



DANIEL MORALES CANO

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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.

Bachelor of Pharmacy degree (2010) and Master in Cell Signalling and Therapeutic Target:R+D (2011) at Universidad de Alcalá. I obtained a PhD grant (FPI BES-2012-051904) associated to a project funded by the Spanish Ministry of Economy and Competitiveness (MINECO) to perform my doctoral thesis in the School of Medicine at Universidad Complutense de Madrid (UCM) under the supervision of Professors Francisco Pérez Vizcaíno and Ángel Cogolludo. I obtained my PhD in 2016, receiving Extraordinary Doctoral Thesis Prize in 2018.

As a Postdoc, from 2017 to July 2018, I remained as a postdoc in the UCM, where I was working to develop the first animal model of pulmonary hypertension (PH) induced by the co-exposition to HIV and Schistosomiasis in an international collaborative project funded by the Cardiovascular Medical Research and Education Fund (CMREF). From september 2018 to December 2022, I joined Jacob Fog Bentzon's lab at Centro Nacional de Investigaciones Cardiovasculares (CNIC), where I have been working with different international partners in the European Research Area Network on Cardiovascular Diseases (ERA-CVD) and ERC-Consolidator Grant projects to expand knowledge on smooth muscle cell plasticity in experimental and human atherosclerosis. On January of 2023, I returned to the UCM as Assistant Professor in the Pharmacology and Toxicology Department.

My scientific production includes 35 articles in different international scientific journals as "peer-reviewed". From these 35 articles, 25 are in journals of the first quartile (Q1) (10 of them in journals of the first decile (D1)) of their category and research area (Respiratory System, Cardiac and Cardiovascular system and Biochemistry and Molecular Biology). From these 35 articles, 10 are as first author (2 of them as corresponding author) and 5 as second author, demonstrating my high productivity and significant scientific production. My h index is 17, with 761 citations and an average of 26 citation/paper (Scopus), cumulative impact factor of 170,42 (JCR) and an average impact factor of 5,16 which is higher than the median impact factor in the research areas of Respiratory System, Cardiac and Cardiovascular System and Biochemistry and Molecular Biology (Journal Citation Report).

I have participated in 12 research projects (from national and international funding) through competitive calls and from private entities. As results of these projects, I have established several collaborations with other national and international groups and I participated in numerous scientific conferences to disseminate my results with over 40 communications as poster and oral communication format.

I have co-directed 1 doctoral thesis (1 more ongoing) and I have co-supervised two Master's students.

I have carried out different scientific dissemination activities: radio show of "Radio Libertad" (2014), week of science (2014, 2015 and 2017), article "Hipertensión Pulmonar, ¿una enfermedad rara?" for Revista Intersanitaria Nacional (2017), Organizing



Committee of CNIC PhDay (2019) and Pint of Science 2018 edition as ponent, and in 2019, 2021 and 2022 as team member of Pint of Science Madrid-Nuestro Cuerpo.



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.

Overall, my scientific production includes 35 articles in different international scientific journals as “peer-reviewed”, with two Positive 6-year research evaluated period. From these 35 articles, 25 are in journals of the first quartile (Q1) (10 of them in journals of the first decile (D1)) of their category and research area (Respiratory System, Cardiac and Cardiovascular system and Biochemistry and Molecular Biology).

From these 35 articles, 9 are as first author and 5 as second author, demonstrating my high productivity and significant scientific production. My h index is 17, with 761 citations and an average of 26 citation/paper (Scopus), cumulative impact factor of 170.42 (JCR) and an average impact factor of 5.16 which is higher than the median impact factor in the research areas of Respiratory System, Cardiac and Cardiovascular System and Biochemistry and Molecular Biology (Journal Citation Report).

I have participated in 12 research projects (from national and international funding) through competitive calls and from private entities. As results of these projects, I have established several collaborations with other national and international groups and I participated in numerous scientific conferences to disseminate my results with over 45 communications as poster and oral communication format.

**DANIEL MORALES CANO**

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 ScopusID: **55110451000**
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Current professional situation

- 1** **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Department: Pharmacology and Toxicology, Facultad de Medicina
Professional category: Assistant Professor
Start date: 09/01/2023

- 2** **Employing entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Professional category: Post-doctoral research
Start date: 01/07/2022
Type of contract: Temporary employment **Dedication regime:** Full time contract
Primary (UNESCO code): 320990 - Experimental Pharmacology
Secondary (UNESCO code): 241103 - Cardio-vascular physiology
Tertiary (UNESCO code): 320704 - Cardio-vascular pathology
Performed tasks: Juan de la Cierva Incorporación Fellowship

- 3** **Employing entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Professional category: Post-doctoral research
Start date: 06/09/2018
Type of contract: Temporary employment **Dedication regime:** Full time contract
Primary (UNESCO code): 320990 - Experimental Pharmacology
Secondary (UNESCO code): 241103 - Cardio-vascular physiology
Tertiary (UNESCO code): 320704 - Cardio-vascular pathology

Previous positions and activities

	Employing entity	Professional category	Start date
1	FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III	Post-doctoral research. Juan de la Cierva Incorporation Fellowship	01/07/2022

	Employing entity	Professional category	Start date
2	FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III	Post-doctoral research	06/09/2018
3	Instituto de Investigación Sanitaria Gregorio Marañón	Post-doctoral research	01/01/2018
4	Universidad Complutense de Madrid	Post-doctoral research	15/03/2017
5	Universidad Complutense de Madrid	PhD student	02/01/2013
6	Centro de investigación en red de enfermedades respiratorias (CIBERES)	Research Technician	01/11/2011
7	Spanish ministry of science and education	Undergraduate student-Collaboration Grant	11/2009

1 **Employing entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Professional category: Post-doctoral research. Juan de la Cierva Incorporation Fellowship
Start-End date: 01/07/2022 - 31/12/2022
Type of contract: Grant-assisted student (pre or post-doctoral, others)

2 **Employing entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Professional category: Post-doctoral research
Start-End date: 06/09/2018 - 30/06/2022
Dedication regime: Full time

3 **Employing entity:** Instituto de Investigación Sanitaria Gregorio Marañón **Type of entity:** Foundation
Professional category: Post-doctoral research
Start-End date: 01/01/2018 - 30/06/2018 **Duration:** 6 months
Type of contract: Temporary employment contract

4 **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Department: Department of Pharmacology (UCM), School of Medicine (UCM)
Professional category: Post-doctoral research
Start-End date: 15/03/2017 - 31/12/2017 **Duration:** 8 months - 15 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 320990 - Experimental Pharmacology
Secondary (UNESCO code): 241103 - Cardio-vascular physiology
Tertiary (UNESCO code): 320704 - Cardio-vascular pathology

5 **Employing entity:** Universidad Complutense de Madrid **Type of entity:** University
Department: Department of Pharmacology (UCM), School of Medicine, UCM
Professional category: PhD student
Start-End date: 02/01/2013 - 31/12/2016 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 320990 - Experimental Pharmacology
Secondary (UNESCO code): 241103 - Cardio-vascular physiology



Tertiary (UNESCO code): 320704 - Cardio-vascular pathology

6 **Employing entity:** Centro de investigación en red de enfermedades respiratorias (CIBERES)

Department: Department of Pharmacology (UCM), Universidad Complutense de Madrid

Professional category: Research Technician

Start-End date: 01/11/2011 - 31/12/2012

Duration: 1 year - 2 months

Dedication regime: Full time

Primary (UNESCO code): 320990 - Experimental Pharmacology

Secondary (UNESCO code): 241103 - Cardio-vascular physiology

Tertiary (UNESCO code): 320704 - Cardio-vascular pathology

7 **Employing entity:** Spanish ministry of science and education

Department: Department of Biochemistry, School of Medicine, Universidad de Alcalá

City employing entity: Madrid, Comunidad de, Spain

Professional category: Undergraduate student-Collaboration Grant

Start-End date: 11/2009 - 07/2010

Duration: 9 months

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Area of leadership and/or management activity: University



Education

University education

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

University degree: Higher degree

Name of qualification: Bachelor of Pharmacy

Degree awarding entity: Universidad de Alcalá

Type of entity: University

Date of qualification: 04/03/2010

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Investigación Biomédica

Degree awarding entity: Universidad Complutense de Madrid

Type of entity: University

Date of degree: 22/12/2016

European doctorate: Yes

Thesis title: Vasodilatadores en la hipertensión pulmonar: selectividad por el territorio vascular, por oxígeno y efectos antiproliferativos

Thesis director: Francisco Pérez Vizcaíno

Thesis co-director: Ángel Cogolludo Torralba

Obtained qualification: Sobresaliente "Cum laude"

Special doctorate award: Yes

Date of award: 09/04/2018

Other postgraduate university studies

Type of education: Masters

Postgraduate qualification: Master in Cell signalling and Therapeutic Target: R+D

City degree awarding entity: Madrid, Spain

Degree awarding entity: Universidad de Alcalá

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

Date of qualification: 29/09/2011

Standardised degree: Yes

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

Training title: Workshop de introducción a la imagen molecular preclínica y sus aplicaciones en investigación biomédica

Awarding entity: Universidad Carlos III de Madrid y el Instituto de Investigación Sanitaria Gregorio Marañón

End date: 26/05/2017

Duration in hours: 27 hours



Language skills

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

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: Farmacología I/Prácticas "Reactividad Vasculard"
Type of teaching: Practical work (classroom-problems)
Type of subject: Core
University degree: Medicine Degree
Course given: Third
Start date: 01/10/2016 **End date:** 31/12/2016
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: School of Medicine
Department: Pharmacology
City of entity: Madrid, Madrid, Comunidad de, Spain
- 2 Type of teaching:** Official teaching
Name of the course: Farmacología I/Prácticas "Reactividad Vasculard"
Type of teaching: Practical work (classroom-problems)
Type of subject: Core
University degree: Medicine Degree
Course given: Third
Start date: 01/10/2015 **End date:** 31/12/2015
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: School of Medicine
Department: Pharmacology
City of entity: Madrid, Madrid, Comunidad de, Spain
- 3 Type of teaching:** Official teaching
Name of the course: Farmacología I/Prácticas "Reactividad Vasculard"
Type of teaching: Practical work (classroom-problems)
Type of subject: Core
University degree: Medicine Degree
Course given: Third
Start date: 01/10/2014 **End date:** 31/12/2014
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8



Entity: Universidad Complutense de Madrid
Faculty, institute or centre: School of Medicine
Department: Pharmacology
City of entity: Madrid, Madrid, Comunidad de, Spain

