



Beatriz García Fontana

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Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

Degree in Biochemistry, with 15 years of scientific experience in several national centers of excellence (Estación Experimental del Zaidín-CSIC, Instituto de Parasitología y Biomedicina López Neyra-CSIC, Hospital Universitario San Cecilio de Granada, Instituto de Salud Carlos III). I have a PhD in Clinical Medicine and Public Health from the UGR (2016), with cum laude mention and extraordinary doctoral award. Since 2017, I have developed my postdoctoral stage at CIBER of Frailty and Healthing Aging (CIBERFES) at Instituto de Salud Carlos III. I am currently a senior postdoctoral researcher Miguel Servet in the Endocrinology and Nutrition UGC at the University Hospital Clínico San Cecilio and Coordinator of the area "Precision Medicine of the Institute of Biosanitary Research of Granada (ibs.GRANADA) which encompasses 24 research groups.

I have participated in 19 competitive projects (PI in 7 of them); in 2 projects of international private companies; in 1 non-competitive research project of the Junta de Andalucía (PI) and in a project funded by a Patients Association (PI). I am co-founder of the biomedical company "Genactive Clinic & Research".

During the last 5 years I have obtained about 500,000 euros to finance my research line and for the recruitment of personnel and I have developed an intense international and translational activity through stays (Italian Institute of Genomic Medicine, Torino, Italy) and collaboration with different international groups and private companies for the development of diagnostic kits and generation of patents.

I am a member of the medical advisory committee of the Spanish Association of Hereditary Rickets and Osteomalacia (AERYOH). I have participated in more than 100 national and international congresses participating as a scientific committee and evaluator and as a moderator in national congresses and I am a member of the board of SEIOMM (2025-2028).

I am the author of 45 scientific articles (38 in the first quartile [7 in the first decile]), with preferred authorship in 33 of them.) My H index is 18, and my scientific production accumulates a total of 1430 citations.

In addition, I develop teaching activity as a professor in the Department of Cell Biology of the UGR and in the PhD programs of Clinical Medicine and Public Health, Biomedicine and Information and Communication Technologies of the UGR and I have been PSI in the Dept. of Preventive Medicine and Public Health. I am director of 9 doctoral theses (5 in progress), tutor of 8 TFM projects at the UGR and supervisor of basic and clinical pre and postdoctoral researchers. I have been invited speaker in 7 biomedical conferences and I have participated as a member of doctoral thesis tribunal, and as a reviewer and editor of several international scientific journals. I am currently "Study Coordinator" in a clinical trial for Alexion Pharmaceuticals, Inc (EU CTR: 20203-505673-32-00).

My line of research in recent years has focused on the identification of biomarkers related to cardiovascular and bone complications associated with different chronic metabolic, bone and rare diseases and aging. This line includes an in-depth study from different methodological and conceptual approaches in the field of genomics, proteomics, metabolomics, interactomics and bioinformatics that allow progress in the knowledge of biomolecules related to the diseases



studied as well as the development of tools for early diagnosis, preventive and therapeutic strategies of the complications associated with the different chronic pathologies in subclinical stages that lead to a significant improvement in survival and quality of life of the population at high risk. My most recent research contemplates a high multidisciplinary connection through the collaboration of different clinical specialists (pediatrics, clinical analysis, endocrinology, neurology, nuclear medicine, radiology) with basic researchers and patient associations to facilitate the transfer of results to clinical practice.

I have combined my research and teaching activity with my maternity (2011 and 2016).



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Artículos publicados: 45 indexados en JCR (38 cuartil 1[7 en decil 1) y autoría preferente en 33 de ellos). Número de citas: 1410; H index: 18

Participación en 19 proyectos de investigación competitivos. Investigador principal en 7 proyectos de investigación competitivos, en 1 proyecto de investigación no competitivo y en 1 proyectos de investigación financiado por Asociaciones de pacientes.

Coordinadora del Área de Medicina de precisión del ibs.Granada

Contribución en más de 100 congresos nacionales (86) e internacionales (30) con aportaciones tanto en formato póster (90) como en forma de comunicación oral (26)

Dirección de tesis doctorales: 9 (5 en curso); Dirección de TFM: 8

Supervisor de contratos de recursos humanos en régimen de concurrencia competitiva (1 Sara Borrell, 1 Doctorado Junta Andalucía, 1 PFIS, 3 Río Hortega, 1 FPU)

Revisor en varias revistas científicas indexadas y Editora Invitada en la Revista Internacional de Investigación Ambiental y Salud Pública (Q1)

Ponente invitada en congresos y jornadas biomédicas: 7

Participación como miembro de un tribunal internacional de tesis doctorales:1

Participación como comité científico (1), como comité de evaluación (4) y como moderador (2) en congresos nacionales

Acuerdos de colaboración con empresas y asociaciones de pacientes (3)

Miembro de la Junta directiva de la Sociedad Española de Investigación Ósea y Metabolismo Mineral (SEIOMM) (2025-2028)

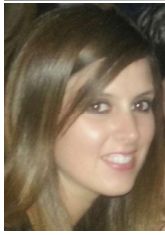
Study Coordinator del ensayo Clínico "ALXN1850-HPP-301" (Alexion Pharmaceuticals)

Co-fundadora de la empresa biomédica "Genactive Clinic & Research"

[https://scholar.google.es/citations?](https://scholar.google.es/citations?hl=es&user=tNk2YAIAAAAJ&view_op=list_works&gmla=AJsN-F5JQbWdPUeh9C1FXAluMcl9HugGedWgVfQwRi3SbR57tTaPkIOzuNkPbLHuImstt4qx9WobtE)

[hl=es&user=tNk2YAIAAAAJ&view_op=list_works&gmla=AJsN-](https://scholar.google.es/citations?hl=es&user=tNk2YAIAAAAJ&view_op=list_works&gmla=AJsN-F5JQbWdPUeh9C1FXAluMcl9HugGedWgVfQwRi3SbR57tTaPkIOzuNkPbLHuImstt4qx9WobtE)

[F5JQbWdPUeh9C1FXAluMcl9HugGedWgVfQwRi3SbR57tTaPkIOzuNkPbLHuImstt4qx9WobtE](https://scholar.google.es/citations?hl=es&user=tNk2YAIAAAAJ&view_op=list_works&gmla=AJsN-F5JQbWdPUeh9C1FXAluMcl9HugGedWgVfQwRi3SbR57tTaPkIOzuNkPbLHuImstt4qx9WobtE)

**Beatriz García Fontana**

Surname(s): **García Fontana**
 Name: **Beatriz**
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 ORCID: **0000-0002-4134-5561**

Current professional situation

Employing entity: FUNDACIÓN PARA LA INVESTIGACIÓN BIOSANITARIA DE ANDALUCIA ORIENTAL - ALEJANDRO OTERO

Department: Endocrinología y Nutrición, Hospital Universitario San Cecilio

Professional category: Investigadora Senior **Educational Management (Yes/No):** Yes
 Miguel Servet

City employing entity: Granada, Spain

Start date: 07/07/2023

Type of contract: Permanent employment contract **Dedication regime:** Full time

Primary (UNESCO code): 240000 - Life Science; 320000 - Medical Science

Secondary (UNESCO code): 240700 - Cell biology; 241500 - Molecular biology; 320104 - Clinical pathology; 320702 - Atherosclerosis; 320704 - Cardio-vascular pathology; 320714 - Osteopathology; 321200 - Public health

Identify key words: Ageing (biology); Clinical medicine; Health; Therapeutics; Biomedicine; Molecular, cellular and genetic biology

Field of management activity: University

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Granada	Profesora Sustituta Interina	02/02/2023

	Employing entity	Professional category	Start date
2	Universidad de Granada	Profesora Sustituta Interina	17/11/2022
3	FUNDACIÓN PARA LA INVESTIGACIÓN BIOSANITARIA DE ANDALUCIA ORIENTAL - ALEJANDRO OTERO	Investigadora posdoctoral	20/07/2022
4	European Molecular Biology Organization (EMBO)	Investigadora visitante	08/06/2022
5	Consortio Centro de Investigación Biomédica en Red (CIBER), ISCIII	Investigadora posdoctoral	03/07/2017
6	Seguridad Social	Interrupción por maternidad	04/09/2016
7	Seguridad Social	Interrupción por maternidad	09/01/2011
8	Fundación para la investigación biomédica en Andalucía Oriental-Alejandro Otero (FIBAO)	Técnico de Apoyo a la Investigación	16/04/2010
9	Consejo Superior de Investigaciones Científicas	Titulado Superior de Investigaciones Técnicas y Profesio	16/04/2008
10	Sedicult S.L.	Monitora	01/11/2007
11	Cavendish S.L.	Técnico Universitario de laboratorio	04/06/2007

- 1** **Employing entity:** Universidad de Granada **Type of entity:** University
Department: Biología Celular, Facultad de Ciencias UGR
Professional category: Profesora Sustituta Interina
Start-End date: 02/02/2023 - 06/07/2023
- 2** **Employing entity:** Universidad de Granada **Type of entity:** University
Department: Medicina Preventiva y Salud Pública, Facultad de Medicina
Professional category: Profesora Sustituta Interina
Start-End date: 17/11/2022 - 02/01/2023
- 3** **Employing entity:** FUNDACIÓN PARA LA INVESTIGACIÓN BIOSANITARIA DE ANDALUCIA ORIENTAL - ALEJANDRO OTERO
Professional category: Investigadora posdoctoral
Start-End date: 20/07/2022 - 16/11/2022
- 4** **Employing entity:** European Molecular Biology Organization (EMBO)
Professional category: Investigadora visitante
Start-End date: 08/06/2022 - 10/09/2022 **Duration:** 3 months
- 5** **Employing entity:** Consorcio Centro de Investigación Biomédica en Red (CIBER), ISCIII **Type of entity:** CIBER
Professional category: Investigadora posdoctoral
Start-End date: 03/07/2017 - 02/07/2022
- 6** **Employing entity:** Seguridad Social
Professional category: Interrupción por maternidad
Start-End date: 04/09/2016 - 26/12/2016
- 7** **Employing entity:** Seguridad Social
Professional category: Interrupción por maternidad
Start-End date: 09/01/2011 - 02/04/2011

- 8** **Employing entity:** Fundación para la investigación biomedica en Andalucía Oriental-Alejandro Otero (FIBAO) **Type of entity:** Foundation
Department: UGC Endocrinología y Nutrición
City employing entity: Granada, Andalusia, Spain
Professional category: Técnico de Apoyo a la Investigación **Educational Management (Yes/No):** No
Start-End date: 16/04/2010 - 16/04/2010
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Desarrollo de técnicas proteómicas, inmunoquímicas, moleculares y cultivos celulares. Manejo de programas bioestadísticos (SPSS, GraphPad Prism) y de análisis de imagen (Proteómica: Decyder 2D 7.0., Quantity One 4.6.2., PDQuest, Image J.)
- 9** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: Departamento de Bioquímica y Biología Molecular, Estación Experimental del Zaidín
City employing entity: Granada, Andalusia, Spain
Professional category: Titulado Superior de Investigaciones Técnicas y Profesio **Educational Management (Yes/No):** No
Start-End date: 16/04/2008 - 15/03/2010 **Duration:** 2 years
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Desarrollo de técnicas proteómicas (clonaje y sobre-expresión, purificación, electroforesis mono y bidimensional, estudio de modificacio post-traduccionales), bioquímicas (determinación de actividades enzimáticas, compuestos antioxidantes), inmunoquímicas (Western blot, ELISA) y moleculares (extracción y purificación de ácidos nucleicos, PCR, mutagénesis). Manejo de programas bioinformáticos para análisis de secuencias e imágenes. Manejo de programas estadísticos.
- 10** **Employing entity:** Sedicult S.L. **Type of entity:** Business
Department: Parque de las Ciencias de Granada
City employing entity: Granada, Andalusia, Spain
Professional category: Monitora **Educational Management (Yes/No):** Yes
Start-End date: 01/11/2007 - 28/02/2008
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Divulgación Científica. Realización de visitas guiadas y talleres a grupos escolares y particulares.
- 11** **Employing entity:** Cavendish S.L. **Type of entity:** Business
City employing entity: Granada, Andalusia, Spain
Professional category: Técnico Universitario de laboratorio **Educational Management (Yes/No):** No
Start-End date: 04/06/2007 - 18/09/2007 **Duration:** 3 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: Realización de técnicas para detección de pesticidas en aguas y vegetales mediante cromatografía de gases y cromatografía de líquidos acoplada a espectrometría de masas-masas; análisis de metales en suelos; detección de detergentes y clorofilas en diversos tipos de aguas.



