2018 - 31/12/2019

**Duration:** 2 years

**Participating entity/entities:** INSTITUTO DE QUIMICA AVANZADA DE CATALUÑA; Instituto Biomecánico de Valencia; Instituto Tecnológico de Canarias; Universidad Complutense de Madrid; Universidad de Málaga; Área de Cirugía Oral y Maxilofacial del HRU Carlos Haya

**Dedication regime:** Full time

**Applicant's contribution:** Coordinación del consorcio nacional, e investigadora principal en la Universidad de Málaga

**9 Name of the project:** SMEW - Therapeutic microparticles functionalized with stem cell secretome for chronic skin wound healing

**Identify key words:** Cell culture; Biomedic system control

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Bioingeniería de Cataluña (IBEC) y Universidad de Málaga

**City of entity:** Spain

**Name principal investigator (PI, Co-PI....):** Soledad Pérez Amodio

**Nº of researchers:** 8

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria **Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2018 - 31/12/2019

**Duration:** 2 years

**Participating entity/entities:** Instituto de Bioingeniería de Cataluña (IBEC); Universidad de Málaga

**Dedication regime:** Full time

**Applicant's contribution:** Investigadora principal de uno de los grupos del consorcio formado para llevar a cabo el proyecto

**10 Name of the project:** eLAST-Tendon - Addressing tendon regeneration through mechanically loaded nanopatterned liquid crystal elastomers

**Identify key words:** Biomaterials; Biomedicine; Tissue culture; Cell biology

**Identify key words:** Organic chemistry; Biomaterials; Biomedicine; Cell culture; Tissue culture

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher



**Entity where project took place:** Instituto de Bioingeniería de Cataluña (IBEC) y otros

**City of entity:** Spain

**Name principal investigator (PI, Co-PI....):** Anna Lagunas

**Nº of researchers:** 12

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria **Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2018 - 31/12/2019 **Duration:** 2 years

**Participating entity/entities:** Instituto de Bioingeniería de Cataluña (IBEC); Universidad Politécnica de Valencia; Universidad de Málaga

**Dedication regime:** Full time

**Applicant's contribution:** Investigadora principal de uno de los grupos del consorcio formado para llevar a cabo el proyecto

**11 Name of the project:** Implantes Personalizados de Titanio Poroso para Defectos Maxilares Segmentarios: Mejora de la Osteointegración y Reparación Tissular Mediante Ingeniería de Tejidos

**Type of project:** Research and development, including transfer **Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Centro Andaluz de Nanomedicina y Biotecnología (BIONAND)

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI....):** Rick Visser; Leonor Santos Ruiz; José Becerra Ratia; Francisco Delgado Ruiz; José Ignacio Yáñez Vilas

**Nº of researchers:** 5

**Type of participation:** Team member

**Name of the programme:** Proyectos de Investigación, Desarrollo e Innovación Biomédica y en Ciencias de la Salud

**Code according to the funding entity:** PI-0332-2016

**Start-End date:** 01/01/2017 - 31/12/2019 **Duration:** 3 years

**Total amount:** 50.000 €

**Dedication regime:** Full time

**12 Name of the project:** Actividad terapéutica del secretoma de células madre mesenquimales para la cicatrización de heridas: Prueba de concepto en un modelo murino de úlceras crónicas cutáneas

**Identify key words:** Biomedicine; Laboratory animals; Cell culture; Cell biology

**Type of project:** Research and development, including transfer **Geographical area:** Provincial

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga **Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI....):** José Becerra Ratia

**Nº of researchers:** 5

**Type of participation:** Team member

**Name of the programme:** Plan Propio de la Universidad de Málaga: Pruebas de Concepto

**Code according to the funding entity:** E3/01/18

**Start-End date:** 04/05/2018 - 04/05/2019 **Duration:** 2 years

**Total amount:** 20.000 €

**Dedication regime:** Full time

**13 Name of the project:** Cell therapy for knee osteoarthritis. Comparison of autologous and allogeneic mesenchymal stromal cells in a multicenter controlled randomized clinical trial (ARTROCELL)

**Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services  
**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga y otros

**Name principal investigator (PI, Co-PI...):** Fermín Sánchez-Guijo Martín; José Becerra Ratia

**Nº of researchers:** 36

**Funding entity or bodies:**

Instituto de Salud Carlos III. Ministerio de Economía, Industria y Competitividad  
**Type of entity:** State agency

**City funding entity:** Spain

**Type of participation:** Team member

**Name of the programme:** Proyectos de Investigación Clínica Independiente en Terapias Avanzadas

**Code according to the funding entity:** PIC18/00001

**Start-End date:** 01/01/2018 - 01/01/2019

**Participating entity/entities:** Centro de Investigación Biomédica en Red de Biotecnología, Biomateriales y Nanomedicina (CIBER-BBN); HOSPITAL UNIVERSITARIO DE SALAMANCA; Hospital Clinic de Barcelona; Hospital Universitario Virgen de La Arrixaca; Hospital Universitario Virgen de la Victoria de Málaga; Instituto Murciano de Investigación Biosanitaria (IMIB); Instituto de Investigación Biomédica de Málaga (IBIMA); Universidad de Málaga; Universidad de Valladolid; Universitat de Barcelona

**Total amount:** 767.962,8 €

**Dedication regime:** Full time

**14 Name of the project:** Implantes personalizados de titanio poroso bioingenierizados para cirugía reconstructiva maxilofacial. Pruebas de concepto y ensayo preclínico

**Identify key words:** Biomaterials; Clinical biology; Cell biology; Functional biology

**Geographical area:** National

**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** Ministerio de Economía y Competitividad  
**Type of entity:** State agency

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI...):** José Becerra Ratia; Leonor Santos Ruiz; Manuel Cifuentes Rueda; María Aránzazu Díaz Cuenca; José Ignacio Yáñez Vilas; Francisco Ruiz Delgado; Rick Visser

**Nº of researchers:** 8

**Type of participation:** Principal investigator

**Name of the programme:** Programa Estatal de I+D+i Orientada a los Retos de la Sociedad

**Code according to the funding entity:** BIO2015-66266-R

**Start-End date:** 01/01/2016 - 31/12/2018

**Duration:** 3 years

**Total amount:** 110.000 €

**Dedication regime:** Full time

**Applicant's contribution:** Investigadora Principal

**15 Name of the project:** COATREG-3D - Bioactive coatings to promote Tissue regeneration and ingrowth into 3D custom-made porous titanium endoimplants

**Identify key words:** Biomaterials; Clinical biology; Applied biology; Cell biology

**Identify key words:** Organic chemistry; Biomaterials; Biomedicine; Clinical biology; Cell biology

**Type of project:** Research and development, including transfer  
**Geographical area:** National



**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** CIBER BIOINGENIERIA BIOMATERIALES Y NANOMEDICINA (CIBER-BBN)

**City of entity:** Spain

**Name principal investigator (PI, Co-PI....):** Leonor Santos Ruiz

**Nº of researchers:** 21

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria **Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2016 - 31/12/2017

**Duration:** 2 years

**Participating entity/entities:** INSTITUTO DE QUIMICA AVANZADA DE CATALUÑA; Instituto Biomecánico de Valencia; Instituto Tecnológico de Canarias; Universidad Complutense de Madrid; Universidad de Málaga; Área de Cirugía Oral y Maxilofacial del HRU Carlos Haya

**Dedication regime:** Full time

**Applicant's contribution:** Coordinación del consorcio nacional, e investigadora principal en la Universidad de Málaga

**16 Name of the project:** Titanio poroso con recubrimiento nano y microestructurado y su funcionalización con moléculas osteoinductoras y células para aplicaciones ortopédicas

**Type of project:** Research and development, including transfer **Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga **Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI....):** José Becerra Ratia

**Nº of researchers:** 12

**Funding entity or bodies:**

Consejería de Economía e Innovación de la Junta de Andalucía **Type of entity:** Gobierno Autonómico

**City funding entity:** Andalusia, Spain

**Type of participation:** Team member

**Name of the programme:** INCENTIVOS A PROYECTOS DE INVESTIGACIÓN DE EXCELENCIA EN EQUIPOS DE INVESTIGACIÓN

**Code according to the funding entity:** P11-CVI07245

**Start-End date:** 27/03/2013 - 01/09/2017

**Total amount:** 268.228,3 €

**Dedication regime:** Full time

**17 Name of the project:** STEMDELIVERY - Innovative alginate/fibroin engineered scaffolds for adipose mesenchymal stem cells delivery as a therapeutic agent in pathological sites

**Identify key words:** Biomaterials; Cell culture

**Type of project:** Research and development, including transfer **Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Università degli Studi di Pavia; Innovhub – Stazioni Sperimentali per l'Industria; Angiologica B.M. srl; Fondazione IRCCS **Type of entity:** Consorcio de Institutos de Investigación, Universidades, Empresas y Hospitales



Policlinico San Matteo; IRCCS Istituto Ortopedico Galeazzi; Istituto Ortopedico

**City of entity:** Lombardia, Italy

**Name principal investigator (PI, Co-PI....):** Maria Luisa Torre; Leonor Santos Ruiz; Laura de Girolamo; Enrico Lucarelli

**N° of researchers:** 49

**Funding entity or bodies:**

Fondazione Cariplo

**Type of entity:** Foundation

**City funding entity:** Lombardia, Italy

**Type of participation:** Investigador Internacional Invitado

**Name of the programme:** INTEGRATED PROJECTS FOR THE EXPERIMENTATION OF INITIATIVES THAT PROMOTE AND BOOST HUMAN CAPITAL IN RESEARCH WITH DIRECT BENEFITS FOR LOMBARDY

**Code according to the funding entity:** 42617604 (2013-060)

**Start-End date:** 01/01/2014 - 01/01/2016

**Duration:** 24 months

**Participating entity/entities:** A.O. Ospedale Niguarda Ca' Granda; Angiologica B.M. srl; Fondazione IRCCS Policlinico San Matteo; IRCCS Istituto Ortopedico Galeazzi; Innovhub – Stazioni Sperimentali per l'Industria; Istituti Ortopedici Rizzoli; Università degli Studi di Pavia

**Total amount:** 166.733,39 €

**Dedication regime:** Part time

**18 Name of the project:** 3D-TImpTE - 3D custom-made porous titanium endoimplants combined with tissue engineering elements for mandible reconstructive surgery (3D-TImpTE)

**Identify key words:** Biomaterials; Cell biology; Biological engineering

**Identify key words:** Organic chemistry

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** CIBER BIOINGENIERIA BIOMATERIALES Y NANOMEDICINA (CIBER-BBN)

**City of entity:** Spain

**Name principal investigator (PI, Co-PI....):** Leonor Santos Ruiz

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria

**Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2014 - 31/12/2015

**Duration:** 2 years

**Participating entity/entities:** INSTITUTO DE QUIMICA AVANZADA DE CATALUÑA; ITUS-Tecnalia; Instituto Biomecánico de Valencia; Instituto Tecnológico de Canarias; Universidad Complutense de Madrid; Universidad de Málaga; Área de Cirugía Oral y Maxilofacial del HRU Carlos Haya

