



**MANUEL ÁLVAREZ
RODRÍGUEZ**

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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.

I have published 98 scientific documents, 94 of them included in the **SCI** (2 reviews), and most of them in the first quartile of relevance for its specific field of research: 22 as first author, 16 as second author, 27 as last author, 1 corresponding and 29 collaborations. I am the first author of a **book chapter** in an Encyclopedia of Reproduction. I have presented about 100 abstracts to international meetings (10 oral communication, 1 plenary, two review articles (plenaries) and three short communications). My **h index** is **28** (2200 citations) and the **i10 index** is **56** (56 publications out of 90 were cited more than 10 times) according to google scholar.

I have revised more than 250 publications of 43 Scientific Journals from 2014 and I am Review **Editor** in Frontiers in Physiology (in Reproductive and Mating Physiology), Review Editor in Frontiers in Genetics (in Livestock Genomics), Guest Associate Editor in Frontiers in Veterinary Science (in Animal Reproduction - Theriogenology), and Editorial Board and Section Board Member of Animals-MDPI. I have participated, as Guest Editor, in 5 Special Issue and Research Topics in International Journal of Molecular Sciences and Animals (MDPI) and Frontiers in Veterinary Science. I am involved in editing a **book** entitled **Spermatology: Methods and Protocols**, to be published in the lab protocol series Methods in Molecular Biology, published by Springer Nature, in April 2025.

I gained two competitive postdoctoral and consolidation grants in Spain (" **Juan de la Cierva Incorporación**" and " **Ramón y Cajal Program**").

I have the **accreditations** for "Profesor Ayudante Doctor" and "Profesor Contratado Doctor" (ANECA), the Excellence Research Accreditation I3-program (2019), and (Docent - Associate Professor) in Cell and Molecular Biology of Reproduction" at the Medical Faculty, Linköping University, Sweden (from 2020).

I have reached **8 projects** (in Sweden and in Spain) as **Principal Investigator** (>1.000.000 € budget) and participated in further 3 projects as co-applicant and 11 projects as working team member, including two agreements with private companies (farming industry).

On January, the 8th, I started a permanent position as "Científico Titular" at the Department of Animal Reproduction (INIA-CSIC, Madrid, Spain).



MANUEL ÁLVAREZ RODRÍGUEZ

Surname(s): **ÁLVAREZ RODRÍGUEZ**
Name: **MANUEL**
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ScopusID: **52563235600**
ResearcherID: **F-8834-2010**
Date of birth: **19/02/1983**
Aut. region/reg. of birth: **Castile and León**
City of birth: **VILLABLINO**
Contact aut. region/reg.: **Community of Madrid**
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Current professional situation

Employing entity: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)

Department: Reproducción Animal, INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)

Professional category: Científico Titular

Start date: 08/01/2024

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 310408 - Porcina; 310411 - Reproduction

Previous positions and activities

	Employing entity	Professional category	Start date
1	INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)	Senior Researcher (Ramón y Cajal; MINECO)	01/05/2022
2	Universitat Autònoma de Barcelona	Jóvenes Investigadores (Proyecto del Plan Nacional; MICIIN)	01/12/2020
3	University of Linköping	Principal Research Engineer	01/08/2017
4	Universitat Autònoma de Barcelona	Senior Researcher (Juan de la Cierva-Incorporación; MINECO)	01/04/2018
5	University of Linköping	Postdoctoral Researcher	01/08/2015
6	Yamanashi University (JSPS-fellowship)	Visiting Professor	01/02/2017
7	University of Linköping	Postdoctoral Fellowship	01/08/2014
8	Clínica San Francisco	Technician on Human Tissue Establishment (Fundación Clínica San Francisco)	23/09/2013
9	Universidad de León	PhD student	01/10/2008
10	Universidad de León	Research in training	01/04/2008



- 1** **Employing entity:** INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
Professional category: Senior Researcher (Ramón y Cajal; MINECO)
Start-End date: 01/05/2022 - 07/01/2024 **Duration:** 1 year - 8 months - 7 days
- 2** **Employing entity:** Universitat Autònoma de Barcelona
Professional category: Jóvenes Investigadores (Proyecto del Plan Nacional; MICIIN)
Start-End date: 01/12/2020 - 30/04/2022 **Duration:** 1 year - 5 months
- 3** **Employing entity:** University of Linköping
Professional category: Principal Research Engineer
Start-End date: 01/08/2017 - 31/01/2022 **Duration:** 4 years - 6 months
- 4** **Employing entity:** Universitat Autònoma de Barcelona
Professional category: Senior Researcher (Juan de la Cierva-Incorporación; MINECO)
Start-End date: 01/04/2018 - 31/03/2020 **Duration:** 2 years
- 5** **Employing entity:** University of Linköping
Professional category: Postdoctoral Researcher
Start-End date: 01/08/2015 - 31/07/2017 **Duration:** 2 years
- 6** **Employing entity:** Yamanashi University (JSPS-fellowship)
Professional category: Visiting Professor
Start-End date: 01/02/2017 - 30/06/2017 **Duration:** 5 months
- 7** **Employing entity:** University of Linköping
Professional category: Postdoctoral Fellowship
Start-End date: 01/08/2014 - 31/07/2015 **Duration:** 1 year
- 8** **Employing entity:** Clínica San Francisco
Professional category: Technician on Human Tissue Establishment (Fundación Clínica San Francisco)
Start-End date: 23/09/2013 - 31/07/2014 **Duration:** 10 months
- 9** **Employing entity:** Universidad de León
Professional category: PhD student
Start-End date: 01/10/2008 - 30/09/2012 **Duration:** 4 years
- 10** **Employing entity:** Universidad de León
Professional category: Research in training
Start-End date: 01/04/2008 - 30/09/2008 **Duration:** 6 months



Education

University education

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

University degree: Higher degree

Name of qualification: Bachelor degree on Biological Sciences (Fundamental Biology)

Degree awarding entity: Universidad de León

Type of entity: University

Date of qualification: 11/2007

Doctorates

Doctorate programme: Sanidad animal y reproducción

Degree awarding entity: Universidad de León

Type of entity: University

Date of degree: 08/02/2013

Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

- 1** **Title of course/seminar:** Problem Based Learning and small group tutorial, 2 credits
Goals of the course/seminar: Training in Problem Base learning Teaching
Organising entity: Linköping University, Sweden
Faculty, institute or centre: Medicine and Health Sciences
Duration in hours: 20 hours
Start-End date: 15/10/2018 - 04/12/2019
- 2** **Title of course/seminar:** Research Supervision - Advanced Course in Higher Education Pedagogy, 4 credits
Goals of the course/seminar: Training in Research Supervision
Organising entity: Linköping University, Sweden
Faculty, institute or centre: Medicine and Health Sciences
Duration in hours: 40 hours
Start-End date: 15/10/2018 - 26/05/2019
- 3** **Title of course/seminar:** FDES Formación Docente en Educación Superior
Goals of the course/seminar: Teaching training in Higher Education
Organising entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
Duration in hours: 175 hours
Start-End date: 18/06/2018 - 17/01/2019



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Swedish	A1	A1	A1	A1	A1
English	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- Name of the course:** Biotecnologia Embrionària Aplicada a la Ramaderia
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Veterinaria - Biotecnologia Embrionària Aplicada a la Ramaderia
Start date: 2021 **End date:** 01/2022
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 6
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Veterinaria
City of entity: Spain
- Type of teaching:** International teaching
Name of the course: Organogenesis and Embryology
Type of programme: Bachelor's degree **Type of teaching:** In person theory
Type of subject: Core
Assessment type: Internal assessment
University degree: Bachelor's Programme in Medicine. 8LAG11-HT2020
Course given: Bachelor's Programme in Medical Biology
Start date: 10/12/2020 **End date:** 16/12/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 9
Entity: Linköping University **Type of entity:** University
Faculty, institute or centre: Faculty of Health Sciences
Department: Medical Sciences
City of entity: Linköping, Sweden
City assessment entity: Linköping, Sweden
Assessment type: Internal assessment
Subject language: English
- Type of teaching:** International teaching
Name of the course: Laboratory techniques for experimental life sciences. Western Blotting and Flow cytometry.
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
Assessment type: Internal assessment
University degree: Master's Programme in Laboratory techniques for experimental life sciences 8MEA06-HT2020
Course given: Laboratory Techniques in Experimental Biosciences

**Start date:** 28/09/2021**End date:** 29/09/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 4**Entity:** Linköping University**Type of entity:** University**Faculty, institute or centre:** Faculty of Health Sciences**Department:** Medical Sciences**City of entity:** Linköping, Sweden**City assessment entity:** Linköping, Sweden**Assessment type:** Internal assessment**Subject language:** English**4 Type of teaching:** International teaching**Name of the course:** Developmental and Stem Cell Biology**Type of programme:** Bachelor's degree**Type of teaching:** In person theory**Type of subject:** Core**Assessment type:** Internal assessment**University degree:** Bachelor's Programme in Experimental and Industrial Biomedicine 8BKG22-2020**Course given:** Bachelor's Programme in Experimental and Industrial Biomedicine**Start date:** 17/09/2020**End date:** 23/09/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 2**Entity:** Linköping University**Type of entity:** University**Faculty, institute or centre:** Faculty of Health Sciences**Department:** Medical Sciences**City of entity:** Linköping, Sweden**City assessment entity:** Linköping, Sweden**Assessment type:** Internal assessment**Subject language:** English**5 Type of teaching:** International teaching**Name of the course:** Organogenesis and Embryology**Type of programme:** Bachelor's degree**Type of teaching:** In person theory**Type of subject:** Core**Assessment type:** Internal assessment**University degree:** Bachelor's Programme in Medicine. 8LAG11-VT2021**Course given:** Bachelor's Programme in Medical Biology**Start date:** 07/05/2020**End date:** 15/05/2021**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 9**Entity:** Linköping University**Type of entity:** University**Faculty, institute or centre:** Faculty of Health Sciences**Department:** Medical Sciences**City of entity:** Linköping, Sweden**City assessment entity:** Linköping, Sweden**Assessment type:** Internal assessment**Subject language:** English**6 Name of the course:** Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori**Type of programme:** Bachelor's degree**Type of teaching:** Laboratory work**Type of subject:** Core



University degree: Veterinaria - Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori

Start date: 05/2021

End date: 05/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 3

Entity: Universitat Autònoma de Barcelona

Type of entity: University

Faculty, institute or centre: Facultat de Veterinaria

City of entity: Spain

7 Name of the course: Biotecnologia Embrionària Aplicada a la Ramaderia

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Core

University degree: Veterinaria - Biotecnologia Embrionària Aplicada a la Ramaderia

Start date: 2020

End date: 01/2021

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 6

Entity: Universitat Autònoma de Barcelona

Type of entity: University

Faculty, institute or centre: Facultat de Veterinaria

City of entity: Spain

8 Type of teaching: International teaching

Name of the course: Organogenesis and Embryology

Type of programme: Bachelor's degree

Type of teaching: In person theory

Type of subject: Core

Assessment type: Internal assessment

University degree: Bachelor's Programme in Medicine. 8LAG11-HT2020

Course given: Bachelor's Programme in Medical Biology

Start date: 10/12/2020

End date: 10/12/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 9

Entity: Linköping University

Type of entity: University

Faculty, institute or centre: Faculty of Health Sciences

Department: Medical Sciences

City of entity: Linköping, Sweden

City assessment entity: Linköping, Sweden

Assessment type: Internal assessment

Subject language: English

9 Type of teaching: International teaching

Name of the course: Developmental and Stem Cell Biology

Type of programme: Bachelor's degree

Type of teaching: In person theory

Type of subject: Core

Assessment type: Internal assessment

University degree: Bachelor's Programme in Experimental and Industrial Biomedicine 8BKG22-2020