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciada en Bioquímica

City degree awarding entity: Granada, Andalusia, Spain

Degree awarding entity: FACULTAD DE CIENCIAS (UNIVERSIDAD DE GRANADA)

Date of qualification: 2006

Doctorates

Doctorate programme: Doctorado en Medicina Clínica y Salud Pública

Degree awarding entity: Facultad de Medicina

Type of entity: University Centres and Structures and Associated Bodies

City degree awarding entity: Granada, Andalusia, Spain

Date of degree: 03/06/2026

Thesis title: BIOMARCADORES DE ENFERMEDAD CARDIOVASCULAR EN LA DIABETES MELLITUS TIPO 2. CONEXIÓN CON EL METABOLISMO ÓSEO Y MUSCULAR

Thesis director: Manuel Muñoz Torres

Obtained qualification: Sobresaliente Cum Laude

Recognition of quality: Yes

Special doctorate award: Yes

Other postgraduate university studies

1 Type of education: Postgraduate

Postgraduate qualification: XLVI Curso de Edafología, Fertilidad de Suelos y Biología Vegetal

City degree awarding entity: Granada, Andalusia, Spain

Degree awarding entity: Departamento de Postgrado y Especialización. CSIC

Type of entity: R&D Centre

Date of qualification: 20/11/2009

2 Type of education: Masters

Postgraduate qualification: Certificación de Aptitud Pedagógica (CAP)

City degree awarding entity: Granada, Andalusia, Spain

Degree awarding entity: Universidad de Granada

Type of entity: University

Date of qualification: 10/03/2008



Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

- 1 Training title:** Curso de NORMAS DE BUENA PRÁCTICA CLÍNICA ICH E6 (R2)
Awarding entity: Global Health Training Centre
End date: 24/01/2024
- 2 Training title:** Terapia Génica para Enfermedades Raras
Awarding entity: Colegio de Médicos de Málaga
End date: 23/09/2023
Type of entity: Healthcare Institutions
Duration in hours: 8 hours
- 3 Training title:** PREVENCIÓN DE RIESGOS EN EL PUESTO ESPECÍFICO DE LABORATORIO
Awarding entity: CLINICA QUIRON
End date: 13/09/2023
Duration in hours: 2 hours
- 4 Training title:** Rare Bone Diseases Webinar
Awarding entity: ECTS
End date: 09/02/2022
- 5 Training title:** Indicaciones de índole preventiva y sanitaria frente al SARS-CoV-2
Awarding entity: Quirón prevención
End date: 29/05/2020
Type of entity: Healthcare Institutions
- 6 Training title:** Seguridad en el trabajo en laboratorios
Awarding entity: Quirón prevención
End date: 26/09/2018
Type of entity: Healthcare Institutions
- 7 Training title:** Resolviendo dudas del día a día en la prevención de las fracturas por fragilidad Ósea y del Metabolismo Mineral
Awarding entity: Sociedad Española de Investigación
End date: 09/11/2017
Type of entity: Sociedad científica
- 8 Training title:** Curso “Análisis multivariante” perteneciente al máster de Investigación y Avances en Medicina Preventiva
Awarding entity: Universidad de Granada
End date: 2016
Type of entity: University
Duration in hours: 60 hours
- 9 Training title:** Curso teórico-práctico de Proteómica”
Awarding entity: XXXVII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
End date: 12/09/2014
Duration in hours: 5 hours
- 10 Training title:** Curso de entrenamiento para la utilización del software de análisis de Trabecular Bone Score “TBS Insight”
Awarding entity: Medimaps
End date: 08/08/2014
Duration in hours: 5 hours
- 11 Training title:** Curso “Análisis de proteómica diferencial de geles 2D con el software PdQuest”
Awarding entity: BioRad Laboratories S.A.
End date: 01/2014
Type of entity: Business
Duration in hours: 7 hours



- 12 Training title:** Curso “Investigación básica aplicada a la Biomedicina: Investigación translacional”
Awarding entity: Ibs Granada **Type of entity:** Public Research Body
End date: 2014 **Duration in hours:** 32 hours
- 13 Training title:** Curso “Análisis de datos estadísticos con SPSS”
Awarding entity: Ibs Granada-FIBAO
End date: 18/12/2013 **Duration in hours:** 20 hours
- 14 Training title:** workshop “V3 Western Blot Workshop sobre nuevas técnicas de normalización y transferencia de western blots”
Awarding entity: BioRad Laboratories S.A.
End date: 16/12/2013 **Duration in hours:** 7 hours
- 15 Training title:** Curso: Abordaje del Hiperparatiroidismo primario. 3ª edición
Awarding entity: AMGEN-SAEN
End date: 31/10/2012 **Duration in hours:** 5 hours
- 16 Training title:** Curso formación: The protein expertise tour
Awarding entity: Healthcare Life Sciences-Centro de Investigación Biomédica de la Universidad de Granada
End date: 30/05/2012
- 17 Training title:** Curso "Riesgos y prevención de enfermedades cardiovasculares"
Awarding entity: Universidad de Granada **Type of entity:** University
End date: 2006 **Duration in hours:** 10 hours
- 18 Training title:** Hacia un aprovechamiento Integral de los Residuos Biomásicos
Awarding entity: Universidad Internacional de Andalucía **Type of entity:** University
End date: 2005 **Duration in hours:** 30 hours

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	B1	B2			B1

Teaching experience

General teaching experience

- 1 Name of the course:** Histología
University degree: Grado en Biología
Start date: 08/04/2024 **End date:** 10/06/2024
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias

- 2** **Name of the course:** Biología Celular
University degree: Grado en Biotecnología
Start date: 02/02/2023 **End date:** 06/07/2023
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 3** **Name of the course:** Biología del Desarrollo
University degree: Grado en Biología
Start date: 02/02/2023 **End date:** 06/07/2023
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 4** **Name of the course:** Citología e Histología
University degree: Grado en Óptica, Optometría y Audiología
Start date: 02/02/2023 **End date:** 06/07/2023
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 5** **Name of the course:** Histología
University degree: Grado en Biología
Start date: 02/02/2023 **End date:** 06/07/2023
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 6** **Name of the course:** ALIMENTACIÓN Y SALUD
University degree: Graduado o Graduada en Nutrición Humana y Dietética
Start date: 21/12/2022 **End date:** 21/12/2022
Entity: Universidad de Granada **Type of entity:** University
- 7** **Name of the course:** educación sanitaria
University degree: Graduado o Graduada en Trabajo Social
Start date: 12/12/2022 **End date:** 12/12/2022
Entity: Universidad de Granada **Type of entity:** University
- 8** **Name of the course:** nutrición y actividad física
University degree: Graduado o Graduada en Trabajo Social
Start date: 22/11/2022 **End date:** 22/11/2022
Entity: Universidad de Granada **Type of entity:** University
- 9** **Name of the course:** Abordaje terapéutico de la Osteoporosis en la Oficina de Farmacia
University degree: Farmacia
Start date: 04/2022 **End date:** 06/2022
Entity: Saluris **Type of entity:** Innovation and Technology Centres
- 10** **Name of the course:** Prevención de riesgos y enfermedades”
University degree: Máster oficial “Investigaciones y Avances en Medicina Preventiva y Salud Pública”
End date: 17/11/2021
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina



- 11 Name of the course:** Prevención de riesgos y enfermedades”
University degree: Máster oficial “Investigaciones y Avances en Medicina Preventiva y Salud Pública”
End date: 18/11/2020
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 12 Name of the course:** Prevención de riesgos y enfermedades”
University degree: Máster oficial “Investigaciones y Avances en Medicina Preventiva y Salud Pública”
End date: 04/12/2019
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 13 Name of the course:** Prevención de riesgos y enfermedades”
University degree: Máster oficial “Investigaciones y Avances en Medicina Preventiva y Salud Pública”
End date: 04/12/2018
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 14 Name of the course:** Prevención de riesgos y enfermedades”
University degree: Máster oficial “Investigaciones y Avances en Medicina Preventiva y Salud Pública”
End date: 04/12/2017
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 15 Name of the course:** Proteómica: “Conceptos básicos y aplicaciones en endocrinología y metabolismo óseo.
University degree: Curso de doctorado: ‘Avances en enfermedad metabólica ósea’
Start date: 07/2011 **End date:** 08/07/2011
Entity: Universidad de Granada **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** ESTUDIO DE LAS BASES MOLECULARES IMPLICADAS EN LAS MANIFESTACIONES EXTRAESQUELÉTICAS DE LA HIPOFOSFATASIA
Co-director of thesis: Beatriz Garcóa-Fontana
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada, Spain
Student: Ángela Jiménez Ortas
Date of reading: 2026
- 2 Project title:** Caracterización de microbioma y miRNoma intestinal asociado a alteraciones autoinmunes y gastrointestinales en pacientes con Hipofosfatasa
Type of project: Doctoral thesis
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
Student: Luis Martínez Heredia
Date of reading: 2025



- 3** **Project title:** Structural analysis of molecules and identification of potential biomarkers by bioinformatics tools
Type of project: Doctoral thesis
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
Student: Francisco Andújar Vera
Date of reading: 2025
- 4** **Project title:** CONEXIÓN ENTRE METABOLISMO ÓSEO Y SISTEMA VASCULAR EN DIABETES MELLITUS TIPO 2. IDENTIFICACIÓN DE NUEVAS DIANAS TERAPÉUTICAS
Type of project: Doctoral thesis
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
Student: Sheila González Salvatierra
Date of reading: 09/02/2024
European doctorate: Yes **Date of recognition:** 09/02/2024
- 5** **Project title:** ESCLEROSTINA CIRCULANTE Y SU RELACIÓN CON LA ENFERMEDAD CARDIOVASCULAR
Type of project: Doctoral thesis
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
Student: Cristina Novo Rodríguez
Date of reading: 2024
- 6** **Project title:** EVALUACIÓN DE PARÁMETROS ESTRUCTURALES ÓSEOS OBTENIDOS MEDIANTE ANÁLISIS 3D EN PACIENTES CON DIABETES TIPO 2 Y SU RELACIÓN CON LA ENFERMEDAD CARDIOVASCULAR.
Type of project: Doctoral thesis
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada, Andalusia, Spain
Student: Enrique Moratalla Aranda
Date of reading: 2024
- 7** **Project title:** DETERMINANTES DE LOS VALORES DE TRABECULAR BONE SCORE (TBS) EN PACIENTES CON DIABETES MELLITUS TIPO 2
Co-director of thesis: Beatriz García-Fontana
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada,
Student: María Hayón Ponce
Obtained qualification: Cum laude
Date of reading: 11/04/2023
- 8** **Project title:** Geno-phenotypic and structural characterization of novel, previously undescribed mutations in the ALPL gene
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada,
Student: Ángela Jiménez Ortas
Date of reading: 07/2022



- 9** **Project title:** ESTUDIO POBLACIONAL DE HIPOFOSFATASIA EN LA PROVINCIA DE GRANADA
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Juan Miguel Villa Suárez
Obtained qualification: Cum Laude
Date of reading: 21/12/2021
- 10** **Project title:** Caracterización geno-fenotípica y estructural de mutaciones de significado incierto en el gen codificante de fosfatasa alcalina en pacientes afectados por hipofosfatasa adulta
Type of project: Trabajo Fín de Máster
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada,
Student: Mario Corbacho Soto
Date of reading: 14/07/2021
- 11** **Project title:** Evaluación de la función de esclerostina en células aórticas de músculo liso vascular y células embrionarias de riñón humanas como posible estrategia terapéutica frente a la calcificación vascular
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
City of entity: Granada,
Student: Leyre Villar Ballesteros
Date of reading: 07/07/2021
- 12** **Project title:** INVESTIGACIÓN Y AVANCES EN LA HIPOFOSFATASIA: A PROPÓSITO DE UN CASO
Type of project: End of course project
Entity: Universidad de Granada **Type of entity:** University
Student: Lidia Álvarez Gervilla
Date of reading: 21/06/2021
- 13** **Project title:** OPTIMIZACIÓN DEL PROTOCOLO DE TRANSFECCIÓN PARA LA EXPRESIÓN DE ESCLEROSTINA RECOMBINANTE EN CÉLULAS AÓRTICAS DE MÚSCULO LISO VASCULAR HUMANAS
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
Student: Luis Martínez Heredia
Obtained qualification: 9,5
Date of reading: 22/12/2020
- 14** **Project title:** Relación entre el estilo de vida y la salud ósea y cardiovascular en una cohorte de pacientes con síndrome metabólico
Type of project: Doctoral thesis
Entity: Universidad de Granada **Type of entity:** University
Student: Blanca Riquelme Gallego
Date of reading: 18/12/2020
- 15** **Project title:** ESTUDIO DE LA RELACIÓN ENTRE NIVELES SÉRICOS DE OSTEOCALCINA INFRACARBOXILADA Y EL RIESGO DE COMPLICACIONES ASOCIADAS AL SÍNDROME METABÓLICO
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
Student: Enrique García Recio
Obtained qualification: 9,5
Date of reading: 16/09/2020



- 16** **Project title:** Clonaje de esclerostina y estudio de su función a nivel vascular
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
Student: Alba Bueses Suárez
Date of reading: 02/07/2018
- 17** **Project title:** Análisis cuantitativo de la expresión transcripcional de esclerostina en tejido vascular con y sin calcificación
Type of project: Trabajo Fin de Máster
Entity: Universidad de Granada **Type of entity:** University
Student: Ana Iris Buitrago Calasanz
Date of reading: 2017

Student tutorials

- 1** **Name of the programme:** Módulo de formación profesional en centros de trabajo, del ciclo formativo "Laboratorio de Análisis y Control de Calidad de grado superior del IES Zaidín Vergeles
Entity: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Number of recognized hours/ECTS credits: 38 **Frequency of the activity:** 380
Number of tutored students: 2
- 2** **Name of the programme:** módulo de formación profesional en centros de trabajo, del ciclo formativo "Anatomía Patológica y Citodiagnóstico" de grado superior de CIDEP Atlántida formación
Entity: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Number of recognized hours/ECTS credits: 38 **Frequency of the activity:** 380
Number of tutored students: 1
- 3** **Name of the programme:** módulo de formación profesional en centros de trabajo, del ciclo formativo "Laboratorio de Análisis Clínico" de grado superior de CIDEP Atlántida formación
Entity: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Number of recognized hours/ECTS credits: 38 **Frequency of the activity:** 380
Number of tutored students: 3

Healthcare experience

Healthcare experience in foreign countries

Relevant results: Study Coordinator en el ensayo clínico "A Phase 3, Randomized, Double-blinded, Placebo-Controlled, Multicenter Study to Evaluate Efficacy and Safety of ALXN1850 (Recombinant Alkaline Phosphatase) Administered Subcutaneously in Adolescent (12-to <18 years of age) and Adult Participants with Hypophosphatasia Who Have Not Previously Been Treated with Asfotase Alfa"

Entity: Alexion Pharmaceuticals, Inc

Start-End date: 01/01/2024 - 31/12/2026



Courses and seminars given to healthcare professionals focused on improving medical care

- 1 Name of the course:** 3º Curso de Ortogeriatria y Traumatología del Hospital Clínico San Carlos
City organizing entity: Madrid, Community of Madrid, Spain
Entity where project took place: Hospital Clínico San Carlos **Type of entity:** Healthcare Institutions
Eje cerebro – hueso – vaso. Dianas terapéuticas de futuro.
End date: 16/03/2023
- 2 Name of the course:** CURSO DE ABORDAJE TERAPÉUTICO DE LA OSTEOPOROSIS EN LA OFICINA DE FARMACIA 2022
City organizing entity: Saluris, Spain
Tratamiento de la osteoporosis con anticuerpos monoclonales.
End date: 10/05/2022
- 3 Name of the course:** RAQUITISMOS Y OSTEOMALACIA HEREDADOS: Evidencias en el diagnóstico y manejo en Atención Primaria” 2022
City organizing entity: Consejería de Sanidad de la Comunidad de Madrid, Community of Madrid, Spain
City of entity: online,
Avances científicos y proyectos de investigación de la Hipofosfatasa.
End date: 26/04/2022

Other activities/achievements not included above

- 1 Other relevant activities:** Member of the Bioexpert Network for the evaluation of national and international projects of biotechnology companies
Entity where project took place: ibs.GRANADA
- 2 Other relevant activities:** Member of the medical advisory committee of the Spanish Association of Inherited Rickets and Osteomalacia (AERYOH)
Entity where project took place: ibs.GRANADA