**Dedication regime:** Full time

**Applicant's contribution:** Coordinación del consorcio nacional, e investigadora principal en la Universidad de Málaga

**19 Name of the project:** Reparación y Regeneración de Defectos Óseos Segmentarios Mandibulares. Modelo Preclínico Basado en Ingeniería de Tejidos

**Identify key words:** Biomaterials; Laboratory animals; Cell culture; Tissue culture

**Type of project:** Research and development, including transfer

**Geographical area:** Regional



**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** Centro Andaluz de Nanomedicina y Biotecnología (BIONAND)

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI...):** Leonor Santos Ruiz; Pilar María Arrabal García; José Becerra Ratia; Rick Visser; Lucas Bermudo; José Ignacio Yáñez Vilas; Juan Francisco Granados Colucho; Francisco Ruiz Delgado; María Prado Novoa; Sergio Postigo Pozo; Leopoldo Laricchia Robbio

**Nº of researchers:** 11

**Funding entity or bodies:**

Consejería de Salud y Bienestar Social – Junta de Andalucía

**Type of entity:** Gobierno Autónomico

**City funding entity:** Andalusia, Spain

**Type of participation:** Principal investigator

**Name of the programme:** SUBVENCIONES PARA LA FINANCIACION DE LA INVESTIGACIÓN BIOMÉDICA Y EN CIENCIAS DE LA SALUD EN ANDALUCÍA

**Code according to the funding entity:** PI-0555-2013

**Start-End date:** 01/01/2014 - 31/12/2015

**Duration:** 2 years

**Total amount:** 52.500 €

**Dedication regime:** Full time

**Applicant's contribution:** Investigadora Principal

**20 Name of the project:** Desarrollo de una composición para el tratamiento de defectos óseos, basada en implantes de titanio-colágeno con funcionalización biológica (TiColCel)

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI...):** José Becerra Ratia; Leonor Santos Ruiz; Pilar María Arrabal García; Rick Visser; Daniel Amat Trujillo; Plácido Zamora Navas

**Nº of researchers:** 6

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Type of entity:** State agency

**City funding entity:** Spain

**Type of participation:** Team member

**Name of the programme:** PLAN NACIONAL de I+D+i 2008-2011

**Code according to the funding entity:** BIO2012-34960

**Start-End date:** 01/01/2013 - 31/12/2015

**Duration:** 3 years

**Total amount:** 122.850 €

**Dedication regime:** Full time

**21 Name of the project:** Red de Terapia Celular (RD12/0019/0032)

**Geographical area:** National

**Degree of contribution:** Researcher

**City of entity:** Spain

**Name principal investigator (PI, Co-PI...):** José Becerra Ratia

**Nº of researchers:** 18

**Funding entity or bodies:**

Instituto de Salud Carlos III. Ministerio de Sanidad y Consumo

**Type of entity:** State agency



**City funding entity:** Spain

**Type of participation:** Team member

**Name of the programme:** RETICS

**Code according to the funding entity:** RD12/0019/0032

**Start-End date:** 01/01/2013 - 31/12/2015

**Total amount:** 143.750 €

**Dedication regime:** Full time

**22 Name of the project:** Desarrollo de Recubrimientos y Andamios Bioactivos de Material Cerámico Nanoestructurado para Regeneración Ósea (BIOCEREG)

**Identify key words:** Biomaterials

**Type of project:** Research and development, including transfer

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body

**City of entity:** Sevilla, Andalusia, Spain

**Name principal investigator (PI, Co-PI...):** María Aránzazu Díaz Cuencia; Leonor Santos Ruiz; Pilar María Arrabal García; Daniel Amat Trujillo; María Lourdes Ramiro Gutiérrez; Ana María Cervan de la Haba; Enrique Guerado Parra

**Nº of researchers:** 7

**Funding entity or bodies:**

Consejería de Economía, Innovación y Ciencia

**Type of entity:** Junta de Andalucía

**City funding entity:** Andalusia, Spain

**Type of participation:** Team member

**Name of the programme:** Proyectos de Excelencia de la Junta de Andalucía

**Code according to the funding entity:** P10-CTS-06681

**Start-End date:** 06/07/2011 - 05/07/2015

**Duration:** 4 years

**Total amount:** 240.497 €

**Dedication regime:** Full time

**23 Name of the project:** TELTIS - Titanium-supported engineered bone tissue for orthopedic surgery

**Identify key words:** Organic chemistry

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Coordinator of total project, network or consortium

**Entity where project took place:** Universidad de Málaga, Universidad de Extremadura, Hospital Universitario La Paz, y otros

**Name principal investigator (PI, Co-PI...):** 1; Leonor Santos Ruiz; José Becerra Ratia

**Funding entity or bodies:**

Instituto de Salud Carlos III. Fondo de Investigación Sanitaria

**Type of entity:** Healthcare Institutions

**City funding entity:** Spain

**Type of participation:** Principal investigator

**Name of the programme:** Proyectos Intramurales CIBER-BBN

**Code according to the funding entity:** (CB06/01/011)

**Start-End date:** 01/01/2012 - 31/12/2013

**Duration:** 2 years

**Participating entity/entities:** Centro de Investigación Cardiovascular; Hospital Universitario de la Paz; ITUS-Tecnalia; Instituto Biomecánico de Valencia; Instituto Tecnológico de Canarias; Instituto de Bioingeniería de Cataluña; Universidad de Extremadura; Universidad de Málaga; Universidad de Zaragoza

**Dedication regime:** Full time





**Applicant's contribution:** Coordinación del Consorcio Intramural CIBER, e investigadora principal del proyecto en la Universidad de Málaga

- 24** **Name of the project:** Estudio de la interacción entre dos factores de riesgo en el desarrollo de espina bífida: diabetes y metabolismo del ácido fólico  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Fundación Pública Andaluza para la Gestión de la Investigación en Salud en Sevilla (FISEVI)  
**City of entity:** Sevilla, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** PATRICIA YBOT GONZALEZ  
**Nº of researchers:** 6  
**Funding entity or bodies:** Servicio Andaluz de Salud **Type of entity:** Healthcare Institutions  
**City funding entity:** Sevilla, Andalusia, Spain  
**Type of participation:** Team member  
**Name of the programme:** Subvenciones excepcionales, para el desarrollo de proyectos considerados de interés para el SAS  
**Code according to the funding entity:** SAS 111236  
**Start-End date:** 01/01/2011 - 31/12/2013 **Duration:** 3 years  
**Total amount:** 47.359,88 €  
**Dedication regime:** Full time
- 25** **Name of the project:** New strategies for bone tissue engineering combining advanced biomaterials, bone morphogenetic proteins and progenitor cells  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** JOSÉ BECERRA RATIA  
**Nº of researchers:** 9  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS, ORGANISMOS PÚBLICOS (EXTERNOS)  
**Code according to the funding entity:** BIO2009-13903-C02-01  
**Start-End date:** 01/01/2010 - 30/04/2013  
**Participating entity/entities:** Instituto de Ciencia de Materiales de Sevilla (ICMS); Universidad de Málaga  
**Total amount:** 222.640 € **Sub-project amount:** 145.200 €  
**Percentage as grant:** 65  
**Dedication regime:** Full time
- 26** **Name of the project:** Estudio de las diferencias en la masa ósea entre pacientes con fractura de cadera y pacientes sin fractura de cadera  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** EMPRESA PUBLICA HOSPITAL COSTA DEL SOL  
**City of entity:** Marbella, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** Enrique Guerado Parra  
**Nº of researchers:** 12  
**Funding entity or bodies:** Consejería de Salud de la Junta de Andalucía **Type of entity:** Gobierno autonómico  
**City funding entity:** Sevilla, Andalusia, Spain



**Type of participation:** Team member

**Name of the programme:** Subvenciones para la financiación de la Investigación Biomédica y en Ciencias de la Salud en Andalucía

**Code according to the funding entity:** PI-0808-2010

**Start-End date:** 01/01/2011 - 31/12/2012

**Duration:** 2 years

**Total amount:** 34.561,33 €

**27 Name of the project:** BIOGELANGIO: Biomimetic extracellular matrices for angiogenic activation and anti-inflammatory activity in regenerative medicine

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Ciencia y Tecnología de Polímeros - CSIC; Universidad de Málaga y otros

**City of entity:** Spain

**Name principal investigator (PI, Co-PI...):** Julio San Román

**Nº of researchers:** 71

**Funding entity or bodies:**

Instituto de Salud Carlos III

**Type of entity:** Public Research Body

**City funding entity:** Majadahonda, Community of Madrid, Spain

**Type of participation:** Team member

**Name of the programme:** Fondo de Investigación Sanitaria

**Code according to the funding entity:** CB06/01/011

**Start-End date:** 01/01/2010 - 31/12/2012

**Duration:** 2 years

**Participating entity/entities:** Hospital Universitario La Paz; Instituto Catalán de Ciencias Cardiovasculares - CSIC; Instituto de Bioingeniería de Cataluña; Instituto de Ciencia y Tecnología de Polímeros - CSIC; Universidad Politécnica de Valencia; Universidad de Alcalá; Universidad de Extremadura; Universidad de Málaga; Universidad de Valladolid; Universidad de Zaragoza

**Dedication regime:** Full time

**28 Name of the project:** RED DE TERAPIA CELULAR

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI...):** JOSÉ BECERRA RATIA

**Nº of researchers:** 18

**Type of participation:** Team member

**Name of the programme:** FONDO DE INVESTIGACIÓN SANITARIA (FIS), MINISTERIO DE CIENCIA E INNOVACIÓN

**Code according to the funding entity:** RD06/0010/0014

**Start-End date:** 01/01/2007 - 31/12/2012

**Duration:** 1460 days

**Total amount:** 496.981 €

**Dedication regime:** Full time

**29 Name of the project:** Desarrollo de estrategias para la adsorción de células a biomateriales de interés en ingeniería tisular para el sistema esquelético

**Type of project:** Research and development, including transfer

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain



**Name principal investigator (PI, Co-PI....):** 1; Enrique Guerado Parra; JOSÉ BECERRA RATIA  
**Nº of researchers:** 10  
**Type of participation:** Team member  
**Name of the programme:** PROYECTOS DE EXCELENCIA, JUNTA DE ANDALUCÍA  
**Code according to the funding entity:** P07-CVI-02781  
**Start-End date:** 01/02/2008 - 31/01/2011      **Duration:** 3 years  
**Total amount:** 300.000 €  
**Dedication regime:** Full time