Course given: Bachelor's Programme in Experimental and Industrial Biomedicine

Start date: 17/09/2020

End date: 17/09/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 2

Entity: Linköping University

Type of entity: University

Faculty, institute or centre: Faculty of Health Sciences

Department: Medical Sciences



City of entity: Linköping, Sweden
City assessment entity: Linköping, Sweden
Assessment type: Internal assessment
Subject language: English

10 **Type of teaching:** International teaching
Name of the course: Laboratory techniques for experimental life sciences. Western Blotting and Flow cytometry.
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Core
Assessment type: Internal assessment
University degree: Master's Programme in Laboratory techniques for experimental life sciences 8MEA06-HT2020
Course given: Laboratory Techniques in Experimental Biosciences
Start date: 16/09/2019 **End date:** 14/09/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 4
Entity: Linköping University **Type of entity:** University
Faculty, institute or centre: Faculty of Health Sciences
Department: Medical Sciences
City of entity: Linköping, Sweden
City assessment entity: Linköping, Sweden
Assessment type: Internal assessment
Subject language: English

11 **Type of teaching:** International teaching
Name of the course: Organogenesis and Embryology
Type of programme: Bachelor's degree **Type of teaching:** In person theory
Type of subject: Core
Assessment type: Internal assessment
University degree: Bachelor's Programme in Medicine. 8LAG11-VT2020
Course given: Bachelor's Programme in Medical Biology
Start date: 07/05/2020 **End date:** 07/05/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 9
Entity: Linköping University **Type of entity:** University
Faculty, institute or centre: Faculty of Health Sciences
Department: Medical Sciences
City of entity: Linköping, Sweden
City assessment entity: Linköping, Sweden
Assessment type: Internal assessment
Subject language: English

12 **Name of the course:** Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Veterinaria - Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori
Start date: 05/2020 **End date:** 05/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 3
Entity: Universitat Autònoma de Barcelona **Type of entity:** University



Faculty, institute or centre: Facultad de Veterinaria
City of entity: Spain

13 Name of the course: Morfología I

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Core

University degree: Veterinaria - Morfología I

Start date: 2019

End date: 03/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 34

Entity: Universitat Autònoma de Barcelona

Type of entity: University

Faculty, institute or centre: Facultad de Veterinaria

City of entity: Spain

14 Name of the course: Biotecnología Embrionària Aplicada a la Ramaderia

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Core

University degree: Veterinaria - Biotecnología Embrionària Aplicada a la Ramaderia

Start date: 2019

End date: 01/2020

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 6

Entity: Universitat Autònoma de Barcelona

Type of entity: University

Faculty, institute or centre: Facultad de Veterinaria

City of entity: Spain

15 Type of teaching: International teaching

Name of the course: Organogenesis and Embryology

Type of programme: Bachelor's degree

Type of teaching: In person theory

Type of subject: Core

Assessment type: Internal assessment

University degree: Bachelor's Programme in Medical Biology. 8BKG56-HT2019

Course given: Bachelor's Programme in Medical Biology

Start date: 29/10/2019

End date: 30/10/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 9

Entity: Linköping University

Type of entity: University

Faculty, institute or centre: Faculty of Health Sciences

Department: Medical Sciences

City of entity: Linköping, Sweden

City assessment entity: Linköping, Sweden

Assessment type: Internal assessment

Subject language: English

16 Type of teaching: International teaching

Name of the course: Laboratory techniques for experimental life sciences. Western Blotting and Flow cytometry.

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Core

Assessment type: Internal assessment

University degree: Master's Programme in Laboratory techniques for experimental life sciences 8MEA06-HT2019

Course given: Laboratory Techniques in Experimental Biosciences

Start date: 16/09/2019

End date: 23/09/2019

**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 4**Entity:** Linköping University**Type of entity:** University**Faculty, institute or centre:** Faculty of Health Sciences**Department:** Medical Sciences**City of entity:** Linköping, Sweden**City assessment entity:** Linköping, Sweden**Assessment type:** Internal assessment**Subject language:** English**17 Name of the course:** Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori**Type of programme:** Bachelor's degree**Type of teaching:** Laboratory work**Type of subject:** Core**University degree:** Veterinaria - Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori**Start date:** 2019**End date:** 05/2019**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 3**Entity:** Universitat Autònoma de Barcelona**Type of entity:** University**Faculty, institute or centre:** Facultat de Veterinaria**City of entity:** Spain**18 Type of teaching:** International teaching**Name of the course:** Developmental and Stem Cell Biology**Type of programme:** Bachelor's degree**Type of teaching:** In person theory**Type of subject:** Core**Assessment type:** Internal assessment**University degree:** Bachelor's Programme in Experimental and Industrial Biomedicine 8BKG22-2019**Course given:** Bachelor's Programme in Experimental and Industrial Biomedicine**Start date:** 31/01/2019**End date:** 31/01/2019**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 2**Entity:** Linköping University**Type of entity:** University**Faculty, institute or centre:** Faculty of Health Sciences**Department:** Medical Sciences**City of entity:** Linköping, Sweden**City assessment entity:** Linköping, Sweden**Assessment type:** Internal assessment**Subject language:** English**19 Name of the course:** Biotecnologia Embrionària Aplicada a la Ramaderia**Type of programme:** Bachelor's degree**Type of teaching:** Laboratory work**Type of subject:** Core**University degree:** Veterinaria - Biotecnologia Embrionària Aplicada a la Ramaderia**Start date:** 2018**End date:** 01/2019**Type of hours/ ECTS credits:** Hours**Hours/ECTS credits:** 6**Entity:** Universitat Autònoma de Barcelona**Type of entity:** University**Faculty, institute or centre:** Facultat de Veterinaria**City of entity:** Spain



- 20** **Name of the course:** Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Veterinaria -Tècniques de Reproducció Assistida Aplicades a la Gestió de Soques d'Animals de Laboratori
Start date: 05/2018 **End date:** 05/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Faculty, institute or centre: Facultat de Veterinària
City of entity: Spain
- 21** **Name of the course:** Biotecnología de la reproducción
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Biotecnología
Start date: 01/10/2009 **End date:** 30/06/2012
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 48
Entity: Universidad de León **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias Biológicas y Ambientales
Department: Biología celular
City of entity: Spain

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Mapping the glucocorticoid expression across species: checks and balances during reproductive events.
Type of project: Doctoral thesis
Co-director of thesis: Manel López Béjar; Manuel Álvarez Rodríguez
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
City of entity: Barcelona, Catalonia, Spain
Student: Mateo Ruiz Conca
Date of reading: 14/10/2022
- 2** **Project title:** Impacto de las modificaciones epigenéticas en las histonas espermáticas: Fertilidad masculina y calidad embrionaria.
Type of project: Final degree thesis (TFG)
Co-director of thesis: Manuel Alvarez Rodriguez; Felipe Martinez Pastor
Entity: Universidad de León **Type of entity:** University
City of entity: León, Castile and León, Spain
Student: Yanira Reimundo Barrios
Obtained qualification: Apto
Date of reading: 06/2022
- 3** **Project title:** Cold-inducible RNA-binding protein: an RNA chaperone with potential roles in animal reproductive physiology
Type of project: Doctoral thesis



Co-director of thesis: Manel López Béjar; Manuel Álvarez Rodríguez

Entity: Universitat Autònoma de Barcelona

Type of entity: University

City of entity: Barcelona, Catalonia, Spain

Student: Jaume Gardela Santacruz

Date of reading: 28/04/2022

4 Project title: Boar sperm Aquaporins mRNA expression under capacitation conditions.

Type of project: Visiting master student Erasmus +: 3 month

Co-director of thesis: Manuel Alvarez Rodriguez

Entity: Linköping University, Sweden

Type of entity: University

City of entity: Linköping, Sweden

Student: Marina Castany Quintana

Date of reading: 03/2021

5 Project title: Boar sperm mRNA expression under capacitation conditions.

Type of project: Visiting PhD student: 3 month

Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez

Entity: Linköping University, Sweden

Type of entity: University

City of entity: Linköping, Sweden

Student: Estíbaliz Lacalle

Date of reading: 12/2020

6 Project title: Boar sperm vitrification mRNA expression.

Type of project: Visiting PhD student: 3 month

Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez

Entity: Linköping University, Sweden

Type of entity: University

City of entity: Linköping, Sweden

Student: Cesar Consuegra

Date of reading: 12/2020

7 Project title: Modificaciones celulares de los espermatozoides para la mejora de su crioconservación

Type of project: Final degree thesis (TFG)

Co-director of thesis: Manuel Álvarez Rodríguez; Manel López Béjar

Entity: Universitat Autònoma de Barcelona

Type of entity: University

City of entity: Barcelona, Catalonia, Spain

Student: Anna Palomares

Obtained qualification: 9.91

Date of reading: 15/07/2020

Quality recognition: Yes

8 Project title: Biomarcadores de fertilidad en el semen de animales domésticos (cerdos).

Type of project: Final degree thesis (TFG)

Co-director of thesis: Manuel Alvarez Rodriguez; Felipe Martinez Pastor

Entity: Universidad de León

Type of entity: University

City of entity: León, Castile and León, Spain

Student: Amaya Rojo Fernández

Obtained qualification: Apto

Date of reading: 06/2020



- 9** **Project title:** Citokines and chemokines analysis in boar sperm and swine tissues
Type of project: Visiting PhD Researcher: 1 month
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Cristina Pérez Patiño
Date of reading: 02/2018
- 10** **Project title:** DNA fragmentation analysis in human speerm split ejaculates
Type of project: Intern research student: 12 months
Co-director of thesis: Manuel Alvarez Rodriguez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Isabelle Perhson
Date of reading: 01/2018
- 11** **Project title:** DNA-methylation, DNA-stability and DNA-maturation in ram sperm submitted to capacitation processes
Type of project: Visiting PhD Researcher: 3 months
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Patricia Peris Frau
Date of reading: 01/2018
- 12** **Project title:** Citokines and chemokines analysis in boar sperm and swine tissues
Type of project: Visiting PhD Researcher: 2 months
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Cristina Pérez Patiño
Date of reading: 10/2017
- 13** **Project title:** Citokines and chemokines analysis in boar sperm and swine tissues
Type of project: Visiting PhD Researcher: 2 months
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Isabel Barranco Cascales
Date of reading: 10/2017
- 14** **Project title:** Genetic expression of swine female genital tract in response to entrance of sperm
Type of project: Visiting PhD Researcher: 3 months
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Cristina Martinez Serrano
Date of reading: 09/2017



- 15** **Project title:** DNA fragmentation analysis in human speerm split ejaculates
Type of project: Summer student: 2 moths
Co-director of thesis: Manuel Alvarez Rodriguez
Entity: Linköping University, Sweden **Type of entity:** University
City of entity: Linköping, Sweden
Student: Isabelle Perhson
Date of reading: 08/2017
- 16** **Project title:** Isolation and characterization of miRNAs in boar ejaculates
Type of project: Final degree thesis (TFG)
Co-director of thesis: Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez
Entity: Linköping University, Sweden
City of entity: Linköping, Sweden
Student: Thomas Hillerton
Obtained qualification: Apto
Date of reading: 06/2016