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Grupo de trabajo de Metabolismo Óseo de la SEEN
Aims of the group: work group in a scientific society
Type of collaboration: Co-authorship of projects and their development
Start date: 01/01/2017
- 2 Name of the group:** CIBER ÁREA TEMÁTICA DE FRAGILIDAD Y ENVEJECIMIENTO SALUDABLE (CIBERFES)
Standardised code: CB16/10/00475
Type of collaboration: Co-operative co-authorship with bodies from third nations
Affiliation entity: CIBERFES
Start date: 2017
Duration: 4 years
- 3 Name of the group:** MP20: Biomarcadores de enfermedades metabólicas y óseas
Aims of the group: Instituto de Investigación Biosanitaria de Granada
Standardised code: MP20
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Ibs.GRANADA
Type of entity: Public Research Body
Start date: 2014
- 4 Name of the group:** RD12/0043/0014: Red temática de investigación cooperativa en envejecimiento y fragilidad (RETICEF)
Affiliation entity: RETICEF
Start date: 2012
- 5 Name of the group:** PAIDI CTS 633: Metabolismo Óseo
Affiliation entity: PAIDI
Start date: 17/04/2010
- 6 Name of the group:** PAIDI BIO269. Respuesta del aparato fotosintético a estrés abiótico y biótico.
Affiliation entity: PAIDI
Start date: 24/03/2008
Duration: 2 years - 2 months
- 7 Name of the group:** RD06/0013/1014: Red temática de investigación cooperativa en envejecimiento y fragilidad (RETICEF)
Affiliation entity: RETICEF
Start date: 2007
Duration: 5 years

Scientific or technological activities

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

- 1** **Name of the project:** Integractómica: Integración de datos multiómicos y de imagen mediante aplicación de algoritmos de Inteligencia Artificial para diagnóstico e identificación de vías moleculares implicadas en el desarrollo de Enfermedades Raras

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: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions

City of entity: Granada, Spain

Name principal investigator (PI, Co-PI...): Beatriz García Fontana

Type of participation: Principal investigator

Name of the programme: FOMENTO DE LA GENERACIÓN DEL CONOCIMIENTO EN ÁREAS TEMÁTICAS DE EXCELENCIA EN BIOMEDICINA Y EN CIENCIAS DE LA SALUD A TRAVÉS DE LA I+D+I 2023

Code according to the funding entity: EXC-2023-06

Start-End date: 01/01/2024 - 31/12/2026 **Duration:** 3 years

Total amount: 199.651,5 €

- 2** **Name of the project:** PI21/01069: Implicaciones multisistémicas de la Hipofosfatasa: Papel de la microbiota y caracterización geno-fenotípica de nuevas variantes en población infantil y adulta

Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions

Type of participation: Principal investigator

Name of the programme: FIS

Code according to the funding entity: PI21/01069

Start-End date: 01/01/2022 - 31/12/2025 **Duration:** 3 years

Total amount: 78.650 €

- 3** **Name of the project:** FEIOMM: Identificación del miRNoma diferencial asociado a alteraciones digestivas y autoinmunes en pacientes con hipofosfatasa como herramienta diagnóstica y pronóstica

Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions

Nº of researchers: 14

Type of participation: Principal investigator

Name of the programme: BECA FEIOMM Investigación traslacional

Start-End date: 11/2022 - 11/2024 **Duration:** 2 years

Total amount: 7.000 € **Sub-project amount:** 7.000 €

- 4** **Name of the project:** PI-0268-2019 Caracterización a nivel transcripcional de los genes implicados en calcificación vascular en pacientes diabéticos. Estudio in silico de las proteínas óseas esclerostina y osteoglicina para diseño de posibles inhibidores como tratamiento preventivo de calcificación vascular.

Type of project: Research and development, including transfer

Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Cristina García Fontana

Nº of researchers: 8

Type of participation: Team member

Start-End date: 01/01/2020 - 31/12/2022

Duration: 3 years

Total amount: 68.988,5 €

Dedication regime: Part time

5 Name of the project: Mejora del proceso diagnóstico en pacientes con sospecha de enfermedad rara mediante software innovador de predicción genética RDengine

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

City of entity: Granada,

Nº of researchers: 3

Funding entity or bodies:

Objetivo Diagnóstico

Type of participation: Principal investigator

Start-End date: 2021 - 2022

Total amount: 30.000 €

6 Name of the project: PI18/00803: Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Evaluación de su bloqueo como aproximación terapéutica.

Type of project: Research and development, including transfer

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

City of entity: Granada, Andalusia, Spain

Name principal investigator (PI, Co-PI....): Beatriz García Fontana; Silvia Lozano Alonso

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: Principal investigator

Start-End date: 2019 - 2021

Total amount: 62.920 €

7 Name of the project: FEIOMM: Clonaje y expresión de esclerostina recombinante para el estudio de su función a nivel vascular

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Nº of researchers: 6

Type of participation: Principal investigator

Name of the programme: BECA FEIOMM Investigación traslacional

Start-End date: 11/2018 - 11/2020

Duration: 2 years

Total amount: 6.000 €

Sub-project amount: 6.000 €

8 Name of the project: CB16/10/00475 CIBER Área temática de Fragilidad y Envejecimiento Saludable

Type of project: Research and development, including transfer

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Type of participation: Team member

Code according to the funding entity: CB16/10/00475

Start-End date: 2017 - 2020

Total amount: 114.000 €



- 9** **Name of the project:** FEIOMM: Estudio retrospectivo de prevalencia de Hipofosfatasa en Granada
Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Nº of researchers: 8
Type of participation: Team member
Name of the programme: Beca FEIOMM Investigación Clínica
Start-End date: 10/2017 - 10/2019
Total amount: 6.000 € **Sub-project amount:** 6.000 €
- 10** **Name of the project:** PI-0207-2016 Identificación de proteínas implicadas en calcificación vascular y mineralización ósea en pacientes con diabetes mellitus tipo 2
Type of project: Research and development, including transfer
Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Type of participation: Principal investigator
Start-End date: 2017 - 2019 **Duration:** 3 years
Total amount: 50.290,36 €
Dedication regime: Full time
- 11** **Name of the project:** RELACIÓN ENTRE VALORES DE DENSITOMETRÍA 3D (3D-DXA), RIESGO DE FRACTURA Y ENFERMEDAD CARDIOVASCULAR EN PACIENTES CON DIABETES TIPO 2.
Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
City of entity: Granada,
Nº of researchers: 9
Start-End date: 2017 - 2019
- 12** **Name of the project:** FEIOMM: Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en Diabetes mellitus tipo 2. Cristalización, abordaje estructural y evaluación de su bloqueo como aproximación terapéutica para el tratamiento de la osteoporosis y aterosclerosis
Type of project: Research and development, including transfer **Geographical area:** NACIONAL
Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Name principal investigator (PI, Co-PI....): BEATRIZ GARCIA FONTANA
Funding entity or bodies: FUNDACIÓN ESPAÑOLA DE INVESTIGACIÓN ÓSEA Y DEL METABOLISMO MINERAL
Type of participation: Principal investigator
Name of the programme: Beca FEIOMM Investigación básica
Start-End date: 03/11/2015 - 03/11/2017 **Duration:** 1 year
Total amount: 6.000 € **Sub-project amount:** 6.000 €
- 13** **Name of the project:** FSEEN: Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Cristalización, abordaje estructural y evaluación de su bloqueo como aproximación terapéutica para el tratamiento de la osteoporosis y aterosclerosis
Type of project: Research and development, including transfer **Geographical area:** NACIONAL
Entity where project took place: Hospital Universitario San Cecilio **Type of entity:** Healthcare Institutions
Name principal investigator (PI, Co-PI....): BEATRIZ GARCIA FONTANA
Funding entity or bodies:

SOCIEDAD ESPAÑOLA DE ENDOCRINOLOGÍA Y NUTRICIÓN (SEEN)

Type of participation: Principal investigator

Name of the programme: Beca FSEEN

Start-End date: 10/2016 - 10/2017

Duration: 1 year

Total amount: 4.500 €

Sub-project amount: 4.500 €

- 14 Name of the project:** SAEDyN: Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Cristalización, abordaje estructural y evaluación de su bloqueo como aproximación terapéutica para el tratamiento de la osteoporosis y aterosclerosis

Type of project: Research and development, including transfer

Geographical area: NACIONAL

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Name principal investigator (PI, Co-PI....): Beatriz García Fontana; Manuel Muñoz Torres

Funding entity or bodies:

Sociedad Andaluza de Endocrinología, Diabetes y Nutrición

Type of participation: Team member

Name of the programme: Beca de Investigación Saedyn

Start-End date: 19/01/2016 - 19/01/2017

Duration: 1 year

Total amount: 6.000 €

- 15 Name of the project:** PI15-01207"Relación entre parámetros de trabecular bone score (TBS), enfermedad cardiovascular y fragilidad ósea en pacientes con diabetes tipo 2".

Entity where project took place: Hospital San Cecilio

City of entity: Granada,

Start-End date: 2015 - 2017

Total amount: 34.485 €

- 16 Name of the project:** PI14/01722. PREDIMED+DM: Efecto de una dieta mediterránea hipocalórica y promoción de la actividad física en prevención de diabetes tipo 2 en personas con síndrome metabólico

Entity where project took place: Hospital Clínico San Cecilio

City of entity: Granada,

Name principal investigator (PI, Co-PI....): Aurora Bueno Cavanillas

Start-End date: 2014 - 2017

Total amount: 128.562,5 €

- 17 Name of the project:** RELACIÓN ENTRE PARÁMETROS DE TRABECULAR BONE SCORE (TBS), RIESGO DE FRACTURA Y ENFERMEDAD CARDIOVASCULAR EN PACIENTES CON DIABETES TIPO 2.

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

City of entity: Granada,

N° of researchers: 9

Funding entity or bodies:

Type of entity: Business

Start-End date: 2014 - 2016

- 18 Name of the project:** PI-0514-2012 Identificación de Marcadores Genéticos y Nuevas Proteínas Reguladoras Relacionadas Con la Aterosclerosis en la Diabetes Mellitus Tipo 2. Respuesta A Terapia Con Anticuerpos Anti-Esclerostina en Células Vasculares Calcificadas.

Geographical area: REGIONAL



Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Name principal investigator (PI, Co-PI....): Manuel Muñoz Torres

Funding entity or bodies:

CONSEJERÍA DE IGUALDAD, SALUD Y POLÍTICAS SOCIALES

Type of participation: Team member

Code according to the funding entity: PI-0514-2012

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

Total amount: 47.944 €

- 19 Name of the project:** PI12/02141 Cambios en el metabolismo energético inducidos por fármacos antiosteoporóticos

Geographical area: NACIONAL

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Name principal investigator (PI, Co-PI....): Manuel Muñoz Torres

Funding entity or bodies:

Instituto de Salud Carlos III

Type of participation: Team member

Code according to the funding entity: PI12/02141

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

Total amount: 33.275 €

- 20 Name of the project:** RD06/0013/1014 RED TEMATICA DE INVESTIGACION COOPERATIVA EN ENVEJECIMIENTO Y FRAGILIDAD (RETICEF)

Geographical area: NACIONAL

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Name principal investigator (PI, Co-PI....): MUÑOZ TORRES, MANUEL

Funding entity or bodies:

INSTITUTO DE SALUD CARLOS III

Type of participation: Team member

Code according to the funding entity: RD06/0013/1014

Start-End date: 01/01/2007 - 31/12/2015

Total amount: 37.126 €

- 21 Name of the project:** RD12/0043/0014 Red temática de investigación cooperativa en envejecimiento y fragilidad (RETICEF)

Geographical area: NACIONAL

Entity where project took place: Hospital Universitario San Cecilio

Type of entity: Healthcare Institutions

Name principal investigator (PI, Co-PI....): MANUEL MUÑOZ

Funding entity or bodies:

Instituto de Salud Carlos III

Type of participation: Team member

Code according to the funding entity: RD12/0043/0014

Start-End date: 20/12/2012 - 31/12/2013

Total amount: 74.252 €



22 **Name of the project:** PI08130 IDENTIFICACIÓN DE BIOMARCADORES DE ENFERMEDAD METABÓLICA ÓSEA Y ENFERMEDAD CARDIOVASCULAR EN PACIENTES CON DIABETES MELLITUS TIPO 2

Geographical area: NACIONAL

Entity where project took place: Instituto de Parasitología y Biomedicina López-Neyra

Type of entity: State agency

Name principal investigator (PI, Co-PI....): MANUEL MUÑOZ

Funding entity or bodies:

Instituto de Salud Carlos III

Type of participation: Team member

Code according to the funding entity: 487

Start-End date: 11/01/2008 - 11/01/2011

Total amount: 154.880 €

23 **Name of the project:** Seguimiento del impacto de la infección por patógenos en la planta huésped mediante técnicas de imagen y proteómicas

Geographical area: NACIONAL

Entity where project took place: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Name principal investigator (PI, Co-PI....): MATILDE BAYÓN AYALA

Funding entity or bodies:

MINISTERIO DE ECONOMIA Y COMPETITIVIDAD

Type of participation: Team member

Code according to the funding entity: AGL2008-00214

Start-End date: 01/01/2009 - 31/12/2010

24 **Name of the project:** Genómica funcional y proteómica de los transportadores MDR en infecciones de plantas

Geographical area: REGIONAL

Entity where project took place: Consejo Superior de Investigaciones Científicas

Type of entity: State agency

Funding entity or bodies:

Junta de Andalucía

Type of entity: Body, others

Type of participation: Team member

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

Code according to the funding entity: CVI 03475

Start date: 01/01/2009

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

1 **Name of the project:** Convenio de Colaboración entre CTS633 – METABOLISMO ÓSEO y Sensactive Technology S.L.

Degree of contribution: Researcher

Nº of researchers: 3

Participating entity/entities: CTS 633; Sensactive Technology S.L.

Funding entity or bodies:

Sensactive Technology S.L.