- 30** **Name of the project:** BIOSCAFF - Aplicación hueso. Desarrollo de nuevos conceptos de andamiajes y cultivos celulares para medicina regenerativa  
**Type of project:** Research and development, including transfer      **Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Hospital Universitario de La Paz, Universidad de Málaga y otros  
**Name principal investigator (PI, Co-PI....):** Nuria Vilaboa  
**Nº of researchers:** 40  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS, ORGANISMOS PÚBLICOS (EXTERNOS)  
**Code according to the funding entity:** BIOSCAFF  
**Start-End date:** 15/11/2008 - 14/11/2009      **Duration:** 2 years  
**Participating entity/entities:** Hospital Universitario La Paz; Instituto de Bioingeniería de Cataluña; Instituto de Biomecánica de Valencia (IBV); Instituto de Ciencia de Materiales de Barcelona - CSIC; Instituto de Ciencia y Tecnología de Polímeros del CSIC; Universidad Complutense de Madrid; Universidad de Extremadura; Universidad de Málaga; Universidad de Zaragoza; Universitat Autònoma de Barcelona  
**Dedication regime:** Full time
- 31** **Name of the project:** DESARROLLO DE LAS CONDICIONES DE CULTIVO, PROLIFERACIÓN Y DIFERENCIACIÓN DE PROGENITORES MESENQUIMALES DE MÉDULA ÓSEA PARA TERAPIAS REGENERATIVAS ESQUELÉTICAS. DISEÑO DE COMPUESTOS OSTEOGÉNICOS  
**Type of project:** Research and development, including transfer      **Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga      **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** JOSÉ BECERRA RATIA; Enrique Guerado Parra; Leonor Santos Ruiz  
**Nº of researchers:** 8  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS DEL PLAN NACIONAL I+D, MINISTERIO DE CIENCIA Y TECNOLOGÍA  
**Code according to the funding entity:** BIO2006-03599  
**Start-End date:** 01/10/2006 - 30/09/2009      **Duration:** 1095 days  
**Participating entity/entities:** EMPRESA PUBLICA HOSPITAL COSTA DEL SOL; Universidad de Málaga  
**Total amount:** 108.900 €
- 32** **Name of the project:** DESARROLLO DE ESTRATEGIAS PARA LA REGENERACIÓN ESQUELÉTICA A PARTIR DE CÉLULAS MADRE MESENQUIMALES  
**Type of project:** Research and development, including transfer      **Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Type of entity:** University



**Entity where project took place:** Universidad de Málaga

**City of entity:** Mál,

**Name principal investigator (PI, Co-PI....):** JOSÉ BECERRA RATIA; Enrique Guerado Parra; Leonor Santos Ruiz; José Antonio Andrades Gómez

**Nº of researchers:** 16

**Type of participation:** Team member

**Name of the programme:** OTROS PROGRAMAS, JUNTA DE ANDALUCÍA

**Code according to the funding entity:** TCRM 0012/2006

**Start-End date:** 01/01/2007 - 31/12/2007

**Duration:** 1 year

**Total amount:** 105.000 €

**33 Name of the project:** Generación de células madre mesenquimáticas capacitadas in vitro para la promoción de la osteogénesis terapéutica

**Type of project:** Research and development, including transfer

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI....):** Enrique Guerado Parra; José Becerra Ratia; Leonor Santos Ruiz; José Antonio Andrades Gómez

**Nº of researchers:** 22

**Funding entity or bodies:**

Fundación Progreso y Salud - Consejería de Salud Junta de Andalucía

**City funding entity:** Andalusia, Spain

**Type of participation:** Team member

**Name of the programme:** Células Madre

**Code according to the funding entity:** TC 201.1.2/04

**Start-End date:** 12/2004 - 12/2006

**Duration:** 3 years

**Total amount:** 500.000 €

**34 Name of the project:** Las aletas de los peces teleósteos: su regeneración como modelo de estudios morfogénéticos y de ecotoxicidad

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad de Málaga

**Type of entity:** University

**City of entity:** Málaga, Andalusia, Spain

**Name principal investigator (PI, Co-PI....):** MANUEL MARI BEFFA; Coral Bodineau Gil; José Becerra Ratia; Fernando Marín Girón; Josefa Ruiz Sánchez; Leonor Santos Ruiz

**Nº of researchers:** 6

**Funding entity or bodies:**

Ministerio de Educación y Cultura

**Type of entity:** State agency

**Type of participation:** Team member

**Name of the programme:** Programa Sectorial de Promoción General del Conocimiento

**Code according to the funding entity:** PB98-1409

**Start-End date:** 01/12/1999 - 01/12/2002

**Duration:** 3 years - 1 month

**Total amount:** 48.080,97 €

**Dedication regime:** Full time



- 35** **Name of the project:** Regeneración de las aletas de peces teleósteos: mecanismos morfogenéticos implicados  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga  
**Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** José Becerra Ratia; Jesús Alberto Santamaría García; Manuel Marí Beffa; Leonor Santos Ruiz  
**Nº of researchers:** 4  
**Nª people/year:** 4  
**Type of participation:** Team member  
**Name of the programme:** Programa Sectorial de Promoción General del Conocimiento  
**Code according to the funding entity:** PB95-1134  
**Start-End date:** 11/09/1996 - 11/09/1999  
**Duration:** 3 years  
**Participating entity/entities:** Universidad de Málaga  
**Total amount:** 45.075,91 €  
**Dedication regime:** Full time
- 36** **Name of the project:** CÁTEDRAS DE BIOMEDICINA FUNDACION BBVA  
**Type of project:** Research and development, including transfer  
**Geographical area:** Non EU International  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga  
**Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** JOSÉ ANTONIO ANDRADES GÓMEZ; JOSÉ BECERRA RATIA  
**Nº of researchers:** 9  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS, ORGANISMOS PRIVADOS (EXTERNOS)  
**Code according to the funding entity:** CM-BBVA  
**Start date:** 01/10/2008  
**Duration:** 1 year  
**Total amount:** 80.000 €
- 37** **Name of the project:** Cnetro de Investigación Biomédica en Red - BIOINGENIERIA.BIOMATERIALES Y NANOMEDICINA (CIBER-BBN)  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga y otras  
**Name principal investigator (PI, Co-PI....):** JOSÉ BECERRA RATIA  
**Nº of researchers:** 17  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS, ORGANISMOS PÚBLICOS  
**Code according to the funding entity:** CB06/01/1015  
**Start date:** 01/11/2007  
**Duration:** 1155 days  
**Total amount:** 981.528 €  
**Dedication regime:** Full time



- 38 Name of the project:** Capacitación de células osteogénicas in vitro y su aplicación clínica a las reparaciones óseas  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga y Hospital Costa del Sol  
**Name principal investigator (PI, Co-PI....):** JOSÉ BECERRA RATIA  
**Nº of researchers:** 6  
**Type of participation:** Team member  
**Name of the programme:** OTROS PROGRAMAS DEL PLAN NACIONAL I+D, MINISTERIO DE CIENCIA Y TECNOLOGÍA  
**Code according to the funding entity:** DGICYT (SAF99-0133)  
**Start date:** 01/01/1999 **Duration:** 1095 days  
**Total amount:** 90.199,9 €

### R&D non-competitive contracts, agreements or projects with public or private entities

- 1 Name of the project:** Producción y suministro de productos celulares genéricos, a partir de células madre  
**Entity where project took place:** Universidad de Málaga  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** José Becerra Ratia; Leonor Santos Ruiz; Rick Visser  
**Nº of researchers:** 3  
**Participating entity/entities:** Oficina de Transferencia de Resultados de Investigación de la Universidad de Málaga  
**Funding entity or bodies:** Aljama Gestión, S.L. **Type of entity:** Business  
**City funding entity:** Andalusia, Spain  
**Start date:** 01/02/2019 **Duration:** 1 year
- 2 Name of the project:** Programa CENIT (CDTI): INTERIMPLANT. Biomateriales avanzados para la fabricación de implantes  
**Type of project:** Research and development, including transfer **Entity where project took place:** Universidad de Málaga  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad de Málaga **Type of entity:** University  
**City of entity:** Málaga, Andalusia, Spain  
**Name principal investigator (PI, Co-PI....):** José Becerra Ratia  
**Nº of researchers:** 10  
**Funding entity or bodies:** Centro para el Desarrollo Tecnológico e Industrial. Ministerio de Industria, Turismo y Comercio **Type of entity:** State agency  
**City funding entity:** Spain  
**Name of the programme:** Programa CENIT del Centro para el Desarrollo Tecnológico e Industrial (CDTI)  
**Code according to the funding entity:** 2007/2018  
**Start date:** 01/10/2007 **Duration:** 3 years - 3 months  
**Total amount:** 60.000 €

## Results

### Industrial and intellectual property

- Title registered industrial property:** BIOACTIVE GLASSES, BIOACTIVE GLASS SCAFFOLDS. ANO CELL-SEEDED BIOACTIVE GLASS SCAFFOLDS; PREPARATION METHODS; ANO USES THEREOF

**Type of industrial property:** Patent of invention

**Inventors/authors/obtainers:** Felipe Orgaz Orgaz; Leonor Santos Ruiz; María Flora Barba Martín-Sonseca; José Becerra Ratia; Daniel Amat Trujillo

**Entity holder of rights:** Consejo Superior de Investigaciones Científicas, Universidad de Málaga, CIBER-BBN

**N° of application:** P201400570

**Country of inscription:** Spain

**Date of register:** 10/07/2014

**Conferral date:** 15/11/2016

**N° of patent:** ES2559105 B1

**Spanish patent:** Yes

**International non-EU patent:** Yes

**Identify key words:** Biomaterials

**EU patent:** Yes

**PCT patent:** Yes
- Title registered industrial property:** MÉTODO HISTOLÓGICO OPTIMIZADO PARA LA PRESERVACIÓN DE EPÍTOPOS ANTIGÉNICOS Y ARQUITECTURA CELULAR DE LOS TEJIDOS DE VERTEBRADOS

**Type of industrial property:** Patent of invention

**Inventors/authors/obtainers:** IVAN DURAN JIMENEZ; LEONOR SANTOS RUIZ; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA; MANUEL MARI BEFFA

**Entity holder of rights:** Universidad de Málaga y Centro de Investigación Biomédica en Red (CIBER)

**N° of application:** P201000096

**Country of inscription:** Spain

**Date of register:** 25/07/2010

**Conferral date:** 02/03/2012

**N° of patent:** ES2363551 B2

**Spanish patent:** Yes

**International non-EU patent:** Yes

**EU patent:** Yes

**PCT patent:** Yes
- Title registered industrial property:** CONSTRUCTO ÚTIL PARA TERAPIA DE REGENERACIÓN DE TEJIDOS, PROCEDIMIENTO DE OBTENCIÓN Y APLICACIONES

**Type of industrial property:** Patent of invention

**Inventors/authors/obtainers:** JOSÉ BECERRA RATIA; MARÍA ARÁNZAZU DÍAZ CUENCA; LEONOR SANTOS RUIZ

**Entity holder of rights:** Universidad de Málaga y Consejo Superior de Investigaciones Científicas

**N° of application:** P200702694

**Country of inscription:** Spain

**Date of register:** 15/10/2007

**Conferral date:** 12/01/2011

**N° of patent:** ES2334298 B1

**Spanish patent:** Yes



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Liliya Kazantseva; José Becerra Ratia; Leonor Santos Ruiz. Oridonin enhances antitumor effects of doxorubicin in human osteosarcoma cells. *Pharmacological Reports*. 74 - 1, pp. 248 - 256. HEIDELBERG(Germany): Springer, 2022. ISSN 1734-1140  
**DOI:** 10.1007/s43440-021-00324-1  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 3  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes
- 2** Alberto Maria Crovace; Luca Lacitignola; Donato Monopoli Forleo; Francesco Staffieri; Edda Francioso; Antonio Di Meo; José Becerra Ratia; Antonio Crovace; Leonor Santos Ruiz. 3D Biomimetic Porous Titanium (Ti6Al4V ELI) Scaffolds for Large Bone Critical Defect Reconstruction: An Experimental Study in Sheep. *Animals*. 10 - 8, pp. 1389. Basel(Switzerland): MDPI, 01/08/2020. ISSN 2076-2615  
**DOI:** 10.3390/ani10081389  
**Type of production:** Scientific paper  
**Position of signature:** 9  
**Total no. authors:** 9  
**Impact source:** ISI  
**Impact index in year of publication:**  
**Impact source:** ISI  
**Impact index in year of publication:**  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE  
**Journal in the top 25%:** Yes  
**Category:** Science Edition - VETERINARY SCIENCES  
**Journal in the top 25%:** Yes
- 3** Noemí Molina Cabeza; Ana María González Luque; Donato Monopoli Forleo; Belinda Mentado; José Becerra Ratia; Leonor Santos Ruiz; Yolanda Vida Pol; Ezequiel Pérez-Inestrosa Villatoro. Dendritic Scaffold onto Titanium implants. A Versatile Strategy Increasing Biocompatibility. *Polymers*. 12, pp. 770. Basel(Switzerland): MDPI, 01/04/2020. ISSN 2073-4360  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 8  
**Impact source:** Journal Citation Reports  
**Impact index in year of publication:** 3,164  
**Position of publication:** 17  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 87