Courses and seminars given

- 1** **Type of event:** PhD Course
Name of the event: Cryopreservation of spermatozoa - Theory & practice.
Organising entity: Karolinska Institute (Stockholm, Sweden)
Hours of teaching: 1,5
Teaching date: 23/11/2020
- 2** **Type of event:** PhD Course
Name of the event: Cryopreservation of spermatozoa - Theory & practice.
Organising entity: Karolinska Institute (Stockholm, Sweden)
Hours of teaching: 1,5
Teaching date: 25/11/2019
- 3** **Type of event:** PhD Course
Name of the event: Cryopreservation of spermatozoa - Theory & practice.
Organising entity: Karolinska Institute (Stockholm, Sweden)
Hours of teaching: 1,5
Teaching date: 26/11/2018
- 4** **Type of event:** Seminar
Name of the event: Environmental impact on reproduction/fertility.
Organising entity: Universidad de Linköping, Sweden
Hours of teaching: 15
Teaching date: 08/2018
- 5** **Type of event:** Seminar
Name of the event: Andrology: reproduction and health during a mans lifetime
Organising entity: Universidad de Linköping, Sweden
Hours of teaching: 2
Teaching date: 08/2017



- 6** **Type of event:** Conference
Name of the event: microRNAs en plasma seminal: biomarcadores de fertilidad?
Organising entity: Universidad de León **Type of entity:** University
Hours of teaching: 2
Teaching date: 2015

Participation in innovative teaching projects

- 1** **Project title:** XI Jornada Internacional Científic-Técnica de Reproducción Porcina
City of entity: Huesca, Aragon, Spain
Type of participation: Plenary
Time of working relationship: For a limited time
Funding entity: HUMECO **Type of entity:** Business
Participating entity/entities: HUMECO **Type of entity:** Business
Start-End date: 27/09/2021 - 04/10/2021 **Duration:** 1 day
- 2** **Project title:** 2019 Swine Academy ResPig and ReprodPig Training. Presented: Reproductive Physiology and Anatomy of the Boar.
Type of participation: Docent in practical lessons
Time of working relationship: For a limited time
Funding entity: Merk Animal Health
Participating entity/entities: Universidad de Murcia **Type of entity:** University
 Universitat Autònoma de Barcelona **Type of entity:** University
 MERK Animal Health **Type of entity:** Business
Start-End date: 27/09/2019 - 04/10/2019 **Duration:** 6 days
- 3** **Project title:** FDES - Formación Docente en Educación Superior
City of entity: Barcelona, Catalonia, Spain
Type of participation: Student
Contribution to the project: Formación Docente en Educación Superior (175 hours)
Dedication regime: Part time
Time of working relationship: For a limited time
Number of participants: 15
Funding entity: Universitat Autònoma de Barcelona, Spain
Participating entity/entities: Linköping University **Type of entity:** University
Type of call: Course
Geographical area: European Union
Start-End date: 18/06/2018 - 30/07/2019
- 4** **Project title:** Research Supervision - Advanced Course in Higher Education Pedagogy, 4 credits
City of entity: Linköping, Sweden
Type of participation: Student
Contribution to the project: Mandatory course for the certification of Docent in Sweden
Dedication regime: Part time
Time of working relationship: For a limited time



Name of the main researcher: Sally Wiggins

Number of participants: 15

Funding entity: Linköping University, Sweden

Participating entity/entities:

Linköping University

Type of entity: University

Type of call: Course

Geographical area: European Union

Start-End date: 15/10/2018 - 26/05/2019

Duration: 1 month

5 Project title: Problem Based Learning and small group tutorial, 2 credits

City of entity: Linköping, Sweden

Type of participation: Student

Contribution to the project: Mandatory course for the certification of Docent in Sweden

Dedication regime: Part time

Time of working relationship: For a limited time

Name of the main researcher: Sally Wiggins

Number of participants: 15

Funding entity: Linköping University, Sweden

Participating entity/entities:

Linköping University

Type of entity: University

Type of call: Course

Geographical area: European Union

Start-End date: 15/10/2018 - 13/11/2018

Duration: 1 month

6 Project title: 2018 Swine Academy ResPig and ReprodPig Training. Presented: Reproductive Physiology and Anatomy of the Boar.

Type of participation: Docent in practical lessons

Time of working relationship: For a limited time

Funding entity: Merk Animal Health

Participating entity/entities:

Universidad de Murcia

Type of entity: University

Universitat Autònoma de Barcelona

Type of entity: University

MERK Animal Health

Type of entity: Business

Start-End date: 27/09/2018 - 04/10/2018

Duration: 6 days

7 Project title: How to Lead a Research Group

City of entity: Linköping, Sweden

Type of participation: Student

Contribution to the project: Course

Dedication regime: Part time

Time of working relationship: For a limited time

Name of the main researcher: Maria Lerm

Funding entity: Linköping University, Sweden

Participating entity/entities:

Linköping University

Type of entity: University

Type of call: Course

Geographical area: European Union

Start-End date: 15/10/2015 - 11/10/2016

Duration: 1 year



Healthcare experience

Other activities/achievements not included above

- 1** **Other relevant activities:** Advanced Microscopy for life Science
Entity where project took place: National Microscopy Infrastructure Sweden **Type of entity:** R&D Centre
End date: 13/04/2018
- 2** **Other relevant activities:** Epigenetics in disease and well-being (LiU-MF/IKE-8FO0089)
Entity where project took place: University of Linköping, Sweden **Type of entity:** University
End date: 21/01/2016
- 3** **Other relevant activities:** Laboratory Animal Science Course. Linköping, Sweden.
Identify key words: Laboratory animal science
Entity where project took place: University of Linköping, Sweden **Type of entity:** University
City of entity: Linköping, Extra-Regio, Sweden
Organizing entity: Linköping University **Type of entity:** University
End date: 12/05/2015
- 4** **Other relevant activities:** Course of Handling of Endanger Animal Species
Entity where project took place: Universidad de León **Type of entity:** University
End date: 29/05/2013
- 5** **Other relevant activities:** Teaching Course (CAP. Certificado de Aptitud Pedagógica)
Entity where project took place: Universidad de León **Type of entity:** University
End date: 03/03/2008
- 6** **Other relevant activities:** II Course on Cryobiology. Human Tissue Establishment of Fundación Clínica San Francisco
Entity where project took place: Fundación Clínica San Francisco (León) **Type of entity:** Foundation
End date: 13/11/2007
- 7** **Other relevant activities:** X Course on Introduction on Microbiology Research. SEM (Sociedad Española de Microbiología). Cádiz.
Entity where project took place: Universidad de Cádiz **Type of entity:** University
End date: 22/04/2006



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Grups de recerca Pre-consolidats (GRPRE)
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Universitat Autònoma de Barcelona **Type of entity:** University
Start date: 01/01/2018 **Duration:** 2 years
- 2 Name of the group:** Andrologisk Centrum
Aims of the group: Grupo Multidisciplinar de Reproducción humana
Type of collaboration: Co-authorship of projects and their development
Affiliation entity: Linköping University **Type of entity:** Healthcare Institutions
Start date: 01/01/2017

Scientific or technological activities

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

- 1 Name of the project:** Towards identification of sperm mechanism and relevant physiology processes in the porcine animal model
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez
Nº of researchers: 10
Funding entity or bodies: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Start-End date: 01/01/2025 - 31/12/2026 **Duration:** 2 years
Total amount: 29.901,4 €
Applicant's contribution: iLINK24015
- 2 Name of the project:** Signaling mechanism in sperm in vitro systems: capacitation and cryopreservation, and their effect on the female genital tract. MECAPSTORAGE
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez
Nº of researchers: 5
Funding entity or bodies: Ministerio de Ciencia e Innovación. Universidades **Type of entity:** MICINN

**Start-End date:** 01/09/2023 - 31/08/2026**Duration:** 3 years**Total amount:** 256.250 €**Applicant's contribution:** PID2022-136561OB-I00

- 3 Name of the project:** Signaling mechanism in sperm in vitro systems: capacitation and cryopreservation; relation with fertility? (MECAPCRYO).

Type of project: Research and development, including transfer**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)**City of entity:** Madrid, Community of Madrid, Spain**Name principal investigator (PI, Co-PI....):** Manuel Alvarez Rodriguez**Nº of researchers:** 5**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Universidades

Type of entity: MICINN**Start-End date:** 01/04/2024 - 31/03/2026**Duration:** 2 years**Total amount:** 199.904 €**Applicant's contribution:** CNS2023-144564

- 4 Name of the project:** Deciphering the effect of in vitro capacitation conditions on spermatozoa mitochondrial protein expression

Type of project: Research and development, including transfer**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)**City of entity:** Madrid, Community of Madrid, Spain**Name principal investigator (PI, Co-PI....):** Manuel Alvarez Rodriguez**Nº of researchers:** 2**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas

Type of entity: State agency**Start-End date:** 01/05/2025 - 31/07/2025**Duration:** 3 months**Total amount:** 3.150 €**Applicant's contribution:** iMOVE24065

- 5 Name of the project:** Biophysical and cellular modifications to improve embryo development outcomes of vitrified bovine oocytes and in vitro produced embryos.

Type of project: Research and development, including transfer**Degree of contribution:** Working Team Member**Entity where project took place:** Universitat Autònoma de Barcelona**Type of entity:** University**City of entity:** Barcelona, Catalonia, Spain**Name principal investigator (PI, Co-PI....):** Manel López Béjar; Teresa Mogas Amorós**Nº of researchers:** 1**Funding entity or bodies:**

Ministerio de Economía y Hacienda

Type of entity: MINECO**City funding entity:** Madrid, Community of Madrid, Spain**Type of participation:** Working Team Member**Start-End date:** 01/01/2021 - 31/12/2024**Duration:** 4 years**Total amount:** 223.850 €**Applicant's contribution:** PID2020-116531RB-I00



- 6** **Name of the project:** Extracellular vesicles in pig seminal plasma. Characterization and roles in sperm function, preservation and in vivo fertility.
Type of project: Research and development, including transfer
Degree of contribution: Working Team Member
Entity where project took place: Universidad de Murcia **Type of entity:** University
City of entity: Murcia, Region of Murcia, Spain
Name principal investigator (PI, Co-PI....): Jordi Roca
Nº of researchers: 2
Funding entity or bodies: Ministerio de Economía y Hacienda **Type of entity:** MINECO
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Working Team Member
Start-End date: 01/01/2021 - 31/12/2024 **Duration:** 4 years
Total amount: 169.400 €
Applicant's contribution: PID2020-113493RB-I00
- 7** **Name of the project:** Mechanisms of sperm cryoresistance and new procedures for sperm and testicular tissue cryopreservation in domestic and wild ruminants.
Type of project: Research and development, including transfer
Degree of contribution: Working Team Member
Entity where project took place: Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria **Type of entity:** Public Research Body
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Julian Santiago Moreno
Nº of researchers: 1
Funding entity or bodies: Ministerio de Economía y Hacienda **Type of entity:** MINECO
City funding entity: Madrid, Community of Madrid, Spain
Type of participation: Working Team Member
Start-End date: 01/01/2021 - 31/12/2023 **Duration:** 3 years
Total amount: 169.400 €
Applicant's contribution: PID2020-113288RB-I00
- 8** **Name of the project:** Modulation of female genital immune homeostasis by seminal exosomes: a conserved role for fertility? (EXOIMMUNE)
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universitat Autònoma de Barcelona **Type of entity:** University
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez
Nº of researchers: 1
Funding entity or bodies: Ministerio de Economía y Hacienda **Type of entity:** MINECO
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 01/12/2020 - 30/11/2023 **Duration:** 3 years
Total amount: 169.000 €
Applicant's contribution: PID2019-108320RJ-I00



- 9 Name of the project:** The immunological paradox of pregnancy and embryo mortality in pigs, where does it start?

Type of project: Research and development, including transfer

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

Entity where project took place: Linköping University

City of entity: Linköping, Sweden

Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez

Nº of researchers: 1

Funding entity or bodies:

2019-00288. FORMAS

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

Duration: 3 years

Total amount: 297.638 €

- 10 Name of the project:** Increasing Efficiency in Porcine Embryo Transfer (IEPET).

Type of project: Research and development, including transfer

Degree of contribution: Working Team Member

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

City of entity: Murcia, Spain

Name principal investigator (PI, Co-PI....): Emilio Arsenio Martinez; Cristina Cuello

Nº of researchers: 2

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: MINECO

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Working Team Member

Start-End date: 01/01/2019 - 31/12/2022

Duration: 3 years

Total amount: 205.700 €

Applicant's contribution: RTI2018-093525-B-100

- 11 Name of the project:** Regulacion redox en el espermatozoide equino: podemos hacer que las especies reactivas de oxigeno trabajen en nuestro favor durante la congelacion y refrigeración.

Type of project: Research and development, including transfer

Degree of contribution: Working Team Member

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

City of entity: Cáceres, Spain

Name principal investigator (PI, Co-PI....): Fernando Juan Peña Vega

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: MINECO

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Working Team Member

Start-End date: 01/01/2018 - 31/12/2021

Duration: 4 years

Total amount: 205.700 €

Applicant's contribution: AGL2017-83149-R

- 12 Name of the project:** Does signal components in seminal fluid rule fertility in production animals?

Type of project: Research and development, including transfer

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

Entity where project took place: Linköping University



City of entity: Linköping, Sweden

Name principal investigator (PI, Co-PI....): Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez

Nº of researchers: 2

Funding entity or bodies:

2017-00946. FORMAS

Start-End date: 01/01/2018 - 31/12/2020

Duration: 3 years

Total amount: 274.336,2 €

- 13 Name of the project:** Variaciones en la eficacia de la criopreservación de espermatozoides de pequeños rumiantes como respuesta a los cambios de hormonas tiroideas y la expresión de acuaporinas.

Type of project: Research and development, including transfer

Degree of contribution: Working Team Member

Entity where project took place: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)

City of entity: Cáceres, Spain

Name principal investigator (PI, Co-PI....): Julian Santiago Moreno

Funding entity or bodies:

Ministerio de Economía y Hacienda

Type of entity: MINECO

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Working Team Member

Start-End date: 01/01/2018 - 31/12/2020

Duration: 3 years

Total amount: 178.112 €

Applicant's contribution: AGL2017-85753-R

- 14 Name of the project:** Infertility: Causes of male infertility.

Type of project: Research and development, including transfer

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

Entity where project took place: Linköping University

City of entity: Linköping, Extra-Regio, Sweden

Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez

Nº of researchers: 1

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

Duration: 3 years

Total amount: 60.000 €

Applicant's contribution: Principal Investigator

- 15 Name of the project:** Improved sperm diagnostics for clinical use in the investigation and treatment of involuntary infertility.

Type of project: Research and development, including transfer

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

Entity where project took place: Linköping University

City of entity: Linköping, Sweden

Name principal investigator (PI, Co-PI....): Manuel Alvarez Rodriguez

Nº of researchers: 2

Funding entity or bodies:

FORSS-745971. FORSS, Forskningsrådet i sydöstra Sverige

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

Duration: 1 year

Total amount: 25.000 €

Applicant's contribution: Principal Investigator



- 16 Name of the project:** Sperm DNA Analysis and Signaling by Sperm Plasma: Can intervention increase the proportion of pregnancies after in vitro assisted fertilization (ART)?
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Linköping University
City of entity: Linköping, Sweden
Name principal investigator (PI, Co-PI....): Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez
Nº of researchers: 2
Funding entity or bodies:
 LIO-698951. Projektmedel ALF (klinik), Region Östergötland
Start-End date: 01/01/2018 - 31/12/2018 **Duration:** 1 year
Total amount: 43.300 €
- 17 Name of the project:** Sexual selection and adaptation during avian domestication in Bangladesh
Type of project: Research and development, including transfer **Geographical area:** Non EU International
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Linköping University **Type of entity:** University
City of entity: Linköping, Sweden
Name principal investigator (PI, Co-PI....): Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez
Nº of researchers: 2
Funding entity or bodies:
 Vetenskapsrådet. 2015-05919 **Type of entity:** State agency
City funding entity: Linköping, Sweden
Start-End date: 01/01/2016 - 31/12/2018 **Duration:** 3 years
Total amount: 120.000 €
Dedication regime: Part time
- 18 Name of the project:** ALF-grant for Students
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Linköping University
City of entity: Linköping, Sweden
Name principal investigator (PI, Co-PI....): Isabelle Pehrson; Manuel Alvarez Rodriguez
Nº of researchers: 1
Funding entity or bodies:
 LIO-704601, LIO-802571 & LIO-833121. Projektmedel ALF (klinik), Region Östergötland
Start-End date: 01/01/2016 - 31/12/2017 **Duration:** 2 years
Total amount: 5.700 €
- 19 Name of the project:** Conservation strategies for brown bear ejaculates adapted to deferred treatment techniques to improve sperm quality.
Entity where project took place: Universidad de León **Type of entity:** University
City of entity: LEÓN, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Luis Anel Rodriguez
Nº of researchers: 9
Funding entity or bodies:
 Ministerio de Ciencia e Innovación. Investigación **Type of entity:** CGL2010-19213



City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 01/01/2011 - 31/12/2013

Total amount: 72.600 €

- 20 Name of the project:** Application of antioxidants to seminal preservation in small ruminants in Castilla y León, for improving their breeding and management

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

City of entity: LEÓN, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Felipe Martínez Pastor

Nº of researchers: 3

Funding entity or bodies:

Junta de Castilla y León

Type of entity: JCyL

City funding entity: Valladolid, Castile and León, Spain

Start-End date: 01/10/2010 - 31/10/2011

Total amount: 34.630 €

- 21 Name of the project:** Collaborative studies on sheep and goat breeding

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

City of entity: LEÓN, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Luis Anel Rodriguez

Nº of researchers: 12

Funding entity or bodies:

Junta de Castilla y León

Type of entity: CONSEJERÍA DE AGRICULTURA Y GANADERÍA

City funding entity: Valladolid, Castile and León, Spain

Start-End date: 01/10/2007 - 31/10/2009

Total amount: 18.000 €

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

- 1 Name of the project:** Research Agreement between Linköping University and Grupo AGROPOR I+D+I. Dnr IKE-2019-00133.

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Cristina Alicia Martinez

Nº of researchers: 3

Participating entity/entities: Linköping University

Funding entity or bodies:

AGROPOR, S.L.

City funding entity: Cantabria, Spain

Start date: 25/03/2019

Duration: 2 years

Total amount: 30.000 €

- 2 Name of the project:** Artificial Insemination on brown bear

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Luis Anel Rodriguez

Nº of researchers: 17

Participating entity/entities: Universidad de León

**Funding entity or bodies:**

CANTUR S.A.

City funding entity: OBREGON, Cantabria, Spain

CANTUR S.A.

City funding entity: OBREGON, Cantabria, Spain**Start date:** 25/03/2004**Total amount:** 46.864 €**Type of entity:** Business**Type of entity:** Business**Duration:** 8 years - 9 months

Scientific and technological activities

Scientific production

- 1** **H index:** 29
Date of application: 17/06/2025
Source of H-Index: GOOGLE SCHOLAR
- 2** **H index:** 22
Date of application: 17/06/2025
Source of H-Index: SCOPUS

Publications, scientific and technical documents

- 1** M Castello-Ruiz; Sabrina Gacem; MM Sánchez Del Pino; Carlos Olegario Hidalgo; Carolina Tamargo; Manuel Álvarez-Rodríguez; Jose Luis Yániz; Miguel Ángel Silvestre. Effect of capacitation on proteomic profile and mitochondrial parameters of spermatozoa in bulls. JOURNAL OF PROTEOME RESEARCH. 24 - 2025, pp. 1817 - 1831. 25/03/2025.
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 8
Impact source: ISI
Impact index in year of publication: 3.8
Position of publication: 15
Relevant publication: Yes
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - BIOCHEMICAL RESEARCH METHODS
Journal in the top 25%: Yes
No. of journals in the cat.: 85
- 2** Manuel Alvarez Rodríguez; Laura García Calvo; Jaume Gardela Santacruz; Mateo Ruiz Conca; Sergi Olvera Maneu; Manel López Béjar; Felipe Martínez Pastor; Alejandro Vicente-Carrillo. Effect of semen extraction in the metabolite and hormonal content of rabbit seminal plasma. VETERINARY MEDICINE AND SCIENCE. 11, pp. e70236. 30/01/2025.
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 8
Impact source: ISI
Impact index in year of publication: 3.0
Position of publication: 53
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Science Edition - VETERINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 167



Relevant publication: Yes

- 3** Manuel Alvarez-Rodriguez; Helena Nieto-Cristóbal; Eduardo de Mercado. Bovine serum albumin (BSA) inclusion in the thawing extender improves boar sperm membrane and acrosomal integrity. REPRODUCTION IN DOMESTIC ANIMALS. 59 - 3, pp. e14952. 13/10/2024.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1.7

Position of publication: 62

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 167

- 4** Manuel Álvarez-Rodríguez; Cristina Tomás-Almenar; Helena Nieto-Cristóbal; Eduardo de Mercado. Evaluation of Different Thawing Protocols on Iberian Boar Sperm Preserved for 10 Years at Different Liquid Nitrogen Levels. ANIMALS. 14 - 6, pp. 914. 15/03/2024.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: ISI

Impact index in year of publication: 3.0

Position of publication: 16

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 167

- 5** Adrián Martín-San Juan; Nerea Gala; Helena Nieto-Cristóbal; Manuel Álvarez-Rodríguez; Eduardo de Mercado. Effect of the addition of exogenous progesterone and the progesterone receptor inhibitor (RU 486) on boar cryopreservation semen extenders. RESEARCH IN VETERINARY SCIENCE. 180, pp. 105400. 02/01/2024.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 2.2

Position of publication: 32

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 167

- 6** Manuel Alvarez Rodríguez; Cristina A Martinez Serrano; Jaume Gardela; Helena Nieto; Eduardo de Mercado; Heriberto Rodríguez Martínez. MicroRNA Expression in Specific Segments of the pig periovarian internal genital tract is Differentially Regulated by Semen or by Seminal Plasma. RESEARCH IN VETERINARY SCIENCE. 168, pp. 105134. 02/01/2024.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 2.4

Position of publication: 29

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 144



Relevant publication: Yes

- 7** Dudkiewicz S; Peris-Frau P; Nieto-Cristóbal H; Santiago-Moreno J; Eduardo de Mercado; Álvarez-Rodríguez M. Bicarbonate and BSA increase the capacitation pattern and acrosomal exocytosis in boar sperm after 120 min of incubation. *REPRODUCTION IN DOMESTIC ANIMALS*. 0, pp. 1 - 4. 14/11/2023.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 1.7

Position of publication: 55

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 143

- 8** Jaume Gardela Santacruz; Mateo Ruiz Conca; Anna Palomares; Sergi Olvera Maneu; Laura García Calvo; Manel López Béjar; Felipe Martínez Pastor; Manuel Alvarez Rodríguez. Effect of Honey, Coenzyme Q10, and β -Carotene/ α -Tocopherol as Novel Additives in Rabbit-Sperm Cryopreservation Extender. *ANIMALS*. 13, pp. 2392. 24/07/2023.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 3.0

Position of publication: 13

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 143

- 9** Manuel Alvarez Rodriguez; Jordi Roca; Emilio Martínez; Heriberto Rodríguez Martinez. Mating modifies the expression of crucial oxidative-reductive transcripts in the pig oviductal sperm reservoir: the female ensuring sperm survival?. *FRONTIERS IN ENDOCRINOLOGY*. 10, pp. 1167832. *FRONTIERS*, 07/06/2023.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: SCOPUS

Impact index in year of publication: 5.2

Position of publication: 36

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - ENDOCRINOLOGY & METABOLISM

Journal in the top 25%: Yes

No. of journals in the cat.: 145

Citations: 0

- 10** Mateo Ruiz Conca; Jaume Gardela; Sergi Olvera Maneu; Manel López Béjar; Manuel Alvarez Rodríguez. NR3C1 and glucocorticoid-regulatory genes mRNA and protein expression in the endometrium and ampulla during the bovine estrous cycle. *RESEARCH IN VETERINARY SCIENCE*. 152, pp. 510 - 523. 20/12/2022.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

**Impact index in year of publication:** 2.4**Position of publication:** 29**Relevant publication:** Yes**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 11** Jaume Gardela; Mateo Ruiz Conca; Sergi Olvera Maneu; Manel López Béjar; Manuel Alvarez Rodríguez. The mRNA expression of the three major described cold-inducible proteins, including CIRBP, differs in the bovine endometrium and ampulla during the estrous cycle. RESEARCH IN VETERINARY SCIENCE. 152, pp. 181 - 189. 20/12/2022.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 2.4**Position of publication:** 29**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 12** Ruiz-Conca M; Gardela J; Mogas T; López-Béjar M; Álvarez-Rodríguez M. Apoptosis and glucocorticoid-related genes mRNA expression is modulated by coenzyme Q10 supplementation during in vitro maturation and vitrification of bovine oocytes and cumulus cells. THERIOGENOLOGY. 192, pp. 62 - 73. 01/10/2022.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 2.8**Position of publication:** 17**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 13** Martinez CA; Alvarez-Rodríguez M; Rodriguez-Martinez H. A decreased expression of Interferon Stimulated Genes in peri-implantation endometrium of embryo transfer recipient sows could contribute to embryo death. ANIMAL-JOURNAL. 16, pp. 100590 - 192. 01/09/2022.

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 3.6**Position of publication:** 9**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 14** O'BRIEN E; MALO C; CASTÑO C; GARCÍA-CASADO P; TOLEDANO-DIAZ A; MARTINEZ-MADRID B; RODRIGUEZ-MARTINEZ H; ALVAREZ-RODRIGUEZ M; SANTIAGO-MORENO J. Sperm freezability is neither associated with the expression of aquaporin 3 nor sperm head dimensions in dromedary caml (Camelus dromedarius).THERIOGENOLOGY. 189, pp. 230 - 236. 01/09/2022.

Type of production: Scientific paper**Position of signature:** 8**Total no. authors:** 9**Impact source:** ISI**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES

**Impact index in year of publication:** 2.8**Position of publication:** 17**Relevant publication:** Yes**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 15** Gardela J; Ruiz-Conca M; García-Sanmartín J.; Martínez A; Mogas T; López-Béjar M; Álvarez-Rodríguez M. Mild hypothermia and vitrification increase the mRNA expression of cold-inducible proteins in bovine oocytes and cumulus cells. THERIOGENOLOGY. 185, pp. 16 - 23. 01/06/2022.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 2.8**Position of publication:** 17**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 143

- 16** Castany Quintana M; Gardela J; Ruiz-Conca M; López-Béjar M; Martínez CA; Rodríguez-Martínez H; Álvarez-Rodríguez M. Changes in AQP's mRNA expression and liquid storage at 17°C: a potential biomarker of boar sperm quality?. REPRODUCTION IN DOMESTIC ANIMALS. 0, pp. 1 - 4. 25/04/2022.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.7**Position of publication:** 55**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 143

- 17** Gardela J; Ruiz-Conca M; Wright D; López-Béjar M; Martínez CA; Rodríguez-Martínez H; Álvarez-Rodríguez M. Semen modulates cell proliferation and differentiation-related transcripts in the pig periovulatory endometrium. BIOLOGY. 11 - 4, pp. 616. MDPI, 18/04/2022.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 4.2**Position of publication:** 25**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 92

- 18** Lacalle E; Consuegra C; Martínez CA; Hidalgo M; Dorado J; Martínez-Pastor F; Álvarez-Rodríguez M; Rodríguez-Martínez H. Bicarbonate-Triggered In Vitro Capacitation of Boar Spermatozoa Conveys an Increased Relative Abundance of the Canonical Transient Receptor Potential Cation (TRPC) Channels 3, 4, 6 and 7 and of CatSper-γ Subunit mRNA Transcripts. ANIMALS. 12, pp. 1012. MDPI, 13/04/2022.

Type of production: Scientific paper**Position of signature:** 8**Total no. authors:** 8**Impact source:** ISI**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes

**Impact index in year of publication:** 3.0**Position of publication:** 13**Relevant publication:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 143

- 19** Santiago-Moreno J; Pequeño B; Martínez-Madrid B; Castaño C; Bóveda P; Velázquez R; Toledano-Díaz A; Álvarez-Rodríguez M; Rodríguez-Martínez H. Expression of aquaglyceroporins in spermatozoa from wild ruminants is influenced by photoperiod and thyroxine concentrations. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 23, pp. 2903. MDPI, 08/04/2022.

Type of production: Scientific paper**Position of signature:** 9**Total no. authors:** 9**Impact source:** ISI**Impact index in year of publication:** 5.6**Position of publication:** 66**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 285

- 20** Cristina Alicia Martinez; Jodi Roca; Manuel Alvarez Rodríguez; Heriberto Rodriguez Martinez. miRNA-profiling in epididymal and ejaculated pig spermatozoa and their relation to fertility levels. BIOLOGY. 11 - 2, pp. 236. 01/02/2022.

Type of production: Scientific paper**Position of signature:** 3**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 4.2**Position of publication:** 25**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 92

- 21** Manuel Alvarez Rodríguez; Cristina Alicia Martinez; Jodi Roca; Heriberto Rodriguez Martinez. mRNA expression of oxidative-reductive proteins in boars with documented different fertility can identify relevant prognostic biomarkers. RESEARCH IN VETERINARY SCIENCE. 141, pp. 195 - 192. 01/12/2021.

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 2.554**Position of publication:** 35**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 144

- 22** Jaume Gardela; Amaia Jauregi Miguel; Cristina Alicia Martinez; Heriberto Rodriguez Martinez; Manel López Béjar; Manuel Alvarez Rodriguez. Semen Modulates Inflammation and Angiogenesis in the Reproductive Tract of Female Rabbits. ANIMALS. 10, pp. 2207. MDPI, 25/11/2020.

Type of production: Scientific paper**Position of signature:** 6**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 6**Impact source:** SCOPUS**Impact index in year of publication:** 2.752**Position of publication:** 17**Source of citations:** SCOPUS**Relevant publication:** Yes**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 166**Citations:** 3

- 23** Mateo Ruiz Conca; Jaume Gardela; Amaia Jauregi Miguel; Cristina Alicia Martinez; Heriberto Rodriguez Martinez; Manel López Béjar; Manuel Alvarez Rodriguez. Seminal plasma triggers the differential expression of the glucocorticoid receptor (NR3C1/GR) in the rabbit reproductive tract. ANIMALS. 10, pp. 2158. MDPI, 19/11/2020.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** SCOPUS**Impact index in year of publication:** 2.752**Position of publication:** 17**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 166

- 24** M Mehdi pour; HD Kia; A Najafi; H Mohammadi; Manuel Alvarez Rodriguez. Effect of crocin and naringenin supplementation in cryopreservation medium on post-thaw rooster sperm quality and expression of apoptosis associated genes. PLOS ONE. 15 - 10, pp. e0241105. 13/10/2020.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 3.240**Position of publication:** 26**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 73**Citations:** 8

- 25** Manuel Alvarez Rodriguez; Cristina Martinez; Dominic Wright; Heriberto Rodriguez Martinez. Does the act of copulation per se, without considering seminaldeposition, change the expression of genes in the porcine female genital tract?. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. MDPI, 01/08/2020.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 5.923**Position of publication:** 67**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 298**Citations:** 2



- 26** Jaume Gardela; Mateo Ruiz Conca; Cristina Martinez; Dominic Wright; Manel López Béjar; Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez. The expression of Cold-Inducible RNA-Binding Protein mRNA Overexpression is Induced in Sow Genital Tract by Natural Mating, but not by Seminal Plasma. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 21 - 15, pp. 5333. MDPI, 27/07/2020.

Type of production: Scientific paper

Position of signature: 7

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 5.923

Position of publication: 67

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 298

Citations: 3

- 27** Jaume Gardela; Amaia Jauregi Miguel; Cristina Martinez; Dominic Wright; Manel López Béjar; Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez. Semen Modulates the Expression of NGF, ABHD2, VCAN, and CTEN in the Reproductive Tract of Female Rabbits. GENES. 11 - 7, pp. 758. MDPI, 07/07/2020.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 4.096

Position of publication: 65

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - GENETICS & HEREDITY

Journal in the top 25%: No

No. of journals in the cat.: 175

Citations: 4

- 28** Mateo Ruiz Conca; Jaume Gardela; Cristina Martinez; Dominic Wright; Manel López Béjar; Heriberto Rodriguez Martinez; Manuel Alvarez Rodriguez. Natural Mating Differentially Triggers Expression of Glucocorticoid Receptor (NR3C1)-Related Genes in the Preovulatory Porcine Female Reproductive Tract. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 21 - 12, pp. 4437. MDPI, 22/06/2020.

Type of production: Scientific paper

Position of signature: 7

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 5.923

Position of publication: 67

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 298

Citations: 5

- 29** Abouzar Najafi; Kia HD; Hamishehkar H; Manuel Alvarez Rodríguez. Effect of quercetin loaded liposomes or nanostructured lipid carrier (NLC) on post-thawed sperm quality and fertility of rooster sperm. THERIOGENOLOGY. 152, pp. 122 - 128. 04/05/2020.

Type of production: Scientific paper

Position of signature: 4

Format: Journal

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

**Total no. authors:** 4**Impact source:** ISI**Impact index in year of publication:** 2.740**Position of publication:** 21**Source of citations:** SCOPUS**Relevant publication:** Yes**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 146**Citations:** 13

- 30** Cristina Alicia Martinez; Marie Rúber; Heriberto Rodriguez-Martinez; Manuel Alvarez Rodriguez. Pig pregnancies after transfer of allogeneic embryos show a dysregulated endometrial/placental cytokine balance: a novel clue for embryo death?. BIOMOLECULES. 10 - 4, pp. 554. MDPI, 05/04/2020.

Type of production: Scientific paper**Position of signature:** 4**Total no. authors:** 4**Impact source:** SCOPUS**Impact index in year of publication:** 4.879**Position of publication:** 96**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 298**Citations:** 10

- 31** Manuel Alvarez Rodriguez; Cristina Alicia Martinez; Dominc Wright; Heriberto Rodriguez-Martinez. The role of semen and seminal plasma in inducing large-scale genomic changes in the female porcine peri-ovulatory tract. SCIENTIFIC REPORTS. 10 - 1, pp. 5061. 19/03/2020.

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 4**Impact source:** SCOPUS**Impact index in year of publication:** 4.739**Position of publication:** 19**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 126

- 32** Manuel Alvarez Rodriguez; Maria Ntzouni; Dominic Wright; Kabirul Islam Khan; Manel Lopez Bejar; Cristina Alicia Martinez; Heriberto Rodriguez Martinez. Chicken seminal fluid lacks CD9- and CD44-bearing extracellular vesicles. REPRODUCTION IN DOMESTIC ANIMALS. 01/03/2020.