Type of entity: Innovation and Technology Centres

Start date: 01/01/2024



- 2** **Name of the project:** CONVENIO DE COLABORACIÓN ENTRE FIBAO, GENACTIVE CLINIC & RESEARCH, AERyOH e Ibs.GRANADA a través de Beatriz García Fontana
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Iván Iglesias Baena; Beatriz García Fontana
Participating entity/entities: AERyOH; FIBAO; Genactive Clinic & Research; Ibs.GRANADA
Start date: 28/05/2021
- 3** **Name of the project:** CONVENIO DE COLABORACIÓN ENTRE GENACTIVE CLINIC & RESEARCH e ISCIII a través de Beatriz García Fontana
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Iván Iglesias Baena; Beatriz García Fontana
Participating entity/entities: Genactive Clinic & Research; Instituto de Salud Carlos III
Start date: 11/10/2019
- 4** **Name of the project:** Investigadora postdoctoral contratada
Degree of contribution: Researcher
Funding entity or bodies:
CIBERFES **Type of entity:** CIBER
Start date: 03/07/2017
- 5** **Name of the project:** Técnico de Apoyo a la Investigación
Degree of contribution: Researcher
Funding entity or bodies:
FIBAO
Start date: 16/04/2010 **Duration:** 7 years
- 6** **Name of the project:** Titulado Superior de Investigaciones técnicas y profesionales
Degree of contribution: Researcher
Funding entity or bodies:
Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
City funding entity: Madrid, Community of Madrid, Spain
Start date: 16/03/2008 **Duration:** 2 years
- 7** **Name of the project:** Técnico universitario de laboratorio
Degree of contribution: Current university student
Funding entity or bodies:
Cavendish
Start date: 2007 **Duration:** 3 months
- 8** **Name of the project:** Convenio de colaboración FIBAO-VIRCELL S.L. (13/009 HUSC)
Degree of contribution: Researcher
Funding entity or bodies:
Vircell, S.L. **Type of entity:** Business
City funding entity: Santa Fe, Andalusia, Spain



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 González-Salvatierra S.; García-Fontana C.; Lacal J.; Andújar-Vera F.; Martínez-Heredia L.; Sanabria-de la Torre R.; Ferrer-Millán M.; Moratalla-Aranda E.; Muñoz-Torres M.; García-Fontana B.. Cardioprotective function of sclerostin by reducing calcium deposition, proliferation, and apoptosis in human vascular smooth muscle cells. *Cardiovascular Diabetology*. 22, 02/11/2023.
DOI: 10.1186/s12933-023-02043-8
PMID: 37919715
Type of production: Scientific paper **Format:** Journal
Position of signature: 10
Total no. authors: 10 **Corresponding author:** No
Relevant publication: Yes
- 2 Non-Classical Effects of FGF23: Molecular and Clinical Features. *International Journal of Molecular Sciences*. 2024.
Type of production: Scientific paper
Corresponding author: Yes
- 3 Martínez-Heredia L; Muñoz-Torres M; Sanabria-de la Torre R; Jiménez-Ortas Á; Andújar-Vera F; González-Cejudo T; Contreras-Bolívar V; González-Salvatierra S; Gómez-Vida JM; García-Fontana C; García-Fontana B. Systemic effects of hypophosphatasia characterization of two novel variants in the ALPL gene. *Frontiers in endocrinology*. 14, pp. 1320516. 2024. ISSN 1664-2392
DOI: 10.3389/fendo.2023.1320516
PMID: 38234425
Type of production: Scientific paper
Position of signature: 11
Total no. authors: 11
- 4 González-Salvatierra S; García-Fontana B; Martínez-Heredia L; Lacal J; Andújar-Vera F; Sanabria-de la Torre R; Moratalla-Aranda E; Lozano-Alonso S; García-Fontana C; Muñoz-Torres M. Exploring the role of osteoglycin in type 2 diabetes: implications for insulin resistance and vascular pathophysiology. *American journal of physiology. Endocrinology and metabolism*. 325, pp. E649 - E660. 01/11/2023. ISSN 0193-1849
DOI: 10.1152/ajpendo.00320.2023
PMID: 37819194
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 10 **Corresponding author:** Yes
- 5 González-Cejudo T; Villa-Suárez JM; Ferrer-Millán M; Andújar-Vera F; Contreras-Bolívar V; Andreo-López MC; Gómez-Vida JM; Martínez-Heredia L; González-Salvatierra S; de Haro Muñoz T; García-Fontana C; Muñoz-Torres M; García-Fontana B. Mild hypophosphatasia may be twice as prevalent as previously estimated: an effective clinical algorithm to detect undiagnosed cases. *Clinical chemistry and laboratory medicine*. 14/07/2023. ISSN 1434-6621
DOI: 10.1515/cclm-2023-0427

**PMID:** 37440753**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 13**Total no. authors:** 13

- 6** Ubago-Guisado E; Moratalla-Aranda E; González-Salvatierra S; Gil-Cosano JJ; García-Fontana B; García-Fontana C; Gracia-Marco L; Muñoz-Torres M. Do patients with type 2 diabetes have impaired hip bone microstructure? A study using 3D modeling of hip dual-energy X-ray absorptiometry. *Frontiers in endocrinology*. 13, pp. 1069224. 09/01/2023. ISSN 1664-2392

DOI: 10.3389/fendo.2022.1069224**PMID:** 36699041**Type of production:** Scientific paper**Position of signature:** 5**Total no. authors:** 8**Corresponding author:** Yes**Source of citations:** WOS**Citations:** 41

- 7** Andújar-Vera F; Ferrer-Millán M; García-Fontana C; García-Fontana B; González-Salvatierra S; Sanabria-de la Torre R; Martínez-Heredia L; Riquelme-Gallego B; Muñoz-Torres M. Analysis of the Genetic Relationship between Atherosclerosis and Non-Alcoholic Fatty Liver Disease through Biological Interaction Networks. *International journal of molecular sciences*. 24, 2023.

DOI: 10.3390/ijms24044124**PMID:** 36835545**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 9**Corresponding author:** Yes**Source of citations:** WOS**Citations:** 108

- 8** Riquelme-Gallego, Blanca; Garcia-Molina, Laura; Cano-Ibanez, Naomi; Andujar-Vera, Francisco; Gonzalez-Salvatierra, Sheila; Garcia-Fontana, Cristina; Bueno-Cavanillas, Aurora; Munoz-Torres, Manuel; Garcia-Fontana, Beatriz. Undercarboxylated Osteocalcin: A Promising Target for Early Diagnosis of Cardiovascular and Glycemic Disorders in Patients with Metabolic Syndrome: A Pilot Study. *NUTRIENTS*. 14, 21/07/2022.

DOI: 10.3390/nu14142991**PMID:** 35889946**Type of production:** Scientific paper**Position of signature:** 9**Total no. authors:** 9**Corresponding author:** Yes**Source of citations:** WOS**Citations:** 1

- 9** Sanabria-de la Torre R; Martínez-Heredia L; González-Salvatierra S; Andújar-Vera F; Iglesias-Baena I; Villa-Suárez JM; Contreras-Bolívar V; Corbacho-Soto M; Martínez-Navajas G; Real PJ; García-Fontana C; Muñoz-Torres M; García-Fontana B. Characterization of genetic variants of uncertain significance for the ALPL gene in patients with adult hypophosphatasia. *Frontiers in Endocrinology*. 14/03/2022. Available on-line at: <<https://www.frontiersin.org/articles/10.3389/fendo.2022.863940/abstract>>. ISSN 1664-2392

DOI: 10.3389/fendo.2022.863940**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 13**Total no. authors:** 13



- 10** Francisco Andújar-Vera; Cristina García-Fontana; Raquel Sanabria-de la Torre; Sheila González-Salvatierra; Luis Martínez-Heredia; Iván Iglesias-Baena; Manuel Muñoz-Torres; Beatriz García-Fontana. Identification of potential targets linked to the Cardiovascular/Alzheimer's axis through bioinformatics approaches. *Biomedicines*. 06/02/2022. ISSN 2227-9059
DOI: 10.3390/biomedicines10020389
PMID: 35203598
Type of production: Scientific paper **Format:** Journal
Position of signature: 8
Total no. authors: 8
- 11** Hayón-Ponce M; García-Fontana B; Avilés-Pérez MD; González-Salvatierra S; Andújar-Vera F; Moratalla-Aranda E; Muñoz-Torres M. LOWER TRABECULAR BONE SCORE IN TYPE 2 DIABETES MELLITUS: A ROLE FOR FAT MASS AND INSULIN RESISTANCE BEYOND HYPERGLYCEMIA. *Diabetes & Metabolism*. in press, 10/09/2021. ISSN 1262-3636
DOI: 10.1016/j.diabet.2021.101276
PMID: 34517124
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 7 **Corresponding author:** Yes
- 12** Gonzalez-Salvatierra, Sheila; Garcia-Fontana, Cristina; Andujar-Vera, Francisco; Grau-Perales, Alejandro Borja; Martinez-Heredia, Luis; Aviles-Perez, Maria Dolores; Hayon-Ponce, Maria; Iglesias-Baena, Ivan; Riquelme-Gallego, Blanca; Munoz-Torres, Manuel; Garcia-Fontana, Beatriz. Osteoglycin as a Potential Biomarker of Mild Kidney Function Impairment in Type 2 Diabetes Patients. *JOURNAL OF CLINICAL MEDICINE*. 10, 20/05/2021. ISSN 2077-0383
DOI: 10.3390/jcm10102209
PMID: 34065223
Type of production: Scientific paper **Format:** Journal
Position of signature: 11
Total no. authors: 11
- 13** Gracia-Marco L; Gonzalez-Salvatierra S; Garcia-Martin A; Ubago-Guisado E; Garcia-Fontana B; Gil-Cosano JJ; Muñoz-Torres M. 3D DXA Hip Differences in Patients with Acromegaly or Adult Growth Hormone Deficiency. *Journal of Clinical Medicine*. 09/02/2021. ISSN 2077-0383
DOI: 10.3390/jcm10040657
PMID: 33572103
Type of production: Scientific paper **Format:** Journal
Position of signature: 5
Total no. authors: 7 **Corresponding author:** No
- 14** Francisco Andújar-Vera; Cristina García-Fontana; Silvia Lozano-Alonso; Sheila González-Salvatierra; Iván Iglesias-Baena; Manuel Muñoz-Torres; Beatriz García-Fontana. Association between oxidative-stress-related markers and calcified femoral artery in type 2 diabetes patients. *Journal of Pharmaceutical and Biomedical Analysis*. 13/08/2020. ISSN 0731-7085
DOI: 10.1016/j.jpba.2020.113535
PMID: 32858413
Type of production: Scientific paper **Format:** Journal
Position of signature: 7
Total no. authors: 7
- 15** Blanca Riquelme-Gallego; Laura García-Molina; Naomi Cano-Ibáñez; Guillermo Sánchez-Delgado; Francisco Andújar-Vera; Cristina García-Fontana; Sheila González-Salvatierra; Enrique García-Recio; Virginia Martínez-Ruiz; Aurora Bueno-Cavanillas; Manuel Muñoz-Torres; Beatriz García-Fontana. Circulating

Undercarboxylated Osteocalcin as Estimator of Cardiovascular and Type 2 Diabetes Risk in Metabolic Syndrome Patients. *Scientific Reports. Nature*, 17/01/2020. ISSN 2045-2322

DOI: 10.1038/s41598-020-58760-7

PMID: 32020009

Type of production: Scientific paper

Format: Journal

Position of signature: 12

Total no. authors: 12

Corresponding author: Yes

- 16** Gracia-Marco-L; García-Fontana B; Ubago-Guisado E; Vlachopoulos D; García-Martín A; Muñoz-Torres M. Analysis of bone impairment by 3D DXA hip measures in patients with primary hyperparathyroidism: a pilot study. *Journal of Clinical and Endocrinology Metabolism*. Vlachopoulos D, 04/10/2019. ISSN 0021-972X

DOI: 10.1210/clinem/dgz060

PMID: 31588503

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 6

Corresponding author: Yes

- 17** Garcia-Fontana, Cristina; Villa-Suarez, Juan M.; Andujar-Vera, Francisco; Gonzalez-Salvatierra, Sheila; Martinez-Navajas, Gonzalo; Real, Pedro J.; Gomez Vida, Jose M.; de Haro, Tomas; Garcia-Fontana, Beatriz; Munoz-Torres, Manuel. Epidemiological, Clinical and Genetic Study of Hypophosphatasia in A Spanish Population: Identification of Two Novel Mutations in The Alpl Gene. *SCIENTIFIC REPORTS*. 9, 02/07/2019. ISSN 2045-2322

DOI: 10.1038/s41598-019-46004-2

PMID: 31267001

Type of production: Scientific paper

Position of signature: 9

Total no. authors: 10

Corresponding author: Yes

- 18** Manuel Muñoz-Torres; Rosanna Manzanares-Córdova; Antonia García-Martín; María Dolores Avilés-Pérez; Rafael Nieto Serrano; Francisco Andújar-Vera; Beatriz García-Fontana. Usefulness of Trabecular Bone Score (TBS) to Identify Bone Fragility in Patients with Primary Hyperparathyroidism. *J Clin Densitometry*. 27/06/2018. ISSN 1094-6950

DOI: 10.1016/j.jocd.2018.06.005

PMID: 30093271

Type of production: Scientific paper

Format: Journal

Position of signature: 7

Total no. authors: 7

Corresponding author: No

- 19** Oscar Moreno-Pérez; Rebeca Reyes-García; Manuel Muñoz-Torres; E Merino; V Boix; S Reus; R Giner; Rocío Alfayate; Beatriz García-Fontana; J Sanchez-Paya; A Picó; J Portillo. High Irisin levels in non-diabetic HIV-infected males are associated with insulin resistance, non-alcoholic fatty liver disease, and subclinical atherosclerosis. *Clin Endocrinol*. 26/06/2018. ISSN 0300-0664

DOI: 10.1111/cen.13800

PMID: 29947044

Type of production: Scientific paper

Format: Journal

Position of signature: 9

Total no. authors: 12

Corresponding author: No

- 20** Cristina Novo-Rodríguez; Beatriz García-Fontana; Juan de Dios Luna del Castillo; Francisco Andújar-Vera; Verónica Ávila-Rubio; Cristina García-Fontana; Sonia Morales-Santana; Pedro Rozas-Moreno; Manuel Muñoz-Torres. Circulating levels of sclerostin are associated with cardiovascular mortality. *Plos One*. 21/06/2018. ISSN 1932-6203

DOI: 10.1371/journal.pone.0199504

PMID: 29928063

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 9

Corresponding author: Yes

- 21** Verónica Avila-Rubio; Beatriz García-Fontana; Cristina Novo-Rodríguez; Jesús Cantero-Hinojosa; Rebeca Reyes-García; Manuel Muñoz-Torres. Higher Levels of Serum 25-Hydroxyvitamin D Are Related to Improved Glucose Homeostasis in Women with Postmenopausal Osteoporosis. *J Womens Health*. 06/06/2018. ISSN 1540-9996

DOI: 10.1089/jwh.2017.6806

PMID: 29874115

Type of production: Scientific paper

Format: Journal

Position of signature: 2

Total no. authors: 6

Corresponding author: Yes

- 22** Francisco Andújar Vera; Cristina García Fontana; Silvia Lozano Alonso; Sonia Morales Santana; Manuel Muñoz Torres; Beatriz García Fontana. Identificación de potenciales biomarcadores de calcificación vascular en pacientes con diabetes mellitus tipo 2 mediante el uso de herramientas bioinformáticas de libre acceso. *Revista de Osteoporosis y Metabolismo Mineral*. 26/02/2018. ISSN 2173-2345

Type of production: Scientific paper

Format: Journal

Position of signature: 6

Total no. authors: 6

Corresponding author: Yes

- 23** Palma-Sánchez D; Haro Martínez AC; Gallardo Muñoz I; Portero de la Torre M; García-Fontana B; Muñoz Torres M. Efecto de la terapia biológica en las concentraciones de DKK1 y esclerostina, riesgo cardiovascular y metabolismo óseo en pacientes con artritis reumatoide. *Revista de Osteoporosis y Metabolismo Mineral*. 26/01/2018. ISSN 2173-2345

Type of production: Scientific paper

Format: Journal

Position of signature: 5

Total no. authors: 5

Corresponding author: No

- 24** Beatriz García Fontana; Rebeca Reyes García; Sonia Morales Santana; Verónica Ávila Rubio; Araceli Muñoz Garach; Pedro Rozas Moreno; Manuel Muñoz Torres. Relationship between myostatin and irisin in type 2 diabetes mellitus: a compensatory mechanism to an unfavourable metabolic state?. *Endocrine*. 52 - 1, pp. 54 - 116. 04/2016. ISSN 1559-0100

DOI: 10.1007/s12020-015-0758-8

PMID: 26438394

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 7

Corresponding author: No

Impact source: ISI

Category: Science Edition - ENDOCRINOLOGY & METABOLISM

Impact index in year of publication: 3,87

Journal in the top 25%: No

- 25** Beatriz García Fontana; Sonia Morales Santana; Caridad Díaz Navarro; Pedro Rozas Moreno; Olga Genilloud; Francisca Vicente Pérez; José Pérez del Palacio; Mnuel Muñoz Torres. Metabolomic profile related to cardiovascular disease in patients with type 2 diabetes mellitus: A pilot study. *Talanta*. 148, pp. 135 - 178. 01/02/2016. ISSN 1873-3573

DOI: 10.1016/j.talanta.2015.10.070

PMID: 26653434

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 8

**Impact source:** ISI**Impact index in year of publication:** 3,545**Category:** Science Edition - CHEMISTRY, ANALYTICAL**Journal in the top 25%:** Yes

- 26** Reyes-García R; Rozas-Moreno P; García-Martín A; García-Fontana B; Morales-Santana S; Muñoz-Torres M. Dickkopf1 (DKK1), metabolismo óseo y enfermedad aterosclerótica en pacientes con diabetes mellitus tipo 2. Revista de Osteoporosis y Metabolismo Mineral. García-Fontana B, 28/12/2015. ISSN 2173-2345

Type of production: Scientific paper**Format:** Journal**Position of signature:** 4**Total no. authors:** 6**Corresponding author:** No

- 27** Sonia Morales Santana; Adolfo Díez Pérez; José M Olmos; Xavier Nogués; Manuel Sosa; Manuel Díaz Curiel; José L Pérez Castrillón; Ramón Pérez Cano; Antonio Torrijos; Esteban Jodar; Luis Del Rio; José R Caeiro Rey; Rebeca Reyes García; Beatriz García Fontana; Jesús González Macías; Manuel Muñoz Torres. Circulating sclerostin and estradiol levels are associated with inadequate response to bisphosphonates in postmenopausal women with osteoporosis. Maturitas. 82 - 4, pp. 402 - 412. (Ireland): 20/08/2015. ISSN 1873-4111

DOI: 10.1016/j.maturitas.2015.08.007**PMID:** 26358930**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 14**Total no. authors:** 16**Impact source:** ISI**Category:** Science Edition - OBSTETRICS & GYNECOLOGY**Impact index in year of publication:** 2,94**Journal in the top 25%:** Yes

- 28** Beatriz García Fontana; Sonia Morales Santana; Victoria Longobardo; Rebeca Reyes García; Pedro Rozas Moreno; José Antonio García Salcedo; Manuel Muñoz Torres. Relationship between Proinflammatory and Antioxidant Proteins with the Severity of Cardiovascular Disease in Type 2 Diabetes Mellitus. International journal of molecular sciences. 16 - 5, pp. 9469 - 9552. (Switzerland): 27/04/2015. ISSN 1422-0067

DOI: 10.3390/ijms16059469**PMID:** 25923078**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 7**Impact source:** ISI**Category:** Biochemistry & Molecular Biology; Chemistry, Multidisciplinary Sciences**Impact index in year of publication:** 2,86**Journal in the top 25%:** No

- 29** Garcia-Martín A; Reyes-García R; García-Fontana B; Morales-Santana S; Coto-Montes A; Muñoz-Garach M; Rozas-Moreno P; Muñoz-Torres M. Relationship of Dickkopf1 (DKK1) with Cardiovascular Disease and Bone Metabolism in Caucasian Type 2 Diabetes Mellitus. PLoS One. 9, 04/11/2014. ISSN 1932-6203

DOI: 10.1371/journal.pone.0111703**PMID:** 25369286**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 8**Impact source:** ISI**Category:** MULTIDISCIPLINARY SCIENCES**Impact index in year of publication:** 3.234**Journal in the top 25%:** Yes



- 30** Reyes-García R; García-Martín A; García-Fontana B; Morales-Santana S; Rozas-Moreno P; Muñoz-Torres M. FGF23 in Type 2 Diabetic Patients: Relationship With Bone Metabolism and Vascular Disease. *Diabetes Care*. 37, pp. E89 - E90. 01/05/2014. ISSN 0149-5992
DOI: 10.2337/dc13-2235
PMID: 24757249
Type of production: Scientific paper **Format:** Journal
Position of signature: 3
Total no. authors: 6 **Corresponding author:** No
Impact source: ISI **Category:** ENDOCRINOLOGY & METABOLISM
Impact index in year of publication: 8.42 **Journal in the top 25%:** Yes
- 31** García-Fontana B; Morales-Santana S; Varsavsky M; García-Martín A; García-Salcedo JA; Reyes-García R; Muñoz-Torres M. Sclerostin serum levels in prostate cancer patients and their relationship with sex steroids. *Osteoporos Int*. pp. 645 - 651. 01/02/2014. ISSN 0937-941X
DOI: 10.1007/s00198-013-2462-y
PMID: 23903956
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 7 **Corresponding author:** No
Impact source: ISI **Category:** ENDOCRINOLOGY & METABOLISM
Impact index in year of publication: 4.169 **Journal in the top 25%:** No
- 32** Morales-Santana S; García-Fontana B; García-Martín A; Rozas-Moreno P; García-Salcedo JA; Reyes-García R; Muñoz-Torres M. Atherosclerotic disease in type 2 diabetes is associated with an increase in sclerostin levels. *Diabetes Care*. 36, pp. 1667 - 1674. 01/06/2013. ISSN 0149-5992
DOI: 10.2337/dc12-1691
PMID: 23288857
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 7
Impact source: ISI **Category:** ENDOCRINOLOGY & METABOLISM
Impact index in year of publication: 8.57 **Journal in the top 25%:** Yes
- 33** Hakmaoui A; Pérez-Bueno ML; García-Fontana B; Camejo D; Jiménez A; Sevilla F; Barón M. Analysis of the antioxidant response of *Nicotiana benthamiana* to infection with two strains of Pepper mild mottle virus. *J Exp Bot*. 63, pp. 5487 - 5496. 01/09/2012. ISSN 0022-0957
DOI: 10.1093/jxb/ers212
PMID: 22915745
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 7
Impact source: ISI **Category:** PLANT SCIENCES
Impact index in year of publication: 5.242 **Journal in the top 25%:** Yes
- 34** García-Martín A; Rozas-Moreno P; Reyes-García R; Morales-Santana S; García-Fontana B; García-Salcedo JA; Muñoz-Torres M. Circulating levels of sclerostin are increased in patients with type 2 diabetes mellitus. *J Clin Endocrinol Metab*. 97, pp. 234 - 241. 01/01/2012. ISSN 0021-972X
DOI: 10.1210/jc.2011-2186
PMID: 22031520

Type of production: Scientific paper
Position of signature: 5
Total no. authors: 7
Impact source: ISI
Impact index in year of publication: 6.43

Format: Journal
Corresponding author: No
Category: ENDOCRINOLOGY & METABOLISM
Journal in the top 25%: Yes

- 35** Maria Carmen Andreo-Lopez; Victoria Contreras-Bolivar; Beatriz Garcia-Fontana; Cristina Garci-Fontana; Manuel Muñoz-Torres. The Influence of the Mediterranean Dietary Pattern on Osteoporosis and Sarcopenia. *Nutrients*. 19/07/2023.

DOI: 10.3390/nu15143224
Type of production: Bibliographic review
Position of signature: 3
Total no. authors: 5

Format: Journal

- 36** Andreo-López MC; Contreras-Bolívar V; Muñoz-Torres M; García-Fontana B; García-Fontana C. Influence of the Mediterranean Diet on Healthy Aging. *International journal of molecular sciences*. 24, 2023.

DOI: 10.3390/ijms24054491
PMID: 36901921
Type of production: Bibliographic review
Position of signature: 4
Total no. authors: 5
Source of citations: WOS

Corresponding author: Yes
Citations: 377

- 37** Sanabria-de la Torre, Raquel; Gonzalez-Salvatierra, Sheila; Garcia-Fontana, Cristina; Andujar-Vera, Francisco; Garcia-Fontana, Beatriz; Munoz-Torres, Manuel; Riquelme-Gallego, Blanca. Exploring the Role of Sclerostin as a Biomarker of Cardiovascular Disease and Mortality: A Scoping Review. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*. 19, 30/11/2022.

DOI: 10.3390/ijerph192315981
PMID: 36498053
Type of production: Bibliographic review
Position of signature: 5
Total no. authors: 7

Degree of contribution: Author or co-author of review
Corresponding author: Yes

- 38** Ana Piñar-Gutierrez; Cristina García-Fontana; Beatriz García-Fontana; Manuel Muñoz-Torres. Obesity and Bone Health: A Complex Relationship. *International Journal of Molecular Sciences*. 27/07/2022.

DOI: 10.3390/ijms23158303
Type of production: Bibliographic review
Position of signature: 3
Total no. authors: 4

Format: Journal
Corresponding author: Yes

- 39** The Contribution of Wnt Signaling to Vascular Complications in Type 2 Diabetes Mellitus. *International Journal of Molecular Sciences*. 23/06/2022.

DOI: 10.3390/ijms23136995
PMID: 35805996
Type of production: Bibliographic review
Position of signature: 6
Total no. authors: 7

Format: Journal
Corresponding author: Yes

- 40** Martínez-Montoro JI; García-Fontana B; García-Fontana C; Muñoz-Torres M. Evaluation of Quality and Bone Microstructure Alterations in Patients with Type 2 Diabetes: A Narrative Review. *Journal of clinical medicine*. 11, 14/04/2022.

DOI: 10.3390/jcm11082206

PMID: 35456299

Type of production: Bibliographic review

Format: Journal

Corresponding author: Yes

- 41** Contreras-Bolívar V; García-Fontana B; García-Fontana C; Muñoz-Torres M. Vitamin D and COVID-19: where are we now?. Postgraduate Medicine. 09/12/2021. ISSN 0032-5481

DOI: 10.1080/00325481.2021.2017647

PMID: 34886758

Type of production: Bibliographic review

Format: Journal

Position of signature: 2

Degree of contribution: Author or co-author of review

Total no. authors: 4

Corresponding author: Yes

- 42** Victoria Contreras-Bolívar; Beatriz García-Fontana; Cristina García-Fontana; Manuel Muñoz-Torres. Mechanisms Involved in the Relationship between Vitamin D and Insulin Resistance: Impact on Clinical Practice. Nutrients. 01/10/2021. ISSN 2072-6643

DOI: 10.3390/nu13103491

PMID: 34684492

Type of production: Bibliographic review

Format: Journal

Position of signature: 2

Total no. authors: 4

Corresponding author: Yes

- 43** Villa-Suarez, Juan Miguel; Garcia-Fontana, Cristina; Andujar-Vera, Francisco; Gonzalez-Salvatierra, Sheila; de Haro-Munoz, Tomas; Contreras-Bolivar, Victoria; Garcia-Fontana, Beatriz; Munoz-Torres, Manuel. Hypophosphatasia: A Unique Disorder of Bone Mineralization. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 22, 21/04/2021. ISSN 1422-0067

DOI: 10.3390/ijms22094303

PMID: 33919113

Type of production: Bibliographic review

Format: Journal

Position of signature: 7

Total no. authors: 8

Corresponding author: Yes

- 44** Muñoz-Garach A; García-Fontana B; Muñoz-Torres M. Nutrients and Dietary Patterns Related to Osteoporosis. Nutrients. 12, 03/07/2020. ISSN 2072-6643

DOI: 10.3390/nu12071986

PMID: 32635394

Type of production: Bibliographic review

Format: Journal

Position of signature: 2

Total no. authors: 3

Corresponding author: No

- 45** Muñoz-Garach, Araceli; Garcia-Fontana, Beatriz; Muñoz-Torres, Manuel. Vitamin D Status, Calcium Intake and Risk of Developing Type 2 Diabetes: An Unresolved Issue. NUTRIENTS. 11, 16/03/2019. ISSN 2072-6643

DOI: 10.3390/nu11030642

PMID: 30884820

Type of production: Bibliographic review

Position of signature: 2

Total no. authors: 3



Works submitted to national or international conferences

- 1** **Title of the work:** Función cardioprotectora de esclerostina mediante la reducción de los depósitos de calcio, la proliferación y la apoptosis en células de músculo liso vascular humanas
Name of the conference: XXVII Congreso SEIOMM
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain
Date of event: 24/10/2023
Organising entity: SEIOMM
- 2** **Title of the work:** Impaired Cortical thickness at the femoral neck by 3D-DXA in type 2 diabetes patients
Name of the conference: XXVII Congreso SEIOMM
City of event: Sevilla, Spain
Date of event: 24/10/2023
Organising entity: SEIOMM
- 3** **Title of the work:** Manifestaciones inflamatorias y autoinmunes de la hipofosfatasa
Name of the conference: XXVII Congreso SEIOMM
Type of participation: Participatory - poster
City of event: Sevilla, Spain
Date of event: 24/10/2023
Organising entity: SEIOMM
- 4** **Title of the work:** ESTUDIO DE REDES DE INTERACCIÓN BIOLÓGICA PARA LA IDENTIFICACIÓN DE LAS VÍAS DE CONEXIÓN ENTRE ENFERMEDAD DE HÍGADO GRASO NO ALCOHÓLICO Y ATROSCLEROSIS
Name of the conference: 64 Congreso SEEN
City of event: Barcelona, Spain
Date of event: 18/10/2023
End date: 20/10/2023
- 5** **Title of the work:** PAPEL PROTECTOR DE LA ESCLEROSTINA EN ATROSCLEROSIS EN PACIENTES CON DIABETES TIPO 2
Name of the conference: 64 Congreso SEEN
City of event: Barcelona, Spain
Date of event: 18/10/2023
End date: 20/10/2023
- 6** **Title of the work:** Nutrición y microbiota.
Name of the conference: I Congreso Iberoamericano de Enfermedades Óseas Poco Frecuentes (CIBEOPOF)
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: virtual,
Date of event: 06/10/2023
End date: 07/10/2023

- 7** **Title of the work:** Caracterización geno-fenotípica y estructural de variantes de significado incierto en el gen ALPL asociadas a Hipofosfatasa adulta
Name of the conference: 63 Congreso de la SEEN
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Las Palmas de Gran Canaria, Spain
Date of event: 26/10/2022
End date: 28/10/2022
Beatriz García Fontana; Raquel Sanabria de la Torre; Luis Martínez Heredia; Sheila González Salvatierra; Francisco Andújar Vera; Iván Iglesias Baena; Victoria Contreras Bolivar; Trinidad González Cejudo; Cristina García Fontana; Manuel Muñoz Torres.
- 8** **Title of the work:** CARACTERIZACIÓN FUNCIONAL Y ESTRUCTURAL DE NUEVAS VARIANTES DEL GEN ALPL ASOCIADAS A HIPOFOSFATASIA
Name of the conference: XXVI Congreso SEIOMM
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 07/10/2022
End date: 11/10/2022
Beatriz García Fontana; Ángela Jiménez-Ortas; Luis Martínez-Heredia; Francisco Andújar-Vera; Raquel Sanabria-de la Torre; Sheila González-Salvatierra; María Carmen Andreo-López; Nuria Cabrera-Gómez; Manuel Muñoz-Torres; Cristina García Fontana.
- 9** **Title of the work:** Relación entre enfermedad cardiovascular y osteoporosis
Name of the conference: 62 Congreso SEEN
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
City of event: Sevilla, Spain
Date of event: 13/10/2021
End date: 15/10/2021
- 10** **Title of the work:** Determinants of Trabecular Bone Score (TBS) in Type 2 Diabetes Mellitus
Name of the conference: ASBMR 2021
Type of event: Conference
Type of participation: Participatory - poster
City of event: San Diego, United States of America
Date of event: 01/10/2021
End date: 04/10/2021
Manuel Muñoz Torres; María Hayón Ponce; María Dolores Avilés Pérez; Sheila González Salvatierra; Francisco Andújar Vera; Enrique Moratalla Aranda; Beatriz García Fontana.
- 11** **Title of the work:** Potential role of superoxide dismutase 2 (SOD2) in the prevention of the femoral artery calcification in type 2 diabetes patients
Name of the conference: ASBMR 2021
Type of event: Conference
Type of participation: Participatory - poster
City of event: San Diego, United States of America
Date of event: 01/10/2021
End date: 04/10/2021
Iván Iglesias Baena; Beatriz García Fontana; Francisco Andújar Vera; Cristina García Fontana; Sheila González Salvatierra; Luis Martínez Heredia; Raquel Sanabria de la Torre; Manuel Muñoz Torres.

- 12** **Title of the work:** Identification Of The Genetic Signature Of Vascular Calcification In Patients With Type 2diabetes Mellitus By A Computational Approach
Name of the conference: 22ND EUROPEAN CONGRESS OF ENDOCRINOLOGY
Type of participation: 'Participatory - poster
City of event: on line,
Date of event: 05/09/2020
End date: 07/09/2020
Francisco Aldújar-Vera; Cristina García-Fontana; Sheila González-Salvatierra; Manuel Muñoz-Torres; Beatriz García-Fontana.
- 13** **Title of the work:** Expresión De Esclerostina Y Osteoglicina En Tejido Vascular Y Estudio De Su Relación Con La Calcificación Vascular En Pacientes Con Diabetes Tipo 2.
Name of the conference: XXXI Congreso Nacional SED
Type of participation: 'Participatory - poster
City of event: on-line,
Date of event: 21/06/2020
End date: 23/06/2020
Sheila González-Salvatierra; Francisco Andújar-Vera; Cristina García-Fontana; Manuel Muñoz-Torres; Beatriz García-Fontana.
- 14** **Title of the work:** Determinantes de los valores de Trabecular Bone Score (TBS) en pacientes con Diabetes Mellitus tipo 2
Name of the conference: 60 Congreso SEEN
City of event: Bilbao, Spain
Date of event: 17/10/2019
End date: 19/10/2019
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
María Hayon POnce; María Dolores Avilés Pérez; Beatriz García Fontana; María del Carmen Serrano Laguna; Sheila González Salvatierra; Diego Becerra García; Manuel Muñoz Torres.
- 15** **Title of the work:** PAPEL DEL TRABECULAR BONE SCORE (TBS) EN EL RIESGO DE FRACTURAS EN PACIENTES CON ACROMEGALIA
Name of the conference: 60 Congreso SEEN
City of event: Bilbao, Spain
Date of event: 17/10/2019
End date: 19/10/2019
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- 16** **Title of the work:** CLONAJE DE ESCLEROSTINA RECOMBINANTE EN Leishmania tarentolae PARA EL ESTUDIO DE SU FUNCIÓN A NIVEL VASCULAR
Name of the conference: XXIV Congreso SEIOMM
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 16/10/2019
Organising entity: SEIOMM

- 17** **Title of the work:** Contribución de DXA-3D en la evaluación de la afectación ósea en pacientes con hiperparatiroidismo primario
Name of the conference: XXIV Congreso SEIOMM
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 16/10/2019
Organising entity: SEIOMM
- 18** **Title of the work:** Datos de referencia de mediciones óseas en modelos 3D de fémur proximal en población español con DXA: Proyecto SEIOMM - 3D-SHAPER
Name of the conference: XXIV Congreso SEIOMM
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 16/10/2019
Organising entity: SEIOMM
- 19** **Title of the work:** IDENTIFICACIÓN DE DOS NUEVAS MUTACIONES EN EL GEN ALPL ASOCIADAS A HYPOFOSFATASIA EN EL ADULTO. ENSAYOS DE VALIDACIÓN FENOTÍPICA.
Name of the conference: XXIV Congreso SEIOMM
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 16/10/2019
Organising entity: SEIOMM
- 20** **Title of the work:** IDENTIFICACIÓN DE FIRMA GENÉTICA Y DE NUEVOS GENES CANDIDATOS INVOLUCRADOS EN PROCESOS DE CALCIFICACIÓN VASCULAR EN PACIENTES CON DIABETES MELLITUS TIPO2 MEDIANTE UN ENFOQUE COMPUTACIONAL
Name of the conference: XXIV Congreso SEIOMM
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 16/10/2019
Organising entity: SEIOMM
- 21** **Title of the work:** Dietary patterns and nutritional adequacy and lifestyle factors among medical students of the University of Granada
Name of the conference: SciForum Nutrients 2019 – Nutritional Advances in the Prevention and Management of Chronic Disease
City of event: Barcelona, Spain
Date of event: 25/09/2019
End date: 27/09/2019
- 22** **Title of the work:** Structural Parameters of Proximal Femur by 3D Dual-Energy X-ray Absorptiometry in Patients with Primary Hyperparathyroidism
Name of the conference: ASBMR Annual Meeting
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Orlando, United States of America
Date of event: 20/09/2019



Organising entity: ASBMR

- 23** **Title of the work:** MAYORES NIVELES DE OSTEOCALCINA INFRACARBOXILADA ASOCIADOS A MEJORA DE LA HOMEOSTASIS GLUCÍDICA
Name of the conference: XXXVII Reunión Anual de la Sociedad Española de Epidemiología
City of event: Oviedo, Spain
Date of event: 03/09/2019
End date: 06/09/2019
Organising entity: SOCIEDAD ESPAÑOLA DE EPIDEMIOLOGIA
- 24** **Title of the work:** VALORES DE TRABECULAR BONE SCORE (TBS) E INSULINRESISTENCIA EN PACIENTES CON DIABETES MELLITUS TIPO 2
Name of the conference: XXX Congreso Nacional de la Sociedad Española de Diabetes
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 24/04/2019
End date: 26/04/2019
- 25** **Title of the work:** Relación entre Enfermedad Cardiovascular y Osteoporosis
Name of the conference: XXIII Congreso SEIOMM
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Granada, Andalusia, Spain
Date of event: 07/11/2018
End date: 09/11/2018
Organising entity: SEIOMM
Beatriz García Fontana.
- 26** **Title of the work:** EXPRESIÓN TRANSCRIPCIONAL DE ESCLEROSTINA Y OSTEOGLICINA EN TEJIDO VASCULAR. RELACIÓN CON LA CALCIFICACIÓN VASCULAR DE LA PLACA ATEROSCLERÓTICA EN PACIENTES CON DIABETES TIPO 2.
Name of the conference: XXIII Congreso SEIOMM
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 07/11/2018
End date: 09/11/2018
Organising entity: SEIOMM
- 27** **Title of the work:** Efectos de Zoledronato sobre la densidad mineral ósea y riesgo de fracturas en mujeres con osteoporosis posmenopáusica: Estudio de vida real a 10 años.
Name of the conference: XXIII Congreso SEIOMM
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 07/11/2018
End date: 09/11/2018
Organising entity: SEIOMM



- 28** **Title of the work:** UTILIDAD DE LA IMPLEMENTACIÓN DE UN PROTOCOLO PARA DETECTAR CASOS DE HIPOFOSFATASIA NO DIAGNOSTICADOS EN HOSPITALES DE TERCER NIVEL
Name of the conference: XXIII Congreso SEIOMM
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 07/11/2018
End date: 09/11/2018
Organising entity: SEIOMM
- 29** **Title of the work:** UTILIDAD DE LOS VALORES DE TRABECULAR BONE SCORE (TBS) PARA IDENTIFICAR LA FRAGILIDAD ÓSEA EN PACIENTES CON HIPERPARATIROIDISMO PRIMARIO
Name of the conference: XXIII Congreso SEIOMM
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 07/11/2018
End date: 09/11/2018
Organising entity: SEIOMM
- 30** **Title of the work:** PREVALENCE OF HYPOPHOSPHATASIA IN A REFERENCE HOSPITAL IN GRANADA (SPAIN)
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
Type of participation: 'Participatory - poster
City of event: Quebec, Montreal, Canada
Date of event: 27/09/2018
End date: 29/09/2018
Organising entity: ASBMR
- 31** **Title of the work:** New genetic variants of hypophosphatasia. Retrospective study of hypophosphatasia in Granada, Spain
Name of the conference: 70th AACC Annual Scientific Meeting
Type of participation: 'Participatory - poster
City of event: Chicago, United States of America
Date of event: 29/07/2018
End date: 02/08/2018
- 32** **Title of the work:** Utilidad de la puntuación del hueso trabecular (TBS) para identificar la fragilidad ósea en pacientes con hiperparatiroidismo primario (HPTP)
Name of the conference: 37 Congreso de la SEMNIM
Type of participation: Participatory - oral communication
City of event: Granada, Spain
Date of event: 20/06/2018
End date: 22/06/2018
Organising entity: SEMNIM
- 33** **Title of the work:** FRAGILITY INDEX IN TYPE 2 DIABETES FOR IDENTIFICATION OF PATIENTS WITH RISK OF OSTEOPOROTIC FRACTURE OR PREVALENT FRACTURES
Name of the conference: 20th European Congress of Endocrinology
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 19/05/2018
End date: 22/05/2018

Organising entity: ECE

34 Title of the work: HIGH LEVELS OF SCLEROSTIN ARE RELATED TO CARDIOVASCULAR MORTALITY

Name of the conference: 20th European Congress of Endocrinology

Type of participation: 'Participatory - poster

City of event: Barcelona, Spain

Date of event: 19/05/2018

End date: 22/05/2018

Organising entity: ECE

35 Title of the work: LEVELS OF SCEROSTIN IN SERUM AND FEMORAL VASCULAR TISSUE AND ITS RELATIONSHIP WITH ATHEROSCLEROSIS AND CARDIOVASCULAR MORTALITY IN PATIENTS WITH AND WITHOUT TYPE 2 DIABETES

Name of the conference: 20th European Congress of Endocrinology

Type of participation: 'Participatory - poster

City of event: Barcelona, Spain

Date of event: 19/05/2018

End date: 22/05/2018

Organising entity: ECE

36 Title of the work: Relationship between circulating 25-hydroxyvitamin D and glucose homeostasis in women with postmenopausal osteoporosis

Name of the conference: 20th European Congress of Endocrinology

Type of participation: 'Participatory - poster

City of event: Barcelona, Spain

Date of event: 19/05/2018

End date: 22/05/2018

Organising entity: ECE

37 Title of the work: IDENTIFICACIÓN DE MARCADORES GENÉTICOS COMUNES PARA LA DIABETES, ATHEROSCLEROSIS Y ENFERMEDAD RENAL CRÓNICA MEDIANTE UN ANÁLIS INTEGRADOR POR HERRAMIENTAS BIOINFORMÁTICAS

Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Diabetes

Type of participation: Participatory - oral communication

City of event: Bilbao, Spain

Date of event: 18/04/2018

End date: 20/04/2018

Organising entity: SED

38 Title of the work: NIVELES DE ESCLEROSTINA EN SUERO Y TEJIDO VASCULAR FEMORAL Y SU RELACIÓN CON ATHEROSCLEROSIS EN PACIENTES CON DIABETES TIPO 2

Name of the conference: XXIX Congreso Nacional de la Sociedad Española de Diabetes

Type of participation: 'Participatory - poster

City of event: Bilbao, Spain

Date of event: 18/04/2018

End date: 20/04/2018

Organising entity: SED

39 Title of the work: Levels of sclerostin in serum and femoral vascular tissue and its relationship with vascular calcification in patients with and without type 2 diabetes.

Name of the conference: 45th European Calcified Tissue Society Congress



Type of participation: 'Participatory - poster

City of event: Valencia, Spain

Date of event: 2018

Organising entity: ECTS

40 Title of the work: RETROSPECTIVE STUDY OF HYPOPHOSPHATASE PREVALENCE IN GRANADA IN 2016

Name of the conference: 45th European Calcified Tissue Society Congress

Type of participation: 'Participatory - poster

City of event: Valencia, Spain

Date of event: 2018

Organising entity: ECTS

41 Title of the work: Análisis comparativo de la expresión de esclerostina a nivel transcripcional e inmunohistoquímico en tejido vascular calcificado y no calcificado

Name of the conference: XXII Congreso SEIOMM

Type of participation: 'Participatory - poster

City of event: Elche, Spain

Date of event: 25/10/2017

End date: 27/10/2017

Organising entity: SEIOMM

42 Title of the work: Determinación de nuevos biomarcadores de calcificación vascular en pacientes con diabetes mellitus tipo 2 mediante el uso de herramientas bioinformáticas de libre acceso

Name of the conference: XXII Congreso SEIOMM

Type of participation: 'Participatory - poster

City of event: Elche, Spain

Date of event: 25/10/2017

End date: 27/10/2017

Organising entity: SEIOMM

43 Title of the work: Determinación de nuevos biomarcadores de calcificación vascular en pacientes con diabetes mellitus tipo 2 mediante el uso de herramientas bioinformáticas de libre acceso

Name of the conference: XXII Congreso SEIOMM

Type of participation: 'Participatory - poster

City of event: Elche, Spain

Date of event: 25/10/2017

End date: 27/10/2017

Organising entity: SEIOMM

44 Title of the work: Análisis comparativo de la expresión de esclerostina en tejido vascular calcificado de pacientes con diabetes tipo 2 y en tejido vascular no calcificado de sujetos sanos

Name of the conference: 59 Congreso de la SEEN

Type of participation: 'Participatory - poster

City of event: Barcelona, Spain

Date of event: 18/10/2017

End date: 20/10/2017

Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN)

Type of entity: Healthcare Institutions



- 45** **Title of the work:** Factores predictores de insulinoresistencia en mujeres postmenopáusicas
Name of the conference: 59 Congreso de la SEEN
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 18/10/2017
End date: 20/10/2017
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- 46** **Title of the work:** La deficiencia en 25 hidroxivitamina D está asociada a la enfermedad cardiovascular, a la calcificación vascular y al biomarcador osteogénico esclerostina
Name of the conference: 41 Congreso de la Sociedad Andaluza de Endocrinología, Diabetes y Nutrición.
Type of participation: Participatory - oral communication
City of event: 41 Congreso de la Sociedad Andaluza de Endocrinología, Diabetes y Nutrición. Granada, Andalusia, Spain
Date of event: 09/02/2017
End date: 11/02/2017
Organising entity: SAEDYN
- 47** **Title of the work:** Antioxidant Activity As An Aortic Calcification Marker In Type 2 Diabetes And Its Relation To Bone Metabolism Markers
Name of the conference: 44th European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Salzburg, Austria
Date of event: 2017
Organising entity: ECTS
- 48** **Title of the work:** ESCLEROSTINA CIRCULANTE Y SU RELACIÓN CON LA MORTALIDAD CARDIOVASCULAR
Name of the conference: XXI Congreso SEIOMM 2016
Type of participation: 'Participatory - poster
City of event: Gran Canaria, Spain
Date of event: 31/08/2016
End date: 15/09/2016
Organising entity: SEIOMM
- 49** **Title of the work:** Implicación del estrés oxidativo en la osteoporosis de pacientes con diabetes tipo 2.
Name of the conference: XXI Congreso SEIOMM 2016
Type of participation: 'Participatory - poster
City of event: Gran Canaria, Spain
Date of event: 31/08/2016
End date: 15/09/2016
Organising entity: SEIOMM
- 50** **Title of the work:** Trabecular bone score (TBS) en pacientes con diabetes mellitus tipo 2.
Name of the conference: XXI Congreso SEIOMM 2016
Type of participation: 'Participatory - poster
City of event: Gran Canaria, Spain
Date of event: 31/08/2016
End date: 15/09/2016
Organising entity: SEIOMM



- 51** **Title of the work:** Association between serum levels of ppar γ and vertebral fractures in type 2 diabetes mellitus patients.
Name of the conference: 43th European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Roma, Italy
Date of event: 14/05/2016
Organising entity: ECTS
- 52** **Title of the work:** Irisina, homeostasis de la insulina y esteatosis hepática, en pacientes no diabéticos con infección por el VIH.
Name of the conference: XXVII Congreso Nacional de la Sociedad Española de Diabetes
Type of participation: Participatory - oral communication
City of event: Bilbao, Spain
Date of event: 20/04/2016
End date: 22/04/2016
Organising entity: SED
- 53** **Title of the work:** Impaired trabecular bone score (tbs) in patients with primary hyperparathyroidism.
Name of the conference: World Congress on Osteoporosis, Osteoarthritis and Musculoskeletal Diseases
Type of participation: 'Participatory - poster
City of event: Málaga, Spain
Date of event: 2016
- 54** **Title of the work:** Irisina, homeostasis de la insulina y arteriosclerosis subclínica en pacientes no diabéticos con infección por el VIH.
Name of the conference: 58 Congreso de la Sociedad Española de Endocrinología y Nutrición
Type of participation: 'Participatory - poster
City of event: Málaga, Spain
Date of event: 2016
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- 55** **Title of the work:** Análisis del Trabecular Bone Score (TBS) en el hiperparatiroidismo primario.
Name of the conference: XX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 21/10/2015
End date: 23/10/2015
Organising entity: SEIOMM
- 56** **Title of the work:** Irisina, homeostasis de la insulina y esteatosis hepática, en pacientes no diabéticos con infección por el VIH.
Name of the conference: XX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 21/10/2015
End date: 23/10/2015
Organising entity: SEIOMM



- 57** **Title of the work:** LAS FRACTURAS VERTEBRALES EN PACIENTES CON DIABETES TIPO 2 ESTÁN ASOCIADAS A ELEVADOS NIVELES DEL RECEPTOR ACTIVADO POR PROLIFERACIÓN DE PEROXISOMAS.
Name of the conference: XX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 21/10/2015
End date: 23/10/2015
Organising entity: SEIOMM
- 58** **Title of the work:** LOS NIVELES DE PPARG ESTÁN ASOCIADOS CON LA SUPRESIÓN DE LA VÍA WNT, LA CALCIFICACIÓN AÓRTICA Y LA ENFERMEDAD CARDIOVASCULAR EN DIABETES TIPO 2.
Name of the conference: XX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 21/10/2015
End date: 23/10/2015
Organising entity: SEIOMM
- 59** **Title of the work:** PERFIL DE USO CLÍNICO Y RESULTADOS DE DENOSUMAB, TERIPARATIDA Y ZOLEDRONATO EN MUJERES CON OSTEOPOROSIS POSTMENOPÁUSICA
Name of the conference: XX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 21/10/2015
End date: 23/10/2015
Organising entity: SEIOMM
- 60** **Title of the work:** IMPAIRED TRABECULAR BONE SCORE (TBS) IN PATIENTS WITH PRIMARY HYPERPARATHYROIDISM.
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
Type of participation: 'Participatory - poster
City of event: Seattle, Washington,
Date of event: 09/10/2015
Organising entity: ASBMR
- 61** **Title of the work:** Los niveles circulantes de PPAR γ están asociados con enfermedad cardiovascular y fracturas en Diabetes mellitus tipo 2.
Name of the conference: 57 Congreso de la Sociedad Española de Endocrinología y Nutrición
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 27/05/2015
End date: 29/05/2015
Organising entity: SEEN
- 62** **Title of the work:** RELACIÓN ENTRE NIVELES SÉRICOS DE MIOSTATINA E IRISINA EN PACIENTES CON DIABETES MELLITUS TIPO 2 COMO MECANISMO COMPENSADOR DE UN ESTADO METABÓLICO DESFAVORABLE.

Name of the conference: 57 Congreso de la Sociedad Española de Endocrinología y Nutrición

Type of participation: Participatory - oral communication

City of event: Madrid, Spain

Date of event: 27/05/2015

End date: 29/05/2015

Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN)

Type of entity: Healthcare Institutions

63 Title of the work: Low Serum 25-Hydroxyvitamin D Levels are Associated with Wnt Signalling Pathway in Cardiovascular Disease.

Name of the conference: 43th European Calcified Tissue Society Congress

Type of participation: 'Participatory - poster

City of event: Rotterdam, Holland

Date of event: 25/04/2015

Organising entity: ECTS

64 Title of the work: Concentraciones de miostatina y resistencia a la insulina en mujeres postmenopáusicas.
Name of the conference: XXXV Congreso Nacional de la Sociedad Española de Medicina Interna (SEMI), IV Congreso Ibérico de Medicina Interna y II Congreso de la Sociedad de Medicina Interna de la Región de Murcia

Type of participation: 'Participatory - poster

City of event: Murcia, Spain

Date of event: 19/11/2014

End date: 21/11/2014

Organising entity: SEMI, SOMIMUR

65 Title of the work: Efectos del tratamiento antirresortivo y osteoanabólico sobre el metabolismo energético: Papel hormonal de proteínas óseas y musculoesqueléticas.

Name of the conference: XXXV Congreso Nacional de la Sociedad Española de Medicina Interna (SEMI), IV Congreso Ibérico de Medicina Interna y II Congreso de la Sociedad de Medicina Interna de la Región de Murcia

Type of participation: Participatory - oral communication

City of event: Murcia, Spain

Date of event: 19/11/2014

End date: 21/11/2014

Organising entity: SEMI, SOMIMUR

66 Title of the work: Esclerostina circulante y enfermedad cardiovascular en pacientes con diabetes mellitus tipo 2.

Name of the conference: 39 Congreso de la Sociedad Andaluza de Endocrinología y Nutrición

Type of participation: Participatory - oral communication

City of event: Almería, Spain

Date of event: 13/11/2014

End date: 15/11/2014

Organising entity: SAEN

67 Title of the work: Fármacos antiosteoporóticos y metabolismo energético: Papel hormonal de proteínas óseas y musculoesqueléticas.

Name of the conference: 39 Congreso de la Sociedad Andaluza de Endocrinología y Nutrición

Type of participation: 'Participatory - poster

City of event: Almería, Spain

Date of event: 13/11/2014

End date: 15/11/2014
Organising entity: SAEN

68 **Title of the work:** Papel de la miostatina en la homeostasis hidrocarbonada en mujeres postmenopáusicas.
Name of the conference: 39 Congreso de la Sociedad Andaluza de Endocrinología y Nutrición
Type of participation: 'Participatory - poster
City of event: Almería, Spain
Date of event: 13/11/2014
End date: 15/11/2014
Organising entity: SAEN

69 **Title of the work:** Bajos niveles de 25 hidroxi-vitamina D como represores de la vía de señalización WNT en calcificación aórtica y aterosclerosis
Name of the conference: XIX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: Participatory - oral communication
City of event: Santiago de Compostela, Spain
Date of event: 05/11/2014
End date: 07/11/2014
Organising entity: SEIOMM

70 **Title of the work:** Efectos del tratamiento antirresortivo y osteoanabólico sobre el metabolismo energético: Papel hormonal de proteínas óseas y musculoesqueléticas.
Name of the conference: XIX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Spain
Date of event: 05/11/2014
End date: 07/11/2014
Organising entity: SEIOMM

71 **Title of the work:** Relación entre niveles séricos de miostatina y metabolismo óseo en pacientes con diabetes mellitus tipo 2 y controles sanos.
Name of the conference: XIX Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Spain
Date of event: 05/11/2014
End date: 07/11/2014
Organising entity: SEIOMM

72 **Title of the work:** CIRCULATING SCLEROSTIN AS A PREDICTOR OF CARDIOVASCULAR EVENTS IN TYPE 2 DIABETES PATIENTS
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
City of event: Houston, Texas,
Date of event: 12/09/2014
Organising entity: ASBMR

73 **Title of the work:** Determinants of serum sclerostin in postmenopausal women.
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
City of event: Houston, Texas,

Date of event: 12/09/2014
Organising entity: ASBMR

- 74** **Title of the work:** Identificación de biomarcadores y nuevas proteínas relacionadas con la enfermedad aterosclerótica en pacientes con diabetes mellitus tipo 2.
Name of the conference: XXXVII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 10/09/2014
End date: 12/09/2014
Organising entity: SEBBM
- 75** **Title of the work:** Metabolomic analysis of serum samples from diabetic patients with and without cardiovascular disease and control subjects.
Name of the conference: XXXVII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 10/09/2014
End date: 12/09/2014
Organising entity: SEBBM
- 76** **Title of the work:** BÚSQUEDA DE BIOMARCADORES Y NUEVAS PROTEÍNAS RELACIONADAS CON LA ENFERMEDAD ATEROSCLERÓTICA EN PACIENTES CON DIABETES MELLITUS TIPO 2.
Name of the conference: 56 Congreso de la Sociedad Española de Endocrinología y Nutrición
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 21/05/2014
End date: 23/05/2014
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- 77** **Title of the work:** CONTRIBUTION OF CIRCULATING SCLEROSTIN AND ESTRADIOL FOR INADEQUATE RESPONSE TO BISPHOSPHONATE THERAPY IN WOMEN WITH POSTMENOPAUSAL OSTEOPOROSIS.
Name of the conference: 42th European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 17/05/2014
Organising entity: ECTS
- 78** **Title of the work:** Circulating myostatin in type 2 diabetes subjects: relationship with bone metabolism and fractures.
Name of the conference: 42th European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 17/05/2014
Organising entity: ECTS
- 79** **Title of the work:** Concentraciones de miostatina y resistencia a la insulina en mujeres postmenopáusicas.
Name of the conference: XXV Congreso Nacional de la Sociedad Española de Diabetes
Type of participation: Participatory - oral communication

City of event: Pamplona, Spain

Date of event: 03/04/2014

End date: 05/04/2014

Organising entity: SED

- 80** **Title of the work:** Niveles circulantes de esclerostina en mujeres postmenopáusicas en riesgo de osteoporosis.
Name of the conference: XVIII Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: Participatory - oral communication
City of event: Tarragona, Spain
Date of event: 13/11/2013
End date: 15/11/2013
Organising entity: SEIOMM
- 81** **Title of the work:** Relación de DICKKOPF-1 (DKK1) con la enfermedad aterosclerótica y el metabolismo óseo en pacientes con diabetes mellitus tipo 2.
Name of the conference: XVIII Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral
Type of participation: Participatory - oral communication
City of event: Tarragona, Spain
Date of event: 13/11/2013
End date: 15/11/2013
Organising entity: SEIOMM
- 82** **Title of the work:** SERUM DICKKOPF1 (DKK1): RELATIONSHIP WITH BONE METABOLISM AND ATHEROSCLEROTIC DISEASE IN TYPE 2 DIABETES MELLITUS.
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
Type of participation: 'Participatory - poster
City of event: Baltimore, Maryland,
Date of event: 04/10/2013
Organising entity: ASBMR
- 83** **Title of the work:** Influence of sex steroids on sclerostin levels in patients with prostate cáncer.
Name of the conference: 41 European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Lisboa, Portugal
Date of event: 18/05/2013
Organising entity: ECTS
- 84** **Title of the work:** Usefulness of bone turnover markers in the evaluation of fracture risk in type 2 diabetes mellitus.
Name of the conference: 41 European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Lisboa, Portugal
Date of event: 18/05/2013
Organising entity: ECTS
- 85** **Title of the work:** Factores determinantes de las concentraciones séricas de esclerostina en una cohorte de pacientes evaluados en una unidad de metabolismo óseo.
Name of the conference: 55 Congreso de la Sociedad Española de Endocrinología y Nutrición

Type of participation: Participatory - oral communication

City of event: Granada, Spain

Date of event: 15/05/2013

End date: 17/05/2013

Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN)

Type of entity: Healthcare Institutions

86 Title of the work: Papel de la osteocalcina en la regulación del Metabolismo energético: resultados preliminares de un estudio de cohortes prospectivo.

Name of the conference: 55 Congreso de la Sociedad Española de Endocrinología y Nutrición

Type of participation: Participatory - oral communication

City of event: Granada, Spain

Date of event: 15/05/2013

End date: 17/05/2013

Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN)

Type of entity: Healthcare Institutions

87 Title of the work: Cambios en el metabolismo hidrocarbonado durante el tratamiento antiosteoporótico: resultados preliminares de un estudio de cohortes prospectivo.

Name of the conference: XVII Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral

Type of participation: 'Participatory - poster

City of event: Cuenca, Spain

Date of event: 24/10/2012

End date: 26/10/2012

Organising entity: SEIOMM

88 Title of the work: La esclerostina está asociada a la aterosclerosis en pacientes con Diabetes mellitus tipo 2.

Name of the conference: XVII Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral

Type of participation: 'Participatory - poster

City of event: Cuenca, Spain

Date of event: 24/10/2012

End date: 26/10/2012

Organising entity: SEIOMM

89 Title of the work: Los elevados niveles de esclerostina circulante en pacientes con cáncer de próstata aumentan con el tratamiento de privación androgénica.

Name of the conference: XVII Congreso de la Sociedad Española de Investigación Ósea y Metabolismo Mineral

Type of participation: Participatory - oral communication

City of event: Cuenca, Spain

Date of event: 24/10/2012

End date: 26/10/2012

Organising entity: SEIOMM

90 Title of the work: Levels of serum sclerostin are related with atherosclerotic disease in type 2 diabetes.

Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)

Type of participation: 'Participatory - poster

City of event: Baltimore, Maryland,

Date of event: 12/10/2012

Organising entity: ASBMR

- 91** **Title of the work:** Relationship between serum sclerostin and sex steroids in prostate cancer patients.
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
Type of participation: 'Participatory - poster
City of event: Baltimore, Maryland,
Date of event: 12/10/2012
Organising entity: ASBMR
- 92** **Title of the work:** Identification of biomarkers in diabetes mellitus patients by serum proteomic analysis
Name of the conference: 22nd IUBMB & 37th FEBS Congress
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 04/09/2012
Organising entity: IUBMB & FEBS
En: FEBS Journal, Volume 279 (Suppl 1); 229.
- 93** **Title of the work:** Factores determinantes de las concentraciones séricas de esclerostina en la diabetes mellitus tipo 2.
Name of the conference: 54º Congreso Sociedad Española de Endocrinología y Nutrición
Type of participation: 'Participatory - poster
City of event: Oviedo, Spain
Date of event: 23/05/2012
End date: 25/05/2012
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- 94** **Title of the work:** Increasing levels of serum sclerostin, an osteocyte-expressed negative regulator of bone formation, are associated with atherosclerotic disease in type 2 diabetes
Name of the conference: 39 European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Estocolmo, Sweden
Date of event: 19/05/2012
Organising entity: ECTS
En: Bone 50 (Suppl 1), S175.
- 95** **Title of the work:** Sclerostin serum levels are increased in prostate cancer patients
Name of the conference: 39 European Calcified Tissue Society Congress
Type of participation: 'Participatory - poster
City of event: Estocolmo, Sweden
Date of event: 19/05/2012
Organising entity: ECTS
En: Bone 50 (Suppl 1), S181.
- 96** **Title of the work:** El aumento de esclerostina sérica está asociado a enfermedad cardiovascular en pacientes con diabetes mellitus tipo 2.
Name of the conference: 36º Congreso de la sociedad andaluza de endocrinología y nutrición
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 17/11/2011
End date: 19/11/2011



Organising entity: SAEDYN

- 97** **Title of the work:** Papel de la esclerostina en el metabolismo óseo de pacientes con diabetes mellitus tipo 2.
Name of the conference: XVI Congreso de la Sociedad Española de Investigación Ósea y del Metabolismo Mineral
Type of participation: Participatory - oral communication
City of event: Coruña, Spain
Date of event: 02/11/2011
End date: 04/11/2011
Organising entity: SEIOMM
- 98** **Title of the work:** Circulating Levels of Sclerostin Are Increased In Patients With Type 2 Diabetes Mellitus
Name of the conference: Annual Meeting of American Society for Bone and Mineral Research (ASBMR)
Type of participation: 'Participatory - poster
City of event: San Diego, California,
Date of event: 10/2011
Organising entity: ASBMR
En: J Bone Miner Res 26 (Suppl 1)..
- 99** **Title of the work:** Análisis proteómico en sueros de pacientes diabéticos mediante la técnica DIGE (Differential in-Gel Electrophoresis). Identificación de biomarcadores.
Name of the conference: XXXV Congreso de la sociedad andaluza de endocrinología y nutrición. I Jornadas Multidisciplinares de diabetes
Type of participation: 'Participatory - poster
City of event: Jaén, Spain
Date of event: 11/11/2010
End date: 12/11/2010
Organising entity: SAEDYN
- 100** **Title of the work:** Cuantificación de pentosidina en suero de pacientes diabéticos mediante cromatografía líquida acoplada a espectrometría de masas (LC/MS).
Name of the conference: XXXV Congreso de la sociedad andaluza de endocrinología y nutrición. I Jornadas Multidisciplinares de diabetes
Type of participation: 'Participatory - poster
City of event: Jaén, Spain
Date of event: 11/11/2010
End date: 12/11/2010
Organising entity: SAEDYN
- 101** **Title of the work:** Identificación de biomarcadores de enfermedad cardiovascular en pacientes con diabetes mellitus tipo 2.
Name of the conference: XXXV Congreso de la sociedad andaluza de endocrinología y nutrición. I Jornadas Multidisciplinares de diabetes
Type of participation: 'Participatory - poster
City of event: Jaén, Spain
Date of event: 11/11/2010
End date: 12/11/2010
Organising entity: SAEDYN



102 Title of the work: Pentosidina como biomarcador de riesgo de fracturas en pacientes diabéticos.
Name of the conference: XXXV Congreso de la sociedad andaluza de endocrinología y nutrición. I Jornadas Multidisciplinares de diabetes
Type of participation: 'Participatory - poster
City of event: Jaén, Spain
Date of event: 11/11/2010
End date: 12/11/2010
Organising entity: SAEDYN

103 Title of the work: PAPEL DEL TRABECULAR BONE SCORE (TBS) EN EL RIESGO DE FRACTURAS EN PACIENTES CON ACROMEGALIA
Name of the conference: 60 Congreso SEEN 2019
City of event: Bilbao, Basque Country, Spain
Organising entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Miembro de la Junta Directiva de SEIOMM
Start-End date: 01/01/2025 - 31/12/2027
- 2 Committee title:** Member of the Bioexpert Network for the evaluation of national and international projects of biotechnology companies
Affiliation entity: Bioexpert Network
Start date: 03/03/2022
- 3 Committee title:** Member of the medical advisory committee of the Spanish Association of Inherited Rickets and Osteomalacia (AERyOH)
Affiliation entity: AERyOH **Type of entity:** Associations and Groups
City affiliation entity: Madrid, Spain
Start date: 01/04/2020

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Italian Institute for Genomic Medicine (IIGM) **Type of entity:** Public Research Body
City of entity: Turin, Italy
Start-End date: 08/06/2022 - 07/09/2022 **Duration:** 3 months
Funding entity: European Molecular Biology Organization
Goals of the stay: Post-doctoral
- 2 Entity:** Instituto de Parasitología y Biomedicina López-Neyra
City of entity: Granada, Spain
Start-End date: 01/01/2010 - 31/12/2012
Goals of the stay: Doctorate



- 3** **Entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
City of entity: Madrid, Spain
Start date: 02/07/2017
Goals of the stay: Post-doctoral

Obtained grants and scholarships

Name of the grant: EMBO Exchange Grant
Aims: Post-doctoral
Awarding entity: European Molecular Biology Organization (EMBO)
Conferral date: 22/03/2022 **Duration:** 3 months
Entity where activity was carried out: Italian Institute for Molecular Medicine

Scientific societies and professional associations

- 1** **Name of the society:** Grupo PAIDI BIO269 Respuesta del aparato fotosintético a estrés abiótico y biótico
Affiliation entity: PAIDI
Start-End date: 24/03/2008 - 12/05/2010
- 2** **Name of the society:** European Society of Endocrinology and Hormone Research
Affiliation entity: ESE
Start date: 12/02/2018
- 3** **Name of the society:** Sociedad Española de Diabetes
Affiliation entity: SED
Start date: 17/01/2018
- 4** **Name of the society:** European Calcified Tissue Society
Affiliation entity: ECTS
Start date: 2015
- 5** **Name of the society:** Sociedad Española de Endocrinología y Nutrición
Affiliation entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
Start date: 2014
- 6** **Name of the society:** Sociedad Española de Investigación Ósea y Metabolismo Mineral
Affiliation entity: SEIOMM
Start date: 2012
- 7** **Name of the society:** Grupo PAIDI CTS 633 Metabolismo óseo
Affiliation entity: PAIDI
Start date: 17/04/2010
- 8** **Name of the society:** Sociedad Española de Bioquímica y Biología Molecular
Affiliation entity: SEBBM
Start date: 2010



- 9 Name of the society:** Red temática de investigación cooperativa en envejecimiento y fragilidad
Affiliation entity: RETICEF
Start date: 2008

Prizes, mentions and distinctions

- 1 Description:** Premio Mejor Comunicación en Diabetes 64 Congreso SEEN
Awarding entity: Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
Conferral date: 24/10/2023
- 2 Description:** Premio Italfármaco al mejor póster clínico "DETERMINACIÓN DE LA PATOGENICIDAD DE VARIANTES DE SIGNIFICADO INCIERTO EN EL GEN ALPL ASOCIADAS A HIPOFOSFATASIA ADULTA A TRAVÉS DE CARACTERIZACIÓN FENOTÍPICA, FUNCIONAL Y ESTRUCTURAL" en el XXVI Congreso SEIOMM
Awarding entity: SEIOMM **Type of entity:** Foundation
City awarding entity: Madrid, Andalusia, Spain
Conferral date: 07/10/2022
- 3 Description:** Premio Italfármaco a la mejor Comunicación Oral Clínica "IDENTIFICACIÓN DE FIRMA GENÉTICA Y DE NUEVOS GENES CANDIDATOS INVOLUCRADOS EN PROCESOS DE CALCIFICACIÓN VASCULAR EN PACIENTES CON DIABETES MELLITUS TIPO 2 MEDIANTE UN ENFOQUE COMPUTACIONAL" en el XXV Congreso SEIOMM
Awarding entity: SEIOMM **Type of entity:** Foundation
City awarding entity: Vitoria, Andalusia, Spain
Conferral date: 29/10/2021
- 4 Description:** Premio extraordinario de doctorado en el área de Ciencias de la Salud
Awarding entity: Universidad de Granada **Type of entity:** University
City awarding entity: Granada, Andalusia, Spain
Conferral date: 07/10/2019
- 5 Description:** Beca FEIOMM de investigación traslacional para la realización del proyecto "Clonaje y expresión de esclerostina recombinante para el estudio de su función a nivel vascular"
Awarding entity: FEIOMM
Conferral date: 09/11/2018
- 6 Description:** PREMIO AL MEJOR CASO PRESENTADO EN ENDOCRINOLOGÍA
Awarding entity: Saedyn **Type of entity:** Sociedad Científica
Conferral date: 16/06/2018
- 7 Description:** Beca FEIOMM de investigación clínica para la realización del proyecto "ESTUDIO RETROSPECTIVO DE PREVALENCIA DE HIPOFOSFATASIA EN GRANADA"
Awarding entity: FEIOMM
Conferral date: 27/10/2017
- 8 Description:** PREMIOS ITALFÁRMACO-SEIOMM 2017 al MEJOR ESTUDIO SOBRE VITAMINA D
Awarding entity: SEIOMM **Type of entity:** Sociedad Científica
Conferral date: 27/10/2017



- 9** **Description:** Beca de investigación básica para la realización del proyecto “Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Cristalización, abordaje estructural y evaluación de su bloqueo como aproximación terapéutica para el tratamiento de la osteoporosis y aterosclerosis”.
- Awarding entity:** Sociedad Española de Endocrinología y Nutrición (SEEN) **Type of entity:** Healthcare Institutions
- Conferral date:** 21/10/2016
- 10** **Description:** Beca FEIOMM de investigación básica para la realización del proyecto “Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Cristalización, abordaje estructural y evaluación de su bloqueo como aproximación terapéutica para el tratamiento de la osteoporosis y aterosclerosis”
- Awarding entity:** FEIOMM
- Conferral date:** 23/10/2015
- 11** **Description:** Beca de Investigación básica para la realización del proyecto “Identificación de las vías de conexión entre calcificación vascular y mineralización ósea en diabetes mellitus tipo 2. Cristalización y abordaje estructural como futura aproximación terapéutica de la osteoporosis y aterosclerosis
- Awarding entity:** SAEDYN
- Conferral date:** 2015
- 12** **Description:** Premio a la mejor comunicación en diabetes. Esclerostina circulante y enfermedad cardiovascular en pacientes con diabetes tipo 2
- Awarding entity:** SAEN
- Conferral date:** 15/11/2014
- 13** **Description:** Premio Italfármaco-SEIOMM 2014 al mejor Poster Clínico. Relación entre niveles séricos de miostatina y metabolismo óseo en pacientes con diabetes mellitus tipo 2
- Awarding entity:** SEIOMM
- Conferral date:** 07/11/2014
- 14** **Description:** Premio Italfármaco-SEIOMM 2013 al mejor Poster Clínico. FGF-23 y diabetes mellitus tipo 2: relación con el metabolismo óseo y la afectación vascular
- Awarding entity:** SEIOMM
- Conferral date:** 15/11/2013
- 15** **Description:** Mejor comunicación de póster básico “La esclerostina está asociada a la aterosclerosis en pacientes con diabetes mellitus tipo 2”
- Awarding entity:** SEIOMM
- Conferral date:** 26/10/2012
- 16** **Description:** Premio de la Fundación de La Sociedad Española de Endocrinología y Nutrición (FSEEN) a la Trayectoria de un Grupo
- Awarding entity:** FSEEN
- Conferral date:** 2012
- 17** **Description:** Premio al Mejor Póster sobre Investigación Clínica por el trabajo Papel de la esclerostina en el metabolismo óseo de pacientes con diabetes mellitus tipo 2
- Awarding entity:** SEIOMM
- Conferral date:** 04/11/2011