- 4** María García Bonilla; Betsaida Ojeda Pérez; María Luisa García Martín; María del Carmen Muñoz Hernández; Javier Vitorica; Sebastián Jiménez; Manuel Cifuentes Rueda; Leonor Santos Ruiz; Kirill Shumilov; Silvia Claros; Antonia Gutiérrez; Patricia Páez González; Antonio Jesús Jiménez Lara. Neocortical tissue recovery in severe congenital obstructive hydrocephalus after intraventricular administration of bone marrow-derived mesenchymal stem cells. *Stem Cell Research & Therapy*. 11 - 1, pp. 121. London(United Kingdom): 17/03/2020. ISSN 1757-6512  
**DOI:** 10.1186/s13287-020-01626-6  
**Type of production:** Scientific paper  
**Position of signature:** 8  
**Total no. authors:** 13  
**Impact source:** Journal Citation Reports  
**Impact index in year of publication:** 4,628  
**Position of publication:** 32  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 136
- 5** Rodrigo Trisciuzzi; Laura Fracassi; Hernando Afonso Martín; Donato Monopoli Forleo; Daniel Amat Trujillo; Leonor Santos Ruiz; Elena De Palma; Albeto Maria Crovace. 41 Cases of Treatment of Cranial Cruciate Ligament Rupture with Porous TTA: Three Years of Follow Up. *Veterinary sciences*. 6 - 1, (Switzerland): Multidisciplinary Digital Publishing Institute (MDPI), 20/02/2019. ISSN 2306-7381  
**DOI:** 10.3390/vetsci6010018  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 8  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 1,34  
**Position of publication:** 35  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** General veterinary  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 166
- 6** Carlotta Perucca Orfei; Marco Viganò; John R Pearson; Alessandra Colombini; Paola De Luca; Enrico Ragni; Leonor Santos Ruiz; Laura de Girolamo. In Vitro Induction of Tendon-Specific Markers in Tendon Cells, Adipose- and Bone Marrow-Derived Stem Cells is Dependent on TGF3, BMP-12 and Ascorbic Acid Stimulation. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 20 - 1, pp. e149. BASILEA(Switzerland): MDPI, 01/01/2019. ISSN 1422-0067  
**DOI:** 10.3390/ijms20010149  
**PMID:** 30609804  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 8  
**Impact source:** ISI  
**Impact index in year of publication:** 3,687  
**Position of publication:** 52  
**Impact source:** ISI  
**Impact index in year of publication:** 3,687  
**Position of publication:** 90  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 171  
**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 293

- 7** Isabel Izquierdo Barba; Leonor Santos Ruiz; José Becerra Ratia; M. J. Feito; D. Fernández Villa; M. C. Serrano; I. Díaz Güemes; B. Fernández Tomé; S. Enciso; F. M. Sánchez Margallo; Donato Monopoli Forleo; Hernando Afonso; María Teresa Portolés; Daniel Arcos; María Vallet Regí. Synergistic effect of Si-hydroxyapatite coating and VEGF adsorption on Ti6Al4V-ELI scaffolds for bone regeneration in an osteoporotic bone environment. ACTA BIOMATERIALIA. 83, pp. 456 - 466. Oxford(United Kingdom): ELSEVIER SCI LTD, 01/01/2019. ISSN 1742-7061  
**DOI:** 10.1016/j.actbio.2018.11.017  
**PMID:** 30445158  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 15  
**Impact source:** ISI  
**Impact index in year of publication:** 6,383  
**Position of publication:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 6,383  
**Position of publication:** 4  
**Relevant publication:** Yes
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - MATERIALS SCIENCE, BIOMATERIALS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 33  
**Category:** Science Edition - ENGINEERING, BIOMEDICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 78
- 8** Felipe Orgaz Orgaz; Daniel Amat Trujillo; Olga Szycht; Alexandra Dzika; Flora Barba; José Becerra Ratia; Leonor Santos Ruiz. Synthesis of novel ICIE16/BSG and ICIE16/BSG-NITRI bioglasses and description of ionic release kinetics upon immersion in SBF fluid: Effect of nitridation. Data in Brief. 6, pp. 153 - 157. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 03/2016. ISSN 2352-3409  
**DOI:** 10.1016/j.dib.2015.11.026  
**PMID:** 26858981  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 7  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 0,5  
**Position of publication:** 33  
**Source of citations:** JCR  
**Relevant publication:** Yes
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Multidisciplinary  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 77  
**Citations:** 4
- 9** Felipe Orgaz Orgaz; Alexandra Dzika; Olga Szycht; Daniel Amat Trujillo; Flora Barba; José Becerra Ratia; Leonor Santos Ruiz. Surface nitridation improves bone cell response to melt-derived bioactive silicate/borosilicate glass composite scaffolds. Acta Biomaterialia. 29, pp. 424 - 434. Oxford(United Kingdom): ELSEVIER SCI LTD, 01/01/2016. ISSN 1742-7061  
**DOI:** 10.1016/j.actbio.2015.10.006  
**PMID:** 26441124  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 7  
**Impact source:** ISI
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - MATERIALS SCIENCE, BIOMATERIALS



**Impact index in year of publication:** 6,319  
**Position of publication:** 2

**Impact source:** ISI

**Impact index in year of publication:** 6,319  
**Position of publication:** 3

**Source of citations:** WOS

**Relevant publication:** Yes

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 33

**Category:** Science Edition - ENGINEERING, BIOMEDICAL

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 77

**Citations:** 6

- 10** María Lourdes Ramiro Gutierrez; Leonor Santos Ruiz; Sara Borrego González; José Becerra Ratia; María Aránzazu Díaz Cuenca. In vitro stimulation of MC3T3-E1 cells and sustained drug delivery by a hierarchical nanostructured SiO<sub>2</sub>-CaO-P<sub>2</sub>O<sub>5</sub> scaffold. MICROPOROUS AND MESOPOROUS MATERIALS. 229, pp. 31 - 43. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 2016. ISSN 1387-1811

**DOI:** 10.1016/j.micromeso.2016.04.018

**Type of production:** Scientific paper

**Position of signature:** 2

**Total no. authors:** 5

**Impact source:** ISI

**Impact index in year of publication:** 3,615  
**Position of publication:** 10

**Impact source:** ISI

**Impact index in year of publication:** 3,615  
**Position of publication:** 58

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - CHEMISTRY, APPLIED

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 72

**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 275

**Citations:** 4

- 11** Rick Visser; Pilar María Arrabal García; Leonor Santos Ruiz; Raúl Fernández Barranco; José Becerra Ratia; Manuel Cifuentes Rueda. A Collagen-Targeted Biomimetic RGD Peptide to Promote Osteogenesis. Tissue Engineering Part A. 20 - 1-2, pp. 34 - 44. NEW ROCHELLE(United States of America): MARY ANN LIEBERT, INC, 2014. ISSN 1937-3341

**DOI:** 10.1089/ten.tea.2012.0610

**PMID:** 23859077

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 6

**Impact source:** ISI

**Impact index in year of publication:** 4,448  
**Position of publication:** 21

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 163

**Citations:** 13

- 12** Pilar María Arrabal García; Rick Visser; Leonor Santos Ruiz; José Becerra Ratia; Manuel Cifuentes Rueda. Osteogenic molecules for clinical applications: improving the BMP-collagen system. Biological Research. 46 - 4, pp. 421 - 429. Santiago(Chile): SOC BIOLGIA CHILE, 2013. ISSN 0716-9760

**DOI:** 10.4067/S0716-97602013000400013

**PMID:** 24510144

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 5

**Impact source:** SCOPUS

**Impact index in year of publication:** 0,391

**Position of publication:** 110

**Impact source:** ISI

**Impact index in year of publication:** 1,041

**Position of publication:** 54

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Biochemistry, Genetics and Molecular Biology (miscellaneous)

**Journal in the top 25%:** No

**No. of journals in the cat.:** 226

**Category:** Science Edition - BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 85

**Citations:** 19

- 13** RICK VISSER; PILAR MARÍA ARRABAL GARCÍA; LEONOR SANTOS RUIZ; JOSÉ BECERRA RATIA; MANUEL CIFUENTES RUEDA. Basic fibroblast growth factor enhances the osteogenic differentiation induced by bone morphogenetic protein-6 in vitro and in vivo. *Cytokine*. 58 - 1, pp. 27 - 33. LONDON(United Kingdom): ACADEMIC PRESS LTD- ELSEVIER SCIENCE LTD, 2012. ISSN 1043-4666

**DOI:** 10.1016/j.cyto.2011.12.020

**PMID:** 22261233

**Type of production:** Scientific paper

**Position of signature:** 3

**Total no. authors:** 5

**Impact source:** ISI

**Impact index in year of publication:** 2,518

**Position of publication:** 115

**Impact source:** ISI

**Impact index in year of publication:** 2,518

**Position of publication:** 171

**Impact source:** ISI

**Impact index in year of publication:** 2,518

**Position of publication:** 86

**Source of citations:** WOS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - CELL BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 185

**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 290

**Category:** Science Edition - IMMUNOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 137

**Citations:** 32

- 14** IVAN DURAN JIMENEZ; MANUEL MARI BEFFA; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA; LEONOR SANTOS RUIZ. ACTINOTRICHIA COLLAGENS AND THEIR ROLE IN FIN FORMATION. *Developmental biology*. 354 - 1, pp. 160 - 172. SAN DIEGO(United States of America): ACADEMIC PRESS INC ELSEVIER SCIENCE, 2011. ISSN 0012-1606

**DOI:** 10.1016/j.ydbio.2011.03.014

**PMID:** 21420398

**Type of production:** Scientific paper

**Position of signature:** 5

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 4.069**Position of publication:** 7**Source of citations:** SCOPUS**Relevant publication:** Yes**Corresponding author:** No**Category:** Science Edition - DEVELOPMENTAL BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 40**Citations:** 51