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 7**Impact source:** SCOPUS**Impact index in year of publication:** 2.005**Position of publication:** 48**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 146**Citations:** 7



- 33** Davood Najafi; Ramezan Ali Taheri; Abouzar Najafi; Mohammad Shamsollahi; Manuel Alvarez Rodríguez. Effect of Astaxanthin nanoparticles in protecting the post-thawing quality of rooster sperm challenged by cadmium administration. *POULTRY SCIENCE*. 99 - 3, pp. 1678 - 1686. 01/03/2020.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 3.352

Position of publication: 7

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 63

Citations: 11

- 34** Manuel Alvarez Rodriguez; Cristina Alicia Martinez; Dominc Wright; Heriberto Rodriguez-Martinez. The transcriptome of pig spermatozoa, and its role in fertility. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 21 - 5, pp. 1572. MDPI, 25/02/2020.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Impact source: SCOPUS

Impact index in year of publication: 5.923

Position of publication: 67

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 298

Citations: 20

- 35** Cristina Martinez; Josep Miquel Cambra; Inmaculada Parrilla; Jordi Roca; Graça Ferreira Diaz; JM Pallarés; Xiomara Lucas; Juan Maria Vazquez; Emilio Arsenio Martinez; Maria Antonia Gil; Heriberto Rodriguez Martinez; Cristina Cuello; Manuel Alvarez Rodriguez. Seminal plasma modifies the transcriptional pattern of the endometrium and advances embryo development in pigs. *FRONTIERS IN VETERINARY SCIENCE*. FRONTIERS, 10/12/2019.

Type of production: Scientific paper

Position of signature: 13

Total no. authors: 13

Impact source: SCOPUS

Impact index in year of publication: 2.245

Position of publication: 19

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 142

Citations: 15

- 36** Manuel Alvarez Rodríguez; Stefan Ljunggren; Helen Karlsson; Heriberto Rodriguez-Martinez. Exosomes in specific fractions of the boar ejaculate contain CD44: A marker for epididymosomes?. *THERIOGENOLOGY*. 140, pp. 143 - 152. 01/12/2019.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 8

Impact source: ISI

Format: Journal

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

**Impact index in year of publication:** 2.094**Position of publication:** 26**Source of citations:** SCOPUS**Relevant publication:** Yes**Journal in the top 25%:** Yes**No. of journals in the cat.:** 142**Citations:** 13

- 37** Susanne Liffner; Isabelle Pehrson; Laura Garcia-Calvo; Elisabeth Nedstrand; Stefan Zalavary; Mats Hammar; Heriberto Rodríguez-Martínez; Manuel Alvarez-Rodríguez. Diagnostics of DNA fragmentation in human spermatozoa: are Sperm Chromatin Structure Analysis (SCSA) and Sperm Chromatin Dispersion tests (SCD-HaloSpermG2®) comparable?. ANDROLOGIA. 51 - 8, pp. E13316. 01/05/2019.

Type of production: Scientific paper**Position of signature:** 8**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 1.951**Position of publication:** 6**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - ANDROLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 8**Citations:** 11

- 38** Felipe Martínez Pastor; Mercedes Álvarez; C Guerra; Cesar A Chamorro; Luis Anel López; Paulino de Paz Cabello; Luis Anel Rodríguez; Manuel Alvarez Rodríguez. Extender osmolality, glycerol and egg yolk on the cryopreservation of epididymalspermatozoa for gamete banking of the Cantabric Chamois (*Rupicapra pyrenaica parva*). THERIOGENOLOGY. 125, pp. 109 - 114. 01/02/2019.

Type of production: Scientific paper**Position of signature:** 8**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 2.094**Position of publication:** 26**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 142**Citations:** 5

- 39** Manuel Alvarez Rodríguez; Mohammad Atikuzzaman; Heli Venhoranta; Dominc Wright; Heriberto Rodríguez-Martínez. Expression of immune regulatory genes in the porcine internal genital tract is differentially triggered by spermatozoa and seminal plasma. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 20 - 3, pp. 513. MDPI, 24/01/2019.

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 4.556**Position of publication:** 74**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 297**Citations:** 39



- 40** Manuel Alvarez Rodriguez; Manel Lopez Bejar; Heriberto Rodriguez Martinez. The risk of using monoclonal or polyclonal commercial antibodies: controversial results on porcine sperm CD44 receptor identification. REPRODUCTION IN DOMESTIC ANIMALS. 54 - 4, pp. 733 - 737. 24/01/2019.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: SCOPUS

Impact index in year of publication: 1.641

Position of publication: 40

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: No

No. of journals in the cat.: 142

Citations: 2

- 41** Manuel Alvarez Rodríguez; Mercedes Álvarez; Luis Anel López; C Guerra; Cesar A Chamorro; Luis Anel Rodríguez; Paulino de Paz Cabello; Felipe Martinez Pastor. Effect of length of time post-mortem on quality and freezing capacity of Cantabric chamois (*Rupicapra pyrenaica parva*) epididymal spermatozoa. ANIMAL REPRODUCTION SCIENCE. 198, pp. 184 - 192. 27/09/2018.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.817

Position of publication: 12

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 61

Citations: 3

- 42** Manuel Alvarez Rodríguez; Alejandro Vicente Carrillo; Heriberto Rodriguez Martinez. Hyaluronan improves neither the long-term storage nor the cryosurvival of liquid-stored CD44-bearing ai boar spermatozoa. JOURNAL OF REPRODUCTION AND DEVELOPMENT. 64 - 4, pp. 351 - 360. 27/08/2018.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 3

Impact source: ISI

Impact index in year of publication: 1.5

Position of publication: 20

Source of citations: SCOPUS

Relevant publication: Yes

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 61

Citations: 13

- 43** Najafi D; Taheri RA; Najafi A; Rouhollahi AA; Alvarez-Rodriguez M. Effect of Achillea millefolium-loaded nanophytosome in the post-thawing sperm quality and oxidative status of rooster semen. CRYOBIOLOGY. 82, pp. 37 - 42. 17/04/2018.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 5

Impact source: ISI

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOLOGY

**Impact index in year of publication:** 2.141**Position of publication:** 29**Source of citations:** SCOPUS**Relevant publication:** Yes**Journal in the top 25%:** No**No. of journals in the cat.:** 87**Citations:** 11

- 44** Crespo-Félez I; Castañeda-Sampedro A; Sánchez DI; Fernández-Alegre E; Álvarez-Rodríguez M; Domínguez JC; Morrell JM. Effect of Single Layer Centrifugation Percicoll (70%, 80% and 90%) or supplementation with reduced glutathione, seminal plasma and bovine serum albumin on frozen-thawed boar sperm. ANIMAL REPRODUCTION SCIENCE. 187, pp. 167 - 173. 04/11/2017.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.647**Position of publication:** 14**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 60**Citations:** 8

- 45** Najafi A; Daghigh-Kia H; Dodatan HV; Mehdipour M; Alvarez-Rodriguez M. Ethylene glycol, but not DMSO, could replace glycerol inclusion in soybean lecithin-based extenders in ram sperm cryopreservation. ANIMAL REPRODUCTION SCIENCE. 177, pp. 35 - 41. 08/12/2016.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 1.605**Position of publication:** 13**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 58**Citations:** 19

- 46** MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ALVAREZ GARCIA; LUIS ANEL LOPEZ; ELENA LOPEZ URUEÑA; PATRICIA MANRIQUE; SANTIAGO BORRAGAN; JANE M MORRELL; PAULINO DE PAZ; LUIS ANEL RODRIGUEZ. Effect of colloid (Androcoll™-Bear, Percoll and PureSperm®) selection on the freezability of brown bear (Ursus arctos) sperm. THERIOGENOLOGY. 85 - 6, pp. 1097 - 1105. 21/11/2015.

Type of production: Scientific paper**Position of signature:** 1**Total no. authors:** 9**Impact source:** ISI**Impact index in year of publication:** 1.986**Position of publication:** 15**Source of citations:** SCOPUS**Relevant publication:** Yes**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 136**Citations:** 11



- 47** MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; ELENA LÓPEZ URUEÑA; CARMEN MARTINEZ RODRÍGUEZ; SANTIAGO BORRAGÁN; LUIS ANEL LÓPEZ; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ. Brown bear sperm double freezing: Effect of elapsed time and use of PureSperm® gradient between freeze-thaw cycles. CRYOBIOLOGY. 67 - 3, pp. 339 - 346. 2013.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.643

Position of publication: 32

Source of citations: SCOPUS

Relevant publication: Yes

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

Corresponding author: Yes

Category: Science Edition - BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 85

Citations: 12

- 48** MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; LUIS ANEL LÓPEZ; CARMEN MARTINEZ RODRÍGUEZ; FELIPE MARTINEZ PASTOR; SANTIAGO BORRAGÁN; LUIS ANEL RODRÍGUEZ; PAULINO DE PAZ CABELLO. The antioxidant effects of soybean lecithin- or low-density lipoprotein-based extenders for the cryopreservation of brown bear (*Ursus arctos*) sperm. REPRODUCTION, FERTILITY AND DEVELOPMENT. 25 - 8, pp. 1185 - 1193. 2013.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2.577

Position of publication: 17

Source of citations: SCOPUS

Relevant publication: Yes

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

Category: Science Edition - ZOOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 153

Citations: 16

- 49** LUIS ANEL LÓPEZ; MANUEL ÁLVAREZ RODRÍGUEZ; OLGA GARCÍA ÁLVAREZ; MERCEDES ÁLVAREZ GARCÍA; ALEJANDRO MAROTO MORALES; LUIS ANEL RODRÍGUEZ; PAULINO DE PAZ CABELLO; JULIÁN GARDE; FELIPE MARTINEZ PASTOR. Reduced glutathione and Trolox (vitamin E) as extender supplements in cryopreservation of red deer epididymal spermatozoa. ANIMAL REPRODUCTION SCIENCE. 135 - 1-4, pp. 37 - 46. 2012.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 9

Impact source: ISI

Impact index in year of publication: 1.897

Position of publication: 6

Source of citations: SCOPUS

Relevant publication: Yes

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 54

Citations: 39

- 50** MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; SUSANA GOMES ALVES; SANTIAGO BORRAGÁN; FELIPE MARTINEZ PASTOR; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ. Quality of frozen-thawed semen in brown bear is not affected by timing of glycerol addition. THERIOGENOLOGY. 75 - 8, pp. 1561 - 1565. 2011.

Type of production: Scientific paper

**Position of signature:** 1**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.963**Position of publication:** 16**Source of citations:** SCOPUS**Relevant publication:** Yes**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 145**Citations:** 12

- 51** MANUEL ALVAREZ RODRIGUEZ; HERIBERTO RODRIGUEZ MARTINEZ; CARLOS GUERRERO BOSAGNA. Transgenerational and epigenetic impacts of environmental exposures in male reproduction. REFERENCE MODULE IN BIOMEDICAL SCIENCES. ELSEVIER, 01/08/2018. ISBN 9780128012383

Type of production: Book chapter**Position of signature:** 1**Degree of contribution:** Author or co-author of chapter in book**Corresponding author:** Yes**Total no. authors:** 3**Relevant results:** ISBN 9780128012383, <https://doi.org/10.1016/B978-0-12-801238-3.64386-6>.**Relevant publication:** Yes

- 52** HERIBERTO RODRIGUEZ MARTINEZ; P TIENTHAI; MOHAMMAD ATIKUZZAMAN; ALEJANDRO VICENTE CARRILLO; MARIE RÚBER; MANUEL ÁLVAREZ RODRÍGUEZ. The ubiquitous hyaluronan: Functionally implicated in the oviduct. THERIOGENOLOGY. 86 - 1, pp. 182 - 186. 25/11/2015.

Type of production: Review**Position of signature:** 6**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 1.986**Position of publication:** 15**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 136**Source of citations:** SCOPUS**Citations:** 18**Relevant publication:** Yes

- 53** Vicente Vicente-Carrillo; Manuel Álvarez-Rodríguez; Cristina Castaño; Adolfo Toledano-Díaz; Heriberto Rodríguez-Martínez; Julián Santiago-Moreno. Presence and location of CatSper 1-4, opioid receptors (μ , δ and κ) and CD44 in spermatozoa from aoudad, Iberian ibex, and mouflon. JOURNAL OF PROTEOME RESEARCH. 25/03/2025.

Type of production: Scientific paper**Position of signature:** 2**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Total no. authors:** 6**Impact source:** ISI**Impact index in year of publication:** 1.8**Position of publication:** 53**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 167**Relevant publication:** No

- 54** Adrián Martín-San Juan; Eduardo de Mercado; Helena Nieto-Cristóbal; Andrea Cabero; Miguel Ángel Silvestre; Jane Morrell; MANUEL ÁLVAREZ-RODRÍGUEZ. Protective effect of supplementation with water soluble β -carotene and α -tocopherol in boar sperm cooling-freezing extender, but not in the thawing extender. ANIMAL REPRODUCTION SCIENCE. 274 - 2025, pp. 107792. 08/02/2025.

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

**Position of signature:** 7**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 2.2**Position of publication:** 15**Relevant publication:** No**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 80

- 55** MKI Khan; EH Hazary; G Miah; A Das; M Momin; D Wright; M Alvarez-Rodriguez; Heriberto Rodriguez-Martinez. Effects of STAT5B and BMPR-1B genes on growth and production traits in Red Jungle Fowl, Fayoumi, Hilly chickens, and their crossbreeds. South African Journal of Animal Science. pp. 49. 12/12/2024.

Type of production: Scientific paper**Position of signature:** 6**Total no. authors:** 8**Impact source:** SCOPUS**Impact index in year of publication:** 0.427**Position of publication:** 58**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** No**No. of journals in the cat.:** 62

- 56** Esther Alba; Cristina Castaño; Adolfo Toledano-Díaz; Rosario Velázquez; Belén Martínez-Madrid; Alberto Gómez-Crespo; Manuel Alvarez-Rodríguez; Heriberto Rodríguez-Martínez; Julián Santiago-Moreno. Detection of androgen receptors in spermatozoa of small ruminants: a putative modulation pathway of cryoresistance through AQP3. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 25, pp. 11972. 07/11/2024.

Type of production: Scientific paper**Position of signature:** 7**Total no. authors:** 9**Impact source:** ISI**Impact index in year of publication:** 4.9**Position of publication:** 66**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 313

- 57** Heriberto Rodríguez-Martínez; Cristina A. Martínez; Manuel Alvarez-Rodríguez; Emilio A. Martínez; Jordi Roca. Reproductive physiology of the boar: what defines the potential fertility of an ejaculate?. ANIMAL REPRODUCTION SCIENCE. 269, pp. 107476. 28/09/2024.

Type of production: Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** ISI**Impact index in year of publication:** 2.2**Position of publication:** 15**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 80



- 58** Belén Pequeño; Maria Gema Millán de la Blanca; Cristina Castaño; Adolfo Toledano-Díaz; Milagros C Estes; Esther Alba; Fernando A Arrebola; Rodolfo Ungerfeld; Belén Martínez-Madrid; Manuel Alvarez-Rodríguez; Heriberto Rodríguez-Martínez; Julián Santiago-Moreno. Cooling rate modifies the location of aquaporin 3 in spermatozoa of sheep and goat. THERIOGENOLOGY. 223, pp. 29 - 35. 24/04/2024.

Type of production: Scientific paper

Position of signature: 10

Total no. authors: 12

Impact source: ISI

Impact index in year of publication: 2.4

Position of publication: 24

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 167

- 59** Estibaliz Lacalle; Estela Fernández-Alegre; Beatriz Gómez-Giménez; Manuel Alvarez-Rodríguez; Beatriz Martín-Fernández B; Cristina Soriano-Úbeda; Felipe Martínez-Pastor. Application of Flow Cytometry Using Advanced Chromatin Analyses for Assessing Changes in Sperm Structure and DNA Integrity in a Porcine Model. INTERNATIONAL JOURNAL IN MOLECULAR SCIENCES. 25, pp. 1953. 06/02/2024.

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 4.9

Position of publication: 66

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 313

- 60** MARTINEZ-MADRID B; MARTINEZ-CÁCERES C; PEQUEÑO B; CASTAÑO C; TOLEDANO-DIAZ A; BÓVEDA P; PRIETO P; RODRIGUEZ-MARTINEZ H; SANTIAGO-MORENO J. Immunolocalisation of aquaporins 3, 7, 9, and 10 in the epididymis of three wild ruminant species (Iberian ibex, mouflon, and chamois) and sperm cryoresistance. REPRODUCTION, FERTILITY AND DEVELOPMENT. 35 - 16, pp. 708 - 721. 01/11/2023.

Type of production: Scientific paper

Position of signature: 8

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 1.9

Position of publication: 47

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - ZOOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 177

- 61** Amer Salman; Estela Fernández Alegre; R Francisco Vázquez; JC Domínguez; Manuel Álvarez Rodríguez; Jose Nestor Caamaño; Felipe Martínez Pastor; R Gomez Martín; A Fernández Fernández; H Areán Dablanca. Pre-freezing selection of Holstein bull semen with the BoviPure colloid as DLC or SLC improves the post-thawing quality. ANIMAL REPRODUCTION SCIENCE. pp. 107344. 12/10/2023.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 2.2

Format: Journal

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: No

**Position of publication:** 20**No. of journals in the cat.:** 62**Relevant publication:** No

- 62** Alejandro Vicente-Carrillo; Manuel Alvarez-Rodriguez; Heriberto Rodríguez-Martinez. The Cation/calcium Channel of Sperm (CatSper): a common role despite inter-species variation?. INTERNATIONAL JOURNAL IN MOLECULAR SCIENCES. 24 - 18, pp. 13750 - 78. 05/09/2023.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 2**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 3**Corresponding author:** No**Impact source:** ISI**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Impact index in year of publication:** 5.6**Journal in the top 25%:** Yes**Position of publication:** 66**No. of journals in the cat.:** 285**Relevant publication:** No

- 63** Belén Pequeño; Cristina Castaño; Manuel Alvarez Rodriguez; Pilar Bóveda; MG Millán de la Blanca; Adolfo Toledano Díaz; D Galarza; Heriberto Rodríguez Martinez; Julián Santiago-Moreno. Variation of existence and location of Aquaporin3 in relation to cryoresistance of ram spermatozoa.FRONTIERS IN VETERINARY SCIENCE. 10, pp. 1167832. FRONTIERS, 28/03/2023.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 9**Corresponding author:** No**Impact source:** SCOPUS**Category:** Science Edition - VETERINARY SCIENCES**Impact index in year of publication:** 3.412**Journal in the top 25%:** Yes**Position of publication:** 9**No. of journals in the cat.:** 146**Source of citations:** SCOPUS**Citations:** 0**Relevant publication:** No

- 64** PEQUEÑO B; MARTINEZ-MADRID B; CASTAÑO C; TOLEDANO-DIAZ A; BÓVEDA P; ESTESO MC; GÓMEZ-GUILLAMÓN F; PRIETO P; MARCOS-BELTRÁN JL; ALVAREZ-RODRÍGUEZ M; RODRIGUEZ-MARTINEZ H; SANTIAGO-MORENO J. Location of Aquaporins 3,7 and 10 in frozen-thawed ejaculated and cauda epididymal spermatozoa from the Iberian ibex, mouflon, and chamois. THERIOGENOLOGY WILD. 2, pp. 100025. 01/03/2023.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 10**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 12**Corresponding author:** No**Relevant publication:** No

- 65** Ohaneje UL; Osuagwuh UI; Alvarez-Rodríguez M; Yáñez-Ortiz I; Tabarez A; Palomo MJ. The Re-Addition of Seminal Plasma after Thawing Does Not Improve Buck Sperm Quality Parameters.ANIMALS. 11 - 12, pp. 3452. 01/12/2021.

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 6**Corresponding author:** No**Impact source:** ISI**Category:** Science Edition - VETERINARY SCIENCES**Impact index in year of publication:** 3.231**Journal in the top 25%:** Yes**Position of publication:** 16**No. of journals in the cat.:** 144



Relevant publication: No

- 66** Heriberto Rodriguez Martinez; Jodi Roca; Manuel Alvarez Rodríguez; Cristina Alicia Martinez. How does the boar epididymis manage the emission of fertile spermatozoa?. ANIMAL REPRODUCTION SCIENCE. pp. 106829. 24/08/2021.

Type of production: Scientific paper

Position of signature: 3

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 2.220

Position of publication: 44

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 144

Citations: 2

- 67** Fabio Pértile; Manuel Alvarez Rodríguez; AN da Silva; Isabel Barranco; Jordi Roca; Carlos Guerrero Bosagna; Heriberto Rodriguez Martinez. Sperm methylome profiling can discern fertility levels in the porcine biomedical model. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 21, pp. 2679. MDPI, 06/04/2021.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 7

Impact source: ISI

Impact index in year of publication: 6.208

Position of publication: 69

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 296

- 68** J Noor; MKI Khan; MM Momin; A Das; D Wright; M Alvarez Rodriguez; Heriberto Rodriguez-Martinez. Effect of PMEL17 plumage color gene diversity on production performance of indigenous chicken variety of Bangladesh. INDIAN JOURNAL OF ANIMAL RESEARCH. pp. 49. 01/04/2021.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 7

Impact source: SCOPUS

Impact index in year of publication: 0.427

Position of publication: 58

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: No

No. of journals in the cat.: 62

- 69** Cristina Alicia Martinez Serrano; Manuel Alvarez Rodriguez; Maite Casado Bedmar; Heriberto Rodriguez Martinez. In vitro maturation of cumulus-oocyte complexes and in vitro sperm capacitation significantly increase the expression and enhance location of the CXCL12 and CXCR4 anchoring attractant complex in pigs. ANIMALS. 11 - 1, pp. 153. MDPI, 11/01/2021.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Format: Journal

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

Corresponding author: No



Impact source: SCOPUS
Impact index in year of publication: 3.231
Position of publication: 16
Source of citations: SCOPUS
Relevant publication: No

Category: Science Edition - VETERINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 144
Citations: 1

- 70** Patricia Peris-Frau; Manuel Alvarez Rodriguez; A Martín-Maestro; M Iniesta-Cuerda; I Sánchez-Ajofrín; DA Medina Chávez; Juosé Julián Garde; Margarita Villar; Heriberto Rodriguez-Martinez; AJ Soler. Unraveling how in vitro capacitation alters ram sperm chromatin before and after cryopreservation. ANDROLOGY. pp. 49. 01/01/2021.

Type of production: Scientific paper
Position of signature: 2

Total no. authors: 10
Impact source: SCOPUS

Impact index in year of publication: 4.456
Position of publication: 2

Source of citations: SCOPUS
Relevant publication: No

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE
Journal in the top 25%: Yes
No. of journals in the cat.: 8
Citations: 4

- 71** Josep Miquel Cambra; A Jauregi; Manuel Alvarez Rodriguez; Inmaculada Parrilla; Maria Antonia Gil; Emilio Arsenio Martinez; Cristina Cuello; Cristina Martinez. Allogeneic embryos dysregulate leukemia inhibitory factor (LIF) cytokine and its receptor in the porcine endometrium. FRONTIERS IN VETERINARY SCIENCE. FRONTIERS, 23/10/2020.

Type of production: Scientific paper
Position of signature: 3

Total no. authors: 9
Impact source: SCOPUS
Impact index in year of publication: 3.412
Position of publication: 9

Source of citations: SCOPUS
Relevant publication: No

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - VETERINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 146
Citations: 1

- 72** Tania García Martínez; M Vendrell Flotats; Iris Martínez Rodero; EA Ordóñez León; Manuel Alvarez Rodriguez; Manel López Béjar; Marc Yeste; Teresa Mogas. Glutathione ethyl ester protects in vitro-maturing bovine oocytes against oxidative stress induced by subsequent vitrification/warming. INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES. 21, pp. 7547. MDPI, 13/10/2020.

Type of production: Scientific paper
Position of signature: 5

Total no. authors: 8
Impact source: ISI
Impact index in year of publication: 5.923
Position of publication: 67

Source of citations: SCOPUS
Relevant publication: No

Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY
Journal in the top 25%: Yes
No. of journals in the cat.: 298
Citations: 19

- 73** Isabel Barranco; Lorena Padilla; Cristina Alicia Martinez; Manuel Alvarez Rodriguez; Immaculada Parrilla; Xiomara Lucas; Graça Ferreira-Dias; Marc Yeste; Heriberto Rodriguez-Martinez; Jordi Roca. Seminal Plasma Modulates miRNA Expression by Sow Genital Tract Lining Explants. *BIOMOLECULES*. 10 - 6, pp. 933. MDPI, 19/06/2020.

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 10

Impact source: SCOPUS

Impact index in year of publication: 4.879

Position of publication: 96

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 298

Citations: 7

- 74** Cristina Martinez; Josep Miquel Cambra; Maria Antonia Gil; Inmaculada Parrilla; Manuel Alvarez Rodriguez; Heriberto Rodriguez Martinez; Cristina Cuello; Emilio Arsenio Martinez. Seminal plasma induces overexpression of genes associated with embryo development and implantation in Day-6 porcine blastocysts. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 21 - 10, pp. 3662. MDPI, 22/05/2020.

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 5.923

Position of publication: 67

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 298

Citations: 10

- 75** Gardela J; Carbajal A; Tallo-Parra O; Olvera-Maneu S; Manuel Alvarez Rodriguez; Cunilleras EJ; López-Béjar M. Temporary relocation and resting period: multiple factors influencing hair cortisol concentration and welfare in horses. *ANIMALS*. 10 - 4, pp. E642. MDPI, 08/04/2020.

Type of production: Scientific paper

Position of signature: 4

Total no. authors: 6

Impact source: SCOPUS

Impact index in year of publication: 2.752

Position of publication: 19

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 146

Citations: 3

- 76** Cristina Alicia Martinez; Manuel Alvarez Rodriguez; Dominc Wright; Heriberto Rodriguez-Martinez. Does the pre-ovulatory pig oviduct rule sperm capacitation in vivo mediating transcriptomics of Catsper channels?. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES*. 21 - 5, pp. 1840. MDPI, 07/03/2020.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 4

Format: Journal

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

Corresponding author: No

**Impact source:** SCOPUS**Impact index in year of publication:** 5.923**Position of publication:** 67**Source of citations:** SCOPUS**Relevant publication:** No**Category:** Science Edition - BIOCHEMISTRY & MOLECULAR BIOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 298**Citations:** 8

- 77** Miguel-Jimenez S; Rivera del Alamo MM; Manuel Alvarez Rodríguez; Hidalgo Ordóñez C; Muiño R; Pena A; Rodríguez-Gil JE; Mogas MT. In vitro assessment of egg yolk-, soya bean lecithin- and liposome-based extenders for cryopreservation of dairy bull semen. ANIMAL REPRODUCTION SCIENCE. 215, pp. 106315. 01/03/2020.

Type of production: Scientific paper**Position of signature:** 3**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 2.145**Position of publication:** 43**Source of citations:** SCOPUS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 146**Citations:** 10

- 78** Patricia Peris-Frau; Manuel Alvarez Rodriguez; A Martín-Maestro; M Iniesta-Cuerda; I Sánchez-Ajofrín; Heriberto Rodriguez-Martinez; Juosé Julián Garde; AJ Soler. Comparative evaluation of DNA integrity using Sperm Chromatin Structure Assay and Sperm-Ovis-Halomax during in vitro capacitation of cryopreserved ram spermatozoa. REPRODUCTION IN DOMESTIC ANIMALS. 54 - 4, pp. 46 - 49. 01/10/2019.

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 8**Impact source:** SCOPUS**Impact index in year of publication:** 1.641**Position of publication:** 40**Source of citations:** SCOPUS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 142**Citations:** 4

- 79** Jaume Gardela; Mateo Ruiz-Conca; Manuel Alvarez Rodriguez; Teresa Nogas; Manel Lopez Bejar. Induction of CIRBP expression by cold shock on bovine cumulus-oocyte complexes. REPRODUCTION IN DOMESTIC ANIMALS. 54 - 4, pp. 82 - 85. 01/10/2019.

Type of production: Scientific paper**Position of signature:** 3**Total no. authors:** 5**Impact source:** SCOPUS**Impact index in year of publication:** 1.641**Position of publication:** 40**Source of citations:** SCOPUS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 142**Citations:** 2



- 80** T Iso-Touru; C Wurmser; H Venhoranta; M Hiltbold; T Savolainen; A Sironen; K Fischer; K Flisikowski; R Fries; Alejandro Vicente-Carrillo; Manuel Alvarez-Rodriguez; S Nagy; M Mutikainen; J Peippo; J Taponen; G Sahana; B Guldbrandtsen; H Simonen; Heriberto Rodríguez-Martínez; M Andersson; H Pausch. A splice donor variant in CCDC189 is associated with asthenospermia in Nordic Red dairy cattle. BMC GENOMICS. 20 - 1, pp. 286. 11/04/2019.

Type of production: Scientific paper

Position of signature: 11

Total no. authors: 21

Impact source: ISI

Impact index in year of publication: 3.594

Position of publication: 46

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 156

Citations: 11

- 81** Barranco I; Perez-Patiño C; Tvarijonaviciute A; Parrilla I; Vicente-Carrillo A; Alvarez-Rodriguez M; Ceron JJ; Martinez EA; Rodriguez-Martinez H; Roca J. Active paraoxonase 1 is synthesised throughout the internal boar genital organs. REPRODUCTION. 154 - 3, pp. 137 - 143. 13/08/2017.

Type of production: Scientific paper

Position of signature: 6

Total no. authors: 10

Impact source: ISI

Impact index in year of publication: 3.086

Position of publication: 7

Source of citations: SCOPUS

Relevant publication: No

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

Corresponding author: No

Category: Science Edition - REPRODUCTIVE BIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 29

Citations: 8

- 82** Atikuzzman M; Manuel Alvarez-Rodriguez; Alejandro Vicente-Carrillo; Martin Johnsson; Dominic Wright; Heriberto Rodríguez-Martínez. Conserved gene expression in sperm reservoirs between birds and mammals in response to mating. BMC GENOMICS. 18 - 1, pp. 563. 25/07/2017.

Type of production: Scientific paper

Position of signature: 2

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 3.730

Position of publication: 40

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Corresponding author: No

Category: Science Edition - BIOTECHNOLOGY & APPLIED MICROBIOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 161

Citations: 26

- 83** Alejandro Vicente-Carrillo; Manuel Alvarez-Rodriguez; Heriberto Rodríguez-Martínez. The CatSper channel modulates boar sperm motility during capacitation. REPRODUCTION IN DOMESTIC ANIMALS. 17 - 1, pp. 69 - 78. 08/01/2017.

Type of production: Scientific paper

Position of signature: 2

Format: Journal

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

**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 1.4**Position of publication:** 39**Source of citations:** SCOPUS**Relevant publication:** No**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 136**Citations:** 27

- 84** Manuel Alvarez RODRIGUEZ; Alejandro Vicente Carrillo; Heriberto Rodriguez Martinez. Exogenous individual lecithin-phospholipids (phosphatidylcholine and phosphatidylglycerol) cannot prevent the oxidative stress imposed by cryopreservation of boar sperm. VETERINARY MEDICINE SURGERY. 1, pp. 1 - 11. 2017.

Type of production: Scientific paper**Position of signature:** 1**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Total no. authors:** 3

- 85** M Atikuzzaman; L Sanz; D Pla; M Alvarez Rodriguez; M Rubér; D Wright; JJ Calvete; H Rodriguez Martinez. Selection for higher fertility reflects in the seminal fluid proteome of modern domestic chicken. COMP BIOCHEM PHYSIOL PART D GENOMICS PROTEOMICS. 11/2016. Available on-line at: <<http://europepmc.org/abstract/med/27852008>>.

Type of production: Scientific paper**Position of signature:** 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 - GENETICS & HEREDITY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 171**Citations:** 17**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 2.913**Position of publication:** 75**Source of citations:** SCOPUS**Relevant publication:** No

- 86** Vicente-Carrillo A; Ekwall H; Álvarez-Rodríguez M; Rodríguez-Martínez H. Membrane stress during thawing elicits redistribution of aquaporin 7 but not of aquaporin 9 in boar spermatozoa. REPRODUCTION IN DOMESTIC ANIMALS. 51 - 5, pp. 665 - 679. 10/2016. Available on-line at: <<http://europepmc.org/abstract/med/27405395>>.

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:** 4**Impact source:** ISI**Impact index in year of publication:** 1.400**Position of publication:** 39**Source of citations:** SCOPUS**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** No**No. of journals in the cat.:** 136**Citations:** 16

- 87** Fernández-Gago R; Álvarez-Rodríguez M; Alonso ME; González JR; Alegre B; Domínguez JC; Martínez-Pastor F. Thawing boar semen in the presence of seminal plasma improves motility, modifies subpopulation patterns and reduces chromatin alterations. REPRODUCTION, FERTILITY AND DEVELOPMENT. 29 - 8, pp. 1576 - 1584. 08/2016. Available on-line at: <<http://europepmc.org/abstract/med/27543989>>.

Type of production: Scientific paper**Position of signature:** 2**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Total no. authors:** 7

**Impact source:** ISI**Impact index in year of publication:** 2.105**Position of publication:** 29**Source of citations:** SCOPUS**Category:** Science Edition - ZOOLOGY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 167**Citations:** 16

- 88** Vicente-Carrillo A; Álvarez-Rodríguez M; Rodríguez-Martínez H. The mu and delta opioid receptors modulate boar sperm motility. MOLECULAR REPRODUCTION AND DEVELOPMENT. 83 - 8, pp. 724 - 734. 08/2016. Available on-line at: <<http://europepmc.org/abstract/med/27391529>>.

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 3**Impact source:** ISI**Impact index in year of publication:** 2.316**Position of publication:** 21**Source of citations:** SCOPUS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - DEVELOPMENTAL BIOLOGY**Journal in the top 25%:** No**No. of journals in the cat.:** 41**Citations:** 10

- 89** MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; ELENA LÓPEZ URUEÑA; LUIS ANEL RODRÍGUEZ; PAULINO DE PAZ CABELLO; FELIPE MARTINEZ PASTOR. Post-thawing quality and incubation resilience of cryopreserved ram spermatozoa are affected by antioxidant supplementation and extