



**Jesus Ruiz-Cabello Osuna**

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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.

Jesús Ruiz-Cabello graduated in Chemistry from the Universidad de Granada in 1986 and obtained his Ph.D. in Pharmaceutical Physical Chemistry at the Universidad Complutense de Madrid (UCM) in 1990 with honors. He has been a Professor of Physical Chemistry at UCM since 2010. Since 2018, he has held an IKERBASQUE research professorship at the CIC Biomagune. He was the Head of the Advanced Imaging Unit of the Spanish Cardiovascular Research Center (CNIC) for five years until February 2017 when he returned to his previous faculty position at UCM. Since 2008, he has also been a member of the Ciber of Respiratory Diseases (Ciberes) as head of one of the associated research groups. Since 2015, he has been the Assistant Director of Research of Ciberes.

He has led several EU initiatives and coordinated a Marie Curie European network project. He has participated in over 57 projects funded on a competitive basis, 43 of which as IP or co-IP (including 5 European projects) and six as coordinator (including one European project). He is a co-author of over 225 articles and book chapters.

He is the co-inventor of eight patents, seven of which are European and one utility model. He was a founding partner of the technology-based company Numio Technologies (Numio Tecnologías SL), which is still in business.

His current research focuses on pulmonary hypertension and other cardiovascular diseases, such as atherosclerosis. He is addressing the identification of new imaging, biosignals, and systems biology-derived markers helpful in diagnosing and monitoring new treatments for these diseases, particularly in the role of new molecular and functional imaging techniques in the early diagnosis of vascular remodeling, assessing associated metabolic changes, and evaluating cardio-vascular coupling.

B.1. Breve descripción del Trabajo de Fin de Grado (TFG) y puntuación obtenida

My doctoral thesis was about non-denaturing purification procedures of main myelin proteins (Basic protein and Proteolipid). The conducted experiments originated two direct publications in the European Biophysical Journal.



## 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.

Total number of articles: 265 contributions (237 articles in Web of science and book chapters, 1 book)

H-INDEX: 45 (Web of Science/January 2024)

Total number of citations: 7217 (Web of Science Enero 2024: 14 articles with more than 100 citations.

16 articles as first author, 19 as second, and 50 as last author (around same numbers as co-senior author)

Average citations/item (total): 22

Number of doctoral thesis: 14 (currently around same number finishing and on-going)

Number of patents: 8 (five European, 7 patents and 1 utility model)



## Jesus Ruiz-Cabello Osuna

**Surname(s):** Ruiz-Cabello Osuna  
**Name:** Jesus  
**ORCID:** 0000-0001-8681-5056  
**ScopusID:** 7003625720  
**ResearcherID:** A-9570-2012  
**Date of birth:** 27/04/1963  
**Gender:** Male  
**Nationality:** Spain  
**Country of birth:** Spain  
**Aut. region/reg. of birth:** Community of Madrid  
**City of birth:** Atarfe  
**Contact aut. region/reg.:** Basque Country  
**Personal web page:** www.mfbiomarkers.com

### Current professional situation

**Employing entity:** ASOCIACION CIC biomaGUNE **Type of entity:** R&D Centre  
**Professional category:** Ikerbasque Professor  
**Start date:** 01/01/2018  
**Type of contract:** Permanent employment contract **Dedication regime:** Full time  
**Primary (UNESCO code):** 230700 - Physical chemistry  
**Secondary (UNESCO code):** 230000 - Chemistry; 240600 - Biophysics  
**Performed tasks:** Responsible of the new group "Molecular and Functional Biomarkers"  
**Identify key words:** Nuclear magnetic resonance; Biomedicine

**Employing entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Department:** Química Física II, Facultad de Farmacia  
**Professional category:** Professor  
**Start date:** 15/02/2017  
**Type of contract:** Permanent employment contract **Dedication regime:** Full time

**Employing entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**Professional category:** Scientific Assistant Director  
**Start date:** 01/12/2016  
**Type of contract:** Temporary **Dedication regime:** Part time  
**Performed tasks:** Member of the steering committee of the CIBER of Respiratory Diseases (CIBERES). A multidisciplinary research network with 34 Spanish groups.

**Employing entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**Professional category:** Director of Research Group  
**Start date:** 2008

**Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
<b>1</b>	Universidad Complutense de Madrid	Professor	15/02/2017
<b>2</b>	FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III	Head of Unit	15/02/2012
<b>3</b>	Universidad Complutense de Madrid	Catedrático de Universidad / Full Professor	2010
<b>4</b>	Johns Hopkins University	Staff scientist	2005
<b>5</b>	Universidad Complutense de Madrid	Prof.Titular de Universidad / Associate professor	1993
<b>6</b>	Universidad Complutense de Madrid	Titular de E.U. / College lecturer	1992
<b>7</b>	Universidad Complutense de Madrid	Ayudante de E.U./ Assistant to college lecturer	1990
<b>8</b>	Georgetown University	MEC-Fulbright Fellow	1990
<b>9</b>	Universidad Complutense de Madrid	PFPI Fellow	1987
<b>10</b>	CIC biomaGUNE	Ikerbasque Professor	01/01/2018

**1** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University

**Professional category:** Professor

**Start-End date:** 15/02/2017 - 31/12/2017

**2** **Employing entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III

**Professional category:** Head of Unit

**Start-End date:** 15/02/2012 - 14/02/2017

**Duration:** 5 years

**3** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University

**Professional category:** Catedrático de Universidad / Full Professor

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

**4** **Employing entity:** Johns Hopkins University **Type of entity:** University

**Professional category:** Staff scientist

**Start-End date:** 2005 - 2006

**5** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University

**Professional category:** Prof.Titular de Universidad / Associate professor

**Start-End date:** 1993 - 2000

**6** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University

**Professional category:** Titular de E.U. / College lecturer

**Start-End date:** 1992 - 1993



- 7** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Professional category:** Ayudante de E.U./ Assistant to college lecturer  
**Start-End date:** 1990 - 1992
- 8** **Employing entity:** Georgetown University **Type of entity:** University  
**Professional category:** MEC-Fulbright Fellow  
**Start-End date:** 1990 - 1992
- 9** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Professional category:** PFPI Fellow  
**Start-End date:** 1987 - 1990
- 10** **Employing entity:** CIC biomaGUNE **Type of entity:** R&D Centre  
**Department:** MOLECULAR AND FUNCTIONAL BIOMARKERS LAB  
**City employing entity:** Donostia/San Sebastián, Basque Country, Spain  
**Professional category:** Ikerbasque Professor **Educational Management (Yes/No):** No  
**Phone:** (+34) 943005329 **Email:** jruizcabello@cicbiomagune.es  
**Start date:** 01/01/2018  
**Type of contract:** Permanent employment contract  
**Dedication regime:** Full time  
**Performed tasks:** Responsable grupo investigación  
**Identify key words:** Nuclear magnetic resonance; physical instrumentation in biomedicine  
**Field of management activity:** Spanish Autonomous Region



## Education

### University education

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

**University degree:** Higher degree

**Name of qualification:** Licenciado en Ciencias Químicas Sección Química Fundamental Opción Química Orgánica

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

**Date of qualification:** 1986

#### Doctorates

**Doctorate programme:** Química-Física Farmacéutica

**Degree awarding entity:** Universidad Complutense de Madrid      **Type of entity:** University

**Date of degree:** 1990

**Special doctorate award:** Yes

**Date of award:** 1990

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		A1	A1	A1	A1
French		C1	B1	B1	B1

## Teaching experience

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

- Project title:** Characterization of environment-related endophenotypes in pulmonary hypertension Doctoral Thesis Lucía Fadón Padilla 2022

**Type of project:** Doctoral thesis

**Co-director of thesis:** Jesus Ruiz-Cabello Osuna; Edurne Berra

**Entity:** Universidad del País Vasco      **Type of entity:** University

**City of entity:** San Sebastian, Basque Country, Spain

**Student:** Lucía Fadón

**Obtained qualification:** Sobresaliente por Unanimidad. Cum laude

**Date of reading:** 02/03/2023

**European doctorate:** Yes

**Quality recognition:** Yes



- 2** **Project title:** Diseño de un sistema de bobinas de RF para aplicaciones de imagen de resonancia magnética en flúor.  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**Student:** Palmira Villa Valverde  
**Obtained qualification:** Sobresaliente por unanimidad  
**Date of reading:** 01/02/2023
- 3** **Project title:** Pulse sequence programming for fast imaging and implementation of complex algorithms for data processing, reconstruction and quantification of cardiac imaging  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Jesus Ruiz-Cabello Osuna; Ignacio Rodriguez Ramirez de Arellano  
**Entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Student:** Ehsan Yazdanparast  
**Obtained qualification:** Apto Cum Lauda Unanimidad  
**Date of reading:** 10/12/2020  
**European doctorate:** Yes  
**Quality recognition:** No
- 4** **Project title:** Mitochondrial Oxphos: The integrator of the cellular metabolic status  
**Co-director of thesis:** Jose Antonio Enriquez; Jesús Ruiz-Cabello  
**Entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Student:** Ana Victoria Lechuga Vieco  
**Obtained qualification:** Cum Laude por unanimidad  
**Date of reading:** 29/11/2018  
**European doctorate:** Yes  
**Quality recognition:** Yes
- 5** **Project title:** Nano-radiotrazadores y nanopartículas superparamagnéticas: síntesis, propiedades y aplicaciones en imagen molecular  
**Type of project:** Doctoral thesis  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Juan Pellico  
**Obtained qualification:** Cum Laude por unanimidad  
**Date of reading:** 29/04/2016  
**European doctorate:** No  
**Quality recognition:** Yes **Date of award:** 29/04/2016
- 6** **Project title:** Convergent functionalisation of micellar probes for oncology and cardiovascular in vivo imaging and therapy  
**Type of project:** Doctoral thesis  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Hugo Groult  
**Obtained qualification:** Cum Laude por Unanimidad  
**Date of reading:** 15/07/2015  
**European doctorate:** Yes **Date of recognition:** 15/07/2015  
**Quality recognition:** Yes **Date of award:** 15/07/2015





- 7** **Project title:** Síntesis y funcionalización covalente de nanopartículas superparamagnéticas para imagen biomédica  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Fernando Herranz Rabanal  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Beatriz Salinas Rodríguez  
**Obtained qualification:** Apto Cum Laude por unanimidad  
**Date of reading:** 20/11/2013
- 8** **Project title:** <sup>3</sup>He magnetic resonance imaging for the quantification of disease in the rat lung  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Andrés Santos Lleó  
**Entity:** Universidad Politécnica de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Angelos Kyriazis  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 20/02/2012
- 9** **Project title:** Análisis metabonómico para la identificación de biomarcadores en enfermedades respiratorias  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Ignacio Rodriguez Ramirez de Arellano  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** José Luis Izquierdo García  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 11/07/2011
- 10** **Project title:** Diseño de un modelo de cambios de nocicepción tras lesión medular en roedores, testado por técnicas de neurofisiología no invasiva  
**Type of project:** End of Master project  
**Co-director of thesis:** Julian Scott Taylor  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Eider Goiriena  
**Obtained qualification:** Notable  
**Date of reading:** 2009
- 11** **Project title:** La imagen de Resonancia Magnética de difusión de gases como herramienta de caracterización de la estructura y función pulmonares  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Ignacio Rodriguez Ramirez de Arellano  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** José Manuel Pérez Sánchez  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 11/04/2008
- 12** **Project title:** Optimización de parámetros de las funciones de enrejado usando algoritmos genéticos  
**Type of project:** End of Master project  
**Co-director of thesis:** Ignacio Rodriguez Ramirez de Arellano



**Entity:** Universidad Complutense de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Jose Izquierdo García  
**Date of reading:** 06/2007

**Type of entity:** University

**13 Project title:** Development of on-line NMR applications for the evaluation of fruit internal quality

**Type of project:** Doctoral thesis

**Entity:** Universidad Politécnica de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Natalia Hernández Sánchez  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 06/2006

**Type of entity:** University

**14 Project title:** Comspira3D: un enfoque unificado a la Resonancia Magnética de imágenes radial y espiral en tres dimensiones

**Type of project:** Work leading to an ASD

**Entity:** Universidad Complutense de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Jose Manuel Pérez Sánchez  
**Obtained qualification:** Sobresaliente  
**Date of reading:** 02/2006

**Type of entity:** University

**15 Project title:** Imágenes de Resonancia Magnética Nuclear usando gases nobles hiperpolarizados. Tratamiento del gas, optimización experimental y automatización instrumental

**Type of project:** Doctoral thesis

**Co-director of thesis:** Ignacio Rodriguez Ramirez de Arellano

**Entity:** Universidad Complutense de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Rigoberto Pérez de Alejo Fortún  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 03/2004

**Type of entity:** University

**16 Project title:** Uso de imagen de resonancia magnetica con gases hiperpolarizados en el estudio de enfermedades pulmonares

**Type of project:** Doctoral thesis

**Entity:** Universidad Complutense de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Ignacio Rodriguez Ramirez de Arellano  
**Obtained qualification:** Apto cum laude por unanimidad  
**Date of reading:** 02/2003

**Type of entity:** University

**17 Project title:** Optimización de la secuencia de pulsos y segmentación volumétrica de imágenes de Resonancia Magnética usando redes neuronales artificiales y algoritmos genéticos

**Type of project:** Work leading to an ASD

**Entity:** Universidad Complutense de Madrid  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Rigoberto Pérez de Alejo Fortún  
**Date of reading:** 09/2002

**Type of entity:** University



- 18** **Project title:** Nuevas aplicaciones de la Resonancia Magnética  
**Type of project:** Doctoral thesis  
**Entity:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Student:** Beatriz Carrero González  
**Obtained qualification:** Apto Cum Laude por unanimidad y Premio Extraordinario  
**Date of reading:** 05/1997

## Scientific and technological experience

### Scientific or technological activities

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

- 1** **Name of the project:** Applications of Oligosaccharides in Nanomedicine strategies  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** CNRS La Rochelle  
**City of entity:** La Rochelle, Aquitaine, France  
**Name principal investigator (PI, Co-PI...):** Hugo Groult; Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 3  
**Funding entity or bodies:** French National Research Agency (ANR)  
**City funding entity:** Paris, France  
**Name of the programme:** Young Researcher (JCJC) (AAPG 2022)  
**Code according to the funding entity:** NANOLIGO  
**Start-End date:** 01/01/2023 - 31/12/2026 **Duration:** 3 years  
**Total amount:** 45.000 €  
**Dedication regime:** Part time
- 2** **Name of the project:** Metal Modulation of Glucose Metabolism  
**Type of project:** Research and development, including transfer **Geographical area:** National  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián, Basque Country, Spain  
**Name principal investigator (PI, Co-PI...):** Susana Carregal Romero; Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 2 **Nª people/year:** 3  
**Funding entity or bodies:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**Type of participation:** Principal investigator  
**Name of the programme:** Collaborative PhD studentship Program 2022  
**Code according to the funding entity:** METAGLUC  
**Start-End date:** 01/04/2023 - 31/03/2026 **Duration:** 3 years  
**Total amount:** 68.802 €



- 3** **Name of the project:** New theranostic approaches in Pulmonary Hypertension: interventions in lifestyle (THERANOPH)  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián/Donostia, Basque Country, Spain  
**N° of researchers:** 6  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación **Type of entity:** Plan Nacional  
**Name of the programme:** Proyectos de Generación de Conocimiento  
**Code according to the funding entity:** PID2021-123238OB-I00  
**Start-End date:** 01/09/2022 - 31/08/2025  
**Total amount:** 386.000 €
- 4** **Name of the project:** Novel Applications in 19F Magnetic Resonance Imaging  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**Name principal investigator (PI, Co-PI....):** Jesus Ruiz-Cabello  
**Funding entity or bodies:** European Commission - H2020 **Type of entity:** Public Research Body  
**City funding entity:** Brussels, Belgium  
**Start-End date:** 01/02/2020 - 31/01/2024  
**Total amount:** 250.904,88 €
- 5** **Name of the project:** Gases radio-perfluorados como marcadores de ventilación para tomografía por emisión de positrones  
**Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services **Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** SAN SEBASTIAN, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** JORDI LLOP; JESUS RUIZ-CABELLO OSUNA  
**N° of researchers:** 2  
**Funding entity or bodies:** Instituto de Salud Carlos III **Type of entity:** Public Research Body  
**Type of participation:** Team member  
**Name of the programme:** Proyectos de desarrollo tecnológico en salud 2021 - DTS (AES 2021)  
**Code according to the funding entity:** DTS21-00008  
**Start-End date:** 01/01/2021 - 31/12/2023 **Duration:** 3 years  
**Total amount:** 95.480 €
- 6** **Name of the project:** Understanding how flow-driven inflammatory, metabolic and arterial remodeling pathways converge on feedback loops driving atherosclerosis progression: a unifying model to identify targets for therapy  
**Type of project:** Research and development, including transfer **Geographical area:** Non EU International  
**Degree of contribution:** Researcher  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián, Basque Country, Spain  
**N° of researchers:** 5  
**Type of participation:** Principal investigator  
**Name of the programme:** Fundacio La Caixa/Health Research Call 2020



**Start-End date:** 31/12/2020 - 30/12/2023

**Sub-project amount:** 124.630 €

**Dedication regime:** Part time

**7 Name of the project:** Envejecimiento saludable y Neurodegeneración: desvelando el papel de la mielina en el declive cognitivo mediante neuroimagen (MIELIMAGEN)

**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES

**City of entity:** San Sebastián, Basque Country, Spain

**Name principal investigator (PI, Co-PI...):** Pedro Ramos Cabrer; Jesus Ruiz-Cabello Osuna

**Nº of researchers:** 2

**Funding entity or bodies:**

Diputación de Guipuzcoa

**Type of entity:** Diputacion foral

**City funding entity:** San Sebastián, Basque Country, Spain

**Start-End date:** 01/06/2022 - 30/09/2023

**Total amount:** 141.958 €

**8 Name of the project:** María de Maeztu. MDM-2017-0720-18-2

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

**Geographical area:** National

**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES

**Name principal investigator (PI, Co-PI...):** Pedro Ramos; Jesús Ruiz-Cabello

**Funding entity or bodies:**

Agencia estatal de Investigación- AEI

**Start-End date:** 01/09/2019 - 31/08/2023

**Total amount:** 92.750 €

**9 Name of the project:** Nuevos biomarcadores para la caracterización integral de la disfunción vascular pulmonar: Evaluación de mecanismos moleculares y respuesta al tratamiento. SAF2017-84494-C2-1R

**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES

**Name principal investigator (PI, Co-PI...):** Jesús Ruiz-Cabello

**Funding entity or bodies:**

Agencia estatal de investigacion-AEI

**Start-End date:** 01/08/2019 - 31/07/2023

**Total amount:** 92.750 €

**10 Name of the project:** Novel applications in 19F Magnetic Resonance Imaging

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

**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES

**City of entity:** Donostia/San Sebastián, Basque Country, Spain

**Nº of researchers:** 15

**Funding entity or bodies:**

European Commission

**Type of entity:** Public Research Body

**City funding entity:** Brussels, Belgium

**Type of participation:** Principal investigator

**Name of the programme:** Initial Training Network

**Code according to the funding entity:** H2020-ITN-811382

**Start-End date:** 01/07/2019 - 30/06/2023

**Duration:** 4 years - 48 months



**Total amount:** 250.904,88 €  
**Dedication regime:** Part time

**Sub-project amount:** 250.904,88 €

- 11 Name of the project:** Innovation in Tuberculosis (INNOVA4TB)  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello  
**Funding entity or bodies:**  
European Commission-H2020  
**Start-End date:** 01/01/2019 - 31/12/2022  
**Total amount:** 18.400 €
- 12 Name of the project:** Increasing Energy to Achieve Healthy Aging and Greater Longevity.  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** Donostia- San Sebastian,  
**Name principal investigator (PI, Co-PI....):** Ian Holt; Jesús Ruiz-Cabello  
**Funding entity or bodies:**  
ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City funding entity:** Spain  
**Start-End date:** 01/11/2019 - 31/10/2022
- 13 Name of the project:** Ayudas de grupos de investigación del País Vasco: Area de ingeniería y arquitectura  
**Type of project:** Basic research (including archaeological digs, etc)  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** Manuel Graña Romay; Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 43  
**Name of the programme:** Ayudas a grupos de investigación del Gobierno Vasco  
**Code according to the funding entity:** IT1284-19  
**Start-End date:** 01/07/2019 - 30/06/2022  
**Total amount:** 200.000 €
- 14 Name of the project:** Early diagnosis of atherosclerotic plaque with nano-radiotracers for molecular imaging  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** Donostia/San Sebastián, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello  
**Nº of researchers:** 5  
**Name of the programme:** Ayudas Fundación BBVA a Equipos de Investigación Científica 2018  
**Code according to the funding entity:** Fundación BBVA  
**Start-End date:** 01/05/2019 - 30/04/2022  
**Total amount:** 125.000 € **Sub-project amount:** 125.000 €
- 15 Name of the project:** Smart CONductive Scaffolds for CARDiac Tissue Engineering  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** Donostia- San Sebastian,  
**Name principal investigator (PI, Co-PI....):** Mauricio Prato; Jesús Ruiz-Cabello  
**Funding entity or bodies:**  
ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City funding entity:** Spain  
**Start-End date:** 01/02/2020 - 31/01/2022





**Total amount:** 92.955,56 €

- 16 Name of the project:** Nanoterapia dirigida a inmunidad entrenada para la aceptación de transplante de órganos (B2017-BMD3731)  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** UNIVERSIDAD COMPLUTENSE DE MADRID  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI...):** Jordi Cano Ochando; Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 8  
**Funding entity or bodies:** Comunidad de Madrid  
**Type of entity:** Dirección General de Investigación e Innovación  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Principal investigator  
**Name of the programme:** Ayudas Biomedicina 2017  
**Code according to the funding entity:** B2017-BMD3731  
**Start-End date:** 01/01/2018 - 31/12/2021  
**Total amount:** 695.526 € **Sub-project amount:** 227.700 €
- 17 Name of the project:** Nuevos Biomarcadores para la caracterización integral de la disfunción vascular pulmonar: evaluación de mecanismos moleculares y respuesta al tratamiento SAF2017-84494-C2-1-R)  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** SAN SEBASTIÁN, Basque Country, Spain  
**Funding entity or bodies:** Ministerio de Economía, Industria y Competitividad  
**Type of entity:** State agency  
**City funding entity:** MADRID, Basque Country, Spain  
**Type of participation:** Co-ordinator  
**Name of the programme:** Programa estatal de I+D+i orientada a los retos de la sociedad  
**Code according to the funding entity:** SAF2017-84494-C2-1-R  
**Start-End date:** 01/01/2018 - 31/12/2021  
**Total amount:** 193.600 € **Sub-project amount:** 193.600 €
- 18 Name of the project:** Biomarcadores basados en imagen para diagnóstico en Hipertensión Pulmonar  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**Name principal investigator (PI, Co-PI...):** Jesús Ruiz-Cabello  
**Funding entity or bodies:** Gobierno Vasco  
**Type of entity:** other  
**City funding entity:** Spain  
**Start-End date:** 15/11/2019 - 14/11/2021  
**Total amount:** 45.338,04 €
- 19 Name of the project:** Biomarkers of early pulmonary hypertension: onset, stratification and treatment reponse.  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** Donostia- San Sebastian,



**Name principal investigator (PI, Co-PI....):** Edurne Berra; Jesús Ruiz-Cabello

**Funding entity or bodies:**

ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES

**City funding entity:** Spain

**Start-End date:** 15/11/2018 - 14/11/2021

**Total amount:** 33.038,82 €

- 20** **Name of the project:** Biomarcadores para el diagnóstico precoz y seguimiento en hipertensión pulmonar  
**Type of project:** Research and development, **Geographical area:** National including transfer  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián/Donostia, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 15  
**Funding entity or bodies:** Departamento de Desarrollo Económico e Infraestructuras **Type of entity:** Public Research Body  
**City funding entity:** Bilbao, Basque Country, Spain  
**Type of participation:** Co-ordinator  
**Name of the programme:** Elkartek  
**Code according to the funding entity:** KK-2019/00015  
**Start-End date:** 01/05/2019 - 30/04/2021  
**Total amount:** 1.088.135,7 € **Sub-project amount:** 1.088.135,7 €  
**Dedication regime:** Part time  
**Applicant's contribution:** Coordinator
- 21** **Name of the project:** Subclinical atherosclerosis characterization: nanoparticle-based molecular and cellular imaging  
**Type of project:** Research and development, **Geographical area:** European Union including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Jacob Bentzon; Jesus Ruiz-Cabello; Fernando Herranz  
**Nº of researchers:** 6  
**Name of the programme:** ERA-CVD. Joint Transnational Call for Proposals 2017: Mechanisms of early atherosclerosis and/or plaque instability in Coronary Artery Disease  
**Code according to the funding entity:** SCAN, JTC-2017\_44  
**Start-End date:** 01/05/2018 - 30/04/2021  
**Total amount:** 149.012,02 € **Sub-project amount:** 132 €
- 22** **Name of the project:** Development of surrogate markers of neutrophil infiltration: Prognostic tools in acute myocardial infarction.  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** Donostia- San Sebastian,  
**Name principal investigator (PI, Co-PI....):** Jordi Llop; Jesús Ruiz-Cabello  
**Funding entity or bodies:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City funding entity:** Spain





**Start-End date:** 01/02/2019 - 31/01/2021

**Total amount:** 92.750 €

- 23 Name of the project:** Proyecto Adquisición de laser multifotón  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** Jesus Ruiz-Cabello  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
 Diputación Foral de Gipuzkoa **Type of entity:** Programa Red guipuzcoana de ciencia, tecnología e innovación  
**City funding entity:** Donostia San Sebastián, Basque Country, Spain  
**Start-End date:** 26/08/2019 - 25/08/2020  
**Total amount:** 100.000 €

- 24 Name of the project:** Nuevos biomarcadores diagnósticos de disfunción vascular pulmonar  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**City of entity:** San Sebastián, Basque Country, Spain  
**Name principal investigator (PI, Co-PI....):** Jesus Ruiz-Cabello Osuna; Pedro Ramos Cabrer; Jordi Llop; Jose Luis Izquierdo García; Arnoldo Santos Oviedo  
**Nº of researchers:** 5  
**Funding entity or bodies:**  
 Diputación de Guipúzcoa **Type of entity:** Diputación  
**City funding entity:** San Sebastián, Basque Country, Spain  
**Type of participation:** Co-ordinator  
**Name of the programme:** Programa de Ayudas 2018. Programa de Red guipuzcoana de Ciencia, tecnología e innovación  
**Code according to the funding entity:** 2018-CIEN-000058-01  
**Start-End date:** 01/08/2018 - 31/07/2019  
**Total amount:** 125.834,1 €

- 25 Name of the project:** Infección respiratoria bacteriana asociada a la Enfermedad Pulmonar Obstructiva Crónica (EPOC)/enfisema: caracterización multi-nivel dual de un sistema modelo preclínico, y su aplicación a la valoración de nuevas terapias antimicrobianas  
**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**City of entity:** Pamplona, Foral Community of Navarre, Spain  
**Name principal investigator (PI, Co-PI....):** Junkal Garmendia; Andres Hidalgo; Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
 Gobierno de Navarra **Type of entity:** Consejería Sanidad  
**City funding entity:** Pamplona, Foral Community of Navarre, Spain  
**Type of participation:** Team member  
**Name of the programme:** Proyectos investigación de la Consejería Sanidad  
**Start-End date:** 01/12/2016 - 30/11/2018 **Duration:** 3 years  
**Total amount:** 58.442,95 €  
**Dedication regime:** Part time



- 26** **Name of the project:** Multifunctional nanomchimeras based in proteins as theranostic nano vehicles for therapy of myocardial infarction  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Marco Filice; Jesus Ruiz-Cabello  
**Nº of researchers:** 4  
**Type of participation:** Team member  
**Name of the programme:** Programa estatal de I+D+i orientada a los retos de la sociedad  
**Code according to the funding entity:** SAF2014-59118-JIN  
**Start-End date:** 31/07/2015 - 02/07/2018  
**Total amount:** 204.490 € **Sub-project amount:** 204.490 €
- 27** **Name of the project:** Early detection of pulmonary hypertension using novel positron emission tomography imaging techniques  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Samuel España Palomares; Jesus Ruiz-Cabello Osuna  
**Nº of researchers:** 8  
**Funding entity or bodies:** Ministerio de Eco **Type of entity:** Public Research Body  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Team member  
**Name of the programme:** Programa estatal de I+D+i orientada a los retos de la sociedad  
**Code according to the funding entity:** SAF2014-58920-R  
**Start-End date:** 01/04/2015 - 31/12/2017  
**Total amount:** 108.900 € **Sub-project amount:** 108.900 €
- 28** **Name of the project:** Inhibition of the Hypoxia Inducible Factor (HIF-1) for the atherosclerosis treatment. PI14-01427  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Jesus Mateo de Castro  
**Nº of researchers:** 7  
**Funding entity or bodies:** Instituto de la Salud Carlos III **Type of entity:** Public Research Body  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Name of the programme:** Inhibition of the Hypoxia Inducible Factor (HIF-1) for the atherosclerosis treatment  
**Code according to the funding entity:** PI14-01427  
**Start-End date:** 01/01/2015 - 31/12/2017  
**Total amount:** 117.370 € **Sub-project amount:** 117.370 €



- 29** **Name of the project:** CardioNext: Next generation training in cardiovascular research and innovation. Grant agreement no.: 608027  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**Name principal investigator (PI, Co-PI....):** Alicia García Arroyo; Jesus Ruiz-Cabello Osuna  
**Funding entity or bodies:** European Commission - Research Executive Agency **Type of entity:** EU  
**Type of participation:** Principal investigator  
**Name of the programme:** Initial training Networks. Marie Curie Actions  
**Code according to the funding entity:** FP7-ITN-PEOPLE-2013- 608027  
**Start-End date:** 01/09/2013 - 31/08/2017 **Duration:** 4 years  
**Total amount:** 2.736.019 € **Sub-project amount:** 430.125 €
- 30** **Name of the project:** RETICS/ Red de Terapia Celular  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**Name principal investigator (PI, Co-PI....):** Miguel Torres Sánchez  
**Funding entity or bodies:** Instituto de Salud Carlos III **Type of entity:** Public Research Body  
**City funding entity:** Majadahonda, Community of Madrid, Spain  
**Start-End date:** 2013 - 2016
- 31** **Name of the project:** Allogeneic adipose tissue-derived stem cells therapy in a porcine model of myocardial infarction: paracrine mechanisms, immune response and functional effects at short and long-term follow-up  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City of entity:** Spain  
**Name principal investigator (PI, Co-PI....):** Montserrat Rigol; Borja Ibáñez  
**Funding entity or bodies:** Fundacion La Marató  
**Type of participation:** Others  
**Name of the programme:** ADJUDICACIÓN DE AYUDAS ECONÓMICAS A PROYECTOS DE INVESTIGACIÓN SOBRE REGENERACIÓN Y TRASPLANTE DE ÓRGANOS Y TEJIDOS ( LAMARATO12 )  
**Code according to the funding entity:** 70/C/2012  
**Start-End date:** 11/2012 - 11/2015 **Duration:** 3 years  
**Total amount:** 150.000 €
- 32** **Name of the project:** Inmunidad tumoral e inmunoterapia del cáncer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**City of entity:** Madrid, Community of Madrid, Spain  
**Name principal investigator (PI, Co-PI....):** Juan Manuel García Segura  
**Nº of researchers:** 20

**Funding entity or bodies:**

Consejería de Educación Comunidad de Madrid

**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Others**Code according to the funding entity:** P2010/BMD-2326**Start-End date:** 2012 - 2014**Total amount:** 40.250 €**33 Name of the project:** Pulmonary Imaging Network**Geographical area:** European Union**Entity where project took place:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna**Nº of researchers:** 34**Funding entity or bodies:**