- 15** IVAN DURAN JIMENEZ; MANUEL MARI BEFFA; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA; LEONOR SANTOS RUIZ. FREEZE SUBSTITUTION FOLLOWED BY LOW MELTING POINT WAX EMBEDDING PRESERVES HISTOMORPHOLOGY AND ALLOWS PROTEIN AND MRNA LOCALIZATION TECHNIQUES. Microscopy research and technique. 74 - 5, pp. 440 - 448. MALDEN(United States of America): WILEY-BLACKWELL, 2011. ISSN 1059-910X

**DOI:** 10.1002/jemt.20929**PMID:** 20830701**Type of production:** Scientific paper**Position of signature:** 5**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1,792**Position of publication:** 34**Impact source:** ISI**Impact index in year of publication:** 1,792**Position of publication:** 4**Impact source:** ISI**Impact index in year of publication:** 1.792**Position of publication:** 8**Source of citations:** WOS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 85**Category:** Science Edition - MICROSCOPY**Journal in the top 25%:** No**No. of journals in the cat.:** 10**Category:** Anatomy**Journal in the top 25%:** No**No. of journals in the cat.:** 21**Citations:** 8

- 16** JOSÉ BECERRA RATIA; LEONOR SANTOS RUIZ; JOSÉ ANTONIO ANDRADES GÓMEZ; MANUEL MARI BEFFA. THE STEM CELL NICHE SHOULD BE A KEY ISSUE FOR CELL THERAPY IN REGENERATIVE MEDICINE. STEM CELL REVIEWS AND REPORTS. 7 - 2, pp. 248 - 255. TOTOWA(United States of America): HUMANA PRESS INC, 2011. ISSN 1550-8943

**DOI:** 10.1007/s12015-010-9195-5**PMID:** 21052872**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 3.739**Position of publication:** 26**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 112**Citations:** 37

**17** Kingyin Lm Lee; LEONOR SANTOS RUIZ; PATRIZIA FERRETTI. A SINGLE-POINT MUTATION IN FGFR2 AFFECTS CELL CYCLE AND TGF $\beta$  SIGNALLING IN OSTEOBLASTS. *Biochimica et biophysica acta. Molecular basis of disease.* 1802 - 3, pp. 347 - 355. AMSTERDAM(Holland): ELSEVIER SCIENCE BV, 2010. ISSN 0925-4439

**DOI:** 10.1016/j.bbadis.2009.11.006

**PMID:** 20004243

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 3

**Impact source:** ISI

**Impact index in year of publication:** 5,211

**Position of publication:** 9

**Impact source:** ISI

**Impact index in year of publication:** 5.211

**Position of publication:** 52

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - BIOPHYSICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 73

**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 286

**Citations:** 13

**18** LEONOR SANTOS RUIZ; David J Mowatt; Marguerie, A; Tukiainen, D; Kellomäki, M; Törmälä, P; Soukas, E; Arstila, H; Ashammakhi, N; PATRIZIA FERRETTI. POTENTIAL USE OF CRANIOSYNOSTOTIC OSTEOPROGENITORS AND BIOACTIVE SCAFFOLDS FOR BONE ENGINEERING. *Journal of tissue engineering and regenerative medicine.* 1 - 3, pp. 199 - 210. CHICHESTER(United Kingdom): 2007. ISSN 1932-6254

**DOI:** 10.1002/term.26

**PMID:** 18038412

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 10

**Impact source:** ISI

**Impact index in year of publication:** 1,615

**Position of publication:** 32

**Impact source:** ISI

**Impact index in year of publication:** 1,615

**Position of publication:** 88

**Source of citations:** WOS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - ENGINEERING, BIOMEDICAL

**Journal in the top 25%:** No

**No. of journals in the cat.:** 52

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 144

**Citations:** 9

**19** MANUEL MARI BEFFA; Jesús Alberto Santamaría García; Carmen Murciano; LEONOR SANTOS RUIZ; JOSÉ ANTONIO ANDRADES GÓMEZ; ENRIQUE GUERADO PARRA; JOSÉ BECERRA RATIA. ZEBRAFISH FINS AS A MODEL SYSTEM FOR SKELETAL HUMAN STUDIES. *TheScientificWorldjournal.* 7, pp. 1114 - 1127. LONDON(United Kingdom): HINDAWI LTD, 2007. ISSN 1537-744X

**DOI:** 10.1100/tsw.2007.190

**PMID:** 17619793

**Type of production:** Scientific paper

**Format:** Journal



**Position of signature:** 4

**Total no. authors:** 7

**Impact source:** ISI

**Impact index in year of publication:** 0.877

**Position of publication:** 17

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

**Journal in the top 25%:** No

**No. of journals in the cat.:** 50

**Citations:** 30

- 20** LEONOR SANTOS RUIZ; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA. CYTOSKELETAL DYNAMICS OF THE TELEOSTEAN FIN RAY DURING FIN EPIMORPHIC REGENERATION. Differentiation. 73 - 4, pp. 175 - 187. OXFORD(United Kingdom): ELSEVIER SCI LTD, 2005. ISSN 0301-4681

**DOI:** 10.1111/j.1432-0436.2005.00016.x

**PMID:** 15901284

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 3

**Impact source:** ISI

**Impact index in year of publication:** 3,907

**Position of publication:** 10

**Impact source:** ISI

**Impact index in year of publication:** 3.907

**Position of publication:** 50

**Source of citations:** WOS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** Science Edition - DEVELOPMENTAL BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 33

**Category:** Science Edition - CELL BIOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 153

**Citations:** 45

- 21** LEONOR SANTOS RUIZ; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSEFA RUÍZ SÁNCHEZ; JOSÉ BECERRA RATIA. CELL PROLIFERATION DURING BLASTEMA FORMATION IN THE REGENERATING TELEOST FIN. Developmental dynamics. 223 - 2, pp. 262 - 272. NEW YORK(United States of America): WILEY-LISS, DIV JOHN WILEY & SONS INC, 2002. Available on-line at: <[www.sciencedirect.com/science/article/B6WVB-45JRP8C-302/1/2F3ADC25A37D1B18C323DD8A92AE47D1](http://www.sciencedirect.com/science/article/B6WVB-45JRP8C-302/1/2F3ADC25A37D1B18C323DD8A92AE47D1)>. ISSN 1058-8388

**DOI:** 10.1002/dvdy.10055

**PMID:** 11836790

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 3.804

**Position of publication:** 2

**Source of citations:** SCOPUS

**Relevant publication:** Yes

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** Science Edition - ANATOMY & MORPHOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 17

**Citations:** 62



- 22** Fang Zhang; Jonathan Dw Clarke; LEONOR SANTOS RUIZ; PATRIZIA FERRETTI. DIFFERENTIAL REGULATION OF FIBROBLAST GROWTH FACTOR RECEPTORS IN THE REGENERATING AMPHIBIAN SPINAL CORD IN VIVO. *Neuroscience*. 114 - 4, pp. 837 - 848. Oxford(United Kingdom): PERGAMON-ELSEVIER SCIENCE LTD, 2002. ISSN 0306-4522  
**DOI:** 10.1016/S0306-4522(02)00321-4  
**PMID:** 12379240  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 3.457  
**Position of publication:** 43  
**Source of citations:** SCOPUS  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 197  
**Citations:** 20
- 23** Leonor Santos Ruiz. Hacer huesos en el laboratorio. *Revista U-Ciencia*. Málaga, Andalusia(Spain): Servicio de Publicaciones y Divulgación Científica (SPYDUM) de la Universidad de Málaga, 20/06/2012. Available on-line at: <<http://uciencia.uma.es/Noticias/Salud/Hacer-huesos-en-el-laboratorio>>. ISSN 1889-7568  
**Type of production:** Popular science article  
**Position of signature:** 1  
**Total no. authors:** 1  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of educational publication  
**Corresponding author:** Yes
- 24** Leonor Santos Ruiz. Células madre: ¿la panacea de la medicina del siglo XXI?. *Revista U-Ciencia*. 1 - 3, pp. 28 - 31. Málaga, Andalusia(Spain): Servicio de Publicaciones y Divulgación Científica (SPYDUM) de la Universidad de Málaga, 2010. Available on-line at: <<http://www.uciencia.uma.es/Revista-Uciencia/Ellas-investigan/Investigacion/Celulas-madre-la-panacea-de-la-medicina-del-siglo-XXI>>. ISSN 1889-7568  
**Type of production:** Popular science article  
**Position of signature:** 1  
**Total no. authors:** 1  
**Relevant publication:** Yes  
**Format:** Journal  
**Degree of contribution:** Author or co-author of educational publication  
**Corresponding author:** Yes
- 25** Pilar María Arrabal García; Rick Visser; Leonor Santos Ruiz; José Becerra Ratia; Manuel Cifuentes Rueda. Collagen-targeted BMPs for bone healing. *IFMBE Proceedings: XIII Mediterranean Conference on Medical and Biological Engineering and Computing 2013*. 41, pp. 1634 - 1637. Cham(Switzerland): Springer Int Publishing AG, 2014. ISBN 978-331900845-5  
**DOI:** [https://doi.org/10.1007/978-3-319-00846-2\\_403](https://doi.org/10.1007/978-3-319-00846-2_403)  
**Type of production:** Book chapter  
**Relevant publication:** Yes  
**Format:** Book
- 26** Leonor Santos Ruiz. Cell Biology and Beyond: Applications of Cell Biology. *Hot Topics in Cell Biology*. pp. 106 - 111. Oxford(United Kingdom): Chartridge Books Oxford, 2012. ISBN 1-90928-700-8  
**Type of production:** Book chapter  
**Position of signature:** 1  
**Relevant publication:** Yes  
**Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book





- 27** PILAR MARÍA ARRABAL GARCÍA; RICK VISSER; LEONOR SANTOS RUIZ; MANUEL CIFUENTES RUEDA; JOSÉ BECERRA RATIA. Strategies for Improving the Current BMP-based Treatments in Orthopaedic Surgery. Collagen-targeted BMPs. Bone Morphogenetic Proteins: New Research. pp. 151 - 173. New York(United States of America): Nova Science Publishers Inc., 2012. ISBN 978-1-6194-2409-8  
**Type of production:** Book chapter **Format:** Book  
**Position of signature:** 3 **Degree of contribution:** Author or co-author of chapter in book  
**Relevant publication:** Yes
- 28** Enrique Guerado Parra; Gabriela Guerado; Thomas Andrist; Daniel Amat Trujillo; José Becerra Ratia; Leonor Santos Ruiz. Sustitutos Óseos y Terapia Celular. Biomateriales y sustitutos óseos en Traumatología y Cirugía Ortopédica. Cádiz, Andalusia(Spain): Universidad de Cádiz, 2011. ISBN 978-8-4982-8353-2  
**Type of production:** Book chapter **Format:** Book  
**Degree of contribution:** Author or co-author of chapter in book  
**Relevant publication:** Yes
- 29** José Becerra Ratia; Leonor Santos Ruiz. Hot Topics in Cell Biology. pp. 1 - 278. Oxford(United Kingdom): Chartridge Books Oxford, 03/10/2012. ISBN 978-1-9092-8700-6  
**Type of production:** Scientific book or monograph **Format:** Book  
**Position of signature:** 2 **Degree of contribution:** Editor or co-editor  
**Relevant publication:** Yes
- 30** Liliya Kazantseva; José Becerra Ratia; Leonor Santos Ruiz. Traditional Medicinal Plants as a Source of Inspiration for Osteosarcoma Therapy. Molecules. 27 - 15, pp. 5008. MDPI, 06/08/2022. ISSN 1420-3049  
**DOI:** 10.3390/molecules27155008  
**Type of production:** Review **Format:** Journal  
**Position of signature:** 3 **Degree of contribution:** Author or co-author of review  
**Total no. authors:** 3 **Corresponding author:** Yes  
**Relevant publication:** Yes
- 31** AM Crovace; L Lactignola; Donato Monopoli Forleo; Leonor Santos Ruiz; José Becerra Ratia; A di Meo; E Francioso; Antonio Crovace. Biomimetic Porous Titanium Scaffolds or Large Bone Critical Defect Reconstruction: an Experimental Study. Tissue Engineering Part A. 21, pp. 49 - 50. NEW ROCHELLE(United States of America): MARY ANN LIEBERT, INC, 01/09/2015. ISSN 1937-3341  
**Type of production:** Published Meeting Abstract (Peer-reviewed) **Format:** Journal  
**Position of signature:** 3 **Corresponding author:** Yes  
**Total no. authors:** 8 **Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY  
**Impact source:** ISI **Journal in the top 25%:** Yes  
**Impact index in year of publication:** 3,892 **No. of journals in the cat.:** 161  
**Position of publication:** 30  
**Relevant publication:** Yes
- 32** Daniel Amat Trujillo; Ronald Unger; C James Kirkpatrick; José Becerra Ratia; Leonor Santos Ruiz. Study of the osteoconductive and angiogenic potential of Electron Beam Melting Titanium (EBMT). Human Gene Therapy. 24 - 12, pp. A125 - A125. NEW ROCHELLE(United States of America): MARY ANN LIEBERT, INC, 2013. ISSN 1043-0342  
**Type of production:** Published Meeting Abstract (Peer-Reviewed) **Format:** Journal  
**Position of signature:** 5 **Corresponding author:** Yes  
**Total no. authors:** 5



**Impact source:** ISI

**Impact index in year of publication:** 5,689

**Position of publication:** 37

**Relevant publication:** Yes

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 165

- 33** Rosa María Belmonte Urbano; Daniel Amat Trujillo; José Becerra Ratia; Donato Monopoli Forleo; Leonor Santos Ruiz. Combining tissue engineering with metal scaffolds in orthopaedics to improve osseointegration of endo-prostheses. Human Gene Therapy. 24 - 12, pp. A51 - A51. NEW ROCHELLE(United States of America): MARY ANN LIEBERT, INC, 2013. ISSN 1043-0342

**Type of production:** Published Meeting Abstract (Peer-reviewed)

**Position of signature:** 5

**Total no. authors:** 5

**Impact source:** ISI

**Impact index in year of publication:** 5,689

**Position of publication:** 37

**Relevant publication:** Yes

**Format:** Journal

**Corresponding author:** Yes

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 165

- 34** Juan Francisco Granados Colocho; Leonor Santos Ruiz; Mariam Contreras; José Mellado; Gregorio Martín; Lucas Bermudo; Francisco Ruiz Delgado; Yolanda Aguilar; José Ignacio Yáñez Vilas. Squamous cell carcinoma related with dental implants. A clinical cases report. Journal of clinical and experimental dentistry. 12 - 1, pp. e98 - e102. Valencia, Valencian Community(Spain): Medicina Oral, S.L., 01/01/2020. ISSN 1989-5488

**DOI:** 10.4317/medoral.55964

**Type of production:** Scientific paper

**Corresponding author:** No

**Impact source:** SJR

**Impact index in year of publication:** 0,47

**Position of publication:** 60

**Format:** Journal

**Category:** Dentistry (miscellaneous)

**Journal in the top 25%:** No

**No. of journals in the cat.:** 143

- 35** Felipe Orgaz Orgaz; Alexandra Dzika; Olga Szycht; Daniel Amat Trujillo; Flora Barba; José Becerra Ratia; Leonor Santos Ruiz. Surface nitridation improves bone cell response to melt-derived bioactive silicate/borosilicate glass composite scaffolds. Acta Biomaterialia. 33, pp. 325 - 325. Oxford(United Kingdom): ELSEVIER SCI LTD, 15/03/2016. ISSN 1742-7061

**DOI:** 10.1016/j.actbio.2015.11.020

**PMID:** 26441124

**Type of production:** Scientific paper

**Position of signature:** 7

**Total no. authors:** 7

**Impact source:** ISI

**Impact index in year of publication:** 6,319

**Position of publication:** 2

**Impact source:** ISI

**Impact index in year of publication:** 6,319

**Position of publication:** 3

**Format:** Journal

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** Yes

**Category:** Science Edition - MATERIALS SCIENCE, BIOMATERIALS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 33

**Category:** Science Edition - ENGINEERING, BIOMEDICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 77

**Source of citations:** WOS**Citations:** 7

- 36** Enrique Guerado Parra; Thomas Andrist; José Antonio Andrades Gómez; Leonor Santos Ruiz; Ana Cerván de la Haba; Gabriela Guerado; José Becerra Ratia. Artrodesis del raquis: Ciencia básica. Revistas Española de Cirugía Ortopédica y Traumatología. 56 - 3, pp. 227 - 244. (Spain): Elsevier Doyma, 2012. ISSN 1888-4415

**DOI:** 10.1016/j.recot.2012.01.003**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 7**Impact source:** SCOPUS**Impact index in year of publication:** 0,126**Position of publication:** 312**Impact source:** Scopus CiteScore**Impact index in year of publication:** 0,2**Position of publication:** 152**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Orthopaedics and Sports Medicine**Journal in the top 25%:** No**No. of journals in the cat.:** 413**Category:** Orthopaedics and Sports Medicine**Journal in the top 25%:** No**No. of journals in the cat.:** 312

- 37** Juan Ramón Cano; LEONOR SANTOS RUIZ; ENRIQUE GUERADO PARRA; JOSÉ BECERRA RATIA. OSTEOPROGENITOR CELL ADHESIVENESS TO A TITANIUM MESH. A CLINICALLY RELEVANT HYPOTHESIS FOR REVISION SURGERY IN HIP REPLACEMENT. Hip International. 20 - S7, pp. 102 - 105. MILAN(Italy): WICHTIG PUBLISHING, 2010. ISSN 1120-7000

**PMID:** 20512780**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 0.792**Position of publication:** 38**Source of citations:** SCOPUS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - ORTHOPEDICS**Journal in the top 25%:** No**No. of journals in the cat.:** 61**Citations:** 3

- 38** MANUEL MARI BEFFA; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSEFA RUÍZ SÁNCHEZ; LEONOR SANTOS RUIZ; JOSÉ BECERRA RATIA. EXTRACELLULAR MATRIX IN FIN REGENERATION IN TELEOSTS. BRAZILIAN JOURNAL OF MORPHOLOGICAL SCIENCES. 20 - 2, pp. 61 - 65. 2003.

**Type of production:** Scientific paper**Format:** Journal

- 39** LEONOR SANTOS RUIZ; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA. DIFFERENTIAL EXPRESSION OF FGF RECEPTORS DURING ZEBRAFISH FIN REGENERATION. International journal of developmental biology. 45, pp. S131 - S132. Bilbato, Basque Country(Spain): UBC PRESS, UNIV BASQUE COUNTRY, EDITORIAL SERVICES,, 2001. ISSN 0214-6282

**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1.650**Position of publication:** 22**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - DEVELOPMENTAL BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 33

**Source of citations:** WOS

**Citations:** 3

- 40** PATRIZIA FERRETTI; Fang Zhang; LEONOR SANTOS RUIZ; Johnatan DW Clarke. FGF SIGNALLING AND BLASTEMA GROWTH DURING AMPHIBIAN TAIL REGENERATION. The International journal of developmental biology. 45 - S1, pp. 127 - 128. BILBAO, Basque Country(Spain): 2001. ISSN 0214-6282  
**Type of production:** Scientific paper  
**Position of signature:** 3  
**Total no. authors:** 4  
**Impact source:** ISI  
**Impact index in year of publication:** 1.650  
**Position of publication:** 22  
**Source of citations:** SCOPUS
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - DEVELOPMENTAL BIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 33  
**Citations:** 13
- 41** JESÚS ALBERTO SANTAMARÍA GARCÍA; LEONOR SANTOS RUIZ; JOSÉ BECERRA RATIA. AN ANTISERUM AGAINST CERATOTRICHIA (SELACHIAN) RECOGNIZES ACTINOTRICHIA IN TELEOST REGENERATING FINS. The International journal of developmental biology. S1, pp. 175 - 176. BILBAO, Basque Country(Spain): UPV-EHU PRESS, 1996. ISSN 0214-6282  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 1,702  
**Position of publication:** 16  
**Source of citations:** SCOPUS
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - DEVELOPMENTAL BIOLOGY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 30  
**Citations:** 3
- 42** LEONOR SANTOS RUIZ; JESÚS ALBERTO SANTAMARÍA GARCÍA; JOSÉ BECERRA RATIA. CELL PROLIFERATION IN FIN FISH REGENERATION. The International journal of developmental biology. S1, pp. 183 - 184. BILBAO, Basque Country(Spain): UPV-EHU PRESS, 1996. ISSN 0214-6282  
**Type of production:** Scientific paper  
**Position of signature:** 1  
**Total no. authors:** 3  
**Impact source:** ISI  
**Impact index in year of publication:** 1,702  
**Position of publication:** 16  
**Source of citations:** SCOPUS
- Format:** Journal  
**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** Yes  
**Category:** Science Edition - DEVELOPMENTAL BIOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 30  
**Citations:** 4
- 43** JESÚS ALBERTO SANTAMARÍA GARCÍA; MANUEL MARI BEFFA; LEONOR SANTOS RUIZ; JOSÉ BECERRA RATIA. INCORPORATION OF BROMODEOXYURIDINE IN REGENERATING FIN TISSUE OF THE GOLDFISH CARASSIUS AURATUS. Journal of experimental zoology. 275 - 4, pp. 300 - 307. New York(United States of America): WILEY-LISS, 1996. ISSN 0022-104X  
**DOI:** 10.1002/(SICI)1097-010X(19960701)275:4<300::AID-JEZ8>3.0.CO;2-T  
**Type of production:** Scientific paper  
**Position of signature:** 3
- Format:** Journal



**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 1,197

**Position of publication:** 32

**Source of citations:** SCOPUS

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Corresponding author:** No

**Category:** Science Edition - ZOOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 119

**Citations:** 38

- 44** Leonor Santos Ruiz; María Santos Ruiz. Psiconeuroinmunología, o la Relación entre Salud y Felicidad. Encuentros en la Biología. 63, 2000. ISSN 1134-8496

**Type of production:** Popular science article

**Format:** Journal

- 45** José Becerra Ratia; José Antonio Andrades Gómez; Leonor Santos Ruiz; Manuel Cifuentes Rueda; Pilar María Arrabal García; Rick Visser; Silvia Claros; María Aránzazu Díaz Cuenca; Plácido Zamora Navas; Enrique Guerado. Ingeniería tisular y medicina regenerativa esquelética. Perspectivas en la Investigación con Células Troncales. Aspectos científicos, éticos, sociales y legales. pp. 28 - 42. Granada, Andalusia(Spain): Editorial Comares S.L., 2010. ISBN 978-8-4983-6680-8

**Legal deposit:** GR-04240-2010

**Type of production:** Book chapter

**Format:** Book

**Position of signature:** 3

**Degree of contribution:** Author or co-author of chapter in book

- 46** Rick Visser; Pilar María Arrabal García; Leonor Santos Ruiz; Raúl Fernández Barranco; José Becerra Ratia; Manuel Cifuentes Rueda. Characterisation of a collagen-targeted RGD biomimetic peptide for bone regeneration. Human Gene Therapy. 24 - 12, pp. A125 - A126. NEW ROCHELLE(United States of America): MARY ANN LIEBERT, INC, 2013. ISSN 1043-0342

**Type of production:** Published Meeting Abstract (Peer-reviewed)

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 6

**Corresponding author:** No

**Impact source:** ISI

**Category:** Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

**Impact index in year of publication:** 5,689

**Journal in the top 25%:** Yes

**Position of publication:** 37

**No. of journals in the cat.:** 165

- 47** Rick Visser; Pilar María Arrabal García; Leonor Santos Ruiz; José Becerra Ratia; Manuel Cifuentes Rueda. A collagen-targeted RGD biomimetic peptide to enhance bone formation. Histology and Histopathology. 27 - S1, pp. 109 - 109. Murcia, Region of Murcia(Spain): Universidad de Murcia, 2012. ISSN 0213-3911

**Type of production:** Published Meeting Abstract (Peer-Reviewed)

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 5

**Corresponding author:** No

**Impact source:** ISI

**Category:** Science Edition - PATHOLOGY

**Impact index in year of publication:** 3,576

**Journal in the top 25%:** No

**Position of publication:** 30

**No. of journals in the cat.:** 77

- 48** Leonor Santos Ruiz; Daniel Amat Trujillo; Raúl Rico Roldán; Enrique Guerado Parra; Donato Monopoli Forleo; Felipe Orgaz Orgaz; José Becerra Ratia. Adult stem cells and biomaterials for bone tissue engineering. Histology and Histopathology. 27 - S1, pp. 110 - 110. Murcia, Region of Murcia(Spain): Universidad de Murcia, 2012. ISSN 0213-3911

**Format:** Journal



**Type of production:** Published Meeting Abstract  
(Peer-Reviewed)

**Position of signature:** 1

**Total no. authors:** 7

**Impact source:** ISI

**Impact index in year of publication:** 3,576

**Position of publication:** 30

**Corresponding author:** Yes

**Category:** Science Edition - PATHOLOGY

**Journal in the top 25%:** No

**No. of journals in the cat.:** 77

- 49** Rick Visser; Pilar María Arrabal García; Leonor Santos Ruiz; Eva Jiménez Enjuto; José Becerra Ratia; Manuel Cifuentes Rueda. A collagen-targeted RGD biomimetic peptide to enhance bone formation. *Journal of Tissue Engineering and Regenerative Medicine*. 6 - S1, pp. 23 - 23. HOBOKEN(United States of America): WILEY-BLACKWELL, 2012. ISSN 1932-6254

**Type of production:** Published Meeting Abstract  
(Peer-reviewed)

**Position of signature:** 3

**Total no. authors:** 6

**Impact source:** ISI

**Impact index in year of publication:** 1,47

**Position of publication:** 14

**Format:** Journal

**Corresponding author:** No

**Category:** Science Edition - ENGINEERING,  
BIOMEDICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 79

- 50** LEONOR SANTOS RUIZ; Daniel Amat Trujillo; MARÍA ARÁNZA ZU DÍAZ CUENCA; JOSÉ BECERRA RATIA. Potential use of mesoporous silica based materials for bone repair. *Tissue engineering. Part A*. 16 - 8, pp. A23 - A23. NEW ROCHELLE(United States of America): MARY ANN LIEBERT INC, 2010. ISSN 1937-3341  
**DOI:** <https://doi.org/10.1089/ten.tea.2010.1500>

**Type of production:** Published Meeting Abstract  
(Peer-Reviewed)

**Position of signature:** 1

**Total no. authors:** 4

**Impact source:** ISI

**Impact index in year of publication:** 4,636

**Position of publication:** 10

**Format:** Journal

**Corresponding author:** Yes

**Category:** Biotechnology and Applied Microbiology

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 160

- 51** MARÍA ARÁNZA ZU DÍAZ CUENCA; LEONOR SANTOS RUIZ; JOSÉ BECERRA RATIA. SILICA BASED NANOMATERIALS: CHARACTERISATION AND IN VITRO STUDIES USING OSTEOPROGENITOR CELLS. *Tissue engineering. Part A*. 14 - 5, pp. 908 - 909. NEW ROCHELLE(United States of America): MARY ANN LIEBERT INC, 2008. ISSN 1937-3341

**Type of production:** Published Meeting Abstract  
(Peer-Reviewed)

**Position of signature:** 2

**Total no. authors:** 3

**Impact source:** ISI

**Impact index in year of publication:** 4,699

**Position of publication:** 13

**Format:** Journal

**Corresponding author:** No

**Category:** Biotechnology and Applied Microbiology

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 144

- 52** LEONOR SANTOS RUIZ; PILAR MARÍA ARRABAL GARCÍA; RICK VISSER; MANUEL CIFUENTES RUEDA; JOSÉ ANTONIO ANDRADES GÓMEZ; SILVIA CLAROS GIL; MARIA DOLORES Cuenca; MARÍA ARÁNZA ZU DÍAZ CUENCA; JOSÉ BECERRA RATIA. COMBINING ENGINEERED GROWTH FACTORS, ADULT STEM CELLS AND BIOABSORBABLE MATERIALS FOR SKELETAL REPAIR AND REGENERATION. *Tissue*



engineering. Part A. 14 - 5, pp. 826 - 826. NEW ROCHELLE(United States of America): MARY ANN LIEBERT INC, 2008. ISSN 1937-3341

**Type of production:** Published meeting abstract  
(peer-reviewed)

**Format:** Journal

**Position of signature:** 1

**Total no. authors:** 9

**Corresponding author:** Yes

**Impact source:** ISI

**Category:** Biotechnology and Applied Microbiology

**Impact index in year of publication:** 4,699

**Journal in the top 25%:** Yes

**Position of publication:** 13

**No. of journals in the cat.:** 144

## Other dissemination activities

**1 Title of the work:** Células madre, ¿dónde estamos? Expectativas terapéuticas en medicina humana y veterinaria

**Name of the event:** Researcher's Night 2019

**Type of event:** Fairs and exhibitions

**Geographical area:** European Union

**Reasons for participation:** Upon invitation

**Corresponding author:** Yes

**City of event:** Málaga, Andalusia, Spain

**Date of event:** 27/09/2019

**Organising entity:** Comisión Europea  
Leonor Santos Ruiz.

**Type of entity:** Instituciones Europeas

**2 Title of the work:** Terapia celular para reparar huesos

**Name of the event:** UNISTEM Day 2019

**Type of event:** Evento de divulgación científica

**Corresponding author:** Yes

**City of event:** Málaga, Andalusia, Spain

**Date of event:** 15/03/2019

**Organising entity:** EUROSTEMCELL y Università degli Studi di Milano  
**City organizing entity:** Milán, Lombardia, Italy  
Leonor Santos Ruiz.

**3 Title of the work:** Madres, células y viceversa

**Name of the event:** Researcher's Night 2018

**Type of event:** Fairs and exhibitions

**Geographical area:** European Union

**Reasons for participation:** Upon invitation

**Corresponding author:** Yes

**City of event:** Málaga, Andalusia, Spain

**Date of event:** 28/09/2018

**Organising entity:** Comisión Europea  
Leonor Santos Ruiz.

**Type of entity:** Instituciones Europeas

**4 Title of the work:** Terapia celular para reparar huesos

**Name of the event:** UNISTEM Day 2018

**Type of event:** Evento de divulgación científica

**Corresponding author:** Yes

**City of event:** Málaga, Andalusia, Spain

**Date of event:** 16/03/2018

**Organising entity:** EUROSTEMCELL y Università degli Studi di Milano



**City organizing entity:** Milán, Lombardia, Italy  
Leonor Santos Ruiz.

- 5** **Title of the work:** Titanio, cerámica, vidrio... y células. El taller de reparación de huesos  
**Name of the event:** Café con Ciencia  
**Type of event:** Conferences given **Geographical area:** Regional  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 17/11/2017  
**Organising entity:** Fundación Descubre **Type of entity:** Foundation  
**City organizing entity:** Andalusia, Spain  
Leonor Santos Ruiz.
- 6** **Title of the work:** Madres, células y viceversa  
**Name of the event:** Researcher's Night 2017  
**Type of event:** Fairs and exhibitions **Geographical area:** European Union  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 29/09/2017  
**Organising entity:** Comisión Europea **Type of entity:** Instituciones Europeas  
Leonor Santos Ruiz.
- 7** **Title of the work:** Titanio, cerámica, vidrio... y células. El taller de reparación de huesos  
**Name of the event:** Café con Ciencia  
**Type of event:** Conferences given **Geographical area:** Regional  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 22/07/2017  
**Organising entity:** Fundación Descubre **Type of entity:** Foundation  
**City organizing entity:** Andalusia, Spain  
Leonor Santos Ruiz.
- 8** **Title of the work:** Huesos como nuevos  
**Name of the event:** UNISTEM Day 2017  
**Type of event:** Evento de divulgación científica  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 11/03/2017  
**Organising entity:** EUROSTEMCELL y Università degli Studi di Milano  
**City organizing entity:** Milán, Lombardia, Italy  
Leonor Santos Ruiz.
- 9** **Title of the work:** Ensayos clínicos: probando nuevos medicamentos en humanos  
**Name of the event:** Tertulias UCiencia 2017  
**Type of event:** Conferences given **Geographical area:** Provincial  
**Reasons for participation:** Upon invitation  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 09/02/2017





**Organising entity:** Servicio de Publicaciones y Divulgación Científica de la Universidad de Málaga  
**City organizing entity:** Málaga, Andalusia, Spain  
Leonor Santos Ruiz; Irene Sánchez Vera.

**Type of entity:** University

- 10** **Title of the work:** Madres, células y viceversa  
**Name of the event:** Researcher's Night 2016  
**Type of event:** Fairs and exhibitions  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 29/09/2016  
**Organising entity:** Comisión Europea  
Leonor Santos Ruiz.

**Geographical area:** European Union

**Type of entity:** Instituciones Europeas

- 11** **Title of the work:** Huesos como nuevos  
**Name of the event:** UNISTEM Day 2016  
**Type of event:** Evento de divulgación científica  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 11/03/2016  
**Organising entity:** EUROSTEMCELL y Università degli Studi di Milano  
**City organizing entity:** Milán, Lombardia, Italy  
Leonor Santos Ruiz.

- 12** **Title of the work:** Diseñan un biovidrio que imita al hueso y sirve para reparar fracturas (<https://youtu.be/nkeUttOzRU>)  
**Name of the event:** Historias de Luz  
**Type of event:** Serie de videos divulgativos sobre investigación científica  
**City of event:** Andalusia, Spain  
**Date of event:** 31/01/2016  
**Organising entity:** www.historiasdeluz.es

- 13** **Title of the work:** Impulsando las biotecnologías de vanguardia como motor de la innovación para el futuro  
**Name of the event:** Ventana a la Ciencias. Proyectos de I+D+i en Andalucía  
**Type of event:** Fairs and exhibitions  
**Reasons for participation:** Upon invitation  
**City of event:** Granada, Andalusia, Spain  
**Date of event:** 2013  
**Organising entity:** Consejería de Economía, Innovación, Ciencia y empleo de la Junta de Andalucía  
Leonor Santos Ruiz.

**Geographical area:** Regional

- 14** **Title of the work:** Carpinteros del cuerpo: cómo reparar los huesos con huesos hechos en el laboratorio  
**Name of the event:** Café con Ciencia  
**Type of event:** Conferences given  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 05/11/2012  
**Organising entity:** Fundación Descubre  
**City organizing entity:** Andalusia, Spain

**Geographical area:** Regional

**Type of entity:** Foundation



Leonor Santos Ruiz. "Carpinteros del cuerpo: cómo reparar los huesos con huesos hechos en el laboratorio".

- 15** **Title of the work:** Reparación de huesos a partir de tejidos creados en el laboratorio  
**Name of the event:** Researcher's Night 2012  
**Type of event:** Fairs and exhibitions **Geographical area:** European Union  
**Reasons for participation:** Upon invitation  
**Corresponding author:** Yes  
**City of event:** Málaga, Andalusia, Spain  
**Date of event:** 28/09/2012  
**Organising entity:** Comisión Europea **Type of entity:** Instituciones Europeas  
Leonor Santos Ruiz.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** Evaluadora de proyectos de investigación para la Consejería de Salud de la Junta de Andalucía. Convocatoria de 2020  
**Geographical area:** Regional  
**Affiliation entity:** Consejería de Salud de la Junta de Andalucía **Type of entity:** .  
**City affiliation entity:** Andalusia, Spain  
**Start-End date:** 2020 - 2020
- 2** **Committee title:** Evaluadora de proyectos de investigación para la Consejería de Salud de la Junta de Andalucía. Convocatoria de 2019  
**Geographical area:** Regional  
**Affiliation entity:** Consejería de Salud de la Junta de Andalucía **Type of entity:** Gobierno Autónomico  
**City affiliation entity:** Andalusia, Spain  
**Start-End date:** 2019 - 2019
- 3** **Committee title:** Evaluación de proyectos de Investigación para el Ministerio Italiano de la Salud en la convocatoria de 2018  
**Geographical area:** National  
**Affiliation entity:** Ministero Italiano della Salute **Type of entity:** State agency  
**City affiliation entity:** Italy  
**Start-End date:** 03/09/2018 - 2019
- 4** **Committee title:** Evaluadora de proyectos de investigación para la Consejería de Salud de la Junta de Andalucía. Convocatoria de 2017  
**Geographical area:** Regional  
**Affiliation entity:** Consejería de Salud de la Junta de Andalucía **Type of entity:** Gobierno Autónomico  
**City affiliation entity:** Andalusia, Spain  
**Start-End date:** 2017 - 2017



- 5** **Committee title:** Evaluación de proyectos de Investigación para el Ministerio Italiano de la Salud en la convocatoria de 2014  
**Geographical area:** National  
**Affiliation entity:** Ministero Italiano della Salute      **Type of entity:** State agency  
**City affiliation entity:** Italy  
**Start-End date:** 23/10/2014 - 04/2015
- 6** **Committee title:** Evaluación de proyectos de Investigación para el Ministerio Italiano de la Salud en la convocatoria de 2013  
**Geographical area:** National  
**Affiliation entity:** Ministero Italiano della Salute      **Type of entity:** State agency  
**City affiliation entity:** Italy  
**Start-End date:** 17/06/2013 - 11/11/2013
- 7** **Committee title:** Pertenencia al Banco de Evaluadores de la Agencia Estatal de Investigación  
**Geographical area:** National  
**Affiliation entity:** Agencia Estatal de Investigación      **Type of entity:** State agency  
**City affiliation entity:** Spain  
**Start date:** 11/2019

## Organization of R&D activities

- 1** **Title of the activity:** UNISTEM DAY 2019  
**Type of activity:** Divulgación Científica      **Geographical area:** European Union  
**City of event:** Málaga, Andalusia, Spain  
**Convening entity:** EUROSTEMCELL y Università degli Studi de Milano  
**Type of participation:** Organiser  
**N° assistants:** 200  
**Start-End date:** 15/03/2019 - 15/03/2019      **Duration:** 1 day
- 2** **Title of the activity:** UNISTEM DAY 2018  
**Type of activity:** Divulgación Científica      **Geographical area:** European Union  
**City of event:** Málaga, Andalusia, Spain  
**Convening entity:** EUROSTEMCELL y Università degli Studi de Milano  
**Type of participation:** Organiser  
**N° assistants:** 200  
**Start-End date:** 16/03/2018 - 16/03/2018      **Duration:** 1 day
- 3** **Title of the activity:** UNISTEM Day 2017  
**Type of activity:** Divulgación Científica      **Geographical area:** European Union  
**City of event:** Málaga, Andalusia, Spain  
**Convening entity:** EUROSTEMCELL y Università degli Studi di Milano  
**City convening entity:** Lombardia, Italy  
**Type of participation:** Organiser  
**N° assistants:** 200  
**Start-End date:** 17/03/2017 - 17/03/2017      **Duration:** 1 day
- 4** **Title of the activity:** UNISTEM DAY 2016  
**Type of activity:** Divulgación Científica      **Geographical area:** European Union  
**City of event:** Málaga, Andalusia, Spain



**Convening entity:** EUROSTEMCELL y Università degli Studi di Milano  
**City convening entity:** Milán, Lombardia, Italy  
**Type of participation:** Organiser  
**N° assistants:** 200  
**Start-End date:** 11/03/2016 - 11/03/2016      **Duration:** 1 day

- 5** **Title of the activity:** XIV Congreso de la Sociedad Española de Biología Celular  
**Type of activity:** Congreso Nacional      **Geographical area:** National  
**City of event:** Málaga, Andalusia, Spain  
**Convening entity:** SOCIEDAD ESPAÑOLA DE BIOLOGIA CELULAR  
**City convening entity:** Spain  
**Type of participation:** Secretary  
**Start-End date:** 12/12/2011 - 15/12/2011      **Duration:** 4 days

## Other achievements

### Stays in public or private R&D centres

- 1** **Entity:** Istituti Ortopedici Rizzoli      **Type of entity:** Healthcare Institutions  
**City of entity:** Bologna, Emilia-Romagna, Italy  
**Start-End date:** 17/07/2015 - 18/10/2015      **Duration:** 4 months  
**Funding entity:** Fondazione Cariplo      **Type of entity:** Business  
**City funding entity:** Lombardia, Italy  
**Name of programme:** PROGETTO STEMDELIVERY - AZIONE 3 (REGIONE LOMBARDIA / FONDAZIONE CARIPLLO)  
**Goals of the stay:** Guest  
**Identify key words:** Biomaterials; Biomedicine; Cell culture
- 2** **Entity:** Istituti Ortopedici Rizzoli      **Type of entity:** Healthcare Institutions  
**City of entity:** Bologna, Emilia-Romagna, Italy  
**Start-End date:** 17/07/2014 - 18/10/2014  
**Funding entity:** Fondazione Cariplo      **Type of entity:** Business  
**City funding entity:** Lombardia, Italy  
**Name of programme:** PROGETTO STEMDELIVERY - AZIONE 3 (REGIONE LOMBARDIA / FONDAZIONE CARIPLLO)  
**Goals of the stay:** Guest  
**Identify key words:** Biomaterials; Biomedicine; Cell culture
- 3** **Entity:** University College London (UCL)  
**City of entity:** LONDRES, United Kingdom  
**Start-End date:** 01/03/2005 - 01/04/2005      **Duration:** 30 days  
**Funding entity:** University College London (UCL)      **Type of entity:** University  
**City funding entity:** Londres, United Kingdom  
**Goals of the stay:** Contracted  
**Provable tasks:** Estudiar las bases celulares y moleculares de la craneosinostosis para aplicar principios de medicina regenerativa a su tratamiento



- 4** **Entity:** University College London (UCL)  
**City of entity:** LONDRES, United Kingdom  
**Start-End date:** 01/01/2004 - 01/03/2005  
**Funding entity:** Ministerio de Educación, Cultura y Deporte  
**City funding entity:** Spain  
**Name of programme:** Programa de Becas Postdoctorales en España y en el Extranjero  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Estudiar las bases celulares y moleculares de la craneosinostosis para aplicar principios de medicina regenerativa a su tratamiento  
**Relevant results:** Varias comunicaciones a congresos y dos artículos en revistas indexadas en JCR
- 5** **Entity:** Istituto Nazionale per la Ricerca sul Cancro  
**City of entity:** GENOVA, Liguria, Italy  
**Start-End date:** 01/03/2003 - 01/01/2004  
**Funding entity:** Ministerio de Educación, Cultura y Deporte **Type of entity:** State agency  
**City funding entity:** Spain  
**Name of programme:** Programa de Becas Postdoctorales en España y en el Extranjero  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Caracterización de células madre obtenidas de distintos tejidos adultos evaluación de nuevos biomateriales de interés biomédico
- 6** **Entity:** University College London (UCL)  
**City of entity:** LONDRES, United Kingdom  
**Start-End date:** 01/05/2002 - 01/03/2003  
**Funding entity:** University College London  
**City funding entity:** Londres, United Kingdom  
**Goals of the stay:** Contracted  
**Provable tasks:** Estudiar las bases celulares y moleculares de la craneosinostosis para aplicar principios de medicina regenerativa a su tratamiento
- 7** **Entity:** University College London (UCL)  
**City of entity:** LONDRES, United Kingdom  
**Start-End date:** 15/08/1999 - 19/11/1999  
**Funding entity:** Consejería de Educación y Ciencia **Type of entity:** Gobierno autonómico  
**City funding entity:** Andalucía, Spain  
**Name of programme:** Ayudas a la Investigación: Estancias en Centros de Investigación de Becarios FPI  
**Goals of the stay:** Doctorate  
**Provable tasks:** Investigación en un modelo animal de regeneración de médula espinal  
**Relevant results:** Comunicaciones a congresos y un artículo conjuntos (Zahnt et al. Neuroscience. 2002;114:837-48)
- 8** **Entity:** University College London (UCL)  
**City of entity:** LONDRES, United Kingdom  
**Start-End date:** 01/10/1998 - 01/01/1999 **Duration:** 3 months  
**Funding entity:** Consejería de Educación y Ciencia **Type of entity:** Gobierno regional  
**City funding entity:** Andalucía, Spain  
**Name of programme:** Ayudas a la Investigación: Estancias en Centros de Investigación de Becarios FPI  
**Goals of the stay:** Doctorate  
**Provable tasks:** Investigación en modelo animal de regeneración de médula espinal



**Relevant results:** Comunicaciones a congresos y un artículo conjuntos (Zahnt et al. Neuroscience. 2002;114:837-48)