Type of entity: University

Other activities/achievements not included above

- 1 Description of the activity:** Chairman during the meeting of the XXVIII Reunión de Farmacólogos de la Comunidad de Madrid
City of activity: Madrid, Madrid, Comunidad de, Spain
Organising entity: Hospital Universitario de La Princesa **Type of entity:** Healthcare Institutions
End date: 26/06/2019
- 2 Description of the activity:** Chairman during the meeting of the XXVI Reunión de Farmacólogos de la Comunidad de Madrid
City of activity: Madrid, Madrid, Comunidad de, Spain
Organising entity: Universidad Rey Juan Carlos **Type of entity:** University
End date: 29/06/2017
- 3 Description of the activity:** Master degree examiner at School of Medicine to 6th year medical students
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 27/06/2017
- 4 Description of the activity:** Supervision of Certified handling of experimental animal models, current category A+B+C
City of activity: Madrid, Madrid, Comunidad de, Spain
Organising entity: CAI ANIMALARIO UCM (Reg: ES280790000086)
End date: 27/04/2017
- 5 Description of the activity:** Supervision of pathological anatomy and cytology technicians of the Centro María Inmaculada de Madrid - 50 hours
City of activity: Madrid, Madrid, Comunidad de, Spain
End date: 17/06/2016
- 6 Description of the activity:** Undergraduate supervision: Master project entitled "Antiproliferative and vasodilator effect of drugs currently used in the treatment of pulmonary arterial hypertension". Student: Clara S. Guerrero.
City of activity: Madrid, Madrid, Comunidad de, Spain
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 13/07/2015
- 7 Description of the activity:** Undergraduate supervision: Master project entitled "Antiproliferative and vasodilator effects of different agonist PPAR in pulmonary arterial hypertension". Student: Luis Eduardo García de la Calle
City of activity: Madrid, Madrid, Comunidad de, Spain
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 13/07/2015
- 8 Description of the activity:** Supervision of pathological anatomy and cytology technicians of the Centro María Inmaculada de Madrid - 200 horas
City of activity: Madrid, Madrid, Comunidad de, Spain
End date: 17/06/2015



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Experimental Pathology of Atherosclerosis
Aims of the group: Find new ways of preventing the development of dangerous atherosclerosis and validate imaging tools that can monitor the presence and activity of atherosclerosis
Affiliation entity: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Start date: 06/09/2018
- 2 Name of the group:** Farmacología y Fisiopatología vascular
Aims of the group: Identify new therapeutic targets for cardiovascular and pulmonary diseases and characterize the mechanism of action of drugs
Standardised code: Group 29 (7.29) **Type of collaboration:** Co-authorship of projects and their development
Affiliation entity: Instituto de Investigación Sanitaria Gregorio Marañón
Start date: 28/03/2014
- 3 Name of the group:** Vascular Pharmacology: vasoactive factors
Aims of the group: Identify new therapeutic targets for cardiovascular and pulmonary diseases and characterize the mechanism of action of drugs
Standardised code: CB06/06/1084 **Type of collaboration:** Co-authorship of projects and their development
Affiliation entity: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
Start date: 01/11/2011
- 4 Name of the group:** Farmacología vascular: factores vasoactivos
Aims of the group: Identify new therapeutic targets for cardiovascular and pulmonary diseases and characterize the mechanism of action of drugs.
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universidad Complutense de Madrid **Type of entity:** University
Start date: 01/11/2011

Scientific or technological activities

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

- 1** **Name of the project:** EXpansion and Phenotype Loss Of SMCs In Atherosclerosis: Causal effects and therapeutic possibilities; acronym: EXPLOSIA

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III

Funding entity or bodies:

European Research Council

Type of participation: Team member

Name of the programme: H2020-ERC-2019-COG.

Code according to the funding entity: GA-866240

Start-End date: 01/08/2018 - 31/07/2025

Duration: 3 years

Total amount: 1.998.875 €

Dedication regime: Full time

- 2** **Name of the project:** "Smooth muscle cell modulation in progression and regression of atherosclerosis: New opportunities for plaque stabilizing therapies.

Geographical area: National

Entity where project took place: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III

Name of the programme: Proyectos I+D+I Retos Investigación

Code according to the funding entity: SOPRANO PID2019-108568RB-I00

Start-End date: 01/01/2020 - 31/07/2023

Total amount: 229.900 €

- 3** **Name of the project:** Subclinical atherosclerosis characterization: Nanoparticle-based molecular and cellular imaging

Geographical area: European Union

Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body

Name of the programme: ERA-CVD-JTC2017.

Code according to the funding entity: AC17/00062

Start-End date: 01/01/2018 - 30/12/2020

Total amount: 149.921 €

- 4** **Name of the project:** Vitamina D en la hipertensión pulmonar

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department

Name principal investigator (PI, Co-PI...): Francisco Pérez Vizcaíno

Funding entity or bodies:

Plan Nacional MINECO

Type of participation: Team member



Name of the programme: Proyectos de I+D “EXCELENCIA” y Proyectos de I+D+I “RETOS INVESTIGACIÓN”

Code according to the funding entity: SAF2016-77222-R

Start-End date: 01/01/2017 - 31/12/2019

Duration: 3 years

Total amount: 140.000 €

Dedication regime: Part time

5 Name of the project: The effect of coinfection with HIV and schistosomiasis on the pulmonary vascular beds

Geographical area: Non EU International

Degree of contribution: Researcher

Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department

Name principal investigator (PI, Co-PI....): Ángel Cogolludo Torralba

Funding entity or bodies:

Pulmonary Vascular Research Institute (PVRI)

Type of participation: Team member

Name of the programme: Cardiovascular Medical Research and Education Fund

Start-End date: 24/05/2017 - 31/12/2018

Duration: 1 year - 6 months

Total amount: 75.000 €

Dedication regime: Part time

6 Name of the project: Potencial terapéutico de los exosomas derivados de las células madre mesenquimales y las células endoteliales progenitoras tardías en displasia broncopulmonar e hipertensión pulmonar

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)

Name principal investigator (PI, Co-PI....): Laura Moreno Gutiérrez

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Madrid, Comunidad de, Spain

Type of participation: Team member

Name of the programme: Fondo de Investigación en Salud (FIS)

Code according to the funding entity: PI15/01100

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

Duration: 2 years

Total amount: 62.000 €

Dedication regime: Part time

7 Name of the project: Déficit de vitamina D en los pacientes con hipertensión pulmonar arterial y potencial valor terapéutico de la vitamina D como inhibidor de la proliferación de las células de músculo liso vascular arterial pulmonar

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)

Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno

Funding entity or bodies:

Fundación Contra la Hipertensión Pulmonar (FCHP) **Type of entity:** Foundation

Type of participation: Team member

Start-End date: 12/01/2017 - 12/01/2018



Total amount: 12.000 €

Dedication regime: Part time

- 8** **Name of the project:** MicroRNAs implicados en disfunción vascular pulmonar: implicaciones fisiopatológicas y terapéuticas
Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department
City of entity: Madrid, Madrid, Comunidad de, Spain
Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba
Funding entity or bodies: Ministerio de Economía y Competitividad
Type of participation: Team member
Name of the programme: Proyectos de I+D “EXCELENCIA” y Proyectos de I+D+I “RETOS INVESTIGACIÓN”
Code according to the funding entity: SAF2014-55399-R
Start-End date: 01/01/2015 - 31/12/2017 **Duration:** 3 years
Total amount: 133.100 €

- 9** **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
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department
City of entity: Madrid, Madrid, Comunidad de, Spain
Name principal investigator (PI, Co-PI....): José Luis Álvarez-Sala Walter
Funding entity or bodies: Mutua Madrileña **Type of entity:** Foundation
Type of participation: Team member
Start-End date: 01/11/2013 - 30/09/2016
Dedication regime: Part time

- 10** **Name of the project:** Papel de los receptores de inmunidad innata en la disfunción vascular pulmonar asociada a la hipertensión pulmonar y el síndrome de distrés respiratorio agudo. Implicación de los patrones moleculares asociados al daño.
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)
Name principal investigator (PI, Co-PI....): Laura Moreno Gutiérrez
Funding entity or bodies: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Madrid, Comunidad de, Spain
Type of participation: Team member
Name of the programme: Convocatoria y ayudas de la Acción Estratégica en Salud (Miguel Sarvet)
Code according to the funding entity: CP12/03304
Start-End date: 01/02/2014 - 31/01/2015
Total amount: 120.000 €
Dedication regime: Part time



- 11 Name of the project:** Nuevos vasodilatadores en hipertensión pulmonar
Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department
City of entity: Madrid, Madrid, Comunidad de, Spain
Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno
Funding entity or bodies: Plan Nacional MICINN
Name of the programme: Ministerio de Economía y Competitividad
Code according to the funding entity: SAF2011-28150
Start-End date: 01/01/2012 - 31/12/2014
Total amount: 245.000 €
Dedication regime: Full time
- 12 Name of the project:** Efectos cardiovasculares de agonistas de los receptores activados por proliferador de peroxisomas (PPAR) beta/delta en modelos de diabetes experimental
Geographical area: National
Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department
Name principal investigator (PI, Co-PI....): Ángel Cogolludo Torralba
Funding entity or bodies: Plan Nacional MICINN
Type of participation: Team member
Code according to the funding entity: SAF2010-22066-C02-02
Start-End date: 01/01/2011 - 30/06/2014
Total amount: 30.000 €
Dedication regime: Part time
- 13 Name of the project:** Micropartículas: vasoconstricción pulmonar y vías de señalización
Degree of contribution: Researcher
Entity where project took place: Departamento de Farmacología (UCM) **Type of entity:** University Department
City of entity: Madrid, Madrid, Comunidad de, Spain
Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno
Funding entity or bodies: Sociedad Española de Neumología y Cirugía Torácica **Type of entity:** Associations and Groups
City funding entity: Barcelona, Cataluña, Spain
Type of participation: Team member
Name of the programme: Ayudas a la investigación SEPAR
Start-End date: 01/09/2012 - 30/09/2013 **Duration:** 1 year
Dedication regime: Part time

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

- 1** **Name of the project:** Mechanisms of early atherosclerosis and/or plaque instability in Coronary Artery Disease
Entity where project took place: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Jacob Bentzon
Nº of researchers: 3
Participating entity/entities: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III; Radbound University Medical Centre, Tumor Immunology; University of Tubingen, Interfaculty Institute of Biochemistry
Funding entity or bodies:
European Research Council

Start date: 06/09/2018 **Duration:** 24 months
Total amount: 746.959 €
- 2** **Name of the project:** The effect of confection with HIV and schistosomiasis on the pulmonary vascular beds
Entity where project took place: Universidad Complutense de Madrid
Degree of contribution: Researcher
Type of entity: University
Name principal investigator (PI, Co-PI....): Ángel Cogolludo Torralba
Funding entity or bodies:
Cardiovascular Medical Research and Education Fund

Start date: 01/01/2018 **Duration:** 6 months
Total amount: 75.000 €
- 3** **Name of the project:** MicroRNAs implicados en disfunción vascular pulmonar: implicaciones fisiopatológicas y terapéuticas
Entity where project took place: Universidad Complutense de Madrid
Degree of contribution: Researcher
Type of entity: University
Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno; Ángel Cogolludo
Participating entity/entities: Universidad Complutense de Madrid
Funding entity or bodies:
Ministerio de Economía y Competitividad

Start date: 15/03/2017 **Duration:** 9 months
Total amount: 133.100 €
- 4** **Name of the project:** Nuevos vasodilatadores en hipertensión pulmonar
Entity where project took place: Universidad Complutense de Madrid
Degree of contribution: Researcher
Type of entity: University
Name principal investigator (PI, Co-PI....): Francisco Pérez Vizcaíno
Funding entity or bodies:
Ministerio de Economía y Competitividad

Start date: 02/01/2013 **Duration:** 48 months
Total amount: 245.000 €



Scientific and technological activities

Scientific production

H index: 17

Date of application: 30/01/2025

Source of H-Index: SCOPUS

Publications, scientific and technical documents

- 1** Carramolino L; Albarrán-Juárez J; Markov A; Hernández-SanMiguel E; Sharysh D; Cumbicus V; Morales-Cano D; Labrador-Cantarero V; Møller PL; Nogales P; Benguria A; Dopazo A; Sanchez-Cabo F; Torroja C; Bentzon JF. Cholesterol lowering depletes atherosclerotic lesions of smooth muscle cell-derived fibromyocytes and chondromyocytes. *Nature cardiovascular research*. 3, pp. 203 - 220. 2024.
DOI: 10.1038/s44161-023-00412-w
PMID: 39196190
Type of production: Scientific paper
- 2** Morales-Cano D; Barreira B; Callejo M; Olivencia MA; Ferruelo A; Milara J; Lorente JÁ; Moreno L; Cogolludo Á; Perez-Vizcaino F. Comparative analysis of antiproliferative and vasodilator effects of drugs for pulmonary hypertension: Extensive in vitro study in rats and human. *Vascular pharmacology*. 155, pp. 107371. 2024. ISSN 1537-1891
DOI: 10.1016/j.vph.2024.107371
PMID: 38599357
Type of production: Scientific paper
- 3** Callejo M; Morales-Cano D; Olivencia MA; Mondejar-Parreño G; Barreira B; Tura-Ceide O; Martínez VG; Serrano-Navarro A; Moreno L; Morrell N; Perros F; Vicente A; Cogolludo A; Perez-Vizcaino F. Vitamin D receptor and its antiproliferative effect in human pulmonary arterial hypertension. *Scientific reports*. 14, pp. 27445. 2024.
DOI: 10.1038/s41598-024-78380-9
PMID: 39523384
Type of production: Scientific paper
Source of citations: WOS **Citations:** 48
- 4** Daniel Morales Cano; Jose Luis Izquierdo Garcia; Bianca Barreira; Sergio Esquivel Ruiz; Maria Callejo Cano; Rachele Pandolfi; Palmira Villa Valverde; Ignacio Rodriguez; Angel Cogolludo; Jesus Ruiz Cabello; Francisco Pérez Vizcaíno; Laura Moreno. 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. *Front. Pharmacol. (Switzerland)*: 29/03/2023.
Type of production: Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 12 **Corresponding author:** No
Impact source: WOS (JCR)
Impact index in year of publication: 5.988

- 5** Alba Vera Zambrano; Mauro Lago Docampo; Natalia Gallego; Juan Felipe Franco Gonzalez; Daniel Morales Cano; Alejandro Cruz Utrilla; Marta Villegas Esguevillas; Edgar Fernández Malavé; Pilar Escribano Subías; Jair Antonio Tenorio Castaño; Francisco Pérez Vizcaíno; Diana Valverde; Teresa González; Ángel Cogolludo. Novel Loss of Function KCNA5 Variants in Pulmonary Arterial Hypertension. *Am J Respir Cell Mol Biol.* (Ireland): 14/03/2023.
Type of production: Scientific paper
Position of signature: 5
Total no. authors: 14
Impact source: WOS (JCR)
Impact index in year of publication: 7.748
Position of publication: 11
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - RESPIRATORY SYSTEM
Journal in the top 25%: Yes
No. of journals in the cat.: 66
- 6** Rahul Kumar; Öznur Aktay-Cetin; Vaughn Craddock; Daniel Morales Cano; Djuro Kosanovic; Ángel Cogolludo; Francisco Pérez Vizcaíno; Sergey Avdeev; Ashok Kumar; Anil Kumar Ram; Stuti Agarwal; Ananya Chakraborty; Rajkumar Savai; Vinicio de Jesus Pérez; Brian B Graham; Ghazwan Butrous; Navneet K. Dhillon. Potential long-term effects of SARS-CoV-2 infection on the pulmonary vasculature: Multilayered cross-talks in the setting of coinfections and comorbidities. *PLoS Pathog.* (Ireland): 12/01/2023.
Type of production: Scientific paper
Position of signature: 4
Total no. authors: 17
Impact source: WOS (JCR)
Impact index in year of publication: 7.464
Position of publication: 25
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - MICROBIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 137
- 7** Kimberley Cortenbach; Daniel Morales Cano; Jelena Meek; Mark A.J. Gorris Gorris; Alexander H.J. Staal; Mangala Srinivas; I. Jolanda M. de Vries; Jacob Fog Bentzon Bentzon; Roland R.J. van Kimmenade. Topography of immune cell infiltration in different stages of coronary atherosclerosis revealed by multiplex immunohistochemistry. *IJC Heart & Vasculature.* (Ireland): 24/08/2022.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 9
Impact source: WOS (JCR)
Impact index in year of publication: 2.30
Position of publication: 85
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS
Journal in the top 25%: No
No. of journals in the cat.: 208
- 8** Sandra Medrano Garcia; Daniel Morales Cano; Bianca Barreira Barba; Alba Zambrano Ruiz; Rahul Kumar; Djuro Kosanovic; Ralph Theo Schermuly; Brian B. Graham; Francisco Pérez Vizcaíno; Alistair Mathie; Rajkumar Savai; Soni Pullamseti; Ghazwan Butrous; Edgar Fernández Malavé; Ángel Cogolludo Torralba. HIV and Schistosoma Co-Exposure Leads to Exacerbated Pulmonary Endothelial Remodeling and Dysfunction Associated with Altered Cytokine Landscape. *Cells.* Madrid, Madrid, Comunidad de(Spain): 04/08/2022.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 15
Impact source: WOS (JCR)
Impact index in year of publication: 7.666
Position of publication: 51
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - BIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 195

- 9** Carlos J. Martos Rodriguez; Julian Albarrán Juarez; Daniel Morales Cano; Ainoa Caballero; Donal MacGrogan; José Luis de la Pompa; Laura Carramolino Fitera; Jacob Fog Bentzon. Fibrous Caps in Atherosclerosis Form by Notch-Dependent Mechanisms Common to Arterial Media Development. ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY. 01/09/2021.
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 10.514
Position of publication: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - PERIPHERAL VASCULAR DISEASE
Journal in the top 25%: Yes
No. of journals in the cat.: 67
- 10** María Callejo Arranz; Daniel Morales Cano; Gema Mondejar Parreño; Bianca Barreira Barba; Sergio Esquivel Ruiz; Miguel Angel Olivencia; Laura Moreno; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno. Restoration of Vitamin D Levels Improves Endothelial Function and Increases TASK-Like K⁺ Currents in Pulmonary Arterial Hypertension Associated with Vitamin D Deficiency. Biomolecules. Madrid, Madrid, Comunidad de(Spain): 26/05/2021.
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 9
Impact source: WOS (JCR)
Impact index in year of publication: 6.064
Position of publication: 75
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 297
- 11** Morales-Cano D; Barreira B; Navarro BO; Callejo M; Mondejar-Parreño G; Esquivel-Ruiz S; Lorente JA; Moreno L; Barberá JA; Cogolludo Á; Perez-Vizcaino F. Oxygen-sensitivity and Pulmonary Selectivity of Vasodilators as Potential Drugs for Pulmonary Hypertension. Antioxidants (Basel, Switzerland). 10, 2021. ISSN 2076-3921
DOI: 10.3390/antiox10020155
PMID: 33494520
Type of production: Scientific paper
Corresponding author: Yes
Source of citations: WOS
Citations: 36
- 12** María Callejo Arranz; Gema Mondejar Parreño; Daniel Morales Cano; Bianca Barreira Barba; Sergio Esquivel Ruiz; Miguel Angel Olivencia; Grégoire Manaud; Frédéric Perros; Juan Duarte; Laura Moreno; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno. Vitamin D deficiency downregulates TASK-1 channels and induces pulmonary vascular dysfunction. Am J Physiol Lung Cell Mol Physiol .Madrid, Madrid, Comunidad de(Spain): 01/10/2020.
Type of production: Scientific paper
Position of signature: 3
Total no. authors: 12
Impact source: WOS (JCR)
Impact index in year of publication: 4.418
Position of publication: 12
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - PHYSIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 81
- 13** Gema Mondejar Parreño; Bianca Barreira Barba; María Callejo Arranz; Daniel Morales Cano; Vincenzo Barrese; Sergio Esquivel Ruiz; Miguel Angel Olivencia; Miguel Macías; Laura Moreno; Iain A Greenwood; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba. Uncovered Contribution of Kv7 Channels to Pulmonary Vascular Tone in Pulmonary Arterial Hypertension. Hypertension. Madrid, Madrid, Comunidad de(Spain): 24/08/2020.

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 12

Impact source: WOS (JCR)

Impact index in year of publication: 7.713

Position of publication: 4

Format: Journal

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

Corresponding author: No

Category: Science Edition - PERIPHERAL VASCULAR DISEASE

Journal in the top 25%: Yes

No. of journals in the cat.: 65

- 14** Rafael González Tajuelo; de la Fuente-Fernández M; Daniel Morales Cano; Muñoz-Callejas A; González-Sánchez E; Silván J; Serrador JM; Cadenas S; Bianca Barreira Barba; Espartero-Santos M; Gamallo C; Vicente-Rabaneda EF; Castañeda S; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba; Jiménez-Borreguero LJ; Ana Urzainqui. PSGL1-deficient mice develop spontaneous pulmonary hypertension associated to systemic sclerosis. *Arthritis Rheumatol.* Madrid, Madrid, Comunidad de (Spain): 11/09/2019.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 17

Impact source: WOS (JCR)

Impact index in year of publication: 9.002

Position of publication: 3

Format: Journal

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

Corresponding author: No

Category: Science Edition - RHEUMATOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 31

- 15** Gema Mondejar Parreño; María Callejo Arranz; Bianca Barreira Barba; Daniel Morales Cano; Sergio Esquivel Ruiz; Marco Filice; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno. miR-1 induces endothelial dysfunction in rat pulmonary arteries. *J Physiol Biochem.* 20/08/2019.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 9

Impact source: WOS (JCR)

Impact index in year of publication: 2.523

Position of publication: 38

Format: Journal

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

Corresponding author: No

Category: Science Edition - PHYSIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 81

- 16** Rahul Kumar; Claudia Mickael; Biruc Kassa; Sanders L; Koyanagi D; Daniel Hernandez Saavedra; Freeman S; Daniel Morales Cano; Ángel Cogolludo Torralba; McKee AS; Fontenot AP; Tudor RM; Ghazwan Butrous; Brian Graham. Th2 CD4+ T Cells Are Necessary and Sufficient for Schistosoma-Pulmonary Hypertension. *J Am Heart Assoc.* 06/08/2019.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 14

Impact source: WOS (JCR)

Impact index in year of publication: 4.66

Position of publication: 34

Format: Journal

Corresponding author: No

Category: Cardiology and Cardiovascular Medicine

Journal in the top 25%: Yes

No. of journals in the cat.: 136

- 17** David Álvarez Cilleros; Maria Elvira López Oliva; Daniel Morales Cano; Bianca Barreira Barba; Francisco Pérez Vizcaíno; Luis Goya; Sonia Ramos; María Ángeles Martín. Dietary cocoa prevents aortic remodelling and vascular oxidative stress in diabetic rats. *Molecular Nutrition & Food Research.* 28/05/2019.

Type of production: Scientific paper

Position of signature: 3

Format: Journal

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



Total no. authors: 8

Impact source: WOS (JCR)

Impact index in year of publication: 5.151

Position of publication: 5

Corresponding author: No

Category: Science Edition - FOOD SCIENCE & TECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 133

- 18** Gema Mondejar Parreño; Javier Moral Sanz; Bianca Barreira Barba; De la Cruz A; Gonzalez T; María Callejo Arranz; Sergio Esquivel Ruiz; Daniel Morales Cano; Laura Moreno Gutierrez; Carmen Valenzuela; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba. Activation of Kv 7 channels as a novel mechanism for NO/cGMP-induced pulmonary vasodilation. *British Journal of Pharmacology*. 18/03/2019.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 12

Impact source: WOS (JCR)

Impact index in year of publication: 6.801

Position of publication: 12

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.: 261

- 19** Daniel Morales Cano; María Callejo Arranz; Bianca Barreira Barba; Gema Mondejar Parreño; Sergio Esquivel Ruiz; Ramos, S; Martín, M.Á; Ángel Cogolludo Torralba; Laura Moreno Gutierrez; Francisco Perez Vizcaino. Elevated pulmonary arterial pressure in Zucker diabetic fatty rats. *PLoS One*. 28/01/2019. Available on-line at: <<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0211281>>. ISSN 19326203

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 10

Impact source: WOS (JCR)

Impact index in year of publication: 2.776

Position of publication: 24

Format: Journal

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

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: No

No. of journals in the cat.: 69

- 20** Gema Mondejar Parreño; Daniel Morales Cano; Bianca Barreira Barba; María Callejo Arranz; Jesús Ruiz-Cabello Osuna; Laura Moreno Gutierrez; Sergio Esquivel Ruiz; Alistair Mathie; Ghazwan Butrous; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba. HIV transgene expression impairs K⁺ channel function in the pulmonary vasculature. *Am J Physiol Lung Cell Mol Physiol*. 23/08/2018.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 11

Impact source: WOS (JCR)

Impact index in year of publication: 4.060

Position of publication: 14

Format: Journal

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

Corresponding author: No

Category: Science Edition - PHYSIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 81

- 21** Maria Callejo Arranz; Gema Mondejar Parreño; Bianca Barreira Barba; Jose Luis Izquierdo Garcia; Daniel Morales Cano; Sergio Esquivel Ruiz; Laura Moreno Gutierrez; Angel Cogolludo Torralba; Juan Duarte; Francisco Pérez Vizcaíno. Pulmonary Arterial Hypertension Affects the Rat Gut Microbiome. *Scientific Reports*. 30/05/2018.

Type of production: Scientific paper

Position of signature: 5

Format: Journal

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

Total no. authors: 10
Impact source: WOS (JCR)

Impact index in year of publication: 4.259
Position of publication: 10

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes
No. of journals in the cat.: 64

- 22** Gema Mondejar Parreño; María Callejo Arranz; Bianca Barreira Barba; Daniel Morales Cano; Sergio Esquivel Ruiz; Laura Moreno Gutierrez; Angel Cogolludo Torralba; Francisco Pérez Vizcaíno. miR-1 is increased in pulmonary hypertension and downregulates Kv1.5 channels in rat pulmonary arteries. The Journal of Physiology. 02/05/2018.

Type of production: Scientific paper
Position of signature: 4

Total no. authors: 8
Impact source: WOS (JCR)
Impact index in year of publication: 4.343
Position of publication: 9

Format: Journal

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

Corresponding author: No

Category: Science Edition - PHYSIOLOGY

Journal in the top 25%: Yes
No. of journals in the cat.: 84

- 23** Virginia Chamorro Marín; Daniel Morales Cano; Javier Milara; Bianca Barreira Barba; Laura Moreno Gutierrez; María Callejo Arranz; Gema Modejar Parreño; Sergio Esquivel Ruiz; Julio Cortijo; Ángel Cogolludo Torralba; Joan Albert Barberá; Francisco Pérez Vizcaíno. Riociguat versus sildenafil on hypoxic pulmonary vasoconstriction and ventilation/perfusion matching. Plos One. San Francisco(United States of America): 24/01/2018.

Type of production: Scientific paper
Position of signature: 2

Total no. authors: 12
Impact source: WOS (JCR)

Impact index in year of publication: 2.806
Position of publication: 15

Format: Journal

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

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes
No. of journals in the cat.: 64

- 24** Nura Mohamed; Davies RP; Lickiss PD; Ahmetaj-Shala B; Reed DM; Gashaw HH; Saleem H; Freeman GR; George PM; Wort SJ; Daniel Morales Cano; Bianca Barreira Barba; Tetley TD; Chester AH; Yacoub MH; Kirkby NS; Laura Moreno Gutierrez; Mitchell JA. Chemical and biological assessment of metal organic frameworks (MOFs) in pulmonary cells and in an acute in vivo model: relevance to pulmonary arterial hypertension therapy. Pulmonary Circulation. CHICAGO(United States of America): 27/01/2017.

DOI: 10.1177/2045893217710224

Legal deposit: IL 60637-2954

Type of production: Scientific paper
Position of signature: 11

Total no. authors: 18
Impact source: WOS (JCR)

Impact index in year of publication: 2.178
Position of publication: 69

Format: Journal

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

Corresponding author: No

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS

Journal in the top 25%: No
No. of journals in the cat.: 126

- 25** Virginia Chamorro; Rachele Pandolfi; Laura Moreno Gutierrez; Bianca Barreira Barba; Andrea Martínez Ramas; Daniel Morales Cano; Jesús Ruiz-Cabello Osuna; José Ángel Lorente; Juan Duarte Pérez; Ángel Cogolludo Torralba; José Luis Álvarez-Sala Walther; Francisco Pérez Vizcaíno. Effects of Quercetin in a Rat Model of Hemorrhagic Traumatic Shock and Reperfusion. Molecules. 20/12/2016. Available on-line at: <<http://www.mdpi.com/1420-3049/21/12/1739>>.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 12

Impact source: WOS (JCR)

Impact index in year of publication: 2.465

Position of publication: 24

Format: Journal

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

Corresponding author: No

Category: Science Edition - CHEMISTRY, ORGANIC

Journal in the top 25%: No

No. of journals in the cat.: 59

- 26** Daniel Morales Cano; Laura Moreno Gutierrez; Bianca Barreira Barba; Ana María Briones Alonso; Rachele Pandolfi; Javier Moral Sanz; María Callejo Arranz; Gema Mondejar Parreño; Julio Cortijo; Mercedes Salaices; Juan Duarte Pérez; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba. Activation of PPAR α prevents hyperglycemia-induced impairment of Kv7 channels and cAMP-mediated relaxation in rat coronary arteries. *Clinical Science*. 01/10/2016. Available on-line at: <<http://europepmc.org/abstract/med/27413020>>.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 13

Impact source: WOS (JCR)

Impact index in year of publication: 5.016

Position of publication: 16

Format: Journal

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

Corresponding author: No

Category: Science Edition - MEDICINE, RESEARCH & EXPERIMENTAL

Journal in the top 25%: Yes

No. of journals in the cat.: 124

- 27** R. Pandolfi; B. Barreira; E. Moreno; V. Lara-Acedo; D. Morales-Cano; A. Martínez-Ramas; B.O. Navarro; R. Herrero; J.á. Lorente; á. Cogolludo; F. Pérez-Vizcaíno; L. Moreno. Role of acid sphingomyelinase and IL-6 as mediators of endotoxin-induced pulmonary vascular dysfunction. *Thorax*. 27/07/2016. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84979752600&partnerID=MN8TOARS>>.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 12

Impact source: WOS (JCR)

Impact index in year of publication: 8.121

Position of publication: 4

Format: Journal

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

Corresponding author: No

Category: Science Edition - RESPIRATORY SYSTEM

Journal in the top 25%: Yes

No. of journals in the cat.: 58

- 28** Morales-Cano D; Moreno L; Barreira B; Pandolfi R; Chamorro V; Jimenez R; Villamor E; Duarte J; Perez-Vizcaino F; Cogolludo A. Kv7 channels critically determine coronary artery reactivity: left-right differences and downregulation by hyperglycemia. *Cardiovasc Res*. 106 - 1, pp. 98 - 108. 01/04/2015. Available on-line at: <<http://europepmc.org/abstract/med/25616413>>.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 10

Impact source: WOS (JCR)

Impact index in year of publication: 5.465

Position of publication: 9

Format: Journal

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

Corresponding author: No

Category: Science Edition - CARDIAC & CARDIOVASCULAR SYSTEMS

Journal in the top 25%: Yes

No. of journals in the cat.: 57

- 29** D. Morales-Cano; C. Menendez; E. Moreno; J. Moral-Sanz; B. Barreira; P. Galindo; R. Pandolfi; R. Jimenez; L. Moreno; A. Cogolludo; J. Duarte; F. Perez-Vizcaino. The flavonoid quercetin reverses pulmonary hypertension in rats. *PLoS ONE*. 9 - 12, 02/12/2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84914706350&partnerID=MN8TOARS>>.



Type of production: Scientific paper
Position of signature: 1

Total no. authors: 12

Impact source: WOS (JCR)

Impact index in year of publication: 3.234

Position of publication: 9

Format: Journal

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

Corresponding author: No

Category: Science Edition - MULTIDISCIPLINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 57

- 30** L. Moreno; J. Moral-Sanz; D. Morales-Cano; B. Barreira; E. Moreno; A. Ferrarini; R. Pandolfi; F.J. Ruperez; J. Cortijo; M. Sanchez-Luna; E. Villamor; F. Perez-Vizcaino; A. Cogolludo. Ceramide mediates acute oxygen aensing in vascular tissues. *Antioxidants and Redox Signaling*. 20 - 1, pp. 1 - 14. 2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84892178911&partnerID=MN8TOARS>>.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 13

Impact source: WOS (JCR)

Impact index in year of publication: 7.407

Position of publication: 27

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 290

- 31** A. Oliveras; M. Roura-Ferrer; L. Solé; A. De La Cruz; A. Prieto; A. Etxebarria; J. Manils; D. Morales-Cano; E. Condom; C. Soler; A. Cogolludo; C. Valenzuela; A. Villarroel; N. Comes; A. Felipe. Functional assembly of Kv7.1/Kv7.5 channels with emerging properties on vascular muscle physiology. *Arteriosclerosis, Thrombosis, and Vascular Biology*. 34 - 7, pp. 1522 - 1530. 2014. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84903118871&partnerID=MN8TOARS>>.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 15

Impact source: WOS (JCR)

Impact index in year of publication: 6.008

Position of publication: 4

Format: Journal

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

Corresponding author: No

Category: Science Edition - PERIPHERAL VASCULAR DISEASE

Journal in the top 25%: Yes

No. of journals in the cat.: 60

- 32** Morales-Cano D; Calviño E; Rubio V; Herráez A; Sancho P; Tejedor MC; Diez JC. Apoptosis induced by paclitaxel via Bcl-2, Bax and caspases 3 and 9 activation in NB4 human leukaemia cells is not modulated by ERK inhibition. *Exp Toxicol Pathol*. 65 - 7-8, pp. 1101 - 1108. 11/2013. Available on-line at: <<http://europepmc.org/abstract/med/23735541>>.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 7

Impact source: WOS (JCR)

Impact index in year of publication: 2.005

Position of publication: 55

Format: Journal

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

Corresponding author: No

Category: Science Edition - TOXICOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 87



- 33** C. Menendez; L. Martinez-Caro; L. Moreno; N. Nin; J. Moral-Sanz; D. Morales; A. Cogolludo; A. Esteban; J.A. Lorente; F. Perez-Vizcaino. Pulmonary vascular dysfunction induced by high tidal volume mechanical ventilation. *Critical Care Medicine*. 41 - 8, 2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84880941936&partnerID=MN8TOARS>>.
- Type of production:** Scientific paper
Position of signature: 6
Total no. authors: 10
Impact source: WOS (JCR)
Impact index in year of publication: 6.147
Position of publication: 3
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - CRITICAL CARE MEDICINE
Journal in the top 25%: Yes
No. of journals in the cat.: 27
- 34** J. Moral-Sanz; J.G. Lopez-Lopez; C. Menendez; E. Moreno; B. Barreira; D. Morales-Cano; L. Escolano; P. Fernandez-Segoviano; E. Villamor; A. Cogolludo; F. Perez-Vizcaino; L. Moreno. Different patterns of pulmonary vascular disease induced by type 1 diabetes and moderate hypoxia in rats. *Experimental Physiology*. 97 - 5, pp. 676 - 686. 2012. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84860342101&partnerID=MN8TOARS>>.
- Type of production:** Scientific paper
Position of signature: 6
Total no. authors: 12
Impact source: WOS (JCR)
Impact index in year of publication: 2.790
Position of publication: 28
- Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - PHYSIOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 80
- 35** Villegas-Esguevillas M; Cho S; Vera-Zambrano A; Kwon JW; Barreira B; Telli G; Navarro-Dorado J; Morales-Cano D; de Olaiz B; Moreno L; Greenwood I; Pérez-Vizcaíno F; Kim SJ; Climent B; Cogolludo A. The novel K(V)7 channel activator URO-K10 exerts enhanced pulmonary vascular effects independent of the KCNE4 regulatory subunit. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*. 164, pp. 114952. 2023. ISSN 0753-3322
- DOI:** 10.1016/j.biopha.2023.114952
PMID: 37295249

Works submitted to national or international conferences

- 1** **Title of the work:** Recovery of optimal vitamin D improves responsiveness to phosphodiesterase-5 inhibitors therapy in pulmonary arterial hypertension
Name of the conference: 7th Congress of the ESC-Council-on-Basic-Cardiovascular-Science
Corresponding author: No
City of event: Amsterdam,
Date of event: 12/04/2024
End date: 14/04/2024
Organising entity: ESC, Council Basic Cardiovascular Sci
Adao; Paternoster; Barreira; Morales Cano; Olivencia; Quintana Villamandos.
- 2** **Title of the work:** Effects of a TAK-1 inhibitor in combination with riociguat on the metabolic reprogramming and pulmonary hypertension in the SUGEN5416/hypoxia rat model
Name of the conference: 19th World Congress of Basic and Clinical Pharmacology (WCP)
Type of event: Conference
Type of participation: Participatory - poster



Corresponding author: No

City of event: Glasgow, United Kingdom

Date of event: 02/07/2023

End date: 07/07/2023

Organising entity: British Pharmacological Society

Moreno; Morales Cano; Izquierdo Garcia; Barreira; Villa Valverde; Rodríguez; Cogolludo Torralba; Ruiz Cabello; Pérez Vizcaíno.

3 Title of the work: Novel loss of function KCNA5 pathogenic variants in pulmonary arterial hypertension

Name of the conference: 55th European-Society-of-Human-Genetics (ESHG) Conference

Corresponding author: No

City of event: Viena, Austria

Date of event: 11/06/2022

End date: 14/06/2022

Organising entity: European Soc Human Genet

Gallego; Vera Zambrano; Lago Docampo; Franco González; Morales Cano; Cruz Utrilla; Villegas; Escribano Subías; Tenorio; Pérez Vizcaíno; Valverde Pérez; González; Cogolludo Torralba.

4 Title of the work: 18-FDG-PET Monitors Atherosclerosis Disease Activity In Minipigs.

Name of the conference: Vascular Discovery: From Genes to Medicine

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Seattle, United States of America

Date of event: 12/05/2022

End date: 14/05/2022

Organising entity: American Heart Association

City organizing entity: New York, United States of America

With external admission assessment committee: Yes

Paula Nogales; Carlos Velasco; Leticia González Cintado; Daniel Morales Cano; Adriana Mota Cobián; Rubén Abelino Mota; Carlos Torroja; Diana Sharysh; Alberto Benguria; Ana Dopazo; Laura Carramolino; Samuel España; Jesús Mateo de Castro; Jacob Bentzon.

5 Title of the work: Modulation of Kv1.5 channel expression and function by the sigma 1 receptor

Name of the conference: 66th Annual Meeting of the Biophysical-Society

Corresponding author: No

City of event: San Francisco, United States of America

Date of event: 19/02/2022

End date: 23/02/2022

Organising entity: Biophys Soc

Vera Zambrano; Rinne; Baena Nuevo; Morales Cano; Barreira; Decher; Cogolludo Torralba; González Gallego.

6 Title of the work: Cocoa diet prevents aortic stiffening and remodelling in type 2 diabetic rats via SIRT-1/NOX-4 mechanisms

Name of the conference: 55th Annual Meeting of the European-Association-for-the-Study-of-Diabetes (EASD)

Corresponding author: No

City of event: Barcelona, Spain

Date of event: 16/09/2019

End date: 20/09/2019

Organising entity: European Assoc Study Diabet



Martín; Alvarez Cilleros; López Oliva; Morales Cano; Barreira; Pérez Vizcaíno; Goya; Ramos.

- 7** **Title of the work:** Effects of Schistosoma mansoni and HIV-1 Co-Exposure on Pulmonary Vascular Pathology
Name of the conference: American Thoracic Society International Conference
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster
City of event: Dallas, United States of America
Date of event: 18/05/2019
End date: 22/05/2019
Organising entity: American Thoracic Society
City organizing entity: New York, United States of America
Daniel Morales Cano; Francisco Pérez Vizcaíno. pp. 128.
- 8** **Title of the work:** Effects of HIV-1 and Schistosoma mansoni co-exposure on pulmonary vascular disease
Name of the conference: 13th PVRI Annual World Congress on PVD
Type of event: Conference
Type of participation: Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Barcelona, Cataluña, Spain
Date of event: 31/01/2019
End date: 03/02/2019
Organising entity: Pulmonary Vascular Research Institute (PVRI)
Daniel Morales Cano; Gema Mondejar Parreño; Sandra Medrano Garcia; Bianca Barreira Barba; María Callejo Arranz; Sergio Esquivel Ruiz; Rahul Kumar; Djuro Kosanovic; Alistair Mathie; Edgar Fernández Malavé; Brian Graham; Ralph Schermuly; Laura Moreno Gutierrez; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba; Ghazwan Butrous.
- 9** **Title of the work:** Kv1.5 channels and endothelium-dependent relaxation are downregulated by miR-1 in rat pulmonary arteries.
Name of the conference: ERS International Congress 2018
Type of event: Conference **Geographical area:** International
Type of participation: Participatory - poster
City of event: Paris, France
Date of event: 15/09/2018
End date: 19/09/2018
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Gema Mondejar Parreño; María Callejo Arranz; Bianca Barreira Barba; Daniel Morales Cano; Laura Moreno Gutierrez; Sergio Esquivel Ruiz; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.
- 10** **Title of the work:** Monosodium urate crystals exacerbate acute lung injury induced by lipopolysaccharide.
Name of the conference: ERS International Congress 2018
Type of event: Conference **Geographical area:** International
Type of participation: Participatory - poster
City of event: Paris, France
Date of event: 15/09/2018
End date: 19/09/2018
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes



Laura Moreno Gutierrez; Daniel Morales Cano; Sergio Esquivel Ruiz; Andrea Martínez Ramas; Bianca Barreira Barba; María Callejo Arranz; Gema Mondejar Parreño; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.

- 11 Title of the work:** Possible pathophysiological role of vitamin D deficit in pulmonary arterial hypertension
Name of the conference: ERS International Congress 2018
Type of event: Conference **Geographical area:** International
Type of participation: Participatory - poster
City of event: Paris, France
Date of event: 15/09/2018
End date: 19/09/2018
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
María Callejo Arranz; Daniel Morales Cano; Gema Mondejar Parreño; Bianca Barreira Barba; Sergio Esquivel Ruiz; Laura Moreno Gutierrez; Pilar Escribano; Isabel Blanco; Joan Albert Barberà; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.
- 12 Title of the work:** Pulmonary Arterial Hypertension Affects the Rat Gut Microbiome
Name of the conference: ERS International Congress 2018
Type of event: Conference **Geographical area:** International
Type of participation: Participatory - poster
City of event: Paris, France
Date of event: 15/09/2018
End date: 19/09/2018
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Francisco Pérez Vizcaíno; María Callejo Arranz; Gema Mondejar Parreño; Bianca Barreira Barba; José Luis Izquierdo Garcia; Daniel Morales Cano; Sergio Esquivel Ruiz; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Juan Duarte.
- 13 Title of the work:** Activation of Kv7 contributes to the relaxant effects of the NO/cGMP pathway in the pulmonary circulation
Name of the conference: 18th World Congress of Basic and Clinical Pharmacology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster
City of event: Kioto, Japan
Date of event: 01/07/2018
End date: 06/07/2018
Organising entity: International Union of Basic and Clinical Pharmacology (IUPHAR)
Ángel Cogolludo Torralba; Gema Mondejar Parreño; Bianca Barreira Barba; María Callejo Arranz; Daniel Morales Cano; Sergio Esquivel Ruiz; Alicia de la Cruz; Laura Moreno Gutierrez; Carmen Valenzuela; Francisco Pérez Vizcaíno.
- 14 Title of the work:** Depletion of vitamin D aggravates pulmonary arterial hypertension
Name of the conference: 18th World Congress of Basic and Clinical Pharmacology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Kioto, Japan
Date of event: 01/07/2018
End date: 06/07/2018
Organising entity: International Union of Basic and Clinical Pharmacology (IUPHAR)



Francisco Pérez Vizcaíno; María Callejo Arranz; Gema Mondejar Parreño; Daniel Morales Cano; Bianca Barreira Barba; Sergio Esquivel Ruiz; Pilar Escribano; Laura Moreno Gutierrez; Joan Albert Barbera; Ángel Cogolludo Torralba.

- 15** **Title of the work:** Evaluation of a combination therapy using riociguat and a TAK-1 inhibitor in the Sugen 5416/hypoxia rat model of pulmonary arterial hypertension
Name of the conference: 18th World Congress of Basic and Clinical Pharmacology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster
City of event: Kioto, Japan
Date of event: 01/07/2018
End date: 06/07/2018
Organising entity: International Union of Basic and Clinical Pharmacology (IUPHAR)
Laura Moreno Gutierrez; Daniel Morales Cano; José Luis Izquierdo; Bianca Barreira Barba; Sergio Esquivel Ruiz; María Callejo Arranz; Gema Mondejar Parreño; Ángel Cogolludo Torralba; Jesús Ruiz Cabello; Francisco Pérez Vizcaíno.
- 16** **Title of the work:** HIV transgene expression induces endothelial dysfunction and Kv7 channel impairment in the pulmonary vasculature
Name of the conference: 37th SEF 2017 National Meeting with guest society: the British Pharmacological
Type of event: Conference
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
Corresponding author: No
City of event: Barcelona, Cataluña, Spain
Date of event: 18/06/2017
End date: 21/06/2017
Organising entity: SOCIEDAD ESPAÑOLA DE FARMACOLOGIA
Gema Mondejar Parreño; Daniel Morales Cano; Bianca Barreira Barba; María Callejo Arranz; Laura Moreno Gutierrez; Alistair Mathie; Ghazwan Butrous; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba. Available on-line at: <<http://www.sef2017.com/es/>>.
- 17** **Title of the work:** miR-1 impairs endothelial and Kv channel function in pulmonary arteries
Name of the conference: 37th SEF 2017 National Meeting with guest society: the British Pharmacological
Type of event: Conference
Type of participation: Participatory - poster **Reasons for participation:** Review before acceptance
Corresponding author: No
City of event: Barcelona, Cataluña, Spain
Date of event: 18/06/2017
End date: 21/06/2017
Organising entity: SOCIEDAD ESPAÑOLA DE FARMACOLOGIA
María Callejo Arranz; Gema Mondejar Parreño; Bianca Barreira Barba; Sergio Esquivel Ruiz; Daniel Morales Cano; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno. Available on-line at: <<http://www.sef2017.com/es/>>.
- 18** **Title of the work:** AngII involvement in lung endothelial dysfunction and PAH development in PSGL-1 deficient female mice.
Name of the conference: Annual European Congress of Rheumatology
Type of event: Conference
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain



Date of event: 14/06/2017

End date: 17/06/2017

Organising entity: EULAR School of Rheumatology

With external admission assessment committee: Yes

Rafael González Tajuelo; María Fuente Fernández; Daniel Morales Cano; Bianca Barreira; Javier Silván; Carlos Gamallo; Santos Castañeda; Esther Vicente Rabaneda; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba; Luis Jesús Jiménez Borreguero; Ana Urzainqui.

19 Title of the work: Vasodilatación y efecto antiproliferativo in vitro de 27 fármacos empleados potencialmente útiles en la hipertensión pulmonar

Name of the conference: 50º Congreso Nacional de la Sociedad Española de Neumología y Cirugía Torácica (SEPAR)

Type of event: Conference

Type of participation: Participatory - poster

City of event: Madrid, Spain

Date of event: 02/06/2017

End date: 05/06/2017

Organising entity: Sociedad Española de Neumología y Cirugía Torácica (SEPAR)

Francisco Pérez Vizcaíno; Daniel Morales Cano; Bianca Barreira Barba; María Callejo Arranz; Gema Mondejar Parreño; Sergio Esquivel Ruiz; Joan Albert Barberá Mir; Laura Moreno Gutierrez; Ángel Cogolludo Torralba.

20 Title of the work: Modulación de canales de potasio por microRNA-1 en arterias pulmonares de rata

Name of the conference: XV Reunión de Farmacólogos de la Comunidad de Madrid

Type of event: Meeting

Type of participation: Participatory - oral communication

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 30/06/2016

Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

With external admission assessment committee: Yes

Gema Mondejar Parreño; María Callejo Arranz; Bianca Barreira Barba; Laura Moreno Gutierrez; Daniel Morales Cano; Rachele Pandolfi; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba.

21 Title of the work: Papel del mir-1 en la disfunción endotelial pulmonar

Name of the conference: XV Reunión de Farmacólogos de la Comunidad de Madrid

Type of event: Meeting

Type of participation: Participatory - oral communication

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 30/06/2016

Organising entity: Universidad Autónoma de Madrid **Type of entity:** University

With external admission assessment committee: Yes

María Callejo Arranz; Gema Mondejar Parreño; Bianca Barreira Barba; Laura Moreno Gutierrez; Daniel Morales Cano; Rachele Pandolfi; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.

22 Title of the work: Influence of Sex on Estrogenic System in the Right Ventricle

Name of the conference: American Thoracic Society International Conference

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: San Francisco, United States of America

Date of event: 13/05/2016

End date: 18/05/2016

Organising entity: American Thoracic Society



City organizing entity: New York, United States of America
Margaret Nilsen; Emma Wallace; Margaret MacLean; Daniel Morales Cano. pp. 219.

- 23** **Title of the work:** Influence of Sex on TGF β and BMPR2 Signaling in the Hypertrophic Right Ventricle in a Mouse Model of Pulmonary Arterial Hypertension
Name of the conference: American Thoracic Society International Conference
Type of event: Conference
Type of participation: Participatory - poster
City of event: San Francisco, United States of America
Date of event: 13/05/2016
End date: 18/05/2016
Organising entity: American Thoracic Society
City organizing entity: New York, United States of America
Daniel Morales Cano; Kirsty Mair; Francisco Pérez Vizcaíno; Margaret MacLean. pp. 127.
- 24** **Title of the work:** Influence of Sex on the miRNA Profile in the Right Ventricle from Mouse Models of Pulmonary Arterial Hypertension
Name of the conference: American Thoracic Society International Conference
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: 13/05/2016
End date: 18/05/2016
Organising entity: American Thoracic Society
City organizing entity: New York, United States of America
Daniel Morales Cano; Kirsty Mair; Nicholas Morrell; Francisco Pérez Vizcaíno; Margaret MacLean. pp. 128.
- 25** **Title of the work:** In Vivo Assessment of Metal Organic Framework (MOFs) for the Future use as Delivery Agents for Drugs to Treat PAH
Name of the conference: World Congress on Recent Advances in Nanotechnology (RAN'16)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Praga, Czech Republic
Date of event: 01/04/2016
End date: 02/04/2016
Organising entity: International ASET Inc
Nura Mohamed; Rob Davies; Paul Lickiss; Gemma Freeman; Daniel Morales Cano; Bianca Barreira; Nicholas Kirby; Laura Moreno; Jane Mitchell. pp. NDDTE 113.
- 26** **Title of the work:** Antiproliferative effects of drugs affecting different signalling pathways on rat and human pulmonary artery smooth muscle cells
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Amsterdam, Holland
Date of event: 26/09/2015
End date: 30/09/2015
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Daniel Morales Cano; Bianca Barreira; Virginia Chamorro; Beatriz De Olaiz Navarro; Rachele Pandolfi; Andrés Esteban; Julio Cortijo; Ángel Cogolludo; Laura Moreno; Francisco Pérez Vizcaíno. pp. 45.



- 27** **Title of the work:** Monosodium urate crystals stimulate IL-6 production via TAK1 and induce pulmonary vascular dysfunction
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Amsterdam, Holland
Date of event: 26/09/2015
End date: 30/09/2015
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Laura Moreno; Andrea Martínez Ramas; Bianca Barreira; Rachele Pandolfi; Beatriz De Olaiz Navarro; Daniel Morales Cano; Raquel Herrero; José Ángel Lorente; Ángel Cogolludo; Francisco Pérez Vizcaíno. pp. 162.
- 28** **Title of the work:** Effects of sphingomyelinase inhibitors and quercetin in a rat model of hemorrhagic traumatic shock and reperfusion
Name of the conference: 35º Congreso Nacional de la Sociedad Española de Farmacología
Type of event: Conference
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: Sociedad Española de Farmacología
Virginia Chamorro; Rachele Pandolfi; Laura Moreno Gutierrez; Bianca Barreira Barba; Andrea Martínez Ramas; Daniel Morales Cano; Jesús Ruiz Cabello; Ángel Cogolludo Torralba; José Luis Álvarez Sala; Francisco Pérez Vizcaíno.
- 29** **Title of the work:** kv7 channels critically determine coronary vasoreactivity: regional heterogeneity and downregulation by hyperglycemia
Name of the conference: 35º Congreso Nacional de la Sociedad Española de Farmacología
Type of event: Conference
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 24/09/2014
End date: 26/09/2014
Organising entity: Sociedad Española de Farmacología
Daniel Morales Cano; Laura Moreno Gutierrez; Bianca Barreira Barba; Rachele Pandolfi; Virginia Chamorro; Rosario Jimenez; Eduardo Villamor; Juan Duarte; Francisco Pérez Vizcaíno; Ángel Cogolludo Torralba.
- 30** **Title of the work:** A potential role for gremlin 1 in pulmonary postnatal maturation and neonatal hypoxia-induced pulmonary hypertension
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Munich, Germany
Date of event: 06/09/2014
End date: 10/09/2014
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Laura Moreno Gutierrez; Carmen Menéndez Soriano; Bianca Barreira Barba; Daniel Morales Cano; Jaques Belik; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.



- 31 Title of the work:** Acid sphingomyelinase mediates IL-6 release in experimental LPS-induced lung injury
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Munich, Germany
Date of event: 06/09/2014
End date: 10/09/2014
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Rachele Pandolfi; Bianca Barreira Barba; Andrea Martínez Ramas; Enrique Moreno; Victor Lara Acedo; Daniel Morales Cano; Virginia Chamorro; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno; Laura Moreno Gutierrez.
- 32 Title of the work:** Acid sphingomyelinase, a novel pathway for pulmonary vasoconstriction. Activation by apoptotic t cell microparticles and fas ligand
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Munich, Germany
Date of event: 06/09/2014
End date: 10/09/2014
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Javier Moral Sanz; Daniel Morales Cano; Bianca Barreira Barba; Raffaella Soleti; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Ramaroson Andriantsitohaina; Carmen Martínez; Francisco Pérez Vizcaíno.
- 33 Title of the work:** The flavonoid quercetin reverses monocrotaline - induced pulmonary hypertension
Name of the conference: European Respiratory Society. International Congress
Type of event: Conference
Type of participation: Participatory - poster
City of event: Munich, Germany
Date of event: 06/09/2014
End date: 10/09/2014
Organising entity: European Respiratory Society (ERS)
With external admission assessment committee: Yes
Daniel Morales Cano; Carmen Menéndez Soriano; Javier Moral Sanz; Bianca Barreira Barba; Rosario Jiménez; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Juan Duarte; Francisco Pérez Vizcaíno.
- 34 Title of the work:** Acute lung injury induced by lipopolysaccharide: role of the acid sphingomyelinase and IL-6
Name of the conference: Advances and Perspectives in Cardiovascular Biomedicine
Type of event: Training Session
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 21/03/2014
End date: 21/03/2014
Organising entity: Instituto de Investigaciones Biomédicas Alberto Sols
Type of entity: State agency
City organizing entity: Madrid, Madrid, Comunidad de, Spain
Rachele Pandolfi; Bianca Barreira Barba; Victor Lara Acedo; Daniel Morales Cano; Andrea Martínez Ramas; Virginia Chamorro; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno; Laura Moreno Gutierrez.



- 35** **Title of the work:** Antiproliferative and vasodilator effect of drugs with potential interest in the treatment of pulmonary arterial hypertension
Name of the conference: Advances and Perspectives in Cardiovascular Biomedicine
Type of event: Training Session
Type of participation: Participatory - poster
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 21/03/2014
End date: 21/03/2014
Organising entity: Instituto de Investigaciones Biomédicas Alberto Sols
Type of entity: State agency
City organizing entity: Madrid, Madrid, Comunidad de, Spain
Daniel Morales Cano; Bianca Barreira Barba; Rachele Pandolfi; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno.
- 36** **Title of the work:** El flavonoide quercetina revierte la hipertensión pulmonar inducida por monocrotalina
Name of the conference: XXII Reunión de Farmacólogos de la Comunidad de Madrid
Type of event: Meeting
Type of participation: Participatory - oral communication
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 04/07/2013
End date: 04/07/2013
Organising entity: Universidad Complutense de Madrid
Type of entity: University
With external admission assessment committee: Yes
Daniel Morales Cano; Carmen Menéndez Soriano; Enrique Moreno; Javier Moral Sanz; Pilar Galindo; Bianca Barreira Barba; Rachele Pandolfi; Rosario Jiménez; Laura Moreno Gutierrez; Ángel Cogolludo Torralba; Juan Duarte; Francisco Pérez Vizcaíno.
- 37** **Title of the work:** Papel de la esfingomielinasa acida en la producción de IL-6 en un modelo de daño pulmonar agudo inducido por el lipopolisacárido
Name of the conference: XXII Reunión de Farmacólogos de la Comunidad de Madrid
Type of event: Meeting
Type of participation: Participatory - oral communication
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 04/07/2013
End date: 04/07/2013
Organising entity: Universidad Complutense de Madrid
Type of entity: University
With external admission assessment committee: Yes
Rachele Pandolfi; Bianca Barreira Barba; Enrique Moreno; Victor Lara Acedo; Daniel Morales Cano; Andrea Martínez Ramas; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno; Laura Moreno Gutierrez.
- 38** **Title of the work:** From blind fingerprinting to functional profiling: ceramide and related compounds in experimental models of oxygen sensing
Name of the conference: 9th Annual Conference of the metabolomics society
Type of event: Conference
Type of participation: Participatory - poster
City of event: Glasgow, South Western Scotland, United Kingdom
Date of event: 01/07/2013
End date: 04/07/2013
Organising entity: Metabolomics society



Francisco Javier Rupérez Pascualena; Alessia Ferrarini; Mariano Fernandez; Daniel Morales Cano; Ángel Cogolludo Torralba; Francisco Pérez Vizcaíno; Coral Barba Arribas.

- 39** **Title of the work:** Microparticles induce pulmonary artery contraction through activation of acid sphingomyelinase and inhibition of kv currents
Name of the conference: VI European Congress of Pharmacology
Type of event: Conference
Type of participation: Participatory - poster
City of event: Granada, Andalucía, Spain
Date of event: 17/07/2012
End date: 20/07/2012
Organising entity: The Federation of European Pharmacological Societies
Javier Moral Sanz; Bianca Barreira Barba; Laura Moreno Gutierrez; Enrique Moreno; Raffaella Soleti; Daniel Morales Cano; Ramaroson Andriantsitohaina; Ángel Cogolludo Torralba; Carmen Martínez; Francisco Pérez Vizcaíno.
- 40** **Title of the work:** Efectos apoptóticos producidos por esculetina en células de leucemia promielocítica aguda humana
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Barcelona, Cataluña, Spain
Date of event: 05/09/2011
End date: 08/09/2011
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Virginia Rubio; Daniel Morales Cano; Irene Gañán Gómez; Elia Moreno Cubero; Pilar Sancho; Ángel Herraiz; José Carlos Diez Ballesteros.
- 41** **Title of the work:** Relación entre estrés oxidativo y apoptosis inducida por esculetina en células de leucemia promielocítica aguda humana NB4: efectos mitocondriales
Name of the conference: XXXIV Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Barcelona, Cataluña, Spain
Date of event: 05/09/2011
End date: 08/09/2011
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Virginia Rubio; Daniel Morales Cano; Irene Gañán Gómez; Elia Moreno Cubero; Ana Isabel García Pérez; María Cristina Tejedor; José Carlos Diez Ballesteros.
- 42** **Title of the work:** Searching for the implication of oxidative stress in the esculetin induced apoptosis in human acute promyelocytic leukemia cells
Name of the conference: III International Symposium on the Pathophysiology of Reactive Oxygen and Nitrogen Species
Type of event: Conference
Type of participation: Participatory - poster
City of event: Salamanca, Castilla y León, Spain
Date of event: 19/05/2010
End date: 21/05/2010
Organising entity: Spanish and Portuguese Free Radicals Groups



Virginia Rubio; Daniel Morales Cano; María Cristina Estañ Omaña; Irene Gañán Gómez; María del Carmen Boyano Adánez; Ana Isabel García Pérez; María Cristina Tejedor; José Carlos Díez Ballesteros.

- 43** **Title of the work:** Conciliación en onco-hematología: detección de discrepancias en la medicación al ingreso
Name of the conference: VII CONGRESO NACIONAL DE INVESTIGACIÓN EN PREGRADO DE CIENCIAS DE LA SALUD.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 13/05/2010
End date: 13/05/2010
Organising entity: Inspección General de Sanidad-Ministerio de Defensa
Daniel Morales Cano; Elia Hernández Ramírez; Catalina Lara Cátedra.
- 44** **Title of the work:** Implicación de erk en la apoptosis inducida por taxol en células leucémicas humanas NB4
Name of the conference: XXXII Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Oviedo, Asturias, Principado de, Spain
Date of event: 23/09/2009
End date: 26/09/2009
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Eva Calviño; Daniel Morales Cano; Elena Díez; Virginia Rubio; María Cristina Tejedor; Ángel Herráez; Ana Isabel García Pérez; Irene Gañán Gómez; Cristina Estañ Omaña; María del Carmen Boyano Adánez; Pilar Sancho; José Carlos Díez Ballesteros.
- 45** **Title of the work:** Papel de caspasas en la inducción de apoptosis por compuestos antitumorales en células leucémicas humanas NB4
Name of the conference: XXXI Congreso de la Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Type of event: Conference
Type of participation: Participatory - poster
City of event: Bilbao, País Vasco, Spain
Date of event: 10/09/2008
End date: 13/09/2008
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM)
Eva Calviño; María Cristina Tejedor; Diana Vilela; Daniel Morales Cano; Ángel Herráez; Ana Isabel García Pérez; María del Carmen Boyano Adánez; Irene Gañán Gómez; María Cristina Estañ Omaña; Pilar Sancho; José Carlos Díez Ballesteros.

Science Outreach activities

- 1** **Title of the work:** Team of Pint of Science Madrid-"Nuestro Cuerpo"
Name of the event: Pint of Science
Type of event: Conferences given **Geographical area:** International
City of event: Madrid, Madrid, Comunidad de, Spain
Date of event: 09/05/2022
Organising entity: Pint of Science Spain



Available on-line at: <<https://pintofscience.es/equipo/Equipo%20Madrid>>.

2 Title of the work: Team of Pint of Science Madrid-"Nuestro Cuerpo"

Name of the event: Pint of Science

Type of event: Conferences given

Geographical area: International

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 17/05/2021

Organising entity: Pint of Science Spain

Available on-line at: <<https://pintofscience.es/equipo/Equipo%20Madrid>>.

3 Title of the work: Organizing Committee of CNIC PhDay

Name of the event: CNIC PhDay

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 22/11/2019

Organising entity: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III

City organizing entity: Madrid, Madrid, Comunidad de, Spain

Available on-line at: <<https://cnicphday.wordpress.com/2019-organizing-committee/>>.

4 Title of the work: Team of Pint of Science Madrid-"Nuestro Cuerpo"

Name of the event: Pint of Science

Type of event: Conferences given

Geographical area: International

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 20/05/2019

Organising entity: Pint of Science Spain

Available on-line at: <<https://pintofscience.es/equipo/Equipo%20Madrid>>.

5 Title of the work: De la naturaleza a la farmacia

Name of the event: Pint of Science

Type of event: Conferences given

Geographical area: International

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 16/05/2018

Organising entity: Pint of Science Spain

Available on-line at: <<https://pintofscience.es/event/virus-y-molculas>>.

6 Title of the work: Jornada de puertas abiertas en Investigación en hipertensión pulmonar

Name of the event: XVII Science week

Geographical area: National

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 16/11/2017

Organising entity: Universidad Complutense de Madrid

Type of entity: University

City organizing entity: Madrid, Madrid, Comunidad de, Spain

Available on-line at:

<<http://www.madrimasd.org/semanaciencia/actividad/investigacion-en-hipertension-pulmonar>>. ISSN 2531-1204

7 Title of the work: Hipertensión Pulmonar, ¿una enfermedad rara?

Corresponding author: No

Date of event: 15/06/2017

Type of entity: Associations and Groups



Organising entity: Asociación Nacional de Estudiantes Sanitarios Emprendedores (ANESE)
sergio Esquivel Ruiz; María Callejo Arranz; Gema Mondejar Parreño; Daniel Morales Cano; Laura Moreno Gutierrez. En: Salus – Revista Intersanitaria Nacional. Available on-line at: <https://revistasalus.com/2017/06/15/hipertension-pulmonar-una-enfermedad-rara/>.

8 Title of the work: Jornada de puertas abiertas en Investigación en hipertensión pulmonar en la UCM

Name of the event: XV Science week

Geographical area: National

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 04/11/2015

Organising entity: Universidad Complutense de Madrid

Type of entity: University

City organizing entity: Madrid, Madrid, Comunidad de, Spain

Available on-line at:

<http://www.madrimasd.org/semanaciencia/2015/actividades/MostrarActividad.aspx?id=12467>.

9 Title of the work: Jornada de puertas abiertas en Conoce cómo se desarrolla un proyecto de investigación biomédica en hipertensión pulmonar. Actividad enfocada especialmente a pacientes

Name of the event: XIV Science week

Geographical area: National

City of event: Madrid, Madrid, Comunidad de, Spain

Date of event: 05/11/2014

Organising entity: Universidad Complutense de Madrid

Type of entity: University

City organizing entity: Madrid, Madrid, Comunidad de, Spain

10 Title of the work: "Enfermedades Raras, Hipertensión Arterial Pulmonar"

Name of the event: Participation in the radio show

Type of event: Media interviews

City of event: Madrid, Comunidad de, Spain

Date of event: 24/06/2014

Organising entity: Radio Libertad

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: 2ª Reunión de Investigación en Hipertensión Pulmonar

Type of activity: Meeting

City of event: Madrid, Madrid, Comunidad de, Spain

Convening entity: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)

Type of participation: Organiser

Nº assistants: 60

Start-End date: 02/02/2018 - 02/02/2018



Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Convocatoria PICT 2021
Performed tasks: R&D projects Evaluation
Entity where activity was carried out: Comisión de Ciencias Biológicas de Células y Moléculas Tipo (GRF + INVI) del Fondo para la Investigación Científica y Tecnológica (FONCyT)
City of entity: Argentina
Geographical area: Non EU International
Start-End date: 15/10/2022 - 02/11/2022
- 2** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: Journal of Clinical Medicine
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 28/10/2020
- 3** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: Hypertension
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 25/07/2020
- 4** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: Molecules
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 23/06/2020
- 5** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: Cells
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 05/04/2020
- 6** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: European Journal of Anatomy
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 26/08/2019
- 7** **Name of the activity:** Peer-review process
Performed tasks: Review of articles in scientific or technological journals
Entity where activity was carried out: European Journal of Anatomy
Type of activity: Review of articles in scientific or technological journals



Access system: Designated by the corresponding party without competition
Start date: 17/04/2019

8 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: European Journal of Anatomy

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 22/01/2019

9 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: Journal of Physiology and Biochemistry

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 21/01/2019

10 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: Journal of Physiology and Biochemistry

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 10/04/2018

11 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: European Journal of Anatomy

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 11/01/2018

12 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: British Journal of Pharmacology

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 15/09/2015

13 Name of the activity: Peer-review process

Performed tasks: Review of articles in scientific or technological journals

Entity where activity was carried out: Arteriosclerosis, Thrombosis, and Vascular Biology

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 15/06/2015

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
City of entity: Madrid, Comunidad de, Spain
Start-End date: 20/12/2017 - 30/06/2018
Goals of the stay: Estancia Postdoctoral
Provable tasks: The purpose of the visit is learn the technical approaches to metabolite profiling, samples preparation and characterization of metabolite-profile
- 2** **Entity:** FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III
City of entity: Madrid, Comunidad de, Spain
Start-End date: 07/04/2017 - 31/07/2017 **Duration:** 3 months - 24 days
Goals of the stay: Estancia Postdoctoral
Provable tasks: The purpose of the visit has been to develop a new procedure to measure the pulmonary arterial pressure by right hearth catheterization at the same time that animals were undergo Transthoracic Doppler echocardiography.
- 3** **Entity:** University of Colorado Anschutz Medical Campus **Type of entity:** University
Faculty, institute or centre: Division of Pulmonary Science and Critical Care Medicine
City of entity: Denver, United States of America
Start-End date: 03/06/2017 - 08/06/2017 **Duration:** 6 days
Funding entity: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
Name of programme: Ayudas de Perfeccionamiento y Movilidad
Goals of the stay: Guest
Provable tasks: The purpose of the visit has been to learn a new procedure for the right hearth catheterization of mice and also isolate and manage eggs from the parasite *Schistosoma mansoni* in order to develop a new model of PAH.
- 4** **Entity:** University of Glasgow **Type of entity:** University
Faculty, institute or centre: Institute of Cardiovascular and Medical Sciences
City of entity: Glasgow, South Western Scotland, United Kingdom
Start-End date: 01/07/2015 - 30/09/2015 **Duration:** 3 months
Funding entity: Ministerio de Economía y Competitividad
Name of programme: Ayudas a la Movilidad Predoctoral para la realización de Estancias Breves en Centros de I+D
Goals of the stay: Estancia Predoctoral
Provable tasks: The purpose of the short research stay has been learn how work with microRNAs and characterize the different profile of several microRNAs in the right and left ventricles from 2 mice models of pulmonary hypertension.



Obtained grants and scholarships

- 1 Name of the grant:** Ayuda Predoctoral de Formación de Personal Investigador BES-2012-051904
Aims: Pre-doctoral
Awarding entity: Ministerio de Economía y Competitividad
Type of entity: State agency
Conferral date: 02/01/2013
End date: 31/12/2016
Entity where activity was carried out: Universidad Complutense de Madrid
Faculty, institute or centre: Facultad de Medicina, Dpto. Farmacología
- 2 Name of the grant:** Ayudas de Perfeccionamiento y Movilidad
Aims: Post-doctoral
Awarding entity: CIBER ENFERMEDADES RESPIRATORIAS (CIBERES)
Conferral date: 25/05/2017
Duration: 5 days
- 3 Name of the grant:** Movilidad Predoctoral para la realización de Estancias Breves en centros de I+D EEBB-I-2015-09436
Aims: Estancia Breve Predoctoral
Awarding entity: Ministerio de Economía y Competitividad
Conferral date: 24/02/2015
Duration: 92 days
Entity where activity was carried out: University of Glasgow/College of Medical, Veterinary and Medical Science
- 4 Name of the grant:** Beca Colaboración Curso Académico 2009/2010
Aims: Beca Colaboración
Awarding entity: Ministerio de Educación
Conferral date: 25/11/2009
Entity where activity was carried out: Universidad de Alcalá
Faculty, institute or centre: Facultad de Medicina/Dpto. Bioquímica y Biología Molecular

Scientific societies and professional associations

- 1 Name of the society:** American Thoracic Society
Affiliation entity: American Thoracic Society
City affiliation entity: New York, United States of America
Start-End date: 30/10/2018 - 29/10/2019
- 2 Name of the society:** American Thoracic Society
Affiliation entity: American Thoracic Society
City affiliation entity: New York, United States of America
Start-End date: 23/10/2015 - 23/10/2016
- 3 Name of the society:** Pulmonary Vascular Research Institute
Affiliation entity: Pulmonary Vascular Research Institute
City affiliation entity: Canterbury, Kent, United Kingdom
Start date: 22/02/2018



- 4** **Name of the society:** Sociedad Española de Farmacología
Affiliation entity: Fundación Española de Farmacología
City affiliation entity: Barcelona, Cataluña, Spain
Start date: 01/03/2017

Prizes, mentions and distinctions

- 1** **Description:** Extraordinary Doctoral Thesis Prize
Awarding entity: Universidad Complutense de Madrid **Type of entity:** University
Conferral date: 17/12/2018
- 2** **Description:** Abstract Scholarship Award
Awarding entity: American Thoracic Society **Type of entity:** Foundation
City awarding entity: New York, United States of America
Conferral date: 16/05/2016
- 3** **Description:** Annual Prize from the Royal National Academy of Pharmacy for the work entitled "Effects of quercetin in a rat model of hemorrhagic traumatic shock and reperfusion"
Awarding entity: Royal National Academy of Pharmacy **Type of entity:** Associations and Groups
City awarding entity: Madrid, Madrid, Comunidad de, Spain
Conferral date: 18/12/2014

Obtained accreditations/recognitions

- 1** **Description:** General Radiodiagnosis Operator
Accrediting entity: Infocitec (Stericycle)
City accrediting entity: Madrid, Madrid, Comunidad de, Spain
Date of recognition: 26/11/2018
- 2** **Description:** Certified handling of experimental animal models: category B (current category A+B+C).
Accrediting entity: Consejería de Medio Ambiente y Ordenación del Territorio **Type of entity:** National
City accrediting entity: Madrid, Madrid, Comunidad de, Spain
Date of recognition: 20/12/2012

Summary of other achievements

Description of the achievement: Workshop on translational aspects of cardiovascular and pulmonary imaging
Accrediting entity: Comité de Acreditación y de la Comisión de Formación Continuada de la Sociedad Española de Cardiología **Type of entity:** Associations and Groups
City accrediting entity: Spain
Conferral date: 02/03/2013