EU

**Type of participation:** Co-ordinator**Name of the programme:** Marie Curie Actions. Initial Training Network.**Code according to the funding entity:** FP7-PEOPLE-2010-ITN-264864**Start-End date:** 2010 - 2014**Total amount:** 3.043.599 €**Sub-project amount:** 693.742 €**34 Name of the project:** Biomarcadores de imagen y metabólicos en el daño pulmonar agudo (Ali-markers). Papel de cardiolipina y radicales libres**Type of project:** Research and development, including transfer**Degree of contribution:** Researcher**Entity where project took place:** Universidad Complutense de Madrid**Type of entity:** University**Name principal investigator (PI, Co-PI....):** Ignacio Rodriguez Ramirez de Arellano**Nº of researchers:** 9**Funding entity or bodies:**

Ministerio de economía y Competitividad

**Type of entity:** State agency**Type of participation:** Team member**Name of the programme:** Plan Nacional. Area Biomedicina**Code according to the funding entity:** SAF2011-25445**Start-End date:** 2012 - 2013**Total amount:** 72.600 €**Sub-project amount:** 72.600 €**35 Name of the project:** Prevención de la mortalidad y el daño pulmonar agudo asociada a shock hemorrágico traumático por el flavonoide quercetina, por imipramina y otros inhibidores de la esfingomielinasa ácida.**Entity where project took place:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III**Name principal investigator (PI, Co-PI....):** José Luis Álvarez-Sala Walter**Funding entity or bodies:**

La Fundación Mutua Madrileña

**Type of entity:** Foundation**Start-End date:** 2012 - 2013**Duration:** 1 year**Total amount:** 39.684 €**36 Name of the project:** Desarrollo de un sistema integral de la mejora de la calidad y seguridad de las frutas durante la confección, el transporte y la comercialización mediante nuevas tecnologías de inspección y monitorización



**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Code according to the funding entity:** Red temática 109RT0383  
**Start-End date:** 2009 - 2012  
**Total amount:** 15.000 €

**37 Name of the project:** Polarized Helium Lung Imaging Network (PHELINET)  
**Type of project:** Research and development, including transfer **Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 80  
**Funding entity or bodies:** EU  
**Type of participation:** Co-ordinator  
**Code according to the funding entity:** MRTN-CT-2006-036002  
**Start-End date:** 01/03/2007 - 28/02/2011  
**Total amount:** 3.702.749 € **Sub-project amount:** 181.559 €

**38 Name of the project:** Convenio de colaboración entre la Universidad Politécnica de Madrid y la UCM en el marco del proyecto europeo INSIDEFOOD  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Ignacio Rodriguez Ramirez de Arellano  
**Nº of researchers:** 2  
**Funding entity or bodies:** Universidad Politécnica de Madrid **Type of entity:** University  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Others  
**Name of the programme:** LOU contract  
**Start-End date:** 2010 - 2011  
**Total amount:** 15.000 €

**39 Name of the project:** Evaluación de los mecanismos fisiopatogénicos y del remodelado agudo y crónico en pulmón del ratón expuesto a humo de tabaco  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 12  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación **Type of entity:** MICINN  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Co-ordinator  
**Code according to the funding entity:** SAF2008-05412-C02-01



**Start-End date:** 2009 - 2011

**Total amount:** 160.930 €

- 40** **Name of the project:** Aplicaciones de la Resonancia Magnética en Biomedicina  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Ignacio Rodriguez Ramirez de Arellano  
**Nº of researchers:** 6  
**Funding entity or bodies:** Comunidad de Madrid and Universidad Complutense de Madrid  
**Type of participation:** Others  
**Code according to the funding entity:** CCG08-UCM/BIO-4051  
**Start-End date:** 2009 - 2009  
**Total amount:** 15.000 €
- 41** **Name of the project:** Imagen molecular y celular: síntesis de una librería de agentes de contraste multifuncionales  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Fernando Herranz Rabanal  
**Nº of researchers:** 6  
**Funding entity or bodies:** Comunidad de Madrid and Universidad Complutense de Madrid  
**Type of participation:** Others  
**Code according to the funding entity:** CCG08-UCM/MAT-403  
**Start-End date:** 2009 - 2009  
**Total amount:** 7.000 €
- 42** **Name of the project:** Aplicaciones en Resonancia Magnética Nuclear de nanopartículas magnéticas  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 5  
**Funding entity or bodies:** MINISTERIO DE EDUCACION Y CIENCIA  
**City funding entity:** Spain  
**Code according to the funding entity:** NAN2004-08805-CO4-03  
**Start-End date:** 01/01/2005 - 31/12/2008  
**Total amount:** 99.000 €
- 43** **Name of the project:** Línea C/T 35:Desarrollo de metodologías avanzadas para el análisis, mejora y control de las características de calidad y seguridad de los alimentos  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 5



**Funding entity or bodies:**

Comunidad de Madrid

**Type of entity:** CAM**City funding entity:** Madrid, Community of Madrid, Spain**Code according to the funding entity:** S-0505/AGR/0187**Start-End date:** 01/12/2005 - 30/09/2008**Total amount:** 120.500 €**44 Name of the project:** Grupo de aplicaciones de la Resonancia Magnética**Type of project:** Research and development, including transfer**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna**Nº of researchers:** 15**Funding entity or bodies:**

Comunidad de Madrid y Universidad Complutense Madrid

**Code according to the funding entity:** CCG07-UCM/BIO-2516**Start-End date:** 2008 - 2008**Total amount:** 15.300 €**45 Name of the project:** Desarrollos para un óptimo control no invasivo de patologías pulmonares en modelos animales por imagen de resonancia magnética con gases hiperpolarizados**Type of project:** Research and development, including transfer**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna**Nº of researchers:** 5**Funding entity or bodies:**

MINISTERIO DE EDUCACION Y CIENCIA

**City funding entity:** Spain**Code according to the funding entity:** HF2005-0019**Start-End date:** 01/01/2005 - 31/12/2007**Total amount:** 10.830 €**46 Name of the project:** Papel del sistema nitrérgico en el daño producido por la descompresión hipobárica en ratas postnatales y adultas**Type of project:** Research and development, including transfer**Degree of contribution:** Researcher**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University**Name principal investigator (PI, Co-PI....):** José Rodrigo García**Nº of researchers:** 9**Funding entity or bodies:**Comisión Interministerial de Ciencia y Tecnología **Type of entity:** CICYT**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Others**Code according to the funding entity:** SAF2003-04398-C02**Start-End date:** 15/12/2003 - 14/05/2007**Total amount:** 100.000 €



- 47** **Name of the project:** Validación de la Resonancia Magnética con gases nobles hiperpolarizados como herramienta de diagnóstico precoz de enfisema pulmonar  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Nº of researchers:** 11  
**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología **Type of entity:** CICYT  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Co-ordinator  
**Code according to the funding entity:** SAF2003-07678  
**Start-End date:** 15/12/2003 - 14/05/2006  
**Total amount:** 119.000 €
- 48** **Name of the project:** Producción y caracterización de nanopartículas magnéticas compuestas para su aplicación como agentes de contraste en diagnóstico de imagen por resonancia magnética  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Nº of researchers:** 4  
**Funding entity or bodies:** Ministerio de Educación y Ciencia.  
**Type of participation:** Others  
**Name of the programme:** Acción Integrada  
**Code according to the funding entity:** HA2003-0283  
**Start-End date:** 01/01/2004 - 31/12/2005  
**Total amount:** 5.202 €
- 49** **Name of the project:** Estudio del mecanismo de actuación de nuevos agentes de contraste en resonancia magnética preparados por pirólisis de aerosoles y vapores.  
**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** M del Puerto Morales Herrero  
**Nº of researchers:** 6  
**Funding entity or bodies:** Comunidad de Madrid **Type of entity:** CAM  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Others  
**Name of the programme:** Proy. Investigación Tecnologías  
**Code according to the funding entity:** 07N/0057/2002  
**Start-End date:** 2003 - 2005  
**Total amount:** 55.264 €
- 50** **Name of the project:** Polarized helium for imaging of the lung  
**Type of project:** Research and development, including transfer **Geographical area:** European Union





**Degree of contribution:** Researcher

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**N° of researchers:** 12

**Funding entity or bodies:**  
EU

**Type of participation:** Others

**Name of the programme:** V Framework programme

**Code according to the funding entity:** QLG1-CT-2000-01559

**Start-End date:** 01/12/2000 - 31/05/2004

**Total amount:** 1.360.725 €

**51 Name of the project:** Construcción de herramientas ION para acceso, visualización, gestión de datos heterogéneos a través de Internet.

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

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna

**N° of researchers:** 17

**Funding entity or bodies:**

Comisión Interministerial de Ciencia y Tecnología

**Type of entity:** CICYT

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

**Code according to the funding entity:** TIC2000-0376-P4-04

**Start-End date:** 07/11/2000 - 15/05/2004

**Total amount:** 21.035,43 €

**52 Name of the project:** Utilización de servidor de internet y construcción de herramientas virtuales para apoyo de la docencia de las asignaturas del Departamento de Química Física II

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

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna

**N° of researchers:** 4

**Funding entity or bodies:**

Universidad Complutense de Madrid

**Type of entity:** University

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

**Name of the programme:** Proyectos Innovación educativa.

**Code according to the funding entity:** PIE2002/19

**Start-End date:** 01/10/2002 - 30/09/2003

**Total amount:** 4.100 €

**53 Name of the project:** Sustratos termoplásticos biodegradables para regeneración de tejido óseo

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Leoncio Garrido Fernández

**N° of researchers:** 6

**Funding entity or bodies:**

Instituto de Salud Carlos III

**Type of entity:** Public Research Body



**Type of participation:** Others  
**Code according to the funding entity:** FIS01-1070  
**Start-End date:** 2001 - 2003  
**Total amount:** 29.750 €

**54 Name of the project:** Imagen funcional en pulmón por contraste con helio hiperpolarizado: puesta a punto utilizando modelos animales de enfisema pulmonar

**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Nº of researchers:** 8  
**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** CICYT  
**City funding entity:** Madrid, Community of Madrid, Spain

**Type of participation:** Co-ordinator  
**Code according to the funding entity:** SAF2000-0115  
**Start-End date:** 01/01/2001 - 31/12/2002  
**Total amount:** 108.783,19 €

**55 Name of the project:** Imagen de Resonancia Magnética de Helio polarizado en modelos animales de enfisema

**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Name principal investigator (PI, Co-PI...):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 8  
**Funding entity or bodies:** MINISTERIO DE ASUNTOS EXTERIORES  
**City funding entity:** Spain

**Name of the programme:** Acción Integrada  
**Code according to the funding entity:** HA1999-0032  
**Start-End date:** 01/01/2000 - 31/12/2001  
**Total amount:** 7.500 €

**56 Name of the project:** Implicación del óxido nítrico y adrenomedulina en un modelo de isquemia cerebral en ratas adultas

**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Name principal investigator (PI, Co-PI...):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 6  
**Funding entity or bodies:** Comunidad de Madrid  
**Type of entity:** CAM  
**City funding entity:** Madrid, Community of Madrid, Spain

**Code according to the funding entity:** CAM-08.5/0052.2  
**Start-End date:** 1999 - 2000  
**Total amount:** 4.173,83 €



- 57** **Name of the project:** Evaluación del diagnóstico y tratamiento de enfermedades infecciosas en modelos animales por técnicas de RMN.  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 5  
**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología **Type of entity:** CICYT  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Code according to the funding entity:** BIO97-0543  
**Start-End date:** 01/12/1997 - 01/12/1999  
**Total amount:** 92.435,66 €
- 58** **Name of the project:** Implicación del óxido nítrico y adrenomedulina en procesos isquémicos cerebrales  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Nº of researchers:** 14  
**Funding entity or bodies:** Comunidad de Madrid **Type of entity:** CAM  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Code according to the funding entity:** CAM-08.5/0007/1997  
**Start-End date:** 1998 - 1999  
**Total amount:** 47.999,04 €
- 59** **Name of the project:** Valoración de la participación del enzima oxido-nitrico-sintasa en procesos de isquemia/hipoxia cerebral desencadenados en animales de experimentación y humanos  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Nº of researchers:** 6  
**Funding entity or bodies:** Comunidad de Madrid **Type of entity:** CAM  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Name of the programme:** Acción Coordinada: 16702  
**Code according to the funding entity:** CAM-6656  
**Start-End date:** 1997 - 1998  
**Total amount:** 17.976 €
- 60** **Name of the project:** Desarrollo de métodos alternativos para la reparación de los iones del cartílago articular. Estudio por RMN.  
**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Luis López-Duran Stern  
**Nº of researchers:** 7  
**Funding entity or bodies:** Instituto de Salud Carlos III **Type of entity:** Public Research Body



**Type of participation:** Advisor  
**Code according to the funding entity:** 95/0483  
**Start-End date:** 1995 - 1998  
**Total amount:** 6.000 €

**61 Name of the project:** Estudio termodinámico y cinético de proteínas. Conformación de proteínas. Estructura de proteínas.

**Type of project:** Research and development, including transfer  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** M Cortijo Mérida

**Nº of researchers:** 8

**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** CICYT  
**City funding entity:** Madrid, Community of Madrid, Spain

**Code according to the funding entity:** PB91-0368

**Start-End date:** 1992 - 1996

**Total amount:** 269.964,6 €

**62 Name of the project:** Purificación y estudios conformacionales de las proteínas mayoritarias de la mielina bovina. Purificación de proteínas. Membranas biológicas. Conformación de proteínas

**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Manuel Cortijo Mérida

**Nº of researchers:** 7

**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** CICYT  
**City funding entity:** Madrid, Community of Madrid, Spain

**Type of participation:** Others

**Code according to the funding entity:** PB87-0083

**Start-End date:** 1988 - 1991

**Total amount:** 95.998,08 €

**63 Name of the project:** Ciber de Enfermedades respiratorias

**Type of project:** Research and development, including transfer  
**Entity where project took place:** Universidad Complutense de Madrid  
**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Ruiz-Cabello Ruiz-Cabello Osuna

**Nº of researchers:** 7

**Funding entity or bodies:** MINISTERIO DE SANIDAD Y CONSUMO  
**City funding entity:** Spain

**Code according to the funding entity:** CB06/06/1090

**Start date:** 2008

**Total amount:** 100.000 €

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

- 1** **Name of the project:** Extensión del contrato Desarrollo de un ventilador versátil multimodal compatible con imagen por resonancia magnética de gases hiperpolarizados.  
**Degree of contribution:** Colaborador  
**Name principal investigator (PI, Co-PI....):** Ignacio Rodriguez  
**Funding entity or bodies:**  
AstraZeneca Farmacéutica Spain **Type of entity:** Business  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start date:** 2011 **Duration:** 1 year  
**Total amount:** 10.000 €
- 2** **Name of the project:** Desarrollo de un ventilador versátil multimodal compatible con imagen por resonancia magnética de gases hiperpolarizados. Referencia en la UCM: 422/2009  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruíz-Cabello Osuna; Ignacio Rodriguez Ramirez de Arellano  
**Nº of researchers:** 2  
**Funding entity or bodies:**  
AstraZeneca Farmacéutica Spain **Type of entity:** Business  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start date:** 2009 **Duration:** 2 years  
**Total amount:** 45.500 €
- 3** **Name of the project:** Consorcio para el desarrollo de tecnologías avanzadas para la medicina (CDTEAM) con referencia 406/2008  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruíz-Cabello Osuna; Ignacio Rodriguez Ramires de Arellano; Jose Manuel Udías Udías  
**Nº of researchers:** 3  
**Funding entity or bodies:**  
Suinsa Medical Systems Duración  
**Start date:** 2008 **Duration:** 2 years  
**Total amount:** 40.000 €
- 4** **Name of the project:** Estudios preliminares para la aplicación de éteres corona fluorados en resonancia magnética pulmonar.  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Scientific coordinator  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Manuel Cortijo Mérida; Jesús Ruíz-Cabello Osuna  
**Funding entity or bodies:**



Air Products (Carbueros Metálicos).

**Start date:** 2005

**Duration:** 2 years

**Total amount:** 9.000 €

- 5 Name of the project:** Informe para la adquisición de dos instrumentos de RMN clínicos de alto y bajo campo.

**Entity where project took place:** Universidad Complutense de Madrid

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Rigoberto Pérez de Alejo; Jesús Ruiz-Cabello Osuna

**Funding entity or bodies:**

Centro Médico Los Madroños”

**Start date:** 2004

**Duration:** 1 year

**Total amount:** 3.000 €

- 6 Name of the project:** Informe para la adquisición de un instrumento de RMN para experimentación animal

**Entity where project took place:** Universidad Complutense de Madrid

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

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna

**Funding entity or bodies:**

Centro Nacional de Investigaciones Oncológicas

**Type of entity:** Healthcare Institutions

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

**Start date:** 2003

**Duration:** 1 year

**Total amount:** 0 €

- 7 Name of the project:** Desarrollo de aplicaciones de RMN para la evaluación de fruta en línea”. (New NMR on-line applications to evaluate fruit quality)

**Degree of contribution:** Consultor

**Name principal investigator (PI, Co-PI....):** Margarita Ruiz Altisent

**Funding entity or bodies:**

CICYT (AGL2001-3792-C02)

**Start date:** 2001

**Duration:** 3 years

**Total amount:** 12.000 €

- 8 Name of the project:** Construcción de dos bobinas de RF para imán clínico a 0.5 Tesla

**Entity where project took place:** Universidad Complutense de Madrid

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

**Entity where project took place:** Universidad Complutense de Madrid

**Type of entity:** University

**Name principal investigator (PI, Co-PI....):** Jesús Ruíz-Cabello Osuna

**Funding entity or bodies:**

The advanced technology center. Sheba Medical Center

**City funding entity:** Tel Hashomer, Israel

**Start date:** 1999

**Duration:** 1 year

**Total amount:** 78,47 €





- 9** **Name of the project:** Efecto de Heloxicam en la evolución de la osteoartritis experimental en conejo, con particular énfasis sobre la evaluación del daño del cartilago por una nueva técnica de imagen de resonancia magnética  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruíz-Cabello Osuna  
**Funding entity or bodies:** Fundación Jiménez Díaz **Type of entity:** Foundation  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start date:** 1996 **Duration:** 2 years  
**Total amount:** 2.400 €
- 10** **Name of the project:** Informe sobre la influencia (presencia de artefactos, efecto proyectil, etc.) de la presencia de un instrumento de anestesia construido con materiales no magnéticos para su uso clínico, cuando se localiza dentro de la línea de seguridad de un imán de RMN  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruíz-Cabello Osuna  
**Funding entity or bodies:** Hersill S.L.  
**Start date:** 1996 **Duration:** 1 year  
**Total amount:** 3.000 €
- 11** **Name of the project:** Medida del pH citoplasmático y vacuolar junto a medida de metabolitos con sondas de protones y fósforo de pulpa perfundida  
**Entity where project took place:** Universidad Complutense de Madrid  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Universidad Complutense de Madrid **Type of entity:** University  
**Name principal investigator (PI, Co-PI....):** Jesús Ruiz-Cabello Osuna  
**Funding entity or bodies:** Instituto del Frío **Type of entity:** State agency  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start date:** 1996 **Duration:** 4 years  
**Total amount:** 5.400 €
- 12** **Name of the project:** Eficacia de la naltrexona para bloquear la actividad cerebral inducida por cocaína o por agonistas cannabinoides, estudios de resonancia magnética funcional y de regulación de la expresión génica en cerebro de rata (Efficacy of Naltrexone to block the cerebral activity induced by cocaine or cannabinoid antagonists, fMRI studies and genetic regulations in rat brain)  
**Degree of contribution:** Responsible for the MRI experiments on animals.  
**Name principal investigator (PI, Co-PI....):** Jorge Manzanares  
**Participating entity/entities:** Universidad Complutense de Madrid  
**Funding entity or bodies:** Dupont. Psiquiatry Department / Research Center of the Hospital 12 de Octubre Madrid / the NMR Unit of the Complutense University



Total amount: 24.000 €

## Results

### Industrial and intellectual property

- 1 Title registered industrial property:** Array con forma volumétrica para Imagen de Resonancia Magnética  
**Inventors/authors/obtainers:** Andres Santos Lleó; Jesús Ruiz-Cabello Osuna; Palmira Villa Valverde  
**Entity holder of rights:** Universidad Complutense de Madrid  
**N° of application:** U202330363  
**Country of inscription:** Spain, Community of Madrid  
**Date of register:** 06/03/2023
- 2 Title registered industrial property:** METHOD FOR ESTIMATING THE VENTRICULAR STROKE VOLUME FROM THE PULMONARY ARTERY PRESSURE  
**Inventors/authors/obtainers:** Arnoldo Santos Oviedo  
**Entity holder of rights:** FUNDACION JIMENEZ DIAZ-UTE  
**N° of application:** EP23382143.8  
**Country of inscription:** Spain  
**Date of register:** 15/02/2023  
**Operating aut.region/region:** Community of Madrid, Spain  
**Companies:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
- 3 Title registered industrial property:** In vitro method for the diagnosis of tuberculosis  
**Inventors/authors/obtainers:** Iker Agirregomokorta Sevilla; Joseba Garrido Urkullo; Jose Luis Izquierdo; Jesus Ruiz-Cabello  
**Entity holder of rights:** ASOCIACIÓN CENTRO DE INVESTIGACION COOP. BIOMATERIALES  
**N° of application:** EP19383117.9  
**Country of inscription:** Spain  
**Date of register:** 16/12/2019
- 4 Title registered industrial property:** METHOD AND APPARATUS FOR THE CARDIOVASCULAR ASSESSMENT OF A SUBJECT IN NEED THEREOF  
**Inventors/authors/obtainers:** ARNOLDO DE JESUS SANTOS OVIEDO; JESUS M. RUIZ-CABELLO OSUNA  
**Entity holder of rights:** CONSORCIO CENTRO DE INVESTIGACIÓN BIOMÉDICA EN RED  
**N° of application:** EP18382080.2  
**Country of inscription:** Spain, Community of Madrid  
**Date of register:** 13/02/2018
- 5 Title registered industrial property:** FDG (Fluorodeoxyglucose (18F))-labeled red blood cells as diagnostic radiopharmaceuticals  
**Inventors/authors/obtainers:** Jesus Mateo de Castro; Samuel España Palomares; Jesus Ruiz-Cabello Osuna  
**Entity holder of rights:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**N° of application:** 16382230.7-1408  
**Country of inscription:** Germany, Berlin  
**Date of register:** 25/05/2016  
**Operating aut.region/region:** France / Spain / United Kingdom





- 6 Title registered industrial property:** Micellar nanoparticles containing antitumoral glycosides  
**Inventors/authors/obtainers:** Fernando Herranz; Jesús Ruiz-Cabello; Alfonso Mayoralas; Hugo Groult  
**Entity holder of rights:** FUNDACIÓN CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III Y UNIVERSIDAD COMPLUTENSE DE MADRID  
**Nº of application:** 14383093.4-1455  
**Date of register:** 17/02/2014  
**EU patent:** Yes
- 7 Title registered industrial property:** Single core radionuclide-metal oxide nanoparticles: a new biocompatible nano system for dual hot spot imaging  
**Inventors/authors/obtainers:** Fernando Herranz Rabanal; Jesus Ruiz-Cabello Osuna; Juan Pellico Sáez; Riju Bhavesh  
**Entity holder of rights:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**Nº of application:** EP3980807  
**Country of inscription:** Spain, Community of Madrid  
**Date of register:** 31/07/2014  
**Conferral date:** 2014  
**Operating aut.region/region:** Belgium / France / Germany / Spain
- 8 Title registered industrial property:** Nanopartículas recubiertas de gelatina.  
**Type of industrial property:** Patent of invention  
**Inventors/authors/obtainers:** Beatriz Salinas Rodríguez; Jesús Ruiz-Cabello Osuna; Fernando Herranz Rabanal  
**Entity holder of rights:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**Nº of application:** P201231038  
**Country of inscription:** Spain  
**Date of register:** 03/07/2012
- 9 Title registered industrial property:** Respirador versátil multi-modal compatible con Resonancia Magnética.  
**Type of industrial property:** Patent of invention  
**Inventors/authors/obtainers:** Manuel Cortijo; Jesús Ruiz-Cabello; Rigoberto Pérez de Alejo; Ignacio Rodríguez; Palmira Villa  
**Entity holder of rights:** Universidad Complutense de Madrid  
**Nº of application:** 200300363  
**Country of inscription:** Spain  
**Conferral date:** 01/12/2005



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1 Maria Muñoz\_Hernando; Paula Nogales; Irene Fernandez-Barahona; Jesus Ruiz-Cabello; Jacob F Bentzon; Fernando Herranz. Sphingomyelinase-responsive nanomicelles for targeting atherosclerosis. *Nanoscale*. 2024.

**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 6  
**Impact source:** ISI  
**Impact index in year of publication:** 6.7  
**Position of publication:** 43

**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Corresponding author:** No  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 178
- 2 Ignacio Rodriguez; Jose Luis Izquierdo-Garcia; Ehsan Yazdanparast; David Castejon; Jesus Ruiz-Cabello. Comparison of Algorithms to Compute Relaxation Time Maps in Magnetic Resonance Imaging. *Applied Sciences*. 13 - 7, pp. 4083 - 4083. 03/2023. Available on-line at: <<https://www.mdpi.com/2076-3417/13/7/4083>>.

**DOI:** 10.3390/app13074083  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 5  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 2.7  
**Position of publication:** 42

**Format:** Journal  
**Corresponding author:** No  
**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 90
- 3 Ramos-Cabrer; Ruiz-Cabello. Biomimetic and Functional Nanomaterials for Molecular Imaging. *Pharmaceutics*. MDPI, 2023.

**DOI:** 10.3390/pharmaceutics15061570  
**PMID:** 37376019  
**Type of production:** Scientific paper  
**Corresponding author:** Yes  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 5.4  
**Position of publication:** 50

**Category:** Science Edition - PHARMACOLOGY & PHARMACY  
**No. of journals in the cat.:** 278
- 4 Mitxelena-Iribarren, Oihane; Bujanda, Xabier; Zabalza, Laura; Alkorta, Janire; Lopez-Elorza, Aitziber; Gracia, Raquel; Dupin, Damien; Arana, Sergio; Ruiz-Cabello, Jesus; Mujika, Maite. Design and fabrication of a microfluidic system with embedded circular channels for rotary cell culture. *BIOTECHNOLOGY JOURNAL*. 2023. ISSN 1860-6768

**DOI:** 10.1002/biot.202300004  
**PMID:** 37100765

**Type of production:** Scientific paper

**Position of signature:** 9

**Total no. authors:** 10

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.726

**Position of publication:** 13

**Format:** Journal

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

**Corresponding author:** No

**Category:** Science Edition - BIOCHEMICAL RESEARCH METHODS

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

**No. of journals in the cat.:** 75

- 5** Morales-Cano D; Izquierdo-García JL; Barreira B; Esquivel-Ruiz S; Callejo M; Pandolfi R; Villa-Valverde P; Rodríguez I; Cogolludo A; Ruiz-Cabello J; Perez-Vizcaino F; Moreno L. Impact of a TAK-1 inhibitor as a single or as an add-on therapy to riociguat on the metabolic reprogramming and pulmonary hypertension in the SUGEN5416/hypoxia rat model. *Frontiers in pharmacology*. 14, pp. 1021535. 2023. ISSN 1663-9812

**DOI:** 10.3389/fphar.2023.1021535

**PMID:** 37063275

**Type of production:** Scientific paper

**Position of signature:** 10

**Total no. authors:** 12

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.988

**Position of publication:** 50

**Format:** Journal

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

**Corresponding author:** No

**Category:** Science Edition - PHARMACOLOGY & PHARMACY

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

**No. of journals in the cat.:** 279

- 6** Cardo L; Martínez-Parra L; Cesco M; Echeverría-Beistegui BM; Martínez-Moro M; Herrero-Álvarez N; Cabrerizo MB; Carregal-Romero S; Ramos-Cabrer P; Ruiz-Cabello J; Prato M. Luminescent Carbon Nanodots Doped with Gadolinium (III): Purification Criteria, Chemical and Biological Characterization of a New Dual Fluorescence/MR Imaging Agent. *Small*. pp. e2206442. 2023.

**DOI:** 10.1002/smll.202206442

**Type of production:** Scientific paper

**Position of signature:** 10

**Total no. authors:** 11

**Impact source:** SCOPUS

**Impact index in year of publication:** 18.9

**Position of publication:** 4

**Corresponding author:** No

**Category:** Biomaterials

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

**No. of journals in the cat.:** 112

- 7** Plou J; Valera PS; García I; Vila-Liarte D; Renero-Lecuna C; Ruiz-Cabello J; Carracedo A; Liz-Marzán LM. Machine Learning-Assisted High-Throughput SERS Classification of Cell Secretomes. *Small (Weinheim an der Bergstrasse, Germany)*. pp. e2207658. 2023. ISSN 1613-6810

**DOI:** 10.1002/smll.202207658

**PMID:** 37046181

**Type of production:** Scientific paper

**Position of signature:** 6

**Total no. authors:** 8

**Impact source:** SCOPUS

**Impact index in year of publication:** 15.153

**Position of publication:** 18

**Format:** Journal

**Corresponding author:** No

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

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

**No. of journals in the cat.:** 179



- 8** Pellico; Ruiz-Cabello; Herranz. Radiolabeled Iron Oxide Nanomaterials for Multimodal Nuclear Imaging and Positive Contrast Magnetic Resonance Imaging (MRI): A Review. ACS Applied Nano Materials. 6 - 22, pp. 20523 - 20528. 2023.  
**DOI:** 10.1021/acsanm.3c04269  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 3  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 5.9  
**Position of publication:** 98  
**Degree of contribution:** Author or co-author of review  
**Corresponding author:** No  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 344
- 9** Aiestaran-Zelaia, Irati; Jesus Sanchez-Guisado, Maria; Villar-Fernandez, Marina; Azkargorta, Mikel; Fadon-Padilla, Lucia; Fernandez-Pelayo, Uxo; Perez-Rodriguez, Diego; Ramos-Cabrer, Pedro; Spinazzola, Antonella; Elortza, Felix; Ruiz-Cabello, Jesus; Holt, Ian J.. 2 deoxy-D-glucose augments the mitochondrial respiratory chain in heart. SCIENTIFIC REPORTS. 12, 2022. Available on-line at: <<https://doi.org/10.1038/s41598-022-10168-1>>. ISSN 2045-2322  
**DOI:** 10.1038/s41598-022-10168-1  
**Type of production:** Scientific paper  
**Position of signature:** 11  
**Total no. authors:** 12  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 6.9  
**Position of publication:** 11  
**Corresponding author:** Yes  
**Category:** Multidisciplinary  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 120
- 10** Passannante, Rossana; Gomez-Vallejo, Vanessa; Cossio, Unai; Ruiz-Cabello, Jesus; Lekuona, Aitor; Salinas, Victor; Amado-Rodriguez, Laura; Albaiceta, Guillermo M.; Martin, Abraham; Rejc, Luka; Llop, Jordi. Assessment of Regional Lung Ventilation with Positron Emission Tomography Using the Radiofluorinated Gas [F-18]SF6: Application to an Animal Model of Impaired Ventilation. MOLECULAR IMAGING AND BIOLOGY. 2022. ISSN 1536-1632  
**DOI:** 10.1007/s11307-022-01773-7  
**Type of production:** Scientific paper  
**Position of signature:** 4  
**Total no. authors:** 11  
**Format:** Journal  
**Corresponding author:** No
- 11** Carregal-Romero, Susana; Groult, Hugo; Canadas, Olga; A-Gonzalez, Noelia; Lechuga-Vieco, Ana Victoria; Garcia-Fojeda, Belen; Herranz, Fernando; Pellico, Juan; Hidalgo, Andres; Casals, Cristina; Ruiz-Cabello, Jesus. Delayed alveolar clearance of nanoparticles through control of coating composition and interaction with lung surfactant protein A. BIOMATERIALS ADVANCES. 134, 2022. Available on-line at: <<https://doi.org/10.1016/j.msec.2021.112551>>.  
**DOI:** 10.1016/j.msec.2021.112551  
**Type of production:** Scientific paper  
**Position of signature:** 11  
**Total no. authors:** 11  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 17.2  
**Position of publication:** 13  
**Corresponding author:** Yes  
**Category:** Biomaterials  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 112
- 12** Lechuga-Vieco AV; Latorre-Pellicer A; Calvo E; Torroja C; Pellico J; Acín-Pérez R; García-Gil ML; Santos A; Bagwan N; Bonzon-Kulichenko E; Magni R; Benito M; Justo-Méndez R; Simon AK; Sánchez-Cabo F; Vázquez J; Ruiz-Cabello J; Enríquez JA. Heteroplasmy of Wild-Type Mitochondrial DNA Variants in Mice Causes Metabolic



Heart Disease With Pulmonary Hypertension and Frailty. *Circulation*. 145, pp. 1084 - 1101. 2022. Available on-line at: <<https://doi.org/10.1161/CIRCULATIONAHA.121.056286>>.

**DOI:** 10.1161/CIRCULATIONAHA.121.056286

**Type of production:** Scientific paper

**Position of signature:** 17

**Total no. authors:** 18

**Impact source:** SCOPUS

**Impact index in year of publication:** 40.5

**Position of publication:** 1

**Corresponding author:** No

**Category:** Cardiology and Cardiovascular Medicine

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

**No. of journals in the cat.:** 336

- 13** Carregal-Romero, Susana; Beatriz Miguel-Coello, Ana; Martinez-Parra, Lydia; Marti-Mateo, Yolanda; Hernansanz-Agustin, Pablo; Fernandez-Afonso, Yilian; Plaza-Garcia, Sandra; Gutierrez, Lucia; del Mar Munoz-Hernandez, Maria; Carrillo-Romero, Juliana; Pinol-Cancer, Marina; Lecante, Pierre; Blasco-Iturri, Zurine; Fadon, Lucia; Almansa-Garcia, Ana C.; Moller, Marco; Otaegui, Dorleta; Antonio Enriquez, Jose; Groult, Hugo; Ruiz-Cabello, Jesus. Ultrasmall Manganese Ferrites for In Vivo Catalase Mimicking Activity and Multimodal Bioimaging. *SMALL*. 2022. Available on-line at: <<https://doi.org/10.1002/sml.202106570>>.

**DOI:** 10.1002/sml.202106570

**Type of production:** Scientific paper

**Position of signature:** 20

**Total no. authors:** 20

**Impact source:** SCOPUS

**Impact index in year of publication:** 18.9

**Position of publication:** 4

**Corresponding author:** Yes

**Category:** Materials Science (miscellaneous)

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

**No. of journals in the cat.:** 112

- 14** Jesus Ruiz-Cabello; Iker A. Sevilla; Ekine Olaizola; Javier Bezos; Ana B. Miguel-Coello; Marta Muñoz-Mendoza; Marta Beraza; Joseba M. Garrido; Jose L. Izquierdo-Garcia. Benchtop nuclear magnetic resonance-based metabolomic approach for the diagnosis of bovine tuberculosis. *Transboundary and Emerging Diseases*. pp. tbed.14365 - tbed.14365. 10/2021. Available on-line at: <<https://onlinelibrary.wiley.com/doi/10.1111/tbed.14365>>.

**DOI:** 10.1111/tbed.14365

**Type of production:** Scientific paper

**Position of signature:** 1

**Total no. authors:** 9

**Impact source:** SCOPUS

**Impact index in year of publication:** 8.6

**Position of publication:** 3

**Format:** Journal

**Corresponding author:** No

**Category:** Veterinary (miscellaneous)

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

**No. of journals in the cat.:** 183

- 15** Ander Egimendia; Susana Carregal-Romero; Inaki Osorio-Querejeta; Daniel Padro; Jesus Ruiz-Cabello; David Otaegui; Pedro Ramos-Cabrer. Assessing the Potential of Molecular Imaging for Myelin Quantification in Organotypic Cultures. *PHARMACEUTICS*. 13 - 7, 07/2021.

**DOI:** 10.3390/pharmaceutics13070975

**Type of production:** Scientific paper

**Position of signature:** 5

**Total no. authors:** 7

**Impact source:** SCOPUS

**Impact index in year of publication:** 6.0

**Position of publication:** 44

**Format:** Journal

**Corresponding author:** No

**Category:** Pharmaceutical Science

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

**No. of journals in the cat.:** 171

- 16** David Figueiras-Rama; Jasmina Vasilijevic; Jose Jalife; Sami F. Noujaim; Jose M. Alfonso; Jose A. Nicolas-Avila; Celia Gutierrez; Noelia Zamarreno; Andres Hidalgo; Alejandro Bernabe; Christopher Pablo Cop; Daniela Ponce-Balbuena; Guadalupe Guerrero-Serna; Daniel Calle; Manuel Desco; Jesus Ruiz-Cabello; Amelia Nieto; Ana



Falcon. Human influenza A virus causes myocardial and cardiac-specific conduction system infections associated with early inflammation and premature death. *CARDIOVASCULAR RESEARCH*. 117 - 3, pp. 876 - 889. 03/2021. Available on-line at: <<https://doi.org/10.1093/cvr/cvaa117>>. ISSN 0008-6363

**DOI:** 10.1093/cvr/cvaa117

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 16

**Total no. authors:** 18

**Corresponding author:** No

**Impact source:** SCOPUS

**Category:** Cardiology and Cardiovascular Medicine

**Impact index in year of publication:** 16.0

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

**Position of publication:** 16

**No. of journals in the cat.:** 336

- 17** Ivan Menendez-Montes; Beatriz Escobar; Manuel J. Gomez; Teresa Albendea-Gomez; Beatriz Palacios; Elena Bonzon-Kulichenko; Jose Luis Izquierdo-Garcia; Ana Vanessa Alonso; Alessia Ferrarini; Luis Jesus Jimenez-Borreguero; Jesus Ruiz-Cabello; Jesus Vazquez; Silvia Martin-Puig. Activation of amino acid metabolic program in cardiac HIF1-alpha-deficient mice. *SCIENCE*. 24 - 2, 02/2021. Available on-line at: <<https://doi.org/10.1016/j.isci.2021.102124>>.

**DOI:** 10.1016/j.isci.2021.102124

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 11

**Total no. authors:** 13

**Corresponding author:** No

**Impact source:** SCOPUS

**Category:** Multidisciplinary

**Impact index in year of publication:** 5.7

**Position of publication:** 14

**No. of journals in the cat.:** 107

- 18** Sara Cogliati; Fernando Herranz; Jesus Ruiz-Cabello; Jose Antonio Enriquez. Digitonin concentration is determinant for mitochondrial supercomplexes analysis by BlueNative page. *Biochimica et biophysica acta. Bioenergetics*. 1862 - 1, pp. 148332 - 148332. 01/01/2021. Available on-line at: <<https://doi.org/10.1016/j.bbabi.2020.148332>>.

**DOI:** 10.1016/j.bbabi.2020.148332

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 4

**Corresponding author:** No

**Impact source:** SCOPUS

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

**Impact index in year of publication:** 7.7

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

**Position of publication:** 17

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

- 19** Manuel Arango, Juan; Padro, Daniel; Blanco, Jorge; Lopez-Fernandez, Sonia; Castellnou, Pilar; Villa-Valverde, Palmira; Ruiz-Cabello, Jesus; Martin, Abraham; Carril, Monica. Fluorine Labeling of Nanoparticles and In Vivo F-19 Magnetic Resonance Imaging. *ACS APPLIED MATERIALS & INTERFACES*. 13, 2021. ISSN 1944-8244

**DOI:** 10.1021/acsami.1c01291

**Type of production:** Scientific paper

**Position of signature:** 7

**Total no. authors:** 9

**Corresponding author:** No

**Impact source:** SCOPUS

**Category:** Materials Science (miscellaneous)

**Impact index in year of publication:** 14.4

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

**Position of publication:** 33

**No. of journals in the cat.:** 455





- 20** Groult, Hugo; Carregal-Romero, Susana; Castejon, David; Azkargorta, Mikel; Miguel-Coello, Ana-Beatriz; Pulagam, Krishna Reddy; Gomez-Vallejo, Vanessa; Cousin, Remi; Munoz-Caffarel, Maria; Lawrie, Charles H.; Llop, Jordi; Piot, Jean-Marie; Elortza, Felix; Maugard, Thierry; Ruiz-Cabello, Jesus; Fruitier-Arnaudin, Ingrid. Heparin length in the coating of extremely small iron oxide nanoparticles regulates in vivo theranostic applications. *Nanoscale*. 13, pp. 842 - 861. 2021. Available on-line at: <<https://doi.org/10.1039/d0nr06378a>>. ISSN 2040-3364  
**DOI:** 10.1039/d0nr06378a  
**Type of production:** Scientific paper  
**Position of signature:** 15  
**Total no. authors:** 16  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 13.4  
**Position of publication:** 38  
**Corresponding author:** Yes  
**Category:** Materials Science (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 455
- 21** Comella-del-Barrio, Patricia; Izquierdo-Garcia, Jose Luis; Gautier, Jacqueline; Coute Doresca, Mariette Jean; Campos-Olivas, Ramon; Santiveri, Clara M.; Muriel-Moreno, Beatriz; Prat-Aymerich, Cristina; Abellana, Rosa; Perez-Porcuna, Tomas M.; Cuevas, Luis E.; Ruiz-Cabello, Jesus; Dominguez, Jose. Urine NMR-based TB metabolic fingerprinting for the diagnosis of TB in children. *SCIENTIFIC REPORTS*. 11, 2021. Available on-line at: <<https://doi.org/10.1038/s41598-021-91545-0>>. ISSN 2045-2322  
**DOI:** 10.1038/s41598-021-91545-0  
**Type of production:** Scientific paper  
**Position of signature:** 12  
**Total no. authors:** 13  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 6.9  
**Position of publication:** 11  
**Corresponding author:** No  
**Category:** Multidisciplinary  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 120
- 22** Jose Luis Izquierdo-Garcia; Patricia Comella-del-Barrio; Ramon Campos-Olivas; Raquel Villar-Hernandez; Cristina Prat-Aymerich; Maria Luiza De Souza-Galvao; Maria Angeles Jimenez-Fuentes; Juan Ruiz-Manzano; Zoran Stojanovic; Adela Gonzalez; Mar Serra-Vidal; Esther Garcia-Garcia; Beatriz Muriel-Moreno; Joan Pau Millet; Israel Molina-Pinargote; Xavier Casas; Javier Santiago; Fina Sabria; Carmen Martos; Christian Herzmann; Jesus Ruiz-Cabello; Jose Dominguez. Discovery and validation of an NMR-based metabolomic profile in urine as TB biomarker. *SCIENTIFIC REPORTS*. 10 - 1, 12/2020. ISSN 2045-2322  
**DOI:** 10.1038/s41598-020-78999-4  
**Type of production:** Scientific paper  
**Position of signature:** 21  
**Total no. authors:** 22  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 6.9  
**Position of publication:** 11  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Multidisciplinary  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 120
- 23** Jose M Adrover; Juan Pellico; Irene Fernandez-Barahona; Sandra Martin-Salamanca; Jesus Ruiz-Cabello; Andres Hidalgo; Fernando Herranz. Thrombo-tag, an in vivo formed nanotracer for the detection of thrombi in mice by fast pre-targeted molecular imaging. *Nanoscale*. 139 - 6214, pp. 286 - 286. The Royal Society of Chemistry, 10/2020. Available on-line at: <<https://doi.org/10.1039/D0NR04538A>>. **DOI:** 10.1039/D0NR04538A  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 7  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 11.3  
**Position of publication:** 40  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Materials Science (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 455

- 24** Mario D Cordero; Jesus Ruiz-Cabello. Inflamm-ageing or inflammasom-ageing as independent events. *Aging* (Albany NY). 12 - 18, pp. 17759 - 17760. 09/2020. Available on-line at: <<https://doi.org/10.18632/aging.104108>>.  
**DOI:** 10.18632/aging.104108  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 2  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 4.0  
**Position of publication:** 20  
**Format:** Journal  
**Corresponding author:** Yes  
**Category:** Aging  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 35
- 25** Iñaki Robles-Vera; Nestor de la Visitation; Marta Toral; Manuel Sanchez; Miguel Romero; Manuel Gomez-Guzman; Tao Yang; Jose L Izquierdo-Garcia; Eduardo Guerra-Hernandez; Jesus Ruiz-Cabello; Mohan K Raizada; Francisco Perez-Vizcaino; Rosario Jimenez; Juan Duarte. Probiotic *Bifidobacterium breve* prevents DOCA-salt hypertension. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*. 34 - 10, pp. 13626 - 13640. John Wiley & Sons, Ltd, 08/2020. Available on-line at: <<https://doi.org/10.1096/fj.202001532R>>.  
**DOI:** 10.1096/fj.202001532R  
**Type of production:** Scientific paper  
**Position of signature:** 10  
**Total no. authors:** 14  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 7.9  
**Position of publication:** 51  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Biotechnology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 293
- 26** Carlos Velasco; Adriana Mota-Cobian; Ruben A Mota; Juan Pellico; Fernando Herranz; Carlos Galan-Arriola; Borja Ibañez; Jesus Ruiz-Cabello; Jesus Mateo; Samuel España. Quantitative assessment of myocardial blood flow and extracellular volume fraction using 68Ga-DOTA-PET: A feasibility and validation study in large animals. *Journal of nuclear cardiology*. 27 - 4, pp. 1249 - 1260. Springer International Publishing, 08/2020. Available on-line at: <<https://doi.org/10.1007/s12350-019-01694-z>>.  
**DOI:** 10.1007/s12350-019-01694-z  
**Type of production:** Scientific paper  
**Position of signature:** 8  
**Total no. authors:** 10  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 4.1  
**Position of publication:** 82  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Radiology, Nuclear Medicine and Imaging  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 288
- 27** Ana Victoria Lechuga-Vieco; Ana Latorre-Pellicer; Iain G Johnston; Gennaro Prota; Uzi Gileadi; Raquel Justo-Mendez; Rebeca Acin-Perez; Raquel Martinez-de-Mena; Jose Maria Fernandez-Toro; Daniel Jimenez-Blasco; Alfonso Mora; Jose A Nicolas-Avila; Demetrio J Santiago; Silvia G Priori; Juan Pedro Bolanos; Guadalupe Sabio; Luis Miguel Criado; Jesus Ruiz-Cabello; Vincenzo Cerundolo; Nick S Jones; Jose Antonio Enriquez. Cell identity and nucleo-mitochondrial genetic context modulate OXPHOS performance and determine somatic heteroplasmy dynamics. *Science Advances*. 6, pp. eaba5345 - eaba5345. 07/2020. Available on-line at: <<https://doi.org/10.1126/sciadv.aba5345>>.  
**DOI:** 10.1126/sciadv.aba5345  
**Type of production:** Scientific paper  
**Position of signature:** 18  
**Total no. authors:** 21  
**Impact source:** SCOPUS  
**Format:** Journal  
**Corresponding author:** No  
**Category:** Multidisciplinary





**Impact index in year of publication:** 16.6  
**Position of publication:** 3

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 110

- 28** Fabiola Marin-Aguilar; Beatriz Castejon-Vega; Elisabet Alcocer-Gomez; Debora Lendines-Cordero; Matthew A Cooper; Patricia de la Cruz; Eloisa Andujar-Pulido; Monica Perez-Alegre; Jordi Muntane; Antonio J Perez-Pulido; Bernhard Ryffel; Avril A B Robertson; Jesus Ruiz-Cabello; Pedro Bullon; Mario D Cordero. NLRP3 Inflammasome Inhibition by MCC950 in Aged Mice Improves Health via Enhanced Autophagy and PPAR $\alpha$  Activity. The journals of gerontology. Series A, Biological sciences and medical sciences. 75 - 8, pp. 1457 - 1464. 07/2020. Available on-line at: <<https://doi.org/10.1038/s41586-020-2551-y>>.

**DOI:** 10.1038/s41586-020-2551-y

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 13

**Total no. authors:** 15

**Impact source:** SCOPUS

**Category:** Geriatrics and Gerontology

**Impact index in year of publication:** 8.6

**Position of publication:** 3

**No. of journals in the cat.:** 96

- 29** Pablo Hernansanz-Agustin; Carmen Choya-Foces; Susana Carregal-Romero; Elena Ramos; Tamara Oliva; Tamara Villa-Piña; Laura Moreno; Alicia Izquierdo-Alvarez; J Daniel Cabrera-Garcia; Ana Cortes; Ana Victoria Lechuga-Vieco; Pooja Jadiya; Elisa Navarro; Esther Parada; Alejandra Palomino-Antolin; Daniel Tello; Rebeca Acin-Perez; Juan Carlos Rodriguez-Aguilera; Placido Navas; Angel Cogolludo; Ivan Lopez-Montero; Alvaro Martinez-Del-Pozo; Javier Egea; Manuela G Lopez; John W Elrod; Jesus Ruiz-Cabello; Anna Bogdanova; Jose Antonio Enriquez; Antonio Martinez-Ruiz. Na<sup>+</sup> controls hypoxic signalling by the mitochondrial respiratory chain. Nature. 48, pp. 158 - 5. Nature Publishing Group, 07/2020. Available on-line at: <<https://doi.org/10.1038/s41586-020-2551-y>>.

**DOI:** 10.1038/s41586-020-2551-y

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 26

**Total no. authors:** 29

**Impact source:** SCOPUS

**Category:** Multidisciplinary

**Impact index in year of publication:** 56.9

**Position of publication:** 1

**No. of journals in the cat.:** 110

- 30** Susana Carregal-Romero; Lucia Fadon; Eurne Berra; Jesus Ruiz-Cabello. MicroRNA Nanotherapeutics for Lung Targeting. Insights into Pulmonary Hypertension. International Journal of Molecular Sciences. 21 - 9, pp. 3253 - 23. Multidisciplinary Digital Publishing Institute, 05/2020. Available on-line at: <[papers3://publication/doi/10.3390/ijms21093253](https://papers3://publication/doi/10.3390/ijms21093253)>.

**DOI:** 10.3390/ijms21093253

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 4

**Total no. authors:** 4

**Corresponding author:** Yes

- 31** Irene Fernandez-Barahona; Maria Munoz-Hernando; Jesus Ruiz-Cabello; Fernando Herranz; Juan Pellico. Iron Oxide Nanoparticles: An Alternative for Positive Contrast in Magnetic Resonance Imaging. Inorganics. 8 - 4, pp. 28 - 22. Multidisciplinary Digital Publishing Institute, 04/2020. Available on-line at: <[papers3://publication/doi/10.3390/inorganics8040028](https://papers3://publication/doi/10.3390/inorganics8040028)>.

**DOI:** 10.3390/inorganics8040028

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 5

**Corresponding author:** No



- 32** Mario Augusto Izidoro; Alberto Cecconi; Maria Isabel Panadero; Jesus Mateo; Joanna Godzien; Jean Paul Vilchez; Angeles Lopez-Gonzalvez; Jesus Ruiz-Cabello; Borja Ibañez; Coral Barbas; Francisco J Ruperez. Plasma Metabolic Signature of Atherosclerosis Progression and Colchicine Treatment in Rabbits. *Scientific Reports*. 10 - 1, pp. 7072 - 9. Nature Publishing Group, 04/2020. Available on-line at: <https://doi.org/10.1038/s41598-020-63306-y>.  
**DOI:** 10.1038/s41598-020-63306-y  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 8  
**Total no. authors:** 11 **Corresponding author:** No
- 33** Diego Cañadas-Lozano; Fabiola Marin-Aguilar; Beatriz Castejon-Vega; Bernhard Ryffel; Jose M Navarro-Pando; Jesus Ruiz-Cabello; Elisabet Alcocer-Gomez; Pedro Bullon; Mario D Cordero. Blockade of the NLRP3 inflammasome improves metabolic health and lifespan in obese mice. *GeroScience*. 39 - 208, pp. 129 - 11. Springer International Publishing, 01/2020. Available on-line at: <https://doi.org/10.1007/s11357-019-00151-6>.  
**DOI:** 10.1007/s11357-019-00151-6  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 6  
**Total no. authors:** 9 **Corresponding author:** No
- 34** Fabiola Marin-Aguilar; Ana V Lechuga-Vieco; Elisabet Alcocer-Gomez; Beatriz Castejon-Vega; Javier Lucas; Carlos Garrido; Alejandro Peralta-Garcia; Antonio J Perez-Pulido; Alfonso Varela-Lopez; Jose L Quiles; Bernhard Ryffel; Ignacio Flores; Pedro Bullon; Jesus Ruiz-Cabello; Mario D Cordero. NLRP3 inflammasome suppression improves longevity and prevents cardiac aging in male mice. *Aging cell*. 19 - 1, pp. e13050 - e13050. John Wiley & Sons, Ltd (10.1111), 01/2020. Available on-line at: <https://doi.org/10.1111/ace1.13050>.  
**DOI:** 10.1111/ace1.13050  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 14  
**Total no. authors:** 15 **Corresponding author:** No
- 35** Iñaki Robles-Vera; Marta Toral; Nestor de la Visitacion; Manuel Sanchez; Manuel Gomez-Guzman; Miguel Romero; Tao Yang; Jose L Izquierdo-Garcia; Rosario Jimenez; Jesus Ruiz-Cabello; Eduardo Guerra-Hernandez; Mohan K Raizada; Francisco Perez-Vizcaino; Juan Duarte. Probiotics Prevent Dysbiosis and the Raise in Blood Pressure in Genetic Hypertension: Role of Short-chain Fatty Acids. *Molecular nutrition & food research*. pp. e1900616 - e1900616. John Wiley & Sons, Ltd, 01/2020. Available on-line at: <https://doi.org/10.1002/mnfr.201900616>.  
**DOI:** 10.1002/mnfr.201900616  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 10  
**Total no. authors:** 14 **Corresponding author:** No
- 36** Luis Izquierdo-Garcia, Jose; Comella-del-Barrio, Patricia; Campos-Olivas, Ramon; Villar-Hernandez, Raquel; Prat-Aymerich, Cristina; Luiza De Souza-Galvao, Maria; Angeles Jimenez-Fuentes, Maria; Ruiz-Manzano, Juan; Stojanovic, Zoran; Gonzalez, Adela; Serra-Vidal, Mar; Garcia-Garcia, Esther; Muriel-Moreno, Beatriz; Pau Millet, Joan; Molina-Pinargote, Israel; Casas, Xavier; Santiago, Javier; Sabria, Fina; Martos, Carmen; Herzmann, Christian; Ruiz-Cabello, Jesus; Dominguez, Jose. Discovery and validation of an NMR-based metabolomic profile in urine as TB biomarker. *SCIENTIFIC REPORTS*. 10, pp. 22317. 2020. ISSN 2045-2322  
**DOI:** 10.1038/s41598-020-78999-4  
**PMID:** 33339845  
**Type of production:** Scientific paper  
**Position of signature:** 21  
**Total no. authors:** 22 **Corresponding author:** Yes



- 37** Cecconi A.; Vilchez-Tschischke J.P.; Mateo J.; Sanchez-Gonzalez J.; España S.; Fernandez-Jimenez R.; Lopez-Melgar B.; Fernández Friera L.; López-Martín G.J.; Fuster V.; Ruiz-Cabello J.; Ibañez B.. Effects of Colchicine on Atherosclerotic Plaque Stabilization: a Multimodality Imaging Study in an Animal Model. *Journal of Cardiovascular Translational Research*. 2020. ISSN 19375387  
**DOI:** 10.1007/s12265-020-09974-7  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 11  
**Total no. authors:** 12 **Corresponding author:** No
- 38** Robles-Vera, Inaki; Toral, Marta; de la Visitacion, Nestor; Sanchez, Manuel; Gomez-Guzman, Manuel; Romero, Miguel; Yang, Tao; Izquierdo-Garcia, Jose L.; Jimenez, Rosario; Ruiz-Cabello, Jesus; Guerra-Hernandez, Eduardo; Raizada, Mohan K.; Perez-Vizcaino, Francisco; Duarte, Juan. Probiotics Prevent Dysbiosis and the Rise in Blood Pressure in Genetic Hypertension: Role of Short-Chain Fatty Acids. *MOLECULAR NUTRITION & FOOD RESEARCH*. 2020. ISSN 1613-4125  
**DOI:** 10.1002/mnfr.201900616  
**Type of production:** Scientific paper **Format:** Journal
- 39** Adrover, Jose M.; Aroca-Crevillen, Alejandra; Crainiciuc, Georgiana; Ostos, Fernando; Rojas-Vega, Yeny; Rubio-Ponce, Andrea; Cilloniz, Catia; Bonzon-Kulichenko, Elena; Calvo, Enrique; Rico, Daniel; Moro, Maria A.; Weber, Christian; Lizasoain, Ignacio; Torres, Antoni; Ruiz-Cabello, Jesus; Vazquez, Jesus; Hidalgo, Andres. Programmed 'disarming' of the neutrophil proteome reduces the magnitude of inflammation. *NATURE IMMUNOLOGY*. 21, 2020. Available on-line at: <<https://doi.org/10.1038/s41590-019-0571-2>>. ISSN 1529-2908  
**DOI:** 10.1038/s41590-019-0571-2  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 15  
**Total no. authors:** 17 **Corresponding author:** No  
**Impact source:** SCOPUS **Category:** Immunology  
**Impact index in year of publication:** 26.0 **Journal in the top 25%:** Yes  
**Position of publication:** 6 **No. of journals in the cat.:** 202
- 40** Antonia Tomas-Loba; Elisa Manieri; Barbara Gonzalez-Teran; Alfonso Mora; Luis Leiva-Vega; Ayelen M Santamans; Rafael Romero-Becerra; Elena Rodriguez; Aranzazu Pintor-Chocano; Ferran Feixas; Juan Antonio Lopez; Beatriz Caballero; Marianna Trakala; Oscar Blanco; Jorge L Torres; Lourdes Hernandez-Cosido; Valle Montalvo-Romeral; Nuria Matesanz; Marta Roche-Molina; Juan Antonio Bernal; Hannah Mischo; Marta Leon; Ainoa Caballero; Diego Miranda-Saavedra; Jesus Ruiz-Cabello; Yulia A Nevzorova; Francisco Javier Cubero; Jerónimo Bravo; Jesus Vazquez; Marcos Malumbres; Miguel Marcos; Silvia Osuna; Guadalupe Sabio. p38-gamma is essential for cell cycle progression and liver tumorigenesis. *Nature*. 15, pp. 1306 - 1306. Nature Publishing Group, 04/2019. Available on-line at: <[url{papers3://publication/doi/10.1038/s41586-019-1112-8}](https://doi.org/10.1038/s41586-019-1112-8)>. **DOI:** 10.1038/s41586-019-1112-8  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 25  
**Total no. authors:** 33 **Corresponding author:** No
- 41** Juan Pellico; Ana Victoria Lechuga-Vieco; Elena Almarza; Andres Hidalgo; Cristina Mesa-Nuñez; I Fernandez-Barahona; Juan A Quintana; Juan Bueren; J A Enriquez; Jesus Ruiz-Cabello; Fernando Herranz. Molecular imaging with nanoparticles: specific in vivo detection of neutrophils. *Archivos de Bronconeumologia*. 54 (Esp. Cong 3), pp. 5 - 6. Elsevier Editorial Ltda., 03/2019.  
**DOI:** 10.1016/j.arbres.2018.09.020  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 10  
**Total no. authors:** 11 **Corresponding author:** Yes  
**Impact source:** SCOPUS **Category:** Pulmonary and Respiratory Medicine

**Impact index in year of publication:** 1.70**Position of publication:** 86**No. of journals in the cat.:** 133

- 42** Lara Del Campo; Amanda Sanchez-Lopez; Mercedes Salaices; Ryan A von Kleeck; Elba Exposito; Cristina Gonzalez-Gomez; Lorena Cusso; Gabriela Guzman-Martinez; Jesus Ruiz-Cabello; Manuel Desco; Richard K Assoian; Ana M Briones; Vicente Andres. Vascular smooth muscle cell-specific progerin expression in a mouse model of Hutchinson-Gilford progeria syndrome promotes arterial stiffness: Therapeutic effect of dietary nitrite. *Aging cell*. 24 - 1, pp. e12936 - e12936. John Wiley & Sons, Ltd (10.1111), 03/2019. Available on-line at: <https://doi.org/10.1111/ace1.12936>.  
**DOI:** 10.1111/ace1.12936  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 9  
**Total no. authors:** 13 **Corresponding author:** No
- 43** Juan Pellico; Irene Fernandez-Barahona; Marina Benito; Angel Gaitan-Simon; Lucia Gutierrez; Jesus Ruiz-Cabello; Fernando Herranz. Unambiguous detection of atherosclerosis using bioorthogonal nanomaterials. *Nanomedicine: Nanotechnology, Biology and Medicine*. 01/2019. Available on-line at: <https://doi.org/10.1016/j.nano.2018.12.015>.  
**DOI:** 10.1016/j.nano.2018.12.015  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 6  
**Total no. authors:** 7 **Corresponding author:** Yes
- 44** Villa-Valverde, Palmira; Rodriguez, Ignacio; Padro, Daniel; Benito, Marina; Garrido-Salmon, Carlos Ernesto; Ruiz-Cabello, Jesus. A dual H-1/F-19 birdcage coil for small animals at 7T MRI. *MAGNETIC RESONANCE MATERIALS IN PHYSICS BIOLOGY AND MEDICINE*. 32, 2019. ISSN 0968-5243  
**DOI:** 10.1007/s10334-018-00733-z  
**PMID:** 30778714  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 6 **Corresponding author:** Yes  
**Source of citations:** WOS **Citations:** 1
- 45** Fernandez-Barahona, Irene; Gutierrez, Lucia; Veintemillas-Verdaguer, Sabino; Pellico, Juan; del Puerto Morales, Maria; Catala, Mauro; del Pozo, Miguel A.; Ruiz-Cabello, Jesus; Herranz, Fernando. Cu-Doped Extremely Small Iron Oxide Nanoparticles with Large Longitudinal Relaxivity: One-Pot Synthesis and in Vivo Targeted Molecular Imaging. *ACS OMEGA*. 4, 2019. ISSN 2470-1343  
**DOI:** 10.1021/acsomega.8b03004  
**Type of production:** Scientific paper  
**Position of signature:** 8  
**Total no. authors:** 9 **Corresponding author:** Yes
- 46** Izquierdo-Garcia, Jose L.; Nin, Nicolas; Cardinal-Fernandez, Pablo; Rojas, Yenny; de Paula, Marta; Granados, Rosario; Martinez-Caro, Leticia; Ruiz-Cabello, Jesus; Lorente, Jose A.. Identification of novel metabolomic biomarkers in an experimental model of septic acute kidney injury. *AMERICAN JOURNAL OF PHYSIOLOGY-RENAL PHYSIOLOGY*. 316, 2019. Available on-line at: <https://doi.org/10.1152/ajprenal.00315.2018>. ISSN 1931-857X  
**DOI:** 10.1152/ajprenal.000315.2018  
**PMID:** 30379100  
**Type of production:** Scientific paper  
**Position of signature:** 8  
**Total no. authors:** 9 **Corresponding author:** Yes



**Impact source:** SCOPUS  
**Impact index in year of publication:** 5.3  
**Position of publication:** 14

**Category:** Urology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 104

- 47** Cortes-Canteli M; Kruyer A; Fernandez-Nueda I; Marcos-Diaz A; Ceron C; Richards AT; Jno-Charles OC; Rodriguez I; Callejas S; Norris EH; Sanchez-Gonzalez J; Ruiz-Cabello J; Ibanez B; Strickland S; Fuster V. Long-Term Dabigatran Treatment Delays Alzheimer's Disease Pathogenesis in the TgCRND8 Mouse Model. *Journal of the American College of Cardiology*. 74, pp. 1910 - 1923. 2019. Available on-line at: <<https://doi.org/10.1016/j.jacc.2019.07.081>>. ISSN 0735-1097

**DOI:** 10.1016/j.jacc.2019.07.081

**PMID:** 31601371

**Type of production:** Scientific paper

**Position of signature:** 12

**Total no. authors:** 15

**Impact source:** SCOPUS

**Impact index in year of publication:** 29.0

**Position of publication:** 1

**Corresponding author:** No

**Category:** Cardiology and Cardiovascular Medicine

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

**No. of journals in the cat.:** 324

- 48** Luis Izquierdo-Garcia, Jose; Nin, Nicolas; Cardinal-Fernandez, Pablo; Ruiz-Cabello, Jesus; Angel Lorente, Jose. Metabolomic profile of acute respiratory distress syndrome of different etiologies. *INTENSIVE CARE MEDICINE*. 45, 2019. Available on-line at: <<https://doi.org/10.1007/s00134-019-05634-w>>. ISSN 0342-4642

**DOI:** 10.1007/s00134-019-05634-w

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.5

**Position of publication:** 12

**Source of citations:** WOS

**Category:** Critical Care and Intensive Care Medicine

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

**No. of journals in the cat.:** 81

**Citations:** 1

- 49** Marín-Aguilar F; Castejón-Vega B; Alcocer-Gómez E; Lendines-Cordero D; Cooper MA; de la Cruz P; Andújar-Pulido E; Pérez-Alegre M; Muntané J; Pérez-Pulido AJ; Ryffel B; Robertson AAB; Ruiz-Cabello J; Bullón P; Cordero MD. NLRP3 inflammasome inhibition by MCC950 in aged mice improves health via enhanced autophagy and PPAR $\alpha$  activity. *The journals of gerontology. Series A, Biological sciences and medical sciences*. 2019. ISSN 1079-5006

**DOI:** 10.1093/gerona/glz239

**PMID:** 31603987

**Type of production:** Scientific paper

**Position of signature:** 13

**Total no. authors:** 15

**Corresponding author:** No

- 50** Marin-Aguilar, Fabiola; Lechuga-Vieco, Ana V.; Alcocer-Gomez, Elisabet; Castejon-Vega, Beatriz; Lucas, Javier; Garrido, Carlos; Peralta-Garcia, Alejandro; Perez-Pulido, Antonio J.; Varela-Lopez, Alfonso; Quiles, Jose L.; Ryffel, Bernhard; Flores, Ignacio; Bullon, Pedro; Ruiz-Cabello, Jesus; Cordero, Mario D.. NLRP3 inflammasome suppression improves longevity and prevents cardiac aging in male mice. *AGING CELL*. 2019. Available on-line at: <<https://doi.org/10.1111/accel.13050>>. ISSN 1474-9718

**DOI:** 10.1111/accel.13050

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 11.6

**Position of publication:** 3

**Category:** Aging

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

**No. of journals in the cat.:** 34



- 51** Latorre-Pellicer, Ana; Victoria Lechuga-Vieco, Ana; Johnston, Iain G.; Hamalainen, Riikka H.; Pellico, Juan; Justo-Mendez, Raquel; Maria Fernandez-Toro, Jose; Claveria, Cristina; Guaras, Adela; Sierra, Rocio; Llop, Jordi; Torres, Miguel; Miguel Criado, Luis; Suomalainen, Anu; Jones, Nick S.; Ruiz-Cabello, Jesus; Antonio Enriquez, Jose. Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy. CELL METABOLISM. 30, 2019. Available on-line at: <<https://doi.org/10.1016/j.cmet.2019.09.007>>. ISSN 1550-4131  
**DOI:** 10.1016/j.cmet.2019.09.007  
**Type of production:** Scientific paper  
**Position of signature:** 16  
**Total no. authors:** 17  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 37.5  
**Position of publication:** 1  
**Source of citations:** WOS  
**Corresponding author:** No  
**Category:** Physiology  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 172  
**Citations:** 3
- 52** Latorre-Pellicer A; Lechuga-Vieco AV; Johnston IG; Hämäläinen RH; Pellico J; Justo-Méndez R; Fernández-Toro JM; Clavería C; Guaras A; Sierra R; Llop J; Torres M; Criado LM; Suomalainen A; Jones NS; Ruíz-Cabello J; Enríquez JA. Regulation of Mother-to-Offspring Transmission of mtDNA Heteroplasmy. Cell metabolism. 2019. Available on-line at: <<https://doi.org/10.1016/j.cmet.2019.09.007>>. ISSN 1550-4131  
**DOI:** 10.1016/j.cmet.2019.09.007  
**Type of production:** Scientific paper  
**Position of signature:** 16  
**Total no. authors:** 17  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 37.5  
**Position of publication:** 3  
**Corresponding author:** No  
**Category:** Biochemistry, Genetics and Molecular Biology (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 381
- 53** Susana Carregal-Romero; Sandra Plaza-Garcia; Rafael Pinjól; Jose L Murillo; Jesus Ruiz-Cabello; Daniel Padro; Angel Millan; Pedro Ramos-Cabrer. MRI Study of the Influence of Surface Coating Aging on the In Vivo Biodistribution of Iron Oxide Nanoparticles. Biosensors. 8 - 4, pp. 127 - 127. Multidisciplinary Digital Publishing Institute, 12/2018. Available on-line at: <<https://doi.org/10.3390/bios8040127>>.  
**DOI:** 10.3390/bios8040127  
**Type of production:** Scientific paper  
**Position of signature:** 5  
**Total no. authors:** 8  
**Impact source:** SCOPUS  
**Format:** Journal  
**Corresponding author:** No
- 54** Irene Fernandez-Barahona; Jesus Ruiz-Cabello; Fernando Herranz; Juan Pellico. Synthesis of 68Ga Core-doped Iron Oxide Nanoparticles for Dual Positron Emission Tomography /(T1)Magnetic Resonance Imaging. Journal of Visualized Experiments. 141, pp. e58269 - e58269. 11/2018. Available on-line at: <[url{papers3://publication/doi/10.3791/58269}](https://doi.org/10.3791/58269)>.  
**DOI:** 10.3791/58269  
**Type of production:** Scientific paper  
**Position of signature:** 2  
**Total no. authors:** 4  
**Format:** Journal  
**Corresponding author:** No
- 55** Gema Mondejar-Parreño; Daniel Morales-Cano; Bianca Barreira; Maria Callejo; Jesus Ruiz-Cabello; Laura Moreno; Sergio Esquivel-Ruiz; Alistair Mathie; Ghazwan Butrous; Francisco Perez-Vizcaino; Angel Cogolludo. HIV transgene expression impairs K<sup>+</sup> channel function in the pulmonary





vasculature.AJP: Lung Cellular and Molecular Physiology. 22, pp. S55 - S55. 08/2018. Available on-line at: [\url{papers3://publication/doi/10.1152/ajplung.00045.2018}](https://doi.org/10.1152/ajplung.00045.2018).

**DOI:** 10.1152/ajplung.00045.2018

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 5

**Total no. authors:** 11

**Corresponding author:** No

- 56** Alfredo Sanchez; Karina Ovejero Paredes; Jesus Ruiz-Cabello; Paloma Martinez-Ruiz; Jose Manuel Pingarron; Reynaldo Villalonga; Marco Filice. Hybrid Decorated Core@Shell Janus Nanoparticles As Flexible Platform For Targeted Multimodal Molecular Bioimaging Of Cancer.ACS Applied Materials {&} Interfaces. pp. acsami.8b10452 - acsami.8b10452. American Chemical Society, 08/2018. Available on-line at: [\url{papers3://publication/doi/10.1021/acsami.8b10452}](https://doi.org/10.1021/acsami.8b10452).

**DOI:** 10.1021/acsami.8b10452

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 3

**Total no. authors:** 7

**Corresponding author:** No

- 57** Irene Fernández-Barahona; María Muñoz-Hernando; Juan Pellico; Jesús Ruiz-Cabello; Fernando Herranz. Molecular Imaging with 68Ga Radio-Nanomaterials: Shedding Light on Nanoparticles. Applied Sciences. 8 - 7, pp. 1098. MDPI, 06/07/2018.

**DOI:** 10.3390/app8071098

**Type of production:** Scientific paper

**Position of signature:** 4

**Total no. authors:** 5

**Corresponding author:** Yes

**Impact source:** ISI

**Category:** Chemistry (miscellaneous)

**Impact index in year of publication:** 1.689

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

**Position of publication:** 170

**No. of journals in the cat.:** 285

- 58** Hugo Groult; Isabel Garcia-Alvarez; Lorenzo Romero-Ramirez; Manuel Nieto-Sampedro; Fernando Herranz; Alfonso Fernandez-Mayoralas; Jesus Ruiz-Cabello. Micellar Iron Oxide Nanoparticles Coated with Anti-Tumor Glycosides. Nanomaterials. 8, pp. 567 - 567. 07/2018. Available on-line at: [\url{papers3://publication/doi/10.3390/nano8080567}](https://doi.org/10.3390/nano8080567).

**DOI:** 10.3390/nano8080567

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 7

**Total no. authors:** 7

**Corresponding author:** Yes

- 59** Rebeca Acin-Perez; Ana Victoria Lechuga-Vieco; Maria Del Mar Muñoz; Rocio Nieto-Arellano; Carlos Torroja; Fatima Sanchez-Cabo; Concepcion Jimenez; Andres Gonzalez-Guerra; Isabel Carrascoso; Cristiane Beninca; Pedro M Quiros; Carlos Lopez-Otin; Jose Maria Castellano; Jesus Ruiz-Cabello; Luis Jesus Jimenez-Borreguero; Jose Antonio Enriquez. Ablation of the stress protease OMA1 protects against heart failure in mice.Science Translational Medicine. 10 - 434, pp. eaan4935 - eaan4935. 03/2018. Available on-line at: <https://doi.org/10.1126/scitranslmed.aan4935>.

**DOI:** 10.1126/scitranslmed.aan4935

**Type of production:** Scientific paper

**Format:** Journal

**Position of signature:** 14

**Total no. authors:** 16

**Corresponding author:** No

**Impact source:** SCOPUS

**Category:** Medicine (miscellaneous)

**Impact index in year of publication:** 18.6

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

**Position of publication:** 8

**No. of journals in the cat.:** 783



- 60** Ana V Lechuga-Vieco; Hugo Groult; Juan Pellico; Jesus Mateo; Jose A Enriquez; Jesus Ruiz-Cabello; Fernando Herranz. Protein corona and phospholipase activity drive selective accumulation of nanomicelles in atherosclerotic plaques. *Nanomedicine: nanotechnology, biology and medicine*. pp. 1 - 28. Elsevier Inc, 01/2018. Available on-line at: <<https://doi.org/10.1016/j.nano.2017.12.021>>. ISSN 1549-9634  
**DOI:** 10.1016/j.nano.2017.12.021  
**PMID:** 29317346  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 7  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 10.3  
**Position of publication:** 5  
**Format:** Journal  
**Corresponding author:** Yes  
**Category:** Pharmaceutical Science  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 169
- 61** Jose L Izquierdo-Garcia; Teresa Arias; Yeny Rojas; Victoria Garcia-Ruiz; Arnoldo Santos; Silvia Martin-Puig; Jesus Ruiz-Cabello. Metabolic Reprogramming in the Heart and Lung in a Murine Model of Pulmonary Arterial Hypertension. *Frontiers in cardiovascular medicine*. 5, pp. 110 - 110. Frontiers, 2018. Available on-line at: <<https://doi.org/10.3389/fcvm.2018.00110>>.  
**DOI:** 10.3389/fcvm.2018.00110  
**Type of production:** Scientific paper  
**Position of signature:** 7  
**Total no. authors:** 7  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 3.7  
**Position of publication:** 108  
**Format:** Journal  
**Corresponding author:** Yes  
**Category:** Cardiology and Cardiovascular Medicine  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 324
- 62** José Antonio Enriquez; Ana Victoria Lechuga-Vieco; Ana Latorre-Pellicer; Rebeca Acín-Pérez; E Calvo; Jesús Ruiz-Cabello; Jesús Vázquez. Mitochondrial and nuclear DNA in healthy aging. *European Journal of Clinical Investigation*. 48 - 30, 2018.  
**Type of production:** Scientific paper  
**Position of signature:** 6  
**Total no. authors:** 7  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 7.2  
**Position of publication:** 29  
**Corresponding author:** No  
**Category:** Clinical Biochemistry  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 115
- 63** Mota-Cobian, A.; Alonso-Farto, J. C.; Fernandez-Friera, L.; Sanchez-Gonzalez, J.; Lopez-Melgar, B.; Jimenez-Borreguero, L. J.; Fuster, V.; Ruiz-Cabello, J.; Espana, S.. The effect of tissue-segmented attenuation maps on PET quantification with a special focus on large arteries. *REVISTA ESPANOLA DE MEDICINA NUCLEAR E IMAGEN MOLECULAR*. 37, 2018. ISSN 2253-654X  
**DOI:** 10.1016/j.remnm.2017.03.008  
**PMID:** 28641952  
**Type of production:** Scientific paper  
**Position of signature:** 8  
**Total no. authors:** 9  
**Corresponding author:** No
- 64** Carlos Velasco; Jesus Mateo; Arnoldo Santos; Adriana Mota-Cobian; Fernando Herranz; Juan Pellico; Ruben A Mota; Samuel España; Jesus Ruiz-Cabello. Assessment of regional pulmonary blood flow using (68)Ga-DOTA PET. *EJNMMI Research*. 7 - 1, pp. 7 - 7. 12/2017.  
**DOI:** 10.1186/s13550-017-0259-2  
**Type of production:** Scientific paper  
**Format:** Journal

**Position of signature:** 8**Total no. authors:** 9**Impact source:** SCOPUS**Impact index in year of publication:** 4.1**Position of publication:** 62**Corresponding author:** Yes**Category:** Radiology, Nuclear Medicine and Imaging**No. of journals in the cat.:** 276

- 65** Jose L Izquierdo-Garcia; Nicolas Nin; Jorge Jimenez-Clemente; Juan P Horcajada; Maria Del Mar Arenas-Miras; Joaquim Gea; Andres Esteban; Jesus Ruiz-Cabello; Jose A Lorente. Metabolomic Profile of Ards by Nuclear Magnetic Resonance Spectroscopy in Patients with H1N1 Influenza Virus Pneumonia.Shock (Augusta, Ga.). pp. 1 - 1. 12/2017. Available on-line at: <url{papers3://publication/doi/10.1097/SHK.0000000000001099}>.

**DOI:** 10.1097/SHK.0000000000001099**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 8**Total no. authors:** 9**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Critical Care and Intensive Care Medicine**Impact index in year of publication:** 6.2**Journal in the top 25%:** Yes**Position of publication:** 8**No. of journals in the cat.:** 81

- 66** Luis E Pavillard; Diego Cañadas-Lozano; El{\i}sabet Alcocer-Gomez; Fabiola Marin-Aguilar; Sheila Pereira; Avril A B Robertson; Jordi Muntane; Bernhard Ryffel; Matthew A Cooper; Jose L Quiles; Pedro Bullon; Jesus Ruiz-Cabello; Mario D Cordero. NLRP3-inflammasome inhibition prevents high fat and high sugar diets-induced heart damage through autophagy induction.Oncotarget. 8 - 59, pp. 99740 - 99756. 11/2017. Available on-line at: <url{papers3://publication/doi/10.18632/oncotarget.20763}>.

**DOI:** 10.18632/oncotarget.20763**PMID:** 29245937**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 12**Total no. authors:** 13**Corresponding author:** No

- 67** Juan Pellico; Ana V Lechuga-Vieco; Elena Almarza; Andr{\e}s Hidalgo; Cristina Mesa-Nuñez; Irene Fernandez-Barahona; Juan A Quintana; Juan Bueren; Jose A Enriquez; Jesus Ruiz-Cabello; Fernando Herranz. In vivo imaging of lung inflammation with neutrophil-specific (68)Ga nano-radiotracer.Scientific Reports. 7 - 1, pp. 13242 - 13242. Nature Publishing Group, 10/2017. Available on-line at: <url{papers3://publication/doi/10.1038/s41598-017-12829-y}>.

**DOI:** 10.1038/s41598-017-12829-y**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 10**Total no. authors:** 11**Corresponding author:** Yes**Impact source:** SCOPUS**Category:** Multidisciplinary**Impact index in year of publication:** 4.8**Journal in the top 25%:** Yes**Position of publication:** 9**No. of journals in the cat.:** 88

- 68** Nuria Matesanz; Edgar Bernardo; Rebeca Acin-Perez; Elisa Manieri; Sonia Perez-Sieira; Lourdes Hernandez-Cosido; Valle Montalvo-Romeral; Alfonso Mora; Elena Rodriguez; Luis Leiva-Vega; Ana Victoria Lechuga-Vieco; Jesus Ruiz-Cabello; Jorge L Torres; Maria Crespo-Ruiz; Francisco Centeno; Clara V Alvarez; Miguel Marcos; Jose Antonio Enriquez; Ruben Nogueiras; Guadalupe Sabio. MKK6 controls T3-mediated browning of white adipose tissue.Nature Communications. 8 - 1, pp. 856 - 856. Nature Publishing Group, 10/2017. Available on-line at: <url{papers3://publication/doi/10.1038/s41467-017-00948-z}>.

**DOI:** 10.1038/s41467-017-00948-z**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 12

**Total no. authors:** 20**Impact source:** SCOPUS**Impact index in year of publication:** 18.5**Position of publication:** 6**Corresponding author:** No**Category:** Biochemistry, Genetics and Molecular Biology (miscellaneous)**Journal in the top 25%:** Yes**No. of journals in the cat.:** 195

- 69** Juan Pellico; Jesús Ruiz-Cabello; Irene Fernández-Barahona; Lucía Gutiérrez; Ana V. Lechuga-Vieco; Jose A Enríquez; Maria del Puerto Morales; Fernando Herranz. One-step fast synthesis of nanoparticles for MRI: coating chemistry as the key variable determining positive or negative contrast. *Langmuir*. 0 - ja, pp. null - null. 12/09/2017. Available on-line at: <<http://dx.doi.org/10.1021/acs.langmuir.7b01759>>.

**DOI:** 10.1021/acs.langmuir.7b01759**Type of production:** Scientific paper**Position of signature:** 2**Total no. authors:** 8**Impact source:** SCOPUS**Impact index in year of publication:****Position of publication:** 28**Format:** Journal**Corresponding author:** No**Category:** Condensed Matter Physics**Journal in the top 25%:** Yes**No. of journals in the cat.:** 395

- 70** Frantisek Lizal; Jan Jedelsky; Kaye Morgan; Katrin Bauer; Jordi Llop; Unai Cossio; Stavros Kassinos; Sylvia Verbanck; Jesus Ruiz-Cabello; Arnoldo Santos; Edmund Koch; Christian Schnabel. Experimental methods for flow and aerosol measurements in human airways and their replicas. *European journal of pharmaceutical sciences*. 08/2017.

**DOI:** 10.1016/j.ejps.2017.08.021**Type of production:** Scientific paper**Position of signature:** 9**Total no. authors:** 12**Impact source:** SCOPUS**Impact index in year of publication:** 5.7**Position of publication:** 26**Format:** Journal**Corresponding author:** No**Category:** Pharmaceutical Science**Journal in the top 25%:** Yes**No. of journals in the cat.:** 178

- 71** Hugo Groult; Nicolas Poupard; Fernando Herranz; Egle Conforto; Nicolas Bridiau; Frederic Sannier; Stephanie Bordenave; Jean-Marie Piot; Jesus Ruiz-Cabello; Ingrid Fruitier-Arnaudin; Thierry Maugard. Family of bioactive heparins-coated iron oxide nanoparticles with positive contrast in magnetic resonance imaging for specific biomedical applications. *Biomacromolecules*. pp. in press. 08/2017.

**DOI:** 10.1021/acs.biomac.7b00797**Type of production:** Scientific paper**Position of signature:** 9**Total no. authors:** 11**Impact source:** SCOPUS**Impact index in year of publication:** 9.9**Position of publication:** 6**Format:** Journal**Corresponding author:** No**Category:** Polymers and Plastics**Journal in the top 25%:** Yes**No. of journals in the cat.:** 147

- 72** Alessia Ferrarini; Laura Righetti; Ma Paz Martine; Mariano Fernandez-Lopez; Annalaura Mastrangelo; Juan P Horcajada; Antoni Betbese; Andres Esteban; Jordi Ordoñez; Joaquin Gea; Jesus Ruiz-Cabello; Federica Pellati; Jose A Lorente; Nicoas Nin; Francisco J Ruperez. Discriminant biomarkers of acute respiratory distress syndrome associated to H1N1 influenza identified by metabolomics HPLC-QTOF-MS/MS platform. *ELECTROPHORESIS*. 24/06/2017.

**DOI:** 10.1002/elps.201700112**Type of production:** Scientific paper**Position of signature:** 11**Format:** Journal



**Total no. authors:** 15

**Impact source:** SCOPUS

**Impact index in year of publication:** 4.9

**Position of publication:** 28

**Corresponding author:** No

**Category:** Analytical Chemistry

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

**No. of journals in the cat.:** 114

- 73** A Mota-Cobian; J C Alonso-Farto; L Fernandez-Friera; J Sanchez-Gonzalez; B Lopez-Melgar; L J Jimenez-Borreguero; V Fuster; J Ruiz-Cabello; S España. The effect of tissue-segmented attenuation maps on PET quantification with a special focus on large arteries. *Revista española de medicina nuclear e imagen molecular*. 06/2017.

**DOI:** 10.1016/j.remn.2017.03.008

**Type of production:** Scientific paper

**Position of signature:** 8

**Total no. authors:** 9

**Impact source:** SCOPUS

**Impact index in year of publication:** 1.1

**Position of publication:** 204

**Format:** Journal

**Corresponding author:** No

**Category:** Radiology, Nuclear Medicine and Imaging

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

**No. of journals in the cat.:** 278

- 74** Ana Latorre-Pellicer; Raquel Moreno-Loshuertos; Ana Victoria Lechuga-Vieco; Fatima Sanchez-Cabo; Carlos Torroja; Rebeca Acín-Pérez; Enrique Calvo; Esther Aix; Andrés González-Guerra; Angela Logan; María Luisa Bernad-Miana; Eduardo Romanos; Raquel Cruz; Sara Cogliati; Beatriz Sobrino; Ángel Carracedo; Acisclo Pérez-Martos; Patricio Fernández-Silva; Jesus Ruiz-Cabello; Michael P Murphy; Ignacio Flores; Jesús Vázquez; José Antonio Enríquez. Corrigendum: Mitochondrial and nuclear {DNA} matching shapes metabolism and healthy ageing. *Nature*. 12/2016. Available on-line at: <<http://www.nature.com/doi/10.1038/nature20773>>.

**Type of production:** Scientific paper

**Format:** Journal

- 75** Pedro Bullón; Francisco J Cano-García; Elisabet Alcocer-Gómez; Alfonso Varela-Lopez; Lourdes Román-Malo; Rafael J Ruiz-Salmerón; Jose L Quiles; Jose M Navarro-Pando; Maurizio Battino; Jesus Ruiz-Cabello; Luis J Jiménez-Borreguero; Mario D Cordero. Could NLRP3-inflammasome be a cardiovascular risk biomarkers in Acute Myocardial infarction Patients?. *Antioxidants & redox signaling*. pp. ars.2016.6970 - ars.2016.6970. 12/2016. Available on-line at: <<http://online.liebertpub.com/doi/10.1089/ars.2016.6970>>.

**Type of production:** Scientific paper

**Format:** Journal

- 76** Virginia Chamorro; Rachele Pandolfi; Laura Moreno; Bianca Barreira; Andrea Martínez-Ramas; Daniel Morales-Cano; Jesus Ruiz-Cabello; José Angel Lorente; Juan Duarte; Angel Cogolludo; José Luis Alvarez-Sala; Francisco Perez-Vizcaino. Effects of Quercetin in a rat model of Hemorrhagic Traumatic Shock and Reperfusion}. *Molecules*. 21 - 12, pp. 1739 - 1739. 12/2016. Available on-line at: <<http://www.mdpi.com/1420-3049/21/12/1739>>.

**Type of production:** Scientific paper

**Format:** Journal

- 77** Ivan Menendez-Montes; Beatriz Escobar; Beatriz Palacios; Manuel Jose Gómez; José Luis Izquierdo-Garcia; Lorena Flores; Luis Jesús Jimenez-Borreguero; JuliAn AragonEs; Jesus Ruiz-Cabello; Miguel Torres; Silvia Martin-Puig. Myocardial VHL-HIF Signaling Controls an Embryonic Metabolic Switch Essential for Cardiac Maturation. *Developmental Cell*. 39 - 6, pp. 724 - 739. 12/2016. Available on-line at: <<http://dx.doi.org/10.1016/j.devcel.2016.11.012>>.

**Type of production:** Scientific paper

**Format:** Journal

- 78** Marzia Marciello; Juan Pellico; Irene Fernandez-Barahona; Fernando Herranz; Jesus Ruiz-Cabello; Marco Filice. Recent advances in the preparation and application of multifunctional iron oxide and liposome-based nanosystems for multimodal diagnosis and therapy. *Interface focus*. 6 - 6, pp. 20160055 - 20160055. 12/2016. Available on-line at: <<http://rsfs.royalsocietypublishing.org/lookup/doi/10.1098/rsfs.2016.0055>>.

**Type of production:** Scientific paper

**Format:** Journal





- 79** Renata Bujak; Jesus Mateo; Isabel Blanco; Jos{\'e} Luis Izquierdo-Garcia; Danuta Dudzik; Micha{\l} J Markuszewski; V{\i}ctor Ivo Peinado; Mart{\i}n Laclaustra; Joan Albert Barbera; Coral Barbas; Jesus Ruiz-Cabello. New Biochemical Insights into the Mechanisms of Pulmonary Arterial Hypertension in Humans. PLoS ONE. 11 - 8, pp. e0160505 - 14. 08/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** Yes
- 80** Ana Latorre-Pellicer; Raquel Moreno-Loshuertos; Ana Victoria Lechuga-Vieco; Fatima Sanchez-Cabo; Carlos Torroja; Rebeca Acin-Perez; Enrique Calvo; Esther Aix; Andres Gonzalez-Guerra; Angela Logan; Maria Luisa Bernad-Miana; Eduardo Romanos; Raquel Cruz; Sara Cogliati; Beatriz Sobrino; {\A}ngel Carracedo; Acisclo P{\e}rez-Martos; Patricio Fernandez-Silva; Jesus Ruiz-Cabello; Michael P Murphy; Ignacio Flores; Jesus Vazquez; Jose Antonio Enriquez. Mitochondrial and nuclear DNA matching shapes metabolism and healthy ageing. Nature. pp. 1 - 18. 07/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** IN-RECS **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Impact index in year of publication:** 38.138 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 63
- 81** T Arias; J Mateo; S España; J L Izquierdo; J J Jiménez-Borreguero; J M Ruiz-Cabello. Non-invasive Imaging of Lung Remodeling and Right Ventricle Metabolic Shift in an Anima Model of Pulmonary Hypertension. Journal of the American Society of Hypertension : JASH. 10 Suppl 1, pp. e1 - e2. 07/2016. Available on-line at: <<http://linkinghub.elsevier.com/retrieve/pii/S1933171116303369>>.  
**Type of production:** Scientific paper **Format:** Journal
- 82** Arnaldo Santos; Eva Rivas; Robert Rodriguez-Roisin; Marcelo Sanchez; Jesus Ruiz-Cabello; Ernesto Arismendi; Jose Gabriel Venegas. Lung Tissue Volume is Elevated in Obesity and Reduced by Bariatric Surgery. Obesity Surgery. 26, pp. 2475 - 2482. Springer, 21/03/2016. Available on-line at: <<http://link.springer.com/article/10.1007/s11695-016-2137-9?no-access=true>>.  
**DOI:** 10.1007/s11695-016-2137-9  
**PMID:** 27000884  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No  
**Impact source:** ISI **Category:** Science Edition - SURGERY  
**Impact index in year of publication:** 3.747 **Journal in the top 25%:** Yes  
**Position of publication:** 19 **No. of journals in the cat.:** 198
- 83** Beatriz López-Melgar; Leticia Fernández-Friera; Javier Sánchez-González; Jean Paul Vilchez; Alberto Ceconi; Jesus Mateo; Jos{\'e} L Peñalvo; Belen Oliva; Jose M García-Ruiz; Steve Kauffman; Luis Jes{\u}s Jimenez-Borreguero; Jesus Ruiz-Cabello; Antonio Fernandez-Ortiz; Borja Ibañez; Valentin Fuster. Accurate quantification of atherosclerotic plaque volume by 3D vascular ultrasound using the volumetric linear array method. Atherosclerosis. 248, pp. 230 - 237. 03/2016.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** PHERIPHERAL VASCULAR DISEASE  
**Impact index in year of publication:** 3.994 **Journal in the top 25%:** Yes  
**Position of publication:** 11 **No. of journals in the cat.:** 60
- 84** Fernando Herranz Rabanal. Nano-radiotrazadores de óxido de hierro; aproximación multidisciplinar a la imagen molecular. Anales de Química. 112 - 1, pp. 15 - 23. 03/2016. Available on-line at: <<http://analesdequimica.es/index.php/AnalesQuimica/article/view/836>>.  
**Type of production:** Scientific paper **Format:** Journal



- 85** Pellico J; Ruiz-Cabello J; Saiz-Alía M; Del Rosario G; Caja S; Montoya M; Fernández de Manuel L; Morales MP; Gutiérrez L; Galiana B; Enríquez JA; Herranz F. Fast synthesis and bioconjugation of (68) Ga core-doped extremely small iron oxide nanoparticles for PET/MR imaging. *Contrast Media Mol Imaging*. 11 - 3, pp. 203 - 210. 01/2016. Available on-line at: <<http://europepmc.org/abstract/med/26748837>>.  
**DOI:** 10.1002/cmml.1681  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.923  
**Position of publication:** 25  
**Format:** Journal  
**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 127
- 86** Pedro Bullon; Elisabet Alcocer-Gomez; Angel M Carrion; Fabiola Marin-Aguilar; Juan Garrido-Maraver; Lourdes Roman-Malo; Jesus Ruiz-Cabello; Ognjen Culic; Bernhard Ryffel; Lionel Apetoh; Francois Ghiringhelli; Maurizio Battino; Jose Antonio Sanchez-Alcazar; Mario D Cordero. AMPK Phosphorylation Modulates Pain by Activation of NLRP3 Inflammasome. Antioxidants {&} redox signaling. 24 - 3, pp. 157 - 170. 09/2015.  
**DOI:** 10.1089/ars.2014.6120  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 7.407  
**Position of publication:** 10  
**Format:** Journal  
**Category:** Science Edition - ENDOCRINOLOGY & METABOLISM  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 128
- 87** El{\'i}sabet Alcocer-Gomez; Cristina Ulecia-Moron; Fabiola Marin-Aguilar; Tatyana Rybkina; Nieves Casas-Barquero; Jesus Ruiz-Cabello; Bernhard Ryffel; Lionel Apetoh; Fran{c}ois Ghiringhelli; Pedro Bullon; Jos{\'e} Antonio Sanchez-Alcazar; Angel M Carrion; Mario D Cordero. Stress-Induced Depressive Behaviors Require a Functional NLRP3 Inflammasome. *Molecular Neurobiology*. 09/2015. Available on-line at: <<http://www.ncbi.nlm.nih.gov/pubmed/26362308>>.  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.137  
**Position of publication:** 36  
**Format:** Journal  
**Category:** Science Edition - NEUROSCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 252
- 88** Beatriz Salinas; Jesus Ruiz-Cabello; Ana V Lechuga-Vieco; Marina Benito; Fernando Herranz. Surface-Functionalized Nanoparticles by Olefin Metathesis: A Chemoselective Approach for In Vivo Characterization of Atherosclerosis Plaque. *Chemistry - A European Journal*. 21 - 29, pp. 10450 - 10456. 06/2015.  
**DOI:** 10.1002/chem.201500458  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.731  
**Position of publication:** 22  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 157
- 89** I Gonzalez-Valdes; I Hidalgo; A Bujarrabal; E Lara-Pezzi; L Padron-Barthe; P Garcia-Pavia; Pablo Gómez-Del Arco; J M Redondo; J M Ruiz-Cabello; L J Jimenez-Borreguero; J A Enriquez; J L de la Pompa; A Hidalgo; S Gonzalez. Corrigendum: {Bmi}1 limits dilated cardiomyopathy and heart failure by inhibiting cardiac senescence. *Nature Communications*. 6, pp. 7242 - 7242. 05/2015. Available on-line at: <<http://www.nature.com/doifinder/10.1038/ncomms8242>>.  
**Type of production:** Scientific paper  
**Format:** Journal

- 90** Francisco M Cruz; David Sanz-Rosa; Marta Roche-Molina; Jaime Garcia-Prieto; Jos(\'e) M Garcia-Ruiz; Gonzalo Pizarro; Luis J Jimenez-Borreguero; Miguel Torres; Antonio Bernad; Jesus Ruiz-Cabello; Valentin Fuster; Borja Ibañez; Juan A Bernal. Exercise Triggers ARVC Phenotype in Mice Expressing a Disease-Causing Mutated Version of Human Plakophilin-2. *Journal of the American College of Cardiology*. 65 - 14, pp. 1438 - 1450. 04/2015.  
**DOI:** 10.1016/j.jacc.2015.01.045  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 16.503  
**Position of publication:** 1  
**Format:** Journal  
**Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 123
- 91** I Gonzalez-Valdes; I Hidalgo; A Bujarrabal; E Lara-Pezzi; L Padron-Barthe; P Garcia-Pavia; P Gomez; J M Redondo; J M Ruiz-Cabello; L J Jimenez-Borreguero; J A Enriquez; J L de la Pompa; A Hidalgo; S Gonzalez. Bmi1 limits dilated cardiomyopathy and heart failure by inhibiting cardiac senescence. *Nature Communications*. 6, pp. 6473 - 6473. 2015.  
**DOI:** 10.1038/ncomms8242  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 11.470  
**Position of publication:** 3  
**Format:** Journal  
**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 57
- 92** Jesus Mateo; Izaskun Bilbao; Juan Jose Vaquero; Jesus Ruiz-Cabello; Samuel España. In Vivo (18)F-FDG-PET Imaging in Mouse Atherosclerosis. *Methods in molecular biology (Clifton, N.J.)*. 1339 - Chapter 28, pp. 377 - 386. 2015.  
**Type of production:** Scientific paper  
**Format:** Journal
- 93** Jesus Mateo; Marina Benito; Samuel España; Javier Sanz; Jesus Jimenez-Borreguero; Valentin Fuster; Jesus Ruiz-Cabello. Magnetic Resonance Imaging of the Atherosclerotic Mouse Aorta. *Methods in molecular biology (Clifton, N.J.)*. 1339 - Chapter 29, pp. 387 - 394. 2015.  
**Type of production:** Scientific paper  
**Format:** Journal
- 94** J. Pellico; A. V. Lechuga-Vieco; M. Benito; J. M. Garcia-Segura; V. Fuster; J. Ruiz-Cabello; F. Herranz. Microwave-driven synthesis of bisphosphonate nanoparticles allows in vivo visualisation of atherosclerotic plaque. *RSC Advances*. 5, pp. 1661 - 1665. 2015.  
Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS\\_CPL&KeyUT=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)>  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.840  
**Position of publication:** 33  
**Format:** Journal  
**Category:** Chemistry (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 157
- 95** Vinatha Sreeramkumar; José M Adrover; Ivan Ballesteros; Maria Isabel Cuartero; Jan Rossaint; Izaskun Bilbao; Maria Náchér; Christophe Pitaval; Irena Radovanovic; Yoshinori Fukui; Rodger P McEver; Marie-Dominique Filippi; Ignacio Lizasoain; Jesus Ruiz-Cabello; Alexander Zarbock; María A Moro; Andrés Hidalgo. Neutrophils scan for activated platelets to initiate inflammation. *Science*. 346 - 6214, pp. 1234 - 1238. 12/2014. Available on-line at: <<http://www.sciencemag.org/cgi/doi/10.1126/science.1256478>>.  
**Type of production:** Scientific paper  
**Format:** Journal



- 96** Hugo Groult; Jesus Ruiz-Cabello; Juan Pellico; Ana V Lechuga-Vieco; Riju Bhavesh; Moreno Zamai; Elena Almarza; In{\e}s Mart{\i}n-Padura; Eugenio Cantelar; Mar{\i}a P Mart{\i}nez-Alc{\a}zar; Fernando Herranz. Parallel Multifunctionalization of Nanoparticles: A One-Step Modular Approach for in Vivo Imaging. *Bioconjugate Chemistry*. pp. 141219121714001 - 141219121714001. 12/2014.  
**DOI:** 10.1021/bc500536y  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.513  
**Position of publication:** 28  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 157
- 97** Hugo Groult; Jesus Ruiz-Cabello; Ana Victoria Lechuga-Vieco; Jesus Mateo; Marina Benito; Izaskun Bilbao; Mar{\i}a Paz Mart{\i}nez-Alc{\a}zar; Juan Antonio Lopez; Jes{\u}s V{\a}zquez; Fernando F Herranz. Phosphatidylcholine-coated iron oxide nanomicelles for in vivo prolonged circulation time with an antibiofouling protein corona. *Chemistry (Weinheim an der Bergstrasse, Germany)*. 20 - 50, pp. 16662 - 16671. 12/2014.  
**DOI:** 10.1002/chem.201404221  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.731  
**Position of publication:** 22  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 157
- 98** Carlos Pérez-Medina; D Abdel-Atti Y Zhang D Abdel-Atti Y Zhang; VA Longo; CP Irwin; Jesús Ruiz-Cabello; ZA Fayad; Jason S. Lewis; WJ.M. Mulder; Thomas Reiner. A modular labeling strategy for in vivo positron emission tomography and near infrared fluorescence imaging of nanoparticle tumor targeting. *Journal of Nuclear Medicine*. 55 - 10, pp. 1706 - 1711. 01/10/2014.  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.160  
**Position of publication:** 4  
**Format:** Journal  
**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 125
- 99** Jaime García Prieto; Jose Manuel García Ruiz; David Sanz Rosa; Andrés Pun; Ana García Alvarez; Sean M Davidson; Leticia Fernández Frieria; Mario Nuno Ayala; Rodrigo Fernández Jiménez; Juan A Bernal; José Luis Izquierdo García; Jesús Jimenez Borreguero; Gonzalo Pizarro; Jesús Ruiz Cabello; Carlos Macaya; Valentín Fuster; Derek M Yellon; Borja Ibanez.  $\beta$ 3 adrenergic receptor selective stimulation during ischemia/reperfusion improves cardiac function in translational models through inhibition of mPTP opening in cardiomyocytes. *Basic Research in Cardiology*. 109 - 4, pp. 422. (Germany): 07/2014. ISSN 1435-1803  
**DOI:** 0.1007/s00395-014-0422-0  
**Type of production:** Scientific paper  
**Corresponding author:** No  
**Impact source:** ISI  
**Impact index in year of publication:** 5.414  
**Position of publication:** 16  
**Format:** Journal  
**Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 123
- 100** José L Izquierdo García; Shama Naz; Nicolás Nin; Yeny Rojas; Marcela Erazo; Leticia Martínez Caro; Antonia García; Marta de Paula; Pilar Fernández Segoviano; Cristina Casals; Andrés Esteban; Jesús Ruiz Cabello; Coral Barbas; José A Lorente. A Metabolomic Approach to the Pathogenesis of Ventilator-induced Lung Injury. *Anesthesiology*. 120 - 3, pp. 694 - 1396. 03/2014. ISSN 1528-1175  
**DOI:** 10.1097/ALN.0000000000000074

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.879

**Position of publication:** 1

**Category:** Science Edition - ANESTHESIOLOGY

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

**No. of journals in the cat.:** 30

- 101** Renata Bujak; Ana García Álvarez; Francisco J Rupérez; Mario Nuño Ayala; Antonia García; Jesus Ruiz Cabello; Valentín Fuster; Borja Ibáñez; Coral Barbas. Metabolomics reveals metabolite changes in acute pulmonary embolism. *Journal of proteome research*. 13 - 2, pp. 805 - 821. 07/02/2014. ISSN 1535-3907

**DOI:** 10.1021/pr400872j

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.245

**Position of publication:** 14

**Category:** BIOCHEMICAL RESEARCH METHODS

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

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

- 102** Pablo Cardinal Fernández; Nicolás Nin; Jesús Ruíz Cabello; José A Lorente. Systems Medicine: A New Approach to Clinical Practice. *Archivos de bronconeumologia*. 04/01/2014. ISSN 1579-2129

**Type of production:** Scientific paper

- 103** Ma Paz Zafra; Carla Mazzeo; Cristina Gámez; Ainara Rodriguez Marco; Ana de Zulueta; Veronica Sanz; Izaskun Bilbao; Jesús Ruiz Cabello; Jose M Zubeldia; Victoria del Pozo. Gene silencing of SOCS3 by siRNA intranasal delivery inhibits asthma phenotype in mice. *PLoS one*. 9 - 3, pp. e91996. 2014. ISSN 1932-6203

**DOI:** 10.1371/journal.pone.0091996

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.234

**Position of publication:** 9

**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

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

**No. of journals in the cat.:** 57

- 104** Alessia Ferrarini; Francisco Javier Ruperez; Marcela Erazo; M Paz Martinez; Felipe Villar Álvarez; Germán Peces Barba; Nicolás González Mangado; María Fernanda Troncoso; Jesús Ruiz Cabello; Coral Barbas. Fingerprinting based metabolomic approach with lc-ms to sleep apnea and hypopnea syndrome: A pilot study. *Electrophoresis*. 17/06/2013. ISSN 1522-2683

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.261

**Position of publication:** 14

**Format:** Journal

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

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

**No. of journals in the cat.:** 75

- 105** D Serrano-Ruiz; M Laurenti; J Ruiz-Cabello; E López-Cabarcos; J Rubio-Retama. Hybrid microparticles for drug delivery and magnetic resonance imaging. *Journal of Biomedical Materials Research Part B-Applied Biomaterials*. 101 - 4, pp. 498 - 505. 05/2013.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.308

**Position of publication:** 27

**Format:** Journal

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

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

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

- 106** José Luis Izquierdo García; G Peces Barba; Jesús M<sup>o</sup> Ruiz-Cabello Osuna. Influence of ambient air on NMR-based metabolomics of exhaled breath condensates. *European Respiratory Journal*. 40 - 5, pp. 1294 - 1296. 11/2012.



**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.355  
**Position of publication:** 3

**Format:** Journal  
**Category:** Science Edition - RESPIRATORY SYSTEM  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 50

- 107** F Herranz; J Pellico; J Ruíz-Cabello. Covalent functionalization of magnetic nanoparticles for biomedical imaging. SPIE. 10/2012.

**Type of production:** Scientific paper

**Format:** Journal

- 108** Mariana Seija; Cecilia Baccino; Nicolas Nin; Carolina Sanchez-Rodriguez; Rosario Granados; Antonio Ferruelo; Leticia Martinez-Caro; Jesus Ruiz-Cabello; Marta de Paula; Oscar Noboa; Andres Esteban; Jose Angel Lorente. Role of Peroxynitrite in Sepsis-Induced Acute Kidney Injury in an Experimental Model of Sepsis in Rats. Shock. 38 - 4, pp. 403 - 410. 10/2012. ISSN 1073-2322

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - SURGERY

**Impact index in year of publication:** 2.612

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

**Position of publication:** 36

**No. of journals in the cat.:** 198

- 109** L. Carrero-Gonzalez; T. Kaulisch; J. Ruiz-Cabello; J. M. Perez-Sanchez; G. Peces-Barba; D. Stiller; I. Rodriguez. Apparent diffusion coefficient of hyperpolarized {3He} with minimal influence of the residual gas in small animals. Nmr in Biomedicine. 25 - 9, pp. 1026 - 1032. 09/2012. ISSN 0952-3480

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - SPECTROSCOPY

**Impact index in year of publication:** 3.446

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

**Position of publication:** 5

**No. of journals in the cat.:** 43

- 110** Fernando Herranz; Carsten B. Schmidt-Weber; Mohamed H. Shamji; Annemarie Narkus; Jesus Ruiz-Cabello; Ramon Vilar. Superparamagnetic iron oxide nanoparticles conjugated to a grass pollen allergen and an optical probe. Contrast Media & Molecular Imaging. 7 - 4, pp. 435 - 439. 08/2012. ISSN 1555-4309

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

**Impact index in year of publication:** 2.872

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

**Position of publication:** 30

**No. of journals in the cat.:** 120

- 111** Angelos Kyriazis; I. Rodriguez; N. Nin; J. L. Izquierdo-Garcia; J. A. Lorente; J. M. Perez-Sanchez; J. Pesic; L. E. Olsson; J. Ruiz-Cabello. Dynamic Ventilation He-3 {MRI} for the Quantification of Disease in the Rat Lung. IEEE Transactions on Biomedical Engineering. 59 - 3, pp. 777 - 786. 03/2012. ISSN 0018-9294

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 2.348

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

**Position of publication:** 26

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

- 112** Jose L. Izquierdo-Garcia; Nicolas Nin; Jesus Ruiz-Cabello; Yeny Rojas; Marta de Paula; Sonia Lopez-Cuenca; Luis Morales; Leticia Martinez-Caro; Pilar Fernandez-Segoviano; Andres Esteban; Jose A. Lorente. A metabolomic approach for diagnosis of experimental sepsis. Intensive Care Medicine. 37 - 12, pp. 2023 - 2032. 12/2011. ISSN 0342-4642

**Type of production:** Scientific paper

**Format:** Journal



**Impact source:** ISI**Impact index in year of publication:** 5.399**Position of publication:** 3**Category:** Science Edition - CRITICAL CARE MEDICINE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 26

- 113** Jesus Ruiz-Cabello; Geerten W. Vuister; Chrit T. W. Moonen; Peter van Gelderen; Jack S. Cohen; Peter C. M. van Zijl. Gradient-enhanced heteronuclear correlation spectroscopy: theory and experimental aspects. 1992. Journal of magnetic resonance {(San} Diego, Calif. : 1997). 213 - 2, pp. 446 - 66. 12/2011. ISSN 1096-0856

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - SPECTROSCOPY**Impact index in year of publication:** 2.138**Journal in the top 25%:** No**Position of publication:** 16**No. of journals in the cat.:** 42

- 114** Brad P. Barnett; Jesus Ruiz-Cabello; Partha Hota; Ronald Ouwerkerk; Michael J. Shablott; Cal Lauzon; Piotr Walczak; Wesley D. Gilson; Vadappuram P. Chacko; Dara L. Kraitchman; Aravind Arepally; Jeff W. M. Bulte. Use of perfluorocarbon nanoparticles for non-invasive multimodal cell tracking of human pancreatic islets. Contrast Media & Molecular Imaging. 6 - 4, pp. 251 - 259. 08/2011. ISSN 1555-4309

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING**Impact index in year of publication:** 3.328**Journal in the top 25%:** Yes**Position of publication:** 19**No. of journals in the cat.:** 116

- 115** J. L. Izquierdo-Garcia; G. Peces-Barba; S. Heili; R. Diaz; E. Want; J. Ruiz-Cabello. Is {NMR-based} metabolomic analysis of exhaled breath condensate accurate?. European Respiratory Journal. 37 - 2, pp. 468 - 470. 02/2011. ISSN 0903-1936

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** RESPIRATORY SYSTEM**Impact index in year of publication:** 6.355**Journal in the top 25%:** Yes**Position of publication:** 3**No. of journals in the cat.:** 50

- 116** Brad P. Barnett; Jesus Ruiz-Cabello; Partha Hota; Robert Liddell; Piotr Walczak; Valerie Howland; Vadappuram P. Chacko; Dara L. Kraitchman; Aravind Arepally; Jeff W. M. Bulte. Fluorocapsules for Improved Function, Immunoprotection, and Visualization of Cellular Therapeutics with {MR}, {US}, and {CT} Imaging. Radiology. 258 - 1, pp. 182 - 191. 01/2011. ISSN 0033-8419

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING**Impact index in year of publication:** 6.339**Journal in the top 25%:** Yes**Position of publication:** 2**No. of journals in the cat.:** 120

- 117** Jose L. Izquierdo-Garcia; Laura del Puerto-Nevado; German Peces-Barba; Sandra Perez-Rial; Sarah Heili; Palmira Villa; David Castejon; Nicolas Gonzalez-Mangado; Jesus Ruiz-Cabello. A metabonomic approach to evaluate {COPD} in a model of cigarette smoke exposure in mice. Metabolomics. 6 - 4, pp. 564 - 573. 12/2010. ISSN 1573-3882

**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - ENDOCRINOLOGY & METABOLISM**Impact index in year of publication:** 3.608**Journal in the top 25%:** No



**Position of publication:** 38**No. of journals in the cat.:** 116

- 118** Angelos Kyriazis; Rigoberto Perez de Alejo; Ignacio Rodriguez; Lars E. Olsson; Jesus Ruiz-Cabello. A {MRI} and Polarized Gases Compatible Respirator and Gas Administrator for the Study of the Small Animal Lung: Volume Measurement and Control. Ieee Transactions on Biomedical Engineering. 57 - 7, pp. 1745 - 1749. 07/2010. ISSN 0018-9294  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.790  
**Position of publication:** 32  
**Format:** Journal  
**Category:** Science Edition - ENGINEERING, BIOMEDICAL  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 70
- 119** Bensheng Qiu; Daohai Xie; Piotr Walczak; Xubin Li; Jesus Ruiz-Cabello; Satoshi Minoshima; Jeff W. M. Bulte; Xiaoming Yang. Magnetosonoporation: Instant Magnetic Labeling of Stem Cells. Magnetic Resonance in Medicine. 63 - 6, pp. 1437 - 1441. 06/2010. ISSN 0740-3194  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.268  
**Position of publication:** 21  
**Format:** Journal  
**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 113
- 120** Daohai Xie; Bensheng Qiu; Piotr Walczak; Xubin Li; Jesus Ruiz-Cabello; Satoshi Minoshima; Jeff W. M. Bulte; Xiaoming Yang. Optimization of magnetosonoporation for stem cell labeling. Nmr in Biomedicine. 23 - 5, pp. 480 - 484. 06/2010. ISSN 0952-3480  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.064  
**Position of publication:** 10  
**Format:** Journal  
**Category:** Science Edition - SPECTROSCOPY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 42
- 121** Dorota A. Kedziorek; Naser Muja; Piotr Walczak; Jesus Ruiz-Cabello; Assaf A. Gilad; Chunfa C. Jie; Jeff W. M. Bulte. Gene Expression Profiling Reveals Early Cellular Responses to Intracellular Magnetic Labeling with Superparamagnetic Iron Oxide Nanoparticles. Magnetic Resonance in Medicine. 63 - 4, pp. 1031 - 1043. 04/2010. ISSN 0740-3194  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.268  
**Position of publication:** 21  
**Format:** Journal  
**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 113
- 122** Raquel Mejias; Sonia Perez-Yaguee; Alejandro G. Roca; Nicolas Perez; Angeles Villanueva; Magdalena Canete; Santos Manes; Jesus Ruiz-Cabello; Marina Benito; Amilcar Labarta; Xavier Batlle; Sabino Veintemillas-Verdaguer; M. Puerto Morales; Domingo F. Barber; Carlos J. Serna. Liver and brain imaging through dimercaptosuccinic acid-coated iron oxide nanoparticles. Nanomedicine. 5 - 3, pp. 397 - 408. 04/2010. ISSN 1743-5889  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.260  
**Position of publication:** 16  
**Format:** Journal  
**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 160



- 123** Jose L. Izquierdo-Garcia; Ignacio Rodriguez; Angelos Kyriazis; Palmira Villa; Pilar Barreiro; Manuel Desco; Jesus Ruiz-Cabello. A novel R-package graphic user interface for the analysis of metabonomic profiles. *Bmc Bioinformatics*. 10, 10/2009. ISSN 1471-2105  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATHEMATICAL & COMPUTATIONAL BIOLOGY  
**Impact index in year of publication:** 3.428 **Journal in the top 25%:** Yes  
**Position of publication:** 4 **No. of journals in the cat.:** 29
- 124** Jose M. Perez-Sanchez; Ignacio Rodriguez; Jesus Ruiz-Cabello. Random Walk Simulation of the {MRI} Apparent Diffusion Coefficient in a Geometrical Model of the Acinar Tree. *Biophysical Journal*. 97 - 2, pp. 656 - 664. 07/2009. ISSN 0006-3495  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - BIOPHYSICS  
**Impact index in year of publication:** 3.668 **Journal in the top 25%:** Yes  
**Position of publication:** 17 **No. of journals in the cat.:** 72
- 125** Ignacio Rodriguez; Jose Manuel Perez-Sanchez; German Peces-Barba; Thomas Kaulisch; Detlef Stiller; Jesus Ruiz-Cabello. Long-Range Diffusion of Hyperpolarized He-3 in Rats. *Magnetic Resonance in Medicine*. 61 - 1, pp. 54 - 58. 01/2009. ISSN 0740-3194  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 3.267 **Journal in the top 25%:** Yes  
**Position of publication:** 22 **No. of journals in the cat.:** 120
- 126** Fernando Herranz; M. Puerto Morales; Alejandro G. Roca; Ramon Vilar; Jesus Ruiz-Cabello. A new method for the aqueous functionalization of superparamagnetic {Fe<sub>2</sub>O<sub>3</sub>} nanoparticles. *Contrast Media & Molecular Imaging*. 3 - 6, pp. 215 - 222. 12/2008. ISSN 1555-4309  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 3.255 **Journal in the top 25%:** Yes  
**Position of publication:** 19 **No. of journals in the cat.:** 92
- 127** Jesus Ruiz-Cabello; Piotr Walczak; Dorota A. Kedziorek; Vadappuram P. Chacko; Anna H. Schmieder; Samuel A. Wickline; Gregory M. Lanza; Jeff W. M. Bulte. In Vivo {"Hot"} Spot" {MR} Imaging of Neural Stem Cells Using Fluorinated Nanoparticles. *Magnetic Resonance in Medicine*. 60 - 6, pp. 1506 - 1511. 12/2008. ISSN 0740-3194  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 3.267 **Journal in the top 25%:** Yes  
**Position of publication:** 22 **No. of journals in the cat.:** 120
- 128** I. Rodriguez; S. Perez-Rial; J. Gonzalez-Jimenez; J. M. Perez-Sanchez; F. Herranz; N. Beckmann; J. Ruiz-Cabello. Magnetic resonance methods and applications in pharmaceutical research. *Journal of Pharmaceutical Sciences*. 97 - 9, pp. 3637 - 3665. 09/2008. ISSN 0022-3549  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI



**Impact index in year of publication:** 2.996  
**Position of publication:** 28

**Category:** Science Edition - CHEMISTRY,  
MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 127

- 129** Piotr Walczak; Jian Zhang; Assaf A. Gilad; Dorota A. Kedziorek; Jesus Ruiz-Cabello; Randell G. Young; Mark F. Pittenger; Peter C. M. Van Zijl; Judy Huang; Jeff W. M. Bulte. Dual-modality monitoring of targeted intraarterial delivery of mesenchymal stem cells after transient ischemia. *Stroke*. 39 - 5, pp. 1569 - 1574. 05/2008. ISSN 0039-2499

**Type of production:** Scientific paper  
**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - PERIPHERAL VASCULAR  
DISEASE

**Impact index in year of publication:** 6.158  
**Position of publication:** 5

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 68

- 130** Yiftach Roth; Aharon Ocherashvili; Dianne Daniels; Jesus Ruiz-Cabello; Stephan E. Maier; Arie Orenstein; Yael Mardor. Quantification of water compartmentation in cell suspensions by diffusion-weighted and T-2-weighted {MRI}. *Magnetic Resonance Imaging*. 26 - 1, pp. 88 - 102. 01/2008. ISSN 0730-725X

**Type of production:** Scientific paper  
**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - RADIOLOGY, NUCLEAR  
MEDICINE & MEDICAL IMAGING

**Impact index in year of publication:** 1.871  
**Position of publication:** 47

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 92

- 131** Fernando Herranz; M. Puerto Morales; Alejandro G. Roca; Manuel Desco; Jesus Ruiz-Cabello. A New Method for the Rapid Synthesis of Water Stable Superparamagnetic Nanoparticles. *Chemistry-a European Journal*. 14 - 30, pp. 9126 - 9130. 2008. ISSN 0947-6539

**Type of production:** Scientific paper  
**Impact source:** ISI

**Format:** Journal

**Category:** CHEMISTRY, MULTIDISCIPLINARY

**Impact index in year of publication:** 5.831  
**Position of publication:** 21

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 152

- 132** P Barreiro; C Zheng; Da-Wen Sun; N Hernandez-Sanchez; JM Perez-Sanchez; J Ruiz-Cabello. Non-destructive seed detection in mandarines: comparison of automatic threshold methods in FLASH and COMSPIRA MRIs. *Postharvest Biology and Technology*. 47, pp. 189 - 198. 2008.

**Type of production:** Scientific paper  
**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - HORTICULTURE

**Impact index in year of publication:** 2.128  
**Position of publication:** 3

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 23

- 133** Oscar Goni; Maite Munoz; Jesus Ruiz-Cabello; Maria I. Escribano; Carmen Merodio. Changes in water status of cherimoya fruit during ripening. *Postharvest Biology and Technology*. 45 - 1, pp. 147 - 150. 07/2007. ISSN 0925-5214

**Type of production:** Scientific paper  
**Impact source:** ISI

**Format:** Journal

**Category:** Science Edition - HORTICULTURE

**Impact index in year of publication:** 1.590  
**Position of publication:** 5

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 22



- 134** N. Hernandez-Sanchez; P. Barreiro; J. Ruiz-Cabello. On-line identification of seeds in mandarins with magnetic resonance imaging. *Biosystems Engineering*. 95 - 4, pp. 529 - 536. 12/2006. ISSN 1537-5110  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - AGRICULTURAL ENGINEERING  
**Impact index in year of publication:** 1.030 **Journal in the top 25%:** No  
**Position of publication:** 6 **No. of journals in the cat.:** 9
- 135** Jose M. Perez-Sanchez; Ignacio Rodriguez; Rigoberto Perez De Alejo; Manuel Cortijo; Jesus Ruiz-Cabello. COMSPIRA3D: A combined approach to radial and spiral 3D MRI. *Concepts in Magnetic Resonance Part B-Magnetic Resonance Engineering*. 29B - 3, pp. 115 - 124. 08/2006. ISSN 1552-5031  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 1.113 **Journal in the top 25%:** No  
**Position of publication:** 29 **No. of journals in the cat.:** 39
- 136** Piotr Walczak; Jesus Ruiz-Cabello; Dorota A. Kedziorek; Assaf A. Gilad; Sopo Lin; Bradley Barnett; Lu Qin; Hyam Levitsky; Jeff W. M. Bulte. Magneto-electroporation: improved labeling of neural stem cells and leukocytes for cellular magnetic resonance imaging using a single {FDA-approved} agent. *Nanomedicine : nanotechnology, biology, and medicine*. 2 - 2, pp. 89 - 94. 06/2006. ISSN 1549-9642  
**Type of production:** Scientific paper **Format:** Journal
- 137** M. Herranz; J. Martin-Caballero; M. F. Fraga; J. Ruiz-Cabello; J. M. Flores; M. Desco; V. Marquez; M. Esteller. The novel {DNA} methylation inhibitor zebularine is effective against the development of murine T-cell lymphoma. *Blood*. 107 - 3, pp. 1174 - 1177. 02/2006. ISSN 0006-4971  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - HEMATOLOGY  
**Impact index in year of publication:** 10.370 **Journal in the top 25%:** Yes  
**Position of publication:** 2 **No. of journals in the cat.:** 61
- 138** O. Bomati-Miguel; M. P. Morales; P. Tartaj; J. Ruiz-Cabello; P. Bonville; M. Santos; X. Q. Zhao; S. Veintemillas-Verdaguer. Fe-based nanoparticulate metallic alloys as contrast agents for magnetic resonance imaging. *Biomaterials*. 26 - 28, pp. 5695 - 5703. 10/2005. ISSN 0142-9612  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, BIOMATERIALS  
**Impact index in year of publication:** 4.698 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 15
- 139** R. P. de Alejo; J. Ruiz-Cabello; P. Villa; I. Rodriguez; J. M. Perez-Sanchez; G. Peces-Barba; M. Cortijo. A fully {MRI-compatible} animal ventilator for special-gas mixing applications. *Concepts in Magnetic Resonance Part B-Magnetic Resonance Engineering*. 26B - 1, pp. 93 - 103. 08/2005. ISSN 1552-5031  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 1.027 **Journal in the top 25%:** No  
**Position of publication:** 31 **No. of journals in the cat.:** 41



- 140** N. Hernandez; P. Barreiro; M. Ruiz-Altisent; J. Ruiz-Cabello; M. E. Fernandez-Valle. Detection of seeds in citrus using {MRI} under motion conditions and improvement with motion correction. Concepts in Magnetic Resonance Part B-Magnetic Resonance Engineering. 26B - 1, pp. 81 - 92. 08/2005. ISSN 1552-5031  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 1.027 **Journal in the top 25%:** No  
**Position of publication:** 31 **No. of journals in the cat.:** 41
- 141** J. Ruiz-Cabello; J. M. Perez-Sanchez; R. P. de Alejo; I. Rodriguez; N. Gonzalez-Mangado; G. Peces-Barbas; M. Cortijo. Diffusion-weighted F-19-{MRI} of lung periphery: Influence of pressure and air-{SF6} composition on apparent diffusion coefficients. Respiratory Physiology & Neurobiology. 148 - 1-2, pp. 43 - 56. 08/2005. ISSN 1569-9048  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RESPIRATORY SYSTEM  
**Impact index in year of publication:** 1.827 **Journal in the top 25%:** No  
**Position of publication:** 15 **No. of journals in the cat.:** 33
- 142** J. M. Perez-Sanchez; R. P. de Alejo; I. Rodriguez; M. Cortijo; G. Peces-Barba; J. Ruiz-Cabello. In vivo diffusion weighted F-19 {MRI} using {SF6}. Magnetic Resonance in Medicine. 54 - 2, pp. 460 - 463. 08/2005. ISSN 0740-3194  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 3.508 **Journal in the top 25%:** Yes  
**Position of publication:** 10 **No. of journals in the cat.:** 84
- 143** R. Sotillo; O. Renner; P. Dubus; J. Ruiz-Cabello; J. Martin-Caballero; M. Barbacid; A. Carnero; M. Malumbres. Cooperation between Cdk4 and p27(kip1) in tumor development: A preclinical model to evaluate cell cycle inhibitors with therapeutic activity. Cancer Research. 65 - 9, pp. 3846 - 3852. 05/2005. ISSN 0008-5472  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - ONCOLOGY  
**Impact index in year of publication:** 7.616 **Journal in the top 25%:** Yes  
**Position of publication:** 11 **No. of journals in the cat.:** 123
- 144** Y. Roth; T. Tichler; G. Kostenich; J. Ruiz-Cabello; S. E. Maier; J. S. Cohen; A. Orenstein; Y. Mardor. High-b-value diffusion-weighted {MR} imaging for pretreatment prediction and early monitoring of tumor response to therapy in mice. Radiology. 232 - 3, pp. 685 - 692. 09/2004. ISSN 0033-8419  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 5.076 **Journal in the top 25%:** Yes  
**Position of publication:** 3 **No. of journals in the cat.:** 84
- 145** S. Veintemillas-Verdaguer; M. D. Morales; O. Bomati-Miguel; C. Bautista; X. Q. Zhao; P. Bonville; R. P. de Alejo; J. Ruiz-Cabello; M. Santos; F. J. Tendillo-Cortijo; J. Ferreiros. Colloidal dispersions of maghemite nanoparticles produced by laser pyrolysis with application as {NMR} contrast agents. Journal of Physics D-Applied Physics. 37 - 15, pp. 2054 - 2059. 08/2004. ISSN 0022-3727  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** PHYSICS, APPLIED





**Impact index in year of publication:** 1.642  
**Position of publication:** 23

**Journal in the top 25%:** No  
**No. of journals in the cat.:** 79

- 146** J. Puerta-Fonolla; T. Vazquez-Osorio; J. Ruiz-Cabello; J. Murillo-Gonzalez; A. Pena-Melian. Magnetic resonance microscopy versus light microscopy in human embryology teaching. *Clinical Anatomy*. 17 - 5, pp. 429 - 435. 07/2004. ISSN 0897-3806

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 0.664

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

**Position of publication:** 12

**No. of journals in the cat.:** 16

- 147** T. Munoz; M. T. Sanchez-Ballesta; J. Ruiz-Cabello; M. I. Escribano; C. Merodio. The acid metabolism of Annona fruit during ripening. *Journal of Horticultural Science & Biotechnology*. 79 - 3, pp. 472 - 478. 05/2004. ISSN 1462-0316

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - HORTICULTURE

**Impact index in year of publication:** 0.562

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

**Position of publication:** 12

**No. of journals in the cat.:** 22

- 148** R. P. de Alejo; C. Garrido; P. Villa; I. Rodriguez; J. J. Vaquero; J. Ruiz-Cabello; M. Cortijo. Automatic tuning and matching of a small multifrequency saddle coil at 4.7 T. *Magnetic Resonance in Medicine*. 51 - 4, pp. 869 - 873. 04/2004. ISSN 0740-3194

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

**Impact index in year of publication:** 3.468

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

**Position of publication:** 9

**No. of journals in the cat.:** 84

- 149** M. C. Bautista; O. Bomati-Miguel; X. Zhao; M. P. Morales; T. Gonzalez-Carreno; R. P. de Alejo; J. Ruiz-Cabello; S. Veintemillas-Verdaguer. Comparative study of ferrofluids based on dextran-coated iron oxide and metal nanoparticles for contrast agents in magnetic resonance imaging. *Nanotechnology*. 15 - 4, pp. S154 - S159. 04/2004. ISSN 0957-4484

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** MATERIALS SCIENCE, MULTIDISCIPLINARY

**Impact index in year of publication:** 3.322

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

**Position of publication:** 17

**No. of journals in the cat.:** 177

- 150** I. Rodriguez; R. P. De Alejo; M. Cortijo; J. Ruiz-Cabello. {COMSPIRA:} A common approach to spiral and radial {MRI}. *Concepts in Magnetic Resonance Part B-Magnetic Resonance Engineering*. 20B - 1, pp. 40 - 44. 02/2004. ISSN 1043-7347

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - SPECTROSCOPY

**Impact index in year of publication:** 0.438

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

**Position of publication:** 39

**No. of journals in the cat.:** 42





- 151** I. M. Barbash; J. Leor; M. S. Feinberg; A. Tessone; S. Aboulafia-Etzion; A. Orenstein; J. Ruiz-Cabello; J. S. Cohen; Y. Mardor. Interventional magnetic resonance imaging for guiding gene and cell transfer in the heart. *Heart*. 90 - 1, pp. 87 - 91. 01/2004. ISSN 1355-6037  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.271  
**Position of publication:** 10  
**Format:** Journal  
**Category:** Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 71
- 152** N. Hernandez-Sanchez; P. Barreiro; M. Ruiz-Altisent; J. Ruiz-Cabello; M. E. Fernandez-Valle. Detection of freeze injury in oranges by magnetic resonance imaging of moving samples. *Applied Magnetic Resonance*. 26 - 3, pp. 431 - 445. 2004. ISSN 0937-9347  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 0.665  
**Position of publication:** 34  
**Format:** Journal  
**Category:** Science Edition - SPECTROSCOPY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 42
- 153** Rigoberto Perez de Alejo; Jesus Ruiz-Cabello; Manuel Cortijo; Ignacio Rodriguez; Imanol Echave; Javier Regadera; Juan Arrazola; Pablo Aviles; Pilar Barreiro; Domingo Gargallo; Manuel Grana. Computer-assisted enhanced volumetric segmentation magnetic resonance imaging data using a mixture of artificial neural networks. *Magnetic resonance imaging*. 21 - 8, pp. 901 - 12. 10/2003. ISSN 0730-725X  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.420  
**Position of publication:** 42  
**Format:** Journal  
**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 83
- 154** M. P. Morales; O. Bomati-Miguel; R. P. de Alejo; J. Ruiz-Cabello; S. Veintemillas-Verdaguer; K. {O'Grady}. Contrast agents for {MRI} based on iron oxide nanoparticles prepared by laser pyrolysis. *Journal of Magnetism and Magnetic Materials*. 266 - 1-2, pp. 102 - 109. 10/2003. ISSN 0304-8853  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 0.910  
**Position of publication:** 74  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 177
- 155** G. Peces-Barba; J. Ruiz-Cabello; Y. Cremillieux; I. Rodriguez; D. Dupuich; V. Callot; M. Ortega; M. L. R. Arbo; M. Cortijo; N. Gonzalez-Mangado. Helium-3 {MRI} diffusion coefficient: correlation to morphometry in a model of mild emphysema. *European Respiratory Journal*. 22 - 1, pp. 14 - 19. 07/2003. ISSN 0903-1936  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.999  
**Position of publication:** 9  
**Format:** Journal  
**Category:** Science Edition - RESPIRATORY SYSTEM  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 31
- 156** J. A. Sanchez-Alcazar; E. Schneider; I. Hernandez-Munoz; J. Ruiz-Cabello; E. Siles-Rivas; P. de la Torre; B. Bornstein; G. Brea; J. Arenas; R. Garesse; J. A. Solis-Herruzo; A. J. Knox; P. Navas. Reactive oxygen species mediate the down-regulation of mitochondrial transcripts and proteins by tumour necrosis factor-alpha in L929 cells. *Biochemical Journal*. 370, pp. 609 - 619. 03/2003. ISSN 0264-6021  
**Type of production:** Scientific paper  
**Format:** Journal



**Impact source:** ISI

**Impact index in year of publication:** 4.101

**Position of publication:** 56

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

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

**No. of journals in the cat.:** 261

- 157** R. P. De Alejo; E. Alvarez; I. Rodriguez; E. M. Rodriguez; P. Villa; D. Pina; R. Shelton; J. Ruiz-Cabello; M. Cortijo. Magnetic resonance spectrometer controller and data postprocessing software. Concepts in Magnetic Resonance Part B-Magnetic Resonance Engineering. 16B - 1, pp. 1 - 14. 01/2003. ISSN 1043-7347

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - SPECTROSCOPY

**Impact index in year of publication:**

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

- 158** I. Rodriguez; R. P. de Alejo; J. Ruiz-Cabello. Pathway selection by pulsed field gradients. Magnetic Resonance in Medicine. 48 - 3, pp. 540 - 542. 09/2002. ISSN 0740-3194

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

**Impact index in year of publication:** 3.250

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

**Position of publication:** 7

**No. of journals in the cat.:** 81

- 159** J. Ruiz-Cabello; J. Regadera; C. Santisteban; M. Grana; R. P. de Alejo; I. Echave; P. Aviles; I. Rodriguez; I. Santos; D. Gargallo; M. Cortijo. Monitoring acute inflammatory processes in mouse muscle by {MR} imaging and spectroscopy: a comparison with pathological results. Nmr in Biomedicine. 15 - 3, pp. 204 - 214. 05/2002. ISSN 0952-3480

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - SPECTROSCOPY

**Impact index in year of publication:** 2.160

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

**Position of publication:** 12

**No. of journals in the cat.:** 38

- 160** D. Alonso; J. Serrano; I. Rodriguez; J. Ruiz-Cabello; A. P. Fernandez; J. M. Encinas; S. Castro-Blanco; M. L. Bentura; M. Santacana; A. Richart; P. Fernandez-Vizarra; L. O. Uttenthal; J. Rodrigo. Effects of oxygen and glucose deprivation on the expression and distribution of neuronal and inducible nitric oxide synthases and on protein nitration in rat cerebral cortex. Journal of Comparative Neurology. 443 - 2, pp. 183 - 200. 02/2002. ISSN 0021-9967

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - NEUROSCIENCES

**Impact index in year of publication:** 3.848

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

**Position of publication:** 36

**No. of journals in the cat.:** 197

- 161** E. Calvo; I. Palacios; E. Delgado; J. Ruiz-Cabello; P. Hernandez; O. Sanchez-Pernaute; J. Egido; G. Herrero-Beaumont. High-resolution {MRI} detects cartilage swelling at the early stages of experimental osteoarthritis. Osteoarthritis and Cartilage. 9 - 5, pp. 463 - 472. 07/2001. ISSN 1063-4584

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - ORTHOPEDICS

**Impact index in year of publication:** 2.219.

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

**Position of publication:** 1

**No. of journals in the cat.:** 42



- 162** Al Gonzalez; M Grana; J Ruiz-Cabello; A D'Anjou; FX Albizuri FX. Experimental results of an evolution-based adaptation strategy for VQ image filtering. *Information Sciences*. 133 - 3-4, pp. 249 - 266. 04/2001.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - COMPUTER SCIENCE, INFORMATION SYSTEMS  
**Impact index in year of publication:** 0.264. **Journal in the top 25%:** No  
**Position of publication:** 58 **No. of journals in the cat.:** 73
- 163** T. Munoz; J. Ruiz-Cabello; A. D. Molina-Garcia; M. I. Escribano; C. Merodio. Chilling temperature storage changes the inorganic phosphate pool distribution in cherimoya *{(Annona) cherimola}* fruit. *Journal of the American Society for Horticultural Science*. 126 - 1, pp. 122 - 127. 01/2001. ISSN 0003-1062  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - HORTICULTURE  
**Impact index in year of publication:** 0.922 **Journal in the top 25%:** No  
**Position of publication:** 5 **No. of journals in the cat.:** 19
- 164** I. Rodriguez; J. Ruiz-Cabello. Density matrix calculations in *Mathematica* *{(TM)}*. *Concepts in Magnetic Resonance*. 13 - 2, pp. 143 - 147. 2001. ISSN 1043-7347  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 1.489 **Journal in the top 25%:** No  
**Position of publication:** 19 **No. of journals in the cat.:** 40
- 165** J. Puerta-Fonolla; J. Ruiz-Cabello; T. Vazquez-Osorio; J. Murillo-Gonzalez; A. Pena-Melian. The human embryo development through *{MMR.}*. *Italian journal of anatomy and embryology = Archivio italiano di anatomia ed embriologia*. 106 - 2 Suppl 2, pp. 155 - 160. 2001. ISSN 1122-6714  
**Type of production:** Scientific paper **Format:** Journal
- 166** P. Barreiro; C. Ortiz; M. Ruiz-Altisent; J. Ruiz-Cabello; M. E. Fernandez-Valle; I. Recasens; M. Asensio. Mealiness assessment in apples and peaches using *{MRI}* techniques. *Magnetic Resonance Imaging*. 18 - 9, pp. 1175 - 1181. 11/2000.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 1.452. **Journal in the top 25%:** No  
**Position of publication:** 31 **No. of journals in the cat.:** 80
- 167** Y. Mardor; O. Kaplan; M. Sterin; J. Ruiz-Cabello; E. Ash; Y. Roth; I. Ringel; J. S. Cohen. Noninvasive real-time monitoring of intracellular cancer cell metabolism and response to lonidamine treatment using diffusion weighted proton magnetic resonance spectroscopy. *Cancer Research*. 60 - 18, pp. 5179 - 5186. 09/2000. ISSN 0008-5472  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - ONCOLOGY  
**Impact index in year of publication:** 8.460. **Journal in the top 25%:** Yes  
**Position of publication:** 5 **No. of journals in the cat.:** 103
- 168** J. A. Sanchez-Alcazar; E. Schneider; M. A. Martinez; P. Carmona; I. Hernandez-Munoz; E. Siles; P. De la Torre; J. Ruiz-Cabello; I. Garcia; J. A. Solis-Herruzo. Tumor necrosis factor-alpha increases the steady-state reduction of cytochrome b of the mitochondrial respiratory chain in metabolically inhibited L929 cells. *Journal of Biological Chemistry*. 275 - 18, pp. 13353 - 13361. 05/2000. ISSN 0021-9258



**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 7.368

**Position of publication:** 27

**Format:** Journal

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

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

**No. of journals in the cat.:** 310

- 169** J. Ruiz-Cabello; B. Carrero-Gonzalez; P. Aviles; C. Santisteban; R. J. Mendez; J. Ferreiros; N. Malpica; A. Santos; D. Gargallo-Viola; J. Regadera. Magnetic resonance imaging in the evaluation of inflammatory lesions in muscular and soft tissues: An experimental infection model induced by Candida albicans. Magnetic Resonance Imaging. 17 - 9, pp. 1327 - 1334. 11/1999.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.389

**Position of publication:** 30

**Format:** Journal

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

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

**No. of journals in the cat.:** 78

- 170** P. Villa; J. J. Vaquero; S. Chesnick; J. Ruiz-Cabello. Probe efficiency improvement with remote and transmission line tuning and matching. Magnetic Resonance Imaging. 17 - 7, pp. 1083 - 1086. 09/1999.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.389

**Position of publication:** 30

**Format:** Journal

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

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

**No. of journals in the cat.:** 78

- 171** P. Barreiro; J. Ruiz-Cabello; M. E. Fernandez-Valle; C. Ortiz; M. Ruiz-Altisent. Mealiness assessment in apples using {MRI} techniques. Magnetic Resonance Imaging. 17 - 2, pp. 275 - 281. 02/1999.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.389

**Position of publication:** 30

**Format:** Journal

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

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

**No. of journals in the cat.:** 78

- 172** A. A. Rivas; C. Civera; J. Ruiz-Cabello; R. M. Castro. Interaction of bovine myelin basic protein with cholesterol. Journal of Colloid and Interface Science. 204 - 1, pp. 9 - 15. 08/1998. ISSN 0021-9797

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.679

**Position of publication:** 35

**Format:** Journal

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

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

**No. of journals in the cat.:** 92

- 173** S. Sardon; J. A. Sanchez-Alcazar; S. W. Collier; J. L. Lopez-Lacomba; M. Cortijo; J. Ruiz-Cabello. Effects of ethanol and dexamethasone on epidermis examined by in vitro P-31 magnetic resonance spectroscopy. Journal of Pharmaceutical Sciences. 87 - 2, pp. 249 - 255. 02/1998. ISSN 0022-3549

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.764

**Position of publication:** 21

**Format:** Journal

**Category:** CHEMISTRY

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

**No. of journals in the cat.:** 126



- 174** M. Rivera; J. J. Vaquero; A. Santos; J. Ruiz-Cabello; F. del Pozo. {MRI} visualization of small structures using improved surface coils. *Magnetic Resonance Imaging*. 16 - 2, pp. 157 - 166. 02/1998.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 1.208 **Journal in the top 25%:** No  
**Position of publication:** 30 **No. of journals in the cat.:** 79
- 175** J. A. {SanchezAlcazar}; J. {RuizCabello}; I. {HernandezMunoz}; P. S. Pobre; P. {delaTorre}; E. {SilesRivas}; I. Garcia; O. Kaplan; M. T. {MunozYague}; J. A. {SolisHerruzo}. Tumor necrosis factor-alpha increases {ATP} content in metabolically inhibited L929 cells preceding cell death. *Journal of Biological Chemistry*. 272 - 48, pp. 30167 - 30177. 11/1997. ISSN 0021-9258  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY  
**Impact index in year of publication:** 6.963. **Journal in the top 25%:** Yes  
**Position of publication:** 23 **No. of journals in the cat.:** 253
- 176** O. Kaplan; J. {RuizCabello}; J. S. Cohen. In vitro cytotoxic effects of tumor necrosis factor-alpha in human breast cancer cells may be associated with increased glucose consumption. *Febs Letters*. 406 - 1-2, pp. 175 - 178. 04/1997. ISSN 0014-5793  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1997 **Category:** BIOPHYSICS  
**Impact index in year of publication:** 3.504 **Journal in the top 25%:** Yes  
**Position of publication:** 7 **No. of journals in the cat.:** 46
- 177** M Rivera; JJ Vaquero; A Santos; Jesús Ruiz-Cabello; F del Pozo. Diseño óptimo de sondas de superficie (antenas) para IRM. *Radiología*. 39, pp. 31 - 38. 1997.  
**Type of production:** Scientific paper **Format:** Journal
- 178** S Sardón; J.L López-Lacomba; S.W Collier; J.A Sánchez-Alcazar; J.S Cohen; J Ruiz-Cabello. Effects of percutaneous penetration enhancers and dexametasone on epidermis by in vitro <sup>31</sup>P Magnetic Resonance spectroscopy. *J. Magn. Reson. Anal.* 3, pp. 113 - 119. 1997.  
**Type of production:** Scientific paper **Format:** Journal
- 179** J Ruiz-Cabello; M Izquierdo; I Lizasoain; M.A Moro; J Rodrigo; F Esteban; M Cortijo. La imagen funcional de Resonancia Magnética Nuclear: nuevas aplicaciones en el campo de la Biomedicina. *Anales de la Real Academia de Farmacia*. 63, pp. 473 - 491. 1997.  
**Type of production:** Scientific paper **Format:** Journal
- 180** J Ruíz-Cabello; S.W Collier; J Cohen J. <sup>31</sup>P Nuclear Magnetic Resonance Spectroscopy of cells and tissues. Phosphorus, sulfur and silicon. 109, pp. 361 - 364. 1996.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1996 **Category:** CHEMISTRY, INORGANIC & NUCLEAR  
**Impact index in year of publication:** 0.308 **Journal in the top 25%:** No  
**Position of publication:** 31 **No. of journals in the cat.:** 37
- 181** B Carrero González; F Esteban Alonso; M.E Fernandez Valle; C Santisteban; J Ruiz-Cabello; M Cortijo. Aplicación de la Resonancia Magnética a la obtención de mapas de localización funcional en corteza cerebral. *Radiología*. 38 - 7, pp. 469 - 478. 1996.





**Type of production:** Scientific paper

**Format:** Journal

- 182** M. Cortijo; C. Santisteban; B. {CarreroGonzalez}; J. Alvarado; J. {RuizCabello}. Improvement of functional magnetic resonance images by pretreatment of data. European Biophysics Journal with Biophysics Letters. 24 - 5, pp. 335 - 341. 1996. ISSN 0175-7571

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** JCR 1996

**Category:** Science Edition - BIOPHYSICS

**Impact index in year of publication:** 2.227

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

**Position of publication:** 14

**No. of journals in the cat.:** 39

- 183** J. {RUIZCABELLO}; K. {BERGHMANS}; O. {KAPLAN}; {ME} {LIPPMAN}; R. {CLARKE}; {JS} {COHEN}. Hormone Dependence of Breast Cancer Cells and the effects of Tamoxifen and Estrogen: 31 P NMR Studies. Breast Cancer Research and Treatment. 33 - 3, pp. 209 - 217. 03/1995. ISSN 0167-6806

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** JCR 1995

**Category:** Science Edition - ONCOLOGY

**Impact index in year of publication:** 2.879

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

**Position of publication:** 18

**No. of journals in the cat.:** 92

- 184** J. {RUIZCABELLO}; {WC} {BUSS}; {SW} {COLLIER}; {RI} {GLAZER}; {JS} {COHEN}. Changes in ATP after cyclosporin A treatment in a renal epithelial cell line in the rat studied by 31P-NMR spectroscopy. Research Communications in Molecular Pathology and Pharmacology. 86 - 1, pp. 3 - 13. 10/1994. ISSN 1078-0297

**Type of production:** Scientific paper

**Format:** Journal

- 185** {SW} {COLLIER}; S. {SARDON}; J. {RUIZCABELLO}; {WA} {JOHNSON}; {JS} {COHEN}; {SL} {SCHWARTZ}. Measurement of pharmacodynamic effects of dexamethasone on epidermis by 31P-nuclear magnetic resonance spectroscopy in vitro. Journal of Pharmaceutical Sciences. 83 - 9, pp. 1339 - 1344. 09/1994. ISSN 0022-3549

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** JCR 1994

**Category:** CHEMISTRY

**Impact index in year of publication:** 1.310

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

**Position of publication:** 30

**No. of journals in the cat.:** 110

- 186** {PCM} {VANZIJL}; {AS} {CHESNICK}; D. {DESPRES}; {CTW} {MOONEN}; J. {RUIZCABELLO}; P. {VANGELDEREN}. In vivo proton spectroscopy and spectroscopic imaging of [1-13C]-glucose and its metabolic products. Magnetic Resonance in Medicine. 30 - 5, pp. 544 - 551. 11/1993. ISSN 0740-3194

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** JCR 1993

**Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING

**Impact index in year of publication:** 2.257

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

**Position of publication:** 4

**No. of journals in the cat.:** 64

- 187** J. {RUIZSANZ}; J. {RUIZCABELLO}; O. {LOPEZMAYORGA}; M. {CORTIJO}; {PL} {MATEO}. Thermal stability of bovine-brain myelin membrane. European Biophysics Journal with Biophysics Letters. 21 - 3, pp. 169 - 178. 07/1992. ISSN 0175-7571

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** JCR 1992

**Category:** Science Edition - BIOPHYSICS

**Impact index in year of publication:** 1.811

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

**Position of publication:** 14

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





- 188** J. {RUIZSANZ}; J. {RUIZCABELLO}; {PL} {MATEO}; M. {CORTIJO}. The thermal transition in crude myelin proteolipid has a lipid rather than protein origin. *European Biophysics Journal with Biophysics Letters*. 21 - 1, pp. 71 - 76. 03/1992. ISSN 0175-7571  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1992 **Category:** BIOPHYSICS  
**Impact index in year of publication:** 1.811 **Journal in the top 25%:** No  
**Position of publication:** 14 **No. of journals in the cat.:** 33
- 189** K. {BERGHMANS}; J. {RUIZCABELLO}; H. {SIMPKINS}; {PA} {ANDREWS}; {JS} {COHEN}. Increase in the ATP signal after treatment with cisplatin in two different cell lines studied by <sup>31</sup>P NMR spectroscopy. *CISPLATIN* {IN} 2 {DIFFERENT} {CELL-LINES} {STUDIED} {BY} P-31 {NMR-SPECTROSCOPY}. *Biochemical and Biophysical Research Communications*. 183 - 1, pp. 114 - 120. 02/1992.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1992 **Category:** Science Edition - BIOPHYSICS  
**Impact index in year of publication:** 3.583 **Journal in the top 25%:** Yes  
**Position of publication:** 7 **No. of journals in the cat.:** 33
- 190** J Ruiz-Cabello; G.W. Vuister; C.T.W Moonen; P van Gelderen; J.S. Cohen; P.C.M. van Zijl. Gradient-enhanced heteronuclear correlation spectroscopy. Theory and experimental aspects. *Journal of Magnetic Resonance*. 100, pp. 282 - 302. 1992.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1992 **Category:** Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL  
**Impact index in year of publication:** 2.886 **Journal in the top 25%:** Yes  
**Position of publication:** 4 **No. of journals in the cat.:** 18
- 191** G.W Vuister; J Ruiz-Cabello; P.C.M van Zijl. Gradient-enhanced multiple-quantum filter(ge-MQF). A simple way to obtain single-scan phase-sensitive HMQC spectra. *Journal of Magnetic Resonance*. 100, pp. 215 - 220. 1992.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** JCR 1992 **Category:** PHYSICS, ATOMIC, MOLECULAR & CHEMICAL  
**Impact index in year of publication:** 2.886 **Journal in the top 25%:** Yes  
**Position of publication:** 4 **No. of journals in the cat.:** 18
- 192** M Cortijo; J.L López-Lacomba; F García-Blanco; J Ruiz-Cabello. Estabilidad de las proteínas. *Investigación y Ciencia*. 183, pp. 82 - 89. 1991.  
**Type of production:** Scientific paper **Format:** Journal
- 193** Stephens Maialen; Raul San José-Estepar; Jesus Ruiz-Cabello; Ignacio Arganda-Carrera; Ivan Macia; Karen Lopez-Linares. MRI to CTA Translation for Pulmonary Artery Evaluation Using CycleGANs Trained with Unpaired Data. *Thoracic Imaging Analysis. Proceedings of the International Workshop on Thoracic Image Analysis*. pp. 118 - 129. Springer, 14/12/2020.  
**DOI:** 10.1007/978-3-030-62469-9\_11  
**Type of production:** Book chapter  
**Position of signature:** 3  
**Total no. authors:** 6 **Corresponding author:** No

- 194** Fernando Herranz; M P Morales; Ignacio Rodriguez; Jesus Ruiz-Cabello. Iron oxide nanoparticle-based MRI contrast agents: characterization and in vivo use. Magnetic characterisation techniques for nanomaterials. pp. 85 - 120. 04/2017. Available on-line at: <url{papers3://publication/uuid/3EE4F907-3A8B-484C-BD54-03C9224CB193}>.  
**Type of production:** Book chapter **Format:** Book  
**Position of signature:** 4  
**Total no. authors:** 4 **Corresponding author:** Yes
- 195** N Hernández-Sánchez; P Barreiro; J Ruiz-Cabello. Spectroscopic methods for textures analysis. Optical monitoring of fresh and processed agricultural crops. CRC Press, Taylor&Francis, London, 2008.  
**Type of production:** Book chapter **Format:** Book
- 196** E. Fernandez; M. Grana; J. Ruiz-Cabello. On a gradient-based evolution strategy for parametric illumination correction. Information processing with evolutionary algorithms: from industrial applications to academic speculations. pp. 61 - 72. Springer Verlag, Berlin, 2005. ISBN 1-85233-866-0  
**Type of production:** Book chapter **Format:** Book
- 197** J. Ruiz-Cabello; J Manzanares. Principios básicos y aplicaciones de la resonancia magnética en psiquiatría: particularidades en modelos animales. Avances neurocientíficos y realidad clínica (V): Neuroimagen en Psiquiatría. Editorial CYM (Madrid)., 2002. ISBN 84-921848-4-1  
**Type of production:** Book chapter **Format:** Book
- 198** P Avilés; B Carrero-González; I Rodriguez; D Gargallo; Manuel Cortijo; Jesús Ruiz-Cabello. NMR in animal research: a non invasive powerful technique. Animal Research and Welfare A Partnership. Proc. Int. Joint Meeting 12th ICLAS General Assembly. pp. 151 - 155. Laboratory Animals Ltd, 2000. ISBN 0-901334-13-8  
**Type of production:** Book chapter
- 199** A. I. Gonzalez; M. Grana; I. Echave; J. Ruiz-Cabello. Bayesian {VQ} image filtering design with fast adaption Competitive Neural Networks. 1607, pp. 341 - 350. 1999. ISBN 3-540-66068-2  
**Type of production:** Book chapter **Format:** Book
- 200** Marco Filice; Jesus Ruiz-Cabello. Nucleic Acid Nanotheranostics. Nucleic Acid Nanotheranostics. Elsevier, 02/2019. Available on-line at: <url{papers3://publication/uuid/290A0FC1-BF68-4126-80B2-D51F2E4D3DAB}>. ISBN 0128144718  
**Type of production:** Scientific book or monograph **Format:** Book  
**Position of signature:** 2  
**Total no. authors:** 2
- 201** Alzola-Aldamizetxebarria, Saioa; Fernandez-Mendez, Laura; Padro, Daniel; Ruiz-Cabello, Jesus; Ramos-Cabrer, Pedro. A Comprehensive Introduction to Magnetic Resonance Imaging Relaxometry and Contrast Agents. ACS OMEGA. 2022. Available on-line at: <https://doi.org/10.1021/acsomega.2c03549>. ISSN 2470-1343  
**DOI:** 10.1021/acsomega.2c03549  
**Type of production:** Review **Format:** Journal  
**Position of signature:** 4  
**Total no. authors:** 5 **Corresponding author:** No  
**Impact source:** SCOPUS **Category:** Chemical Engineering (miscellaneous)  
**Impact index in year of publication:** 5.2 **Journal in the top 25%:** No  
**Position of publication:** 75 **No. of journals in the cat.:** 280



- 202** Jose L. Izquierdo-Garcia; Palmira Villa; Angelos Kyriazis; Laura del Puerto-Nevaldo; Sandra Perez-Rial; Ignacio Rodriguez; Natalia Hernandez; Jesus Ruiz-Cabello. Descriptive review of current {NMR-based} metabolomic data analysis packages. Progress in Nuclear Magnetic Resonance Spectroscopy. 59 - 3, pp. 263 - 270. 10/2011. ISSN 0079-6565  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 5.214 **Journal in the top 25%:** Yes  
**Position of publication:** 3 **No. of journals in the cat.:** 42
- 203** Fernando Herranz; Elena Almarza; Ignacio Rodriguez; Beatriz Salinas; Yamilka Rosell; Manuel Desco; Jeff W. Bulte; Jesus Ruiz-Cabello. The Application of Nanoparticles in Gene Therapy and Magnetic Resonance Imaging. Microscopy Research and Technique. 74 - 7, pp. 577 - 591. 07/2011. ISSN 1059-910X  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - ANATOMY & MORPHOLOGY  
**Impact index in year of publication:** 1.792 **Journal in the top 25%:** No  
**Position of publication:** 8 **No. of journals in the cat.:** 21
- 204** Jesus Ruiz-Cabello; Brad P. Barnett; Paul A. Bottomley; Jeff W. M. Bulte. Fluorine {(F-19)} {MRS} and {MRI} in biomedicine. Nmr in Biomedicine. 24 - 2, pp. 114 - 129. 02/2011. ISSN 0952-3480  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 3.214 **Journal in the top 25%:** Yes  
**Position of publication:** 9 **No. of journals in the cat.:** 42
- 205** Karim Mosbah; Jesus Ruiz-Cabello; Yves Berthezene; Yannick Cremillieux. Aerosols and gaseous contrast agents for magnetic resonance imaging of the lung. Contrast Media & Molecular Imaging. 3 - 5, pp. 173 - 190. 10/2008. ISSN 1555-4309  
**Type of production:** Review **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - RADIOLOGY, NUCLEAR MEDICINE & MEDICAL IMAGING  
**Impact index in year of publication:** 3.255 **Journal in the top 25%:** Yes  
**Position of publication:** 19 **No. of journals in the cat.:** 92
- 206** J.S Cohen; J.W Jaroszewski; O Kaplan; J Ruiz-Cabello; S.W Collier. A history of biological applications of NMR spectroscopy. Progress in Nuclear Magnetic Resonance Spectroscopy. 28, pp. 53 - 85. 1995.  
**Type of production:** Review **Format:** Journal  
**Impact source:** JCR 1995 **Category:** Science Edition - SPECTROSCOPY  
**Impact index in year of publication:** 5.632 **Journal in the top 25%:** Yes  
**Position of publication:** 2 **No. of journals in the cat.:** 33
- 207** B Carrero-Gonzalez; V Molina; J Ruiz-Cabello. Aplicaciones de la espectroscopia de resonancia magnética nuclear de fósforo al estudio de la esquizofrenia. Anales de Psiquiatria. 10, pp. 320 - 328. 1994.  
**Type of production:** Review **Format:** Journal
- 208** J. {RUIZCABELLO}; {JS} {COHEN}. NMR and the study of pathological state in cells and tissues. INTERNATIONAL REVIEW OF CYTOLOGY-A SURVEY OF CELL BIOLOGY. 145, pp. 1 - 63. 1993. ISSN 0074-7696  
**Type of production:** Review **Format:** Journal  
**Impact source:** JCR 1993 **Category:** Science Edition - CELL BIOLOGY



**Impact index in year of publication:** 3.662  
**Position of publication:** 10

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 75

**209** J. {RUIZCABELLO}; {JS} {COHEN}. Phospholipid metabolites as indicators of cancer cell function. Nmr in Biomedicine. 5 - 5, pp. 226 - 233. 10/1992. ISSN 0952-3480

**Type of production:** Review

**Format:** Journal

**Impact source:** JCR 1992

**210** Santos A; Fernández-Friera L; Villalba M; López-Melgar B; España S; Mateo J; Mota RA; Jiménez-Borreguero J; Ruiz-Cabello J. Cardiovascular imaging: what have we learned from animal models?. Frontiers Pharmacology. 6, pp. 227. 2015. Available on-line at: <<http://europepmc.org/abstract/med/26539113>>.

**DOI:** 10.3389/fphar.2015.00227

**Type of production:** Bibliographic review

**Format:** Journal

**Corresponding author:** Yes

**Impact source:** ISI

**Category:** Science Edition - PHARMACOLOGY & PHARMACY

**Impact index in year of publication:** 3.802

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

**Position of publication:** 51

**No. of journals in the cat.:** 255

**211** Fernando Herranz; Beatriz Salinas; Hugo Groult; Juan Pellico; Ana Victoria Lechuga-Vieco; Riju Bhavesh; Jesús Ruiz-Cabello. Superparamagnetic nanoparticles for atherosclerosis imaging. Nanomaterials. 4, pp. 408 - 438. 2014.

**Type of production:** Bibliographic review

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 2.076

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

**Position of publication:** 83

**No. of journals in the cat.:** 260

**212** Juan Pellico; Jesus Ruiz-Cabello; Fernando Herranz. Microwave-driven Synthesis of Iron Oxide Nanoparticles for Fast Detection of Atherosclerosis. Journal of Visualized Experiments (JOVE). 109, pp. e53472. 22/03/2016.

**DOI:** 10.3791/53472

**PMID:** 27022716

**Type of production:** Scientific-technical report

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES

**Impact index in year of publication:** 1.325

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

**Position of publication:** 17

**No. of journals in the cat.:** 57

**213** Comella-del-Barrio, Patricia; Luis Izquierdo-Garcia, Jose; Campos-Olivas, Ramon; Santiveri, Clara M.; Ruiz-Cabello, Jesus; Perez-Porcuna, Tomas M.; Dominguez, Jose. Detection of metabolic profile in urine for diagnosing pediatric tuberculosis. EUROPEAN RESPIRATORY JOURNAL. 54, 2019. Available on-line at: <<https://doi.org/10.1183/13993003.congress-2019.PA553>>. ISSN 0903-1936

**DOI:** 10.1183/13993003.congress-2019.PA553

**Type of production:** Abstract

**Position of signature:** 5

**Total no. authors:** 5

**Corresponding author:** Yes

**Impact source:** SCOPUS

**Category:** Pulmonary and Respiratory Medicine

**Impact index in year of publication:** 12.9

**Position of publication:** 6

**No. of journals in the cat.:** 131



- 214** Luis Izquierdo-Garcia, Jose; Fadon, Lucia; Beraza, Marta; Cossio, Unai; Llop, Jordi; Ruiz-Cabello, Jesus. In-vivo lung molecular imaging of choline metabolism in a rat model of pulmonary arterial hypertension. EUROPEAN RESPIRATORY JOURNAL. 54, 2019. Available on-line at: <<https://doi.org/10.1183/13993003.congress-2019.PA1422>>. ISSN 0903-1936  
**DOI:** 10.1183/13993003.congress-2019.PA1422  
**Type of production:** Abstract  
**Position of signature:** 6  
**Total no. authors:** 6  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 12.9  
**Position of publication:** 6  
**Corresponding author:** Yes  
**Category:** Pulmonary and Respiratory Medicine  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 131
- 215** Luis Izquierdo-Garcia, Jose; Comella-Del-Barrio, Patricia; Campos-Olivas, Ramon; Casanova, Federico; Dominguez, Jose; Ruiz-Cabello, Jesus. Benchtop NMR-based metabolomic analysis as a diagnostic tool for tuberculosis in clinical urine samples. EUROPEAN RESPIRATORY JOURNAL. 54, 2019. Available on-line at: <<https://doi.org/10.1183/13993003.congress-2019.PA3021>>. ISSN 0903-1936  
**DOI:** 10.1183/13993003.congress-2019.PA3021  
**Type of production:** Abstract  
**Position of signature:** 6  
**Total no. authors:** 6  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 12.9  
**Position of publication:** 6  
**Corresponding author:** Yes  
**Category:** Pulmonary and Respiratory Medicine  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 131
- 216** Osorio, J.; Tura-Ceide, O.; Pavia, J.; Lomena, F.; Vollmer, I.; Blanco, I.; Ruiz-Cabello, J.; Espana, S.; Castella, M.; Torralba, Y.; Sebastian, L.; Piccari, L.; Bonjoch, C.; Peinado, V.; Barbera, J. A.. Heterogeneity in Lung 18F-FDG Uptake in Precapillary Pulmonary Hypertension. AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE. 197, 2018. ISSN 1073-449X  
**Type of production:** Abstract  
**Position of signature:** 7  
**Total no. authors:** 15  
**Corresponding author:** No
- 217** B Salinas; J Ruiz-Cabello; MP Morales; F Herranz. Olefin Metathesis for the functionalization of Superparamagnetic Nanoparticles. Bioinspiration & Biomimetics. 2012.  
**Format:** Journal  
**Impact source:** ISI  
**Impact index in year of publication:** 2.412  
**Position of publication:** 6  
**Category:** Science Edition - ENGINEERING, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 90

## Works submitted to national or international conferences

- 1** **Title of the work:** Evaluating PEG coating of antifibrotic nanoparticles for pulmonary delivery  
**Name of the conference:** 8 reunión de investigación en hipertensión pulmonar  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Madrid, Spain  
**Date of event:** 01/03/2024





**End date:** 01/03/2024

**Organising entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)

"Evaluating PEG coating of antifibrotic nanoparticles for pulmonary delivery".

**2 Title of the work:** The influence of sex on the progression of pulmonary arterial hypertension in mice

**Name of the conference:** 8 reunión de investigación en hipertensión pulmonar

**Type of event:** Conference

**Corresponding author:** Yes

**City of event:** Madrid, Spain

**Date of event:** 01/03/2024

**End date:** 01/03/2024

**Organising entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)

"The influence of sex on the progression of pulmonary arterial hypertension".

**3 Title of the work:** Cardiovascular imaging challenges in difficult times

**Name of the conference:** 16th European Molecular Imaging Meeting

**Corresponding author:** Yes

**City of event:** Göttingen, Germany

**Date of event:** 24/08/2021

**End date:** 27/08/2021

**Organising entity:** European Molecular Imaging Society

Jesus Ruiz-Cabello Osuna.

**4 Title of the work:** Imagen funcional y molecular multimodal en hipertensión pulmonar

**Name of the conference:** I Seminario. Imagen avanzada en hipertensión pulmonar

**Corresponding author:** Yes

**City of event:** Barcelona, Catalonia, Spain

**Date of event:** 22/06/2021

**End date:** 22/06/2021

**Organising entity:** HOSPITAL CLINICO Y PROVINCIAL DE BARCELONA

Jesus Ruiz-Cabello Osuna.

**5 Title of the work:** Molecular and Functional biomarkers at CIC biomaGUNE

**Name of the conference:** Lectures

**Corresponding author:** Yes

**City of event:** Berlin, Germany

**Date of event:** 12/05/2021

**End date:** 12/05/2021

**Organising entity:** Max Dellbruck Center for Molecular Medicine

**City organizing entity:** Berlin, Germany

Jesus Ruiz-Cabello Osuna.

**6 Title of the work:** Biomedical Imaging in the frontier of Knowledge

**Name of the conference:** Seminar cycle of the Institute Biomedicina Sevilla (IBIS)

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

**Date of event:** 25/02/2021

**End date:** 25/01/2021

**Organising entity:** Instituto Biomedicina de Sevilla (IBIS)

Jesus Ruiz-Cabello Osuna.





- 7** **Title of the work:** Minimally invasive biomarkers for acute lung diseases  
**Name of the conference:** The Work Day of the Critical Lung  
**Corresponding author:** Yes  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 04/12/2019  
**End date:** 04/12/2019  
**Organising entity:** Pan American and Iberian Federation of Critical Medicine and Intensive Care (FEPIMCTI)  
**City organizing entity:** Madrid, Community of Madrid, Spain  
Jesus Ruiz-Cabello.
- 8** **Title of the work:** Right ventricle hypertrophy and lung metabolic reprogramming in pulmonary hypertension  
**Name of the conference:** Internacional Forum of researchers in Pulmonary Hypertension  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**Corresponding author:** No  
**City of event:** Madrid, Catalonia, Spain  
**Date of event:** 27/11/2019  
**Organising entity:** Fundación contra la hipertensión **Type of entity:** Foundation pulmonar  
**City organizing entity:** Madrid, Community of Madrid, Spain  
Jesus Ruiz-Cabello.
- 9** **Title of the work:** Detection of metabolic profile in urine for diagnosing pediatric tuberculosis  
**Name of the conference:** ERS International Congress  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** No  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 28/09/2019  
**End date:** 02/10/2019  
**Organising entity:** European Respiratory Society  
Patricia Comella-del Barrio; Jose Luis Izquierdo-García; Ramón Campos-Olivas; Clara M Santiveri; Jesús Ruiz-Cabello; Tomás M Pérez-Porcuna; José Domínguez. "Detection of metabolic profile in urine for diagnosing pediatric tuberculosis". En: European Respiratory Journal. 54 - Suppl 63, pp. PA553. 27/11/2019.  
**DOI:** 1183/13993003.congress-2019.PA553
- 10** **Title of the work:** In-vivo lung molecular imaging of choline metabolism in a rat model of pulmonary arterial hypertension  
**Name of the conference:** ERS International Congress  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 28/09/2019  
**End date:** 02/10/2019  
**Organising entity:** European Respiratory Society **Type of entity:** Associations and Groups  
**City organizing entity:** Basel, Switzerland  
Lucía Fadón; Jose Luis Izquierdo-García; Marta Beraza; Unai Cossio; Jordi Llop; Jesus Ruiz-Cabello. En: European Respiratory Journal. 54, pp. PA1422. 29/09/2019.



DOI: 10.1183/13993003.congress-2019.PA1422

- 11 Title of the work:** NMR-based metabolomic analysis as a diagnostic tool for tuberculosis in clinical urine samples  
**Name of the conference:** ERS International Congress  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**Corresponding author:** Yes  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 28/09/2019  
**End date:** 02/10/2019  
**Organising entity:** European Respiratory Society **Type of entity:** Associations and Groups  
**City organizing entity:** Basel, Switzerland  
Jose Luis Izquierdo-García; Patricia Comella; Ramon Campos-Olivas; Federico Casanova; Jose Dominguez; Jesus Ruiz-Cabello. En: European Respiratory Journal. 54, pp. PA3021. 29/09/2019.  
**DOI:** 10.1183/13993003.congress-2019.PA3021
- 12 Title of the work:** Assessment of cardiovascular and respiratory system as a whole: imaging, biomarkers and biosignals  
**Name of the conference:** Invited lectures at Biodonostia  
**Corresponding author:** Yes  
**City of event:** San Sebastián, Basque Country, Spain  
**Date of event:** 13/09/2019  
**End date:** 13/09/2019  
**Organising entity:** Instituto de investigación sanitaria **Type of entity:** Public Research Body Biodonostia  
**City organizing entity:** San Sebastián, Basque Country, Spain  
Jesus Ruiz-Cabello.
- 13 Title of the work:** Nanopartículas: diseño, síntesis, aplicaciones biomédicas  
**Name of the conference:** Curso de Herramientas analíticas para la caracterización y aplicaciones de nanopartículas  
**Type of event:** Workshop  
**Corresponding author:** Yes  
**City of event:** Zaragoza, Aragon, Spain  
**Date of event:** 04/07/2019  
**End date:** 05/07/2019  
**Organising entity:** Sociedad Española de Analítica: **Type of entity:** Associations and Groups Red Nacional Optobiosen  
**City organizing entity:** Zaragoza, Aragon, Spain  
Jesus Ruiz-Cabello.
- 14 Title of the work:** MRI Study of the influence of surface coating ageing on the in vivo biodistribution of iron oxide nanoparticles  
**Name of the conference:** Nanomed Europe  
**Corresponding author:** No  
**City of event:** Braga, Portugal  
**Date of event:** 17/06/2019  
**End date:** 19/06/2019  
**Organising entity:** Nanomedicine European **Type of entity:** Public Research Body Technology Platform & International Iberian Nanotechnology Laboratory



**City organizing entity:** Braga, Portugal

Natalia Herrero-Alvarez; Susana Carregal-Romero; Sandra Plaza-García; Rafael Piñol; Jesus Ruiz-Cabello; Daniel Padro; Angel Millán; Maurizio Prato; Pedro Ramos-Cabrer.

- 15 Title of the work:** Experiencias de un investigador y fundador de una empresa tecnológica  
**Name of the conference:** III Jornadas de Bioemprendimiento  
**Type of event:** Workshop **Geographical area:** National  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Pamplona, Foral Community of Navarre, Spain  
**Date of event:** 21/01/2019  
**End date:** 21/01/2019  
**Organising entity:** Universidad de Navarra **Type of entity:** University  
**City organizing entity:** Pamplona, Foral Community of Navarre, Spain

- 16 Title of the work:** Characterization of metabolic reprogramming in Pulmonary Hypertension  
**Name of the conference:** International Workshop in Molecular Imaging  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** SAN SEBASTIAN, Basque Country, Spain  
**Date of event:** 20/11/2017  
**End date:** 23/11/2017  
**Organising entity:** CIC BIOMAGUNE **Type of entity:** Public Research Body  
**City organizing entity:** SAN SEBASTINA, Basque Country, Spain  
JESUS RUIZ-CABELLO OSUNA.

- 17 Title of the work:** Nanotecnología y su aplicación a la Clínica  
**Name of the conference:** 62nd Congreso Nacional de la Sociedad Española de Farmacia Hospitalaria  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** MADRID, Community of Madrid, Spain  
**Date of event:** 18/10/2017  
**End date:** 31/10/2017  
**Organising entity:** SOCIEDAD ESPAÑOLA DE FARMACIA HOSPITALARIA  
**City organizing entity:** MADRID, Community of Madrid, Spain  
JESUS RUIZ-CABELLO OSUNA.

- 18 Title of the work:** Nuevas técnicas de imagen y espectroscópicas para la caracterización de la Hipertensión Pulmonar  
**Name of the conference:** Hot topics en Hipertension Pulmonar  
**Type of event:** Workshop **Geographical area:** National  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**Corresponding author:** Yes  
**City of event:** MADRID, Community of Madrid, Spain  
**Date of event:** 20/09/2017  
**Organising entity:** Hospital Universitario La Paz **Type of entity:** Healthcare Institutions  
**City organizing entity:** MADRID, Community of Madrid, Spain  
JESUS RUIZ-CABELLO OSUNA.



- 19** **Title of the work:** Metabolomics As A Diagnostic Tool For Biomarker Discovery In Sepsis  
**Name of the conference:** American Thoracic Society annual meeting  
**Corresponding author:** No  
**City of event:** San Diego, United States of America  
**Date of event:** 18/05/2017  
**End date:** 23/05/2017  
**Organising entity:** American Thoracic Society  
**Type of contribution:** Scientific book or monograph  
L Morales; S Naz; Y Rojas; A Ferruelo; D Molina; L M Caro; N Nin; A Garcia; C Barbas; J Izquierdo-Garcia; J Ruiz-Cabello; A Artigas; J Lorente. "American journal of respiratory and critical care medicine". 2017.
- 20** **Title of the work:** Enlighthening iron oxides: a core-doped nanosystem dor dual hot spot molecular imaging  
**Name of the conference:** 2nd workshop on biomaterials and applications  
**Type of event:** Workshop  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**Corresponding author:** Yes  
**City of event:** SANTIAGO COMPOSTELA, Galicia, Spain  
**Date of event:** 27/04/2017  
**End date:** 28/04/2017  
**Organising entity:** CIQUS UNIVERSIDAD SANTIAGO COMPOSTELA  
**City organizing entity:** SANTIAGO COMPOSTELA, Galicia, Spain
- 21** **Title of the work:** Accuracy of Attenuation Correction in PET/MRI with Special Focus on Large Arteries  
**Name of the conference:** 29th Annual meeting of the Society of Nuclear Medicine and molecular Imaging  
**City of event:** Barcelona, Catalonia, Spain  
**Date of event:** 15/10/2016  
**End date:** 19/10/2016  
**Organising entity:** Society of Nuclear Medicine and molecular Imaging  
**Type of contribution:** Scientific book or monograph  
A Mota-Cobian; J A Farto; L Fernandez-Friera; J Sanchez-Gonzalez; B L Melgar; L Jimenez-Borreguero; V Fuster; J Ruiz-Cabello; S España. "European Journal of Nuclear Medicine and Molecular Imaging". pp. S501 - S501. 10/2016.
- 22** **Title of the work:** Feasibility of Gallium-68 Chelates as Diffusible PET Tracers for Cardiac Imaging  
**Name of the conference:** 29th Annual meeting of the Society of Nuclear Medicine and molecular Imaging  
**City of event:** Barcelona, Catalonia, Spain  
**Date of event:** 15/10/2016  
**End date:** 19/10/2016  
**Organising entity:** Society of Nuclear Medicine and molecular Imaging  
**Type of contribution:** Scientific book or monograph  
S España; T Arias; C Velasco; J Pellico; F Herranz; J Ruiz-Cabello; J Mateo. "European Journal of Nuclear Medicine and Molecular Imaging". pp. S72 - S72. 10/2016.
- 23** **Title of the work:** Dual single core nanoparticles  
**Name of the conference:** Contrast Media Research 2015  
**Type of event:** Conference  
**Corresponding author:** Yes  
**City of event:** Berlin, Berlin, Germany  
**Date of event:** 07/11/2015



**End date:** 10/11/2015  
**Organising entity:** Charité Hospital Berlin  
**City organizing entity:** Berlin, Berlin, Germany  
**Type of contribution:** Scientific-technical report  
Available on-line at: <<http://www.cmr2015.de/>>.

- 24** **Title of the work:** MRI and fluorescence imaging with upconverting nanoparticles: a new multimodal approach for lung targeting  
**Name of the conference:** Annual Meeting of the International Society of Magnetic Resonance in Medicine)  
**City of event:** Salt Lake City, United States of America  
**Date of event:** 04/2013  
**Organising entity:** International Society of Magnetic Resonance  
Yannick Cremillieux; Jesus Ruz-Cabello; Moreno Zamai; Andrea Bianchi; Hugo Groult.
- 25** **Title of the work:** Uniform magnetite nanoparticles larger than 20 nm synthesized by an aqueous route  
**Name of the conference:** 2nd International Workshop on Magnetic Particle Imaging (IWMPI) 2012  
**Type of participation:** 'Participatory - poster  
**City of event:** Lübeck, Germany  
**Date of event:** 15/03/2012  
**End date:** 16/03/2012  
Sabino Veintemillas-Verdaguer; M. P. Morales; C. Serna; M A Vergés; J Ruiz-Cabello; F. Herranz.
- 26** **Title of the work:** New methodologies for the functionalization of superparamagnetic nanoparticles; cross olefin metathesis  
**Name of the conference:** NanoSpain Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Santander, Cantabria, Spain  
**Date of event:** 27/02/2012  
**End date:** 01/03/2012  
B Salinas; J. Ruiz-Cabello; M.P. Morales; F. Herranz.
- 27** **Title of the work:** Synthesis of Up-Converting NanoPhosphors micelles. A new class of Nanoparticles with potential application for optical biomedical imaging  
**Name of the conference:** NanoSpain Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Santander, Cantabria, Spain  
**Date of event:** 27/02/2012  
**End date:** 01/03/2012  
H. Groult; J. Ruiz-Cabello; F. Herranz.
- 28** **Title of the work:** A non-targeted metabolomic approach with LC-QTOF-MS in serum to study acute lung injury in a animal model  
**Name of the conference:** HTC-12 Twelfth International symposium on Hyphenated techniques in chromatography and Hyphenated chromatographic analyzers  
**Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Bruges, Belgium  
**Date of event:** 31/01/2012  
**End date:** 03/02/2012  
Shama Naz; Antonia García; Marcela Erazo; Jesús Ruiz-Cabello; Andres Esteban; J L Lorente; Nicolás Nin; Coral Barbas.



- 29** **Title of the work:** Metabolomic differences in two types of lung diseases (COPD and OSAHS) uncovered by GC-MS  
**Name of the conference:** HTC-12 Twelfth International symposium on Hyphenated techniques in chromatography and Hyphenated chromatographic analyzers  
**Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Bruges, Belgium  
**Date of event:** 31/01/2012  
**End date:** 03/02/2012  
Alessia Ferrarini; Antonia García; Marcela Erazo; Francisco J. Ruperez; Felipe Villar-Álvarez; Germán Peces-Barba; Jesús Ruiz-Cabello; Coral Barbas.
- 30** **Title of the work:** A Novel Non-Targeted Metabolomic Approach In Ventilator Induced Lung  
**Name of the conference:** ATS San Francisco 2012  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** San Francisco, United States of America  
**Date of event:** 2012  
**End date:** 2012  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
S. Naz; A. Garcia; M. Erazo; J. Ruiz-Cabello; A. Esteban; J. A. Lorente; J. L. Izquierdo-Garcia; C. Barbas. "Am J Respir Crit Care Med 185; 2012: A6724". En: Am J Respir Crit Care Med. 185, pp. A6724. 2012.
- 31** **Title of the work:** Metabolomic Analysis As A Diagnostic Tool For Acute Respiratory Distress Syndrome Caused By H1N1 Influenza Infection In Humans  
**Name of the conference:** ATS San Francisco 2012  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** San Francisco, United States of America  
**Date of event:** 2012  
**End date:** 2012  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Jose L. Izquierdo-Garcia; Jesús Ruiz-Cabello; Pablo Cardinal; Pilar Fernandez-Segoviano; Andrés Esteban; José A. Lorente. "Am J Respir Crit Care Med 185; 2012: A1149". En: Am J Respir Crit Care Med. 185, pp. A1149.
- 32** **Title of the work:** Metabolomic Analysis Of Serum, Renal Cortex Tissue And Urine In Experimental Sepsis  
**Name of the conference:** ATS San Francisco 2012  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** San Francisco, United States of America  
**Date of event:** 2012  
**End date:** 2012  
**With external admission assessment committee:** Yes  
**Type of contribution:** Scientific paper  
Jose L. Izquierdo-Garcia; Jesus Ruiz-Cabello; Pablo Cardinal; Yeny Rojas; Leticia Martinez-Caro; Marta de Paula; Rosario Granados; Andrés Esteban; José A. Lorente. "Am J Respir Crit Care Med 185; 2012: A5990". En: Am J Respir Crit Care Med. 185, pp. A5990. 2012.





- 33** **Name of the conference:** Workshop on methodology for functional pulmonary MRI  
**Type of event:** Conference  
**Type of participation:** Organizational - Scientific and organizing committee  
**City of event:** Sheffield, United Kingdom  
**Date of event:** 28/11/2011  
**End date:** 02/12/2012
- 34** **Title of the work:** Applications of HP gas in animals  
**Name of the conference:** Workshop on methodology for functional pulmonary MRI  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Sheffield, United Kingdom  
**Date of event:** 28/11/2011  
**End date:** 02/12/2012  
Jesús Ruiz-Cabello.
- 35** **Title of the work:** Metabolomic Fingerprinting Approach To Sleep Apnea Disorder In Human Plasma  
**Name of the conference:** Workshop on methodology for functional pulmonary MRI  
**Type of participation:** 'Participatory - poster  
**City of event:** Sheffield, United Kingdom  
**Date of event:** 28/11/2011  
**End date:** 02/12/2011  
Alessia Ferrarini; Antonia García; Marcela Erazo; Francisco J. Ruperez; Felipe Villar-Álvarez; Germán Peces-Barba; Jesús Ruiz-Cabello; Coral Barbas.
- 36** **Name of the conference:** 2nd International Meeting: Image and ventilation  
**Type of participation:** Organizational - Scientific and organizing committee  
**City of event:** Toledo, Castile-La Mancha, Spain  
**Date of event:** 16/09/2011  
**End date:** 16/09/2011  
Jesús Ruiz-Cabello.
- 37** **Title of the work:** Introduction to NMR spectroscopy  
**Name of the conference:** Workshop on Pulmonary Imaging techniques  
**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 15/09/2011  
**End date:** 16/09/2011  
Jesús Ruiz-Cabello.
- 38** **Name of the conference:** Workshop on Pulmonary Imaging techniques  
**Type of participation:** Organizational - Scientific and organizing committee  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 15/09/2011  
**End date:** 16/09/2011  
Jesús Ruiz-Cabello.
- 39** **Title of the work:** Covalent functionalization of superparamagnetic nanoparticles: olefin metathesis  
**Name of the conference:** European Congress and Exhibition on Advanced Materials and processes (EUROMAT 2011)



**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - poster

**City of event:** Montpellier, France

**Date of event:** 12/09/2011

**End date:** 15/09/2011

B. Salinas; J. Ruiz-Cabello; M. Desco; F. Herranz.

- 40 Title of the work:** Superparamagnetic Iron Oxide Nanoparticles for bioimaging: Chemical modification of the surfactant

**Name of the conference:** European Congress and Exhibition on Advanced Materials and processes (EUROMAT 2011)

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**City of event:** Montpellier, France

**Date of event:** 12/09/2011

**End date:** 15/09/2011

F. Herranz; B. Salinas; M. Benito; M. Desco; J. Ruiz-Cabello.

- 41 Name of the conference:** Workshop on Translational Research in Lung Biology

**Type of event:** Workshop

**Type of participation:** Organizational - Scientific and organizing committee

**City of event:** Getafe, Madrid, Community of Madrid, Spain

**Date of event:** 12/09/2011

**End date:** 14/09/2011

Jesús Ruiz-Cabello.

- 42 Title of the work:** Is the NMR based metabolomic analysis of exhaled breath condensate accurate?

**Name of the conference:** Breath Analysis Summit 2011. International Conference on breath research

**Type of event:** Conference

**Type of participation:** Participatory - invited/keynote **Reasons for participation:** Upon invitation talk

**City of event:** Parma, Italy

**Date of event:** 11/09/2011

**End date:** 14/09/2011

JL Izquierdo; G Peces Barba; J. Ruiz-Cabello.

- 43 Title of the work:** Diagnosis of Ventilator Induced Lung Injury by MRS

**Name of the conference:** XLVI Congreso Nacional de la Sociedad española de Medicina Intensiva, crítica y unidades coronarias (SEMICYUC)

**Type of event:** Conference

**Geographical area:** National

**Type of participation:** Participatory - oral communication

**City of event:** Baracaldo, Basque Country, Spain

**Date of event:** 12/06/2011

**End date:** 15/06/2011

N Nin; JL Izquierdo; Y Rojas-Vega; J Ruiz-Cabello; L Martínez-Caro; S López-Cuenca; A Esteban; J A Lorente.

- 44 Title of the work:** NMR based metabolomic analysis in experimental sepsis

**Name of the conference:** XLVI Congreso Nacional de la Sociedad española de Medicina Intensiva, crítica y unidades coronarias (SEMICYUC)

**Type of event:** Conference

**Geographical area:** National



**Type of participation:** Participatory - oral communication

**City of event:** Baracaldo, Basque Country, Spain

**Date of event:** 12/06/2011

**End date:** 15/06/2011

N Nin; JL Izquierdo; J Ruiz-Cabello; Y Rojas-Vega; C Sánchez; I Sánchez-Muñoz; L Morales; L Martínez-Caro; P Fernández-Sán José; A Esteban; J A Lorente.

**45 Title of the work:** Single lobe emphysema induction in the rat lung detected with diffusion weighted 3He MRI

**Name of the conference:** 19 th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** 'Participatory - poster

**City of event:** Quebec, Canada

**Date of event:** 06/05/2011

**End date:** 13/05/2011

L Carrero-González; T. Kaulisch; I. Rodriguez Ramirez de Arellano; J. Ruiz-Cabello; D. Stiller.

**46 Title of the work:** Ventilation strategy to minimize the effect of residual gas volume on ADC in rat lungs

**Name of the conference:** 19 th Annual Meeting and Exhibition of the International Society for Magnetic Resonance in Medicine

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** 'Participatory - poster

**City of event:** Quebec, Canada

**Date of event:** 06/05/2011

**End date:** 13/05/2011

L Carrero-González; T. Kaulisch; J. Ruiz-Cabello; J.M. Pérez-Sánchez; G. Peces-Barba; D. Stiller; I. Rodriguez Ramirez de Arellano.

**47 Title of the work:** Improved Synthesis of Hydrophilic Nanoparticles for Bioimaging

**Name of the conference:** Workshop of COST Action D43. Functionalized Materials and Interfaces

**Type of event:** Workshop

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**City of event:** Madrid, Community of Madrid, Spain

**Date of event:** 30/03/2011

**End date:** 01/04/2011

F. Herranz; B. Salinas; M. Desco; J. Ruiz-Cabello.

**48 Title of the work:** Metabolomic analysis of pulmonary tissue in experimental sepsis

**Name of the conference:** 23 Annual Congress of the European Society of Intensive Care Medicine (ESICM)

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**City of event:** Barcelona, Catalonia, Spain

**Date of event:** 09/10/2010

**End date:** 13/10/2010

JL Izquierdo; N Nin; J Ruiz-Cabello; C Sánchez-Rodríguez; L Morales; L Martínez-Caro; JA Lorente; A Esteban.

**49 Title of the work:** Functionalization of Nanoparticles for molecular imaging; A covalent approach

**Name of the conference:** 5th European Molecular Imaging Meeting

**Type of event:** Conference

**Geographical area:** European Union



**Type of participation:** 'Participatory - poster  
**City of event:** Warsaw, Poland  
**Date of event:** 26/05/2010  
**End date:** 29/05/2010  
F. Herranz; E. Almarza; B. Salinas; M. Desco; J. Ruiz-Cabello.

**50** **Title of the work:** Olefin metathesis for the functionalization of superparamagnetic nanoparticles  
**Name of the conference:** 5th European Molecular Imaging Meeting  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Warsaw, Poland  
**Date of event:** 26/05/2010  
**End date:** 29/05/2010  
B. Salinas; J. Ruiz-Cabello; M. Desco; M.P. Morales; F. Herranz.

**51** **Title of the work:** New murine sub-massive pulmonary embolism model, sensitive to both clinical treatments and diagnostic techniques  
**Name of the conference:** 2010 American Thoracic Conference International conference  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** New Orleans, United States of America  
**Date of event:** 14/05/2010  
**End date:** 19/05/2010  
J-C. Murciano; O.A. Marcos; A. Bueno; J.L. Izquierdo; L. Ramudo; F. Esquivel; M. Desco; J. Ruiz-Cabello.

**52** **Title of the work:** Long range diffusion of hyperpolarized  $^3\text{He}$  in normal and emphysematous rat lungs  
**Name of the conference:** 18th Scientific Meeting of the International Society of Magnetic Resonance in Medicine  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Estocolmo, Sweden  
**Date of event:** 01/05/2010  
**End date:** 07/05/2010  
I. Rodríguez; L. Carrero-González; T. Kaulisch; D. Stiller; J. M. Pérez-Sánchez; J. Ruiz-Cabello.

**53** **Title of the work:** Regional pulmonary pressure over volume curves of the rat lung measured by polarized  $^3\text{He}$  magnetic resonance imaging  
**Name of the conference:** 18th Scientific Meeting of the International Society of Magnetic Resonance in Medicine  
**Type of event:** Conference  
**Type of participation:** 'Participatory - poster  
**City of event:** Estocolmo, Sweden  
**Date of event:** 01/05/2010  
**End date:** 07/05/2010  
A. Kyriazis; I Rodriguez; JM Perez-Sanchez; LE Olsson; J. Ruiz-Cabello.

**54** **Title of the work:** El futuro en el diagnóstico por imagen del pulmón  
**Name of the conference:** VII Jornadas Internacionales en Neonatología (Sociedad española de Neonatología)  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - invited/keynote talk



**City of event:** Sevilla, Andalusia, Spain  
**Date of event:** 03/03/2010  
**End date:** 05/03/2010  
J. Ruiz-Cabello.

- 55** **Title of the work:** Diseño y construcción de bobina de radiofrecuencia para estudios en ratón empleando Resonancia Magnética de Imagen  
**Name of the conference:** XXVII Congreso Anual De La Sociedad Española De Ingeniería Biomédica 2009  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** Cádiz, Andalusia, Spain  
**Date of event:** 18/11/2009  
**End date:** 20/11/2009  
P. Villa; J. Ruiz-Cabello; J.J. Vaquero; M. Desco.
- 56** **Title of the work:** Aproximación metabonómica para la diagnosis precoz del EPOC en modelos murinos de exposición al tabaco  
**Name of the conference:** II Jornadas de Formación de CIBERES  
**Geographical area:** National  
**Type of participation:** Participatory - poster  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 15/10/2009  
**End date:** 16/10/2009  
JL Izquierdo García; L Puerto-Nevaldo; G Peces-Barba; S Perez-Rial; S Heili; P Villa; D Castejón; N Gonzalez-Mangado; J. Ruiz-Cabello.
- 57** **Title of the work:** In vivo  $^3\text{He}$  ADC and  $T2^*$ -weighted MRI in the rat lung at different volumes  
**Name of the conference:** 25th Annual Scientific Meeting of the European Society for Magnetic Resonance in Medicine and Biology  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Antalya, Turkey  
**Date of event:** 01/10/2009  
**End date:** 03/10/2009  
J.M. Pérez-Sánchez; L. Carrero-González; K. Hill; A. Kyriazis; I. Rodriguez; T. Kaulisch; D. Stiller; J. Ruiz-Cabello; L. Darrasse.
- 58** **Title of the work:** Imagerie pondérée en diffusion et  $T2^*$  dans le poumon de rat à différents volumes par résonance magnétique de l'hélium-3  
**Name of the conference:** General Congress of the French Society of Physics (Congrès general de a Socièté française de Physique)  
**Type of participation:** Participatory - oral communication  
**City of event:** Paris, France  
**Date of event:** 06/07/2009  
**End date:** 10/07/2009  
L. Carrero-González; K. Hill; A. Kyriazis; I. Rodriguez; T. Kaulisch; D. Stiller; J. Ruiz-Cabello; L. Darrasse.
- 59** **Title of the work:** Can the metabonomic analysis detect the metabolic profile in murine models?  
**Name of the conference:** 42º Congreso Nacional de la SEPAR  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - poster  
**City of event:** Santander, Cantabria, Spain



**Date of event:** 05/06/2009

**End date:** 08/06/2009

JL Izquierdo García; L Puerto-Nevado; G Peces-Barba; S Perez-Rial; S Heili; P Villa; I Rodriguez; N González-Mangado; J. Ruiz-Cabello.

- 60** **Title of the work:** Effects of application of positive end expiratory pressure on ADC in HP 3He MRI  
**Name of the conference:** 17th Scientific Meeting of the International Society of Magnetic Resonance in Medicine  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Honolulu, Hawaii, United States of America  
**Date of event:** 18/04/2009  
**End date:** 24/04/2009  
L. Carrero-González; T. Kaulisch; I. Rodriguez; J.M. Pérez-Sánchez; G. Peces-Barba; D. Stiller; J. Ruiz-Cabello.
- 61** **Title of the work:** La imagen de resonancia magnética de gases como herramienta de caracterización de la estructura y la función pulmonar  
**Name of the conference:** I Jornadas de Formación de CIBERES  
**Type of event:** Seminar **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 13/11/2008  
**End date:** 14/11/2008  
JL Izquierdo García; F. Herranz; I. Rodriguez; A. Kyriazis; J. Ruiz-Cabello.
- 62** **Title of the work:** La imagen de resonancia magnética de gases como herramienta de caracterización de la estructura y la función pulmonar  
**Name of the conference:** I Jornadas de Formación de CIBERES  
**Type of event:** Seminar **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Palma de Mallorca, Balearic Islands, Spain  
**Date of event:** 13/11/2008  
**End date:** 14/11/2008  
JM. Pérez-Sánchez; I. Rodriguez; J. Ruiz-Cabello.
- 63** **Title of the work:** Molecular Imaging: Synthesis of nanoparticles  
**Name of the conference:** V Simposio de investigadores jóvenes Real Sociedad Española de Química – Sigma Aldrich  
**Type of event:** Seminar **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** Santiago de Compostela, Galicia, Spain  
**Date of event:** 09/11/2008  
**End date:** 12/11/2008  
F. Herranz; M.P. Morales; A. G. Roca; R. Vilar; J. Ruiz-Cabello.
- 64** **Title of the work:** Graphical User Interface for Metabonomic Analysis  
**Name of the conference:** Advances in Metabolic Profile  
**Type of participation:** 'Participatory - poster  
**City of event:** Lisboa, Portugal  
**Date of event:** 16/10/2008





**End date:** 18/10/2008

JL Izquierdo-García; L. Puerto Nevado; G. Peces-Barba; S. Pérez-Rial; S. Heili; P. Villa; I. Rodríguez; J. Ruiz-Cabello.

- 65** **Title of the work:** Influence of diffusion gradient intensity on the ADC value with HP 3He in an animal model  
**Name of the conference:** XXVth Annual Meeting European Society for Magnetic Resonance in Medicine and Biology  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 02/10/2008  
**End date:** 04/10/2008  
G. Guillot; D. Habib; J. Pérez-Sanchez; L. del Puerto Nevado; S. Pérez-Rial; I. Rodríguez; J. Ruiz-Cabello; G. Peces-Barba.
- 66** **Title of the work:** El Análisis metabonómico del condensado exhalado es capaz de detectar el fenotipo metabólico de EPOC  
**Name of the conference:** XI Symposium Enfermedad Pulmonar Obstructiva Crónica  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** 'Participatory - poster  
**City of event:** Badalona, Barcelona, Catalonia, Spain  
**Date of event:** 19/06/2008  
**End date:** 20/06/2008  
JL. Izquierdo-García; S. Heili; L. Puerto; S. Perez-Rial; J. Ruiz-Cabello; G. Peces-Barba.
- 67** **Title of the work:** New general method for the synthesis of hydrophilic nanoparticles for MRI applications  
**Name of the conference:** NEW DEVELOPMENTS IN CONTRAST AGENT RESEARCH. Molecular Imaging, Magnetic Resonance, and Intermodality Contrast Agent Research. 11th Bi-Annual Conference  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Valencia, Valencian Community, Spain  
**Date of event:** 21/05/2008  
**End date:** 23/05/2008  
M.P. Morales; A. G. Roca; R. Vilar; J. Ruiz-Cabello.
- 68** **Title of the work:** Metabonomic Fingerprint of Acute Lung Tobacco Exposure in Mouse  
**Name of the conference:** 2008 American Thoracic Society International Conference  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Toronto, Canada  
**Date of event:** 16/05/2008  
**End date:** 21/05/2008  
**Organising entity:** American Thoracic Society  
S.B. Heili Frades; J. Ruiz Cabello; N. Hernandez Sanchez; S. Pérez Rial; P. Villa Valverde; D. Castejon Ferrer; L. Puerto Nevado; M.J. Rodriguez Nieto; N. Gonzalez Mangado; G. Peces Barba.
- 69** **Title of the work:** Magnetically labeled neural stem cells exhibit differential gene expresión of zinc (finger) binding proteins  
**Name of the conference:** International Society of Magnetic Resonance in Medicine (ISMRM)  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Toronto, Canada



**Date of event:** 03/05/2008

**End date:** 09/05/2008

**Organising entity:** ISMRM

DA Kedziorek; P. Walczak; CC Jie; N Muja; J. Ruiz-Cabello; AA Gilad; J.W.M. Bulte.

- 70** **Title of the work:** Fingerprint metatonómico de la exposición aguda al humo del tabaco en ratones  
**Name of the conference:** XIII Congreso de la Sociedad Madrileña de Neumología (NEUMOMADRID)  
**Type of event:** Conference **Geographical area:** Regional  
**Type of participation:** Participatory - oral communication  
**City of event:** Madrid, Community of Madrid, Spain  
**Date of event:** 12/04/2008  
**End date:** 13/04/2008  
**Organising entity:** NEUMOMADRID  
SB Heili-Frades; J. Ruiz-Cabello; N Hernández-Sánchez; S Pérez-Rial; P Villa; L Puerto; MJ Rodríguez-Nieto; G Peces-Barba.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

- 1** **Committee title:** Member of the European Respiratory Society  
**Primary (UNESCO code):** 320501 - Cardiology; 320508 - Pulmonary diseases  
**Affiliation entity:** European Respiratory Society  
**Start date:** 01/06/2021
- 2** **Committee title:** Member of the EUROPEAN SOCIETY OF MOLECULAR IMAGING  
**Primary (UNESCO code):** 220716 - Nuclear magnetic resonance  
**Secondary (UNESCO code):** 220700 - Nuclear physics; 329900 - Other medical specialities  
**Tertiary (UNESCO code):** 240499 - Other  
**Affiliation entity:** EUROPEAN SOCIETY OF MOLECULAR IMAGING  
**City affiliation entity:** COLOGNE, Germany  
**Start date:** 01/01/2021

### Organization of R&D activities

- 1** **Title of the activity:** Cardiovascular Imaging. 19th Annual Meeting of the European Society for Molecular Imaging  
**Type of activity:** Chairman **Geographical area:** European Union  
**Convening entity:** EUROPEAN SOCIETY OF MOLECULAR IMAGING (ESMI)  
**City convening entity:** Porto, Portugal  
**Start-End date:** 12/03/2024 - 15/03/2024 **Duration:** 4 days
- 2** **Title of the activity:** 8a Reunión de investigación en hipertensión pulmonar  
**Type of activity:** Chairman and organizer **Geographical area:** European Union  
**Convening entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**City convening entity:** Madrid, Spain  
**Start-End date:** 01/03/2024 - 01/03/2024 **Duration:** 1 day



- 3** **Title of the activity:** Nanotechnology for lung and brain therapy  
**Type of activity:** Invited lecture **Geographical area:** National  
**Convening entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City convening entity:** madrid, Community of Madrid, Spain  
**Start-End date:** 03/12/2022 - 03/12/2022
- 4** **Title of the activity:** Nanotechnology for drug delivery to the brain  
**Type of activity:** Invited Lecture **Geographical area:** Non EU International  
**Convening entity:** Society for Image guide neurointerventions (SIGN)  
**City convening entity:** Baltimore, United States of America  
**Start-End date:** 22/08/2022 - 23/08/2022
- 5** **Title of the activity:** The Molecular and Functional Imaging Facility  
**Type of activity:** Invited lecture **Geographical area:** Non EU International  
**Convening entity:** Iberian Chapter of the International Society of Magnetic Resonance  
**City convening entity:** San Sebastian, Basque Country, Spain  
**Start-End date:** 06/04/2022 - 06/04/2022
- 6** **Title of the activity:** Systems biology of cardiac/pulmonary diseases  
**Type of activity:** Invited Lecture **Geographical area:** European Union  
**Convening entity:** European Molecular Imaging Society  
**City convening entity:** Thessaloniki,, Greece  
**Start-End date:** 15/03/2022 - 18/03/2022
- 7** **Title of the activity:** Cardiovascular imaging challenges in difficult times  
**Type of activity:** Invited lecture and chair of Focus Session on Immunity, Inflammation and Cardiovascular Disease **Geographical area:** European Union  
**City of event:** Gottingen, Germany  
**Convening entity:** 16th European Molecular Imaging Meeting  
**City convening entity:** Gottingen, Germany  
**Type of participation:** Chairman  
**Start-End date:** 24/08/2021 - 27/08/2021
- 8** **Title of the activity:** I Seminario. Imagen avanzada en hipertensión pulmonar: Imagen funcional y molecular multimodal en hipertensión pulmonar  
**Type of activity:** Invited lecture **Geographical area:** Non EU International  
**Convening entity:** Unidad Hipertensión Pulmonar.Hospital Clinic de Barcelona **Type of entity:** Healthcare Institutions  
**City convening entity:** Barcelona, Catalonia, Spain  
**Start-End date:** 22/06/2021 - 22/06/2021
- 9** **Title of the activity:** Molecular and Functional biomarkers at CIC biomaGUNE  
**Type of activity:** Invited Lecture **Geographical area:** European Union  
**Convening entity:** Max Dellbruck Center for Molecular Medicine (Helmholtz Association)  
**City convening entity:** Berlin, Berlin, Germany  
**Start-End date:** 12/05/2021 - 12/05/2021



- 10 Title of the activity:** Introduction to Molecular Imaging  
**Type of activity:** Course: ADVANCED **Geographical area:** European Union  
NANOMEDICINE COURSE: FROM SYNTHESIS OF NANOMATERIALS TO APPLICATIONS  
**Convening entity:** Nanocare: SPANISH NANOMEDICINE NETWORK FOR THE DIAGNOSIS AND TREATMENT OF DISEASES WITH LARGE SOCIAL IMPACT: CANCER, ATHEROSCLEROSIS, INFECTIONS  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 05/05/2021 - 07/05/2021
- 11 Title of the activity:** Biomedical Imaging in the frontier of Knowledge  
**Type of activity:** Invited Lecture **Geographical area:** Non EU International  
**Convening entity:** INSTITUTO DE BIOMEDICINA DE SEVILLA **Type of entity:** State agency  
**City convening entity:** Sevilla, Andalusia, Spain  
**Start-End date:** 25/02/2021 - 25/02/2021
- 12 Title of the activity:** 2nd Spanish Conference on Biomedical Applications of Nanomaterials (SBAN19)  
**Type of activity:** Scientific **Geographical area:** European Union  
**City of event:** Madrid, Community of Madrid, Spain  
**Convening entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Start-End date:** 06/06/2019 - 07/06/2019
- 13 Title of the activity:** 3rd annual meeting of Research in Pulmonary Hypertension  
**Type of activity:** Scientific **Geographical area:** European Union  
**City of event:** Barcelona, Catalonia, Spain  
**Convening entity:** Hospital Clinic Barcelona  
**City convening entity:** Barcelona, Catalonia, Spain  
**Type of participation:** Organiser  
**N° assistants:** 54  
**Start-End date:** 01/03/2019 - 01/03/2019
- 14 Title of the activity:** International Symposium on Acute Pulmonary Research (Inspires)  
**Type of activity:** Invited lecturer **Geographical area:** European Union  
**Convening entity:** Hospital de Getafe **Type of entity:** Healthcare Institutions  
**City convening entity:** Getafe, Community of Madrid, Spain  
**Start-End date:** 02/11/2016 - 03/11/2016
- 15 Title of the activity:** Experimentación animal  
**Type of activity:** Invited lecturer **Geographical area:** National  
**Convening entity:** Hospital de Getafe  
**City convening entity:** Getafe, Community of Madrid, Spain  
**Start-End date:** 09/04/2015 - 10/04/2015
- 16 Title of the activity:** Master en Biomedicina Molecular (módulo de Enfermedades cardiovasculares)  
**Type of activity:** Coordinator **Geographical area:** European Union  
**Convening entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**City convening entity:** Madrid, Community of Madrid, Spain



**Start-End date:** 08/01/2014 - 15/02/2014

- 17** **Title of the activity:** Translational Aspects of Cardiovascular and Pulmonary Imaging –TACPI2013-  
**Type of activity:** International Congress **Geographical area:** European Union  
**Convening entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Start-End date:** 01/03/2013 - 02/03/2013 **Duration:** 2 days
- 18** **Title of the activity:** Master en Biomedicina Molecular (móduloBMM9 de enfermedades cardiovasculares)  
**Type of activity:** Coordinator **Geographical area:** European Union  
**Convening entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 07/01/2013 - 15/02/2013
- 19** **Title of the activity:** Kickoff Meeting of the Pulmonary Imaging Network (VII Framework Program of the UE)  
**Type of activity:** Meeting **Geographical area:** Non EU International  
**Convening entity:** EU  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser  
**Start-End date:** 19/11/2010 - 20/11/2010 **Duration:** 2 days
- 20** **Title of the activity:** Lung imaging: the latests developments and medical applications  
**Type of activity:** Symposium **Geographical area:** Non EU International  
**City convening entity:** Krakow, Poland  
**Type of participation:** Scientific Committee member and Moderator  
**Start-End date:** 24/05/2010 - 27/05/2010 **Duration:** 4 days
- 21** **Title of the activity:** Advanced Course of magnetic resonance lung imaging using hyperpolarized gases  
**Type of activity:** Symposium **Geographical area:** Non EU International  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Organiser, Scientific Committee Member and Course Presenter and Moderator  
**Start-End date:** 26/05/2008 - 30/05/2008 **Duration:** 5 days
- 22** **Title of the activity:** Lung imaging with hyperpolarized Helium-3 magnetic Resonance: from gas production to medical applications”  
**Type of activity:** Symposium **Geographical area:** Non EU International  
**Convening entity:** General Training School  
**City convening entity:** Paris, France  
**Type of participation:** Scientific Committee Member  
**Start-End date:** 21/01/2008 - 26/01/2008 **Duration:** 6 days
- 23** **Title of the activity:** AMI International conference: from basic science to clinical applicatons. High resolution molecular imaging in small animals (IMI/HiRes).  
**Type of activity:** Conference **Geographical area:** Non EU International  
**Convening entity:** Academy of Molecular Imaging  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Chairman  
**Start-End date:** 22/09/2003 - 24/09/2003 **Duration:** 3 days



- 24** **Title of the activity:** Cor pulmonale heterogeneity and disease trajectories  
**Type of activity:** Invited lecture (Christmas Lecture) **Geographical area:** National  
**Convening entity:** CIC bioGUNE, Centro de Investigación Cooperativa en Biociencias **Type of entity:** Innovation and Technology Centres  
**Start-End date:** 13/12/2022 - 13/12/2002
- 25** **Title of the activity:** Meeting Functional MRI of the lung  
**Type of activity:** Meeting **Geographical area:** European Union  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Type of participation:** Secretary  
**Start-End date:** 11/01/2002 - 12/01/2002 **Duration:** 2 days
- 26** **Title of the activity:** Animal Research and Welfare: a partnership". International Joint Meeting 12th ICLAS General Assembly & 17th Conference FELASA  
**Type of activity:** Symposium **Geographical area:** Non EU International  
**City convening entity:** Palma de Mallorca, Spain  
**Type of participation:** Chairman  
**Start-End date:** 26/05/1999 - 28/05/1999 **Duration:** 3 days
- 27** **Title of the activity:** 18th European Molecular Imaging Meeting  
**Type of activity:** CHAIR OF CARDIOLOGY **Geographical area:** European Union  
**Convening entity:** EUROPEAN SOCIETY OF MOLECULAR IMAGING (ESMI)  
**Type of participation:** Chairman  
**Start date:** 01/12/2022 **Duration:** 1 year
- 28** **Title of the activity:** MESA CIENTÍFICA: INVESTIGACIÓN GENÉTICA HAP  
**Type of activity:** invited chair **Geographical area:** National  
**Convening entity:** Fundación contra la hipertensión pulmonar **Type of entity:** Foundation  
**City convening entity:** Madrid, Spain  
**Start date:** 24/11/2022
- 29** **Title of the activity:** Imaging as research opportunity  
**Type of activity:** Invited lecture **Geographical area:** European Union  
**Convening entity:** Instituto de Química Médica **Type of entity:** State agency  
**City convening entity:** Madrid, Community of Madrid, Spain  
**Start date:** 06/04/2021
- 30** **Title of the activity:** Invited participation in a Career Panel of the American Chemical Society  
**Type of activity:** Oral **Geographical area:** National  
**City of event:** Valencia, Valencian Community, Spain  
**Convening entity:** American Chemical Society **Type of entity:** Associations and Groups  
**City convening entity:** Valencia, Valencian Community, Spain  
**Type of participation:** Invited panel of speakers  
**Nº assistants:** 100  
**Start date:** 27/09/2019
- 31** **Title of the activity:** 2nd international meeting of Research in Pulmonary Hypertension  
**Type of activity:** Scientific Workshop  
**Convening entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**City convening entity:** Madrid, Community of Madrid, Spain



**Start date:** 02/02/2018**Duration:** 2018 years - 1 month - 1 day

## R&D management

- 1 Name of the activity:** Scientific Assistant Director  
**Type of management:** Chair and abstract evaluation  
**Performed tasks:** Organizer and scientific committee  
**Entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**Start date:** 24/11/2022 **Duration:** 2 days
- 2 Name of the activity:** Scientific Assistant Director  
**Type of management:** Management of R&D&I actions and projects  
**Performed tasks:** Organizer and scientific committee  
**Entity:** CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)  
**Start date:** 01/10/2015 **Duration:** 4 years
- 3 Name of the activity:** Joint Master of Cardiovascular Research  
**Type of management:** Programme management  
**Performed tasks:** Coordination  
**City of entity:** Madrid, Community of Madrid, Spain  
**Entity:** Universidad Autónoma de Madrid **Type of entity:** University  
**Start date:** 01/03/2013 **Duration:** 2 years  
**Access system:** By vote among several candidates

## Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Final review of e-infrastructure of West-Life and MuG projects  
**Performed tasks:** Reviewer panel  
**Entity where activity was carried out:** RIA **Type of entity:** State agency  
European Union  
**City of entity:** Brussels, Belgium  
**Start-End date:** 16/01/2019 - 18/01/2019
- 2 Name of the activity:** Reviewer  
**Performed tasks:** Reviewer projects West-Life and MuG  
**Entity where activity was carried out:** European Commission **Type of entity:** European Commission  
**City of entity:** Brussels, Belgium  
**Start-End date:** 19/07/2017 - 21/06/2017
- 3 Name of the activity:** Reviewer  
**Performed tasks:** Review panel of the First interim meeting project Phenomenal  
**Entity where activity was carried out:** European Commission  
**City of entity:** Brussels, Belgium  
**Start-End date:** 04/03/2016 - 24/03/2016
- 4 Name of the activity:** Reviewer  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** PlosOne **Type of entity:** Journal



**Start-End date:** 28/01/2016 - 12/02/2016

- 5** **Name of the activity:** Reviewer  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** Journal of the American College of Cardiology  
**City of entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 04/01/2016 - 11/01/2016  
**Type of entity:** Journal
- 6** **Name of the activity:** Reviewer  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** American Journal of Respiratory and Critical Care Medicine  
**City of entity:** United States of America  
**Start-End date:** 26/11/2015 - 09/12/2015  
**Type of entity:** Journal
- 7** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** National Science Centre de Polonia  
**Start date:** 18/10/2019
- 8** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** European Journal of Respiratory  
**Start date:** 28/06/2019
- 9** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Junta de Castilla y León  
**Start date:** 21/06/2019  
**Type of entity:** Entidad Público
- 10** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** ACS Nano  
**Start date:** 22/05/2019
- 11** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Gobierno de Canarias  
**Start date:** 07/05/2019  
**Type of entity:** Others
- 12** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** International Journal of Medicine  
**Start date:** 02/04/2019
- 13** **Performed tasks:** Reviewer  
**City of entity:** Junta de Andalucía,  
**Start date:** 13/03/2019
- 14** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Journal of Magnetic Resonance Imaging  
**Start date:** 05/03/2019



- 15** **Performed tasks:** Gestor de proyectos FIS  
**Entity where activity was carried out:** Agencia Estatal de Investigación-AEI  
**Start date:** 20/02/2019
- 16** **Name of the activity:** Peer review  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** Magnetic Resonance Materials in Physics, Biology and medicine  
**Type of entity:** Journal  
**City of entity:** Madrid, Spain  
**Start date:** 10/07/2018
- 17** **Name of the activity:** Peer-reviewed article  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** Magnetic Resonance in Medicine  
**Type of entity:** Journal  
**City of entity:** Madrid, Spain  
**Start date:** 25/06/2018
- 18** **Name of the activity:** Manuscript peer-review  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** Heart, Lung and Circulation  
**Type of entity:** Journal  
**City of entity:** Madrid, Spain  
**Start date:** 12/04/2018
- 19** **Name of the activity:** Peer review  
**Performed tasks:** Reviewer  
**Entity where activity was carried out:** American Journal of Physiology: heart and circulatory physiology  
**Type of entity:** Journal  
**City of entity:** Madrid, Spain  
**Start date:** 03/02/2018
- 20** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Advanced Drug Delivery  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2012
- 21** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Small  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2011
- 22** **Performed tasks:** Reviewer  
**Entity where activity was carried out:** Journal of Applied Physics  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2010



- 23 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Advanced Functional Material  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2009
- 24 Performed tasks:** Reviewer  
**Entity where activity was carried out:** British Journal of Pharmacology  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2009
- 25 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Innate Immunity  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2009
- 26 Performed tasks:** Reviewer  
**Entity where activity was carried out:** European Respiratory Journal  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2008
- 27 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Nanomedicine  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2008
- 28 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Journal of Magnetism and Magnetic Materials  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2006
- 29 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Journal of Magnetic Resonance  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2005
- 30 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Magnetic Resonance in Medicine  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2005
- 31 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Respiratory and Physiology Neurobiology  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2004
- 32 Performed tasks:** Reviewer  
**Entity where activity was carried out:** Respiratory and Physiology Neurobiology  
**Type of activity:** Review of articles in scientific or technological journals  
**Start date:** 2004

**33 Performed tasks:** Reviewer**Entity where activity was carried out:** Journal of Magnetic Resonance Materials in Physics, Biology and Medicine (MAGMA)**Type of activity:** Review of articles in scientific or technological journals**Start date:** 2003**Other achievements****Stays in public or private R&D centres**

- 1** **Entity:** Johns Hopkins University Medical School **Type of entity:** University  
**City of entity:** Baltimore, United States of America  
**Start-End date:** 2005 - 2006 **Duration:** 1 year  
**Goals of the stay:** Beca movilidad
- 2** **Entity:** Georgetown University Medical Center. **Type of entity:** University  
**Faculty, institute or centre:** Department of Pharmacology  
**City of entity:** Washington DC, United States of America  
**Start-End date:** 1990 - 1992 **Duration:** 2 years  
**Name of programme:** MEC-FULBRIGHT Fellowship  
**Goals of the stay:** Post-doctoral
- 3** **Entity:** Instituto de Ciencias de los Materiales de Madrid. CSIC **Type of entity:** R&D Centre  
**Faculty, institute or centre:** Departamento de Materiales particulados  
**City of entity:** Tres Cantos, Community of Madrid, Spain  
**Start date:** 2005 **Duration:** 4 months  
**Goals of the stay:** Guest  
**Relevant results:** Preparation of magnetic colloidal dispersions
- 4** **Entity:** New advanced technology Center. Sheba Medical Center. **Type of entity:** R&D Centre  
**City of entity:** Tel-Hashomer, Israel  
**Start date:** 1998 **Duration:** 3 months  
**Goals of the stay:** Guest
- 5** **Entity:** Georgetown University Medical Center. **Type of entity:** University  
**Faculty, institute or centre:** Department of Pharmacology  
**City of entity:** Washington DC, United States of America  
**Start date:** 1995 **Duration:** 21 days  
**Goals of the stay:** Guest
- 6** **Entity:** In Vivo Nmr Research Center. The National Institutes of Health. **Type of entity:** R&D Centre  
**City of entity:** Bethesda MD, United States of America  
**Start date:** 1993 **Duration:** 2 months  
**Goals of the stay:** Stay financed by Universidad Complutense de Madrid



## Editorial councils

- 1** **Name of the editorial council:** Dirección General de Investigación  
**Affiliation entity:** Universidad de Las Américas  
**City affiliation entity:** QueriQueri, Ecuador  
**Start date:** 23/07/2018
- 2** **Name of the editorial council:** International Journal of Molecular Sciences  
**Affiliation entity:** MDPI  
**City affiliation entity:** BaselBasel, Switzerland  
**Start date:** 18/07/2018  
**Type of entity:** Section Board for "Materials Science"
- 3** **Name of the editorial council:** Member of the European Society of Magnetic Resonancia in Medicine and Biology: From 2008 - 2011.  
**Start date:** 2008  
**Duration:** 4 years
- 4** **Name of the editorial council:** Member of the Editorial Board of the journal "The Open Magnetic Resonance Journal": From 2007 - present  
**Start date:** 2007  
**Duration:** 6 years
- 5** **Name of the editorial council:** Member of the Editorial Board of the journal "The Open Magnetic Resonance Journal": From 2007 - present  
**Start date:** 2007  
**Duration:** 6 years
- 6** **Name of the editorial council:** Member of the International Society of Magnetic Resonance. From 1998 - present.  
**Start date:** 1998  
**Duration:** 15 years
- 7** **Name of the editorial council:** Member of the Editorial Board of the journal "Radiology". Years 1996 - 2005  
**Start date:** 1996  
**Duration:** 10 years

## Prizes, mentions and distinctions

- 1** **Description:** Beca Actelion  
**Awarding entity:** Fundación contra la Hipertensión Pulmonar  
**City awarding entity:** Madrid, Community of Madrid, Spain  
**Conferral date:** 04/02/2016  
**Type of entity:** Foundation
- 2** **Description:** Astra-Zeneca Prize for the best Communication in the meeting of Asociación Madrileña de Neumólogos, Neumomadrid 2000. Primeras imágenes de modelos de pulmón enfisematoso por resonancia magnética (RM) con helio-3 hiperpolarizado (He3H). Drs. German Peces-Barba, Jesús Ruiz-Cabello, Yannick Cremillieux, Mercedes Ortega, María Luisa Rubio, María del Carmen Martín-Mosquero, Ignacio Rodríguez, David Dupuich, Virginie Callot, Manuel Cortijo y Nicolás González Mangado.  
**Awarding entity:** Astra-Zeneca  
**Conferral date:** 2000





- 3** **Description:** Garsi-Masson Radiology Prize. Diseño óptimo de sondas de superficie (antenas) para IRM". Drs. Manuel Rivera, Juan José Vaquero, Andrés Santos, Jesús Ruiz-Cabello Osuna and Francisco del Pozo  
**Conferral date:** 1997  
**Recognition linked:** Published in Radiología, 1997 ; 39, 31-37
- 4** **Description:** Premio Extraordinario del Doctorado  
**Awarding entity:** Universidad Complutense de Madrid **Type of entity:** University  
**Conferral date:** 09/1990
- 5** **Description:** Images of a myocardial infarction model selected for the website of the manufacturer General Electric on its website. Authors: Israel M Barbash, Jonathan Leor, FACC, Micha S. Feinberg, Ariel Tessone, Sharon Aboulafia-Etzion, Arie Orenstein, Jesus Ruiz-Cabello and Yael Mardor  
**Awarding entity:** General Electric  
**Recognition linked:** [http://www.gemedicalsystemseurope.com/ilen/highlight/library\\_mri.html](http://www.gemedicalsystemseurope.com/ilen/highlight/library_mri.html).

### Periods of research activity

**Nº of recognized periods:** 5  
**Certifying entity:** MINISTERIO DE EDUCACION Y CIENCIA  
**City certifying entity:** Madrid, Community of Madrid, Spain  
**Date of recognition:** 31/12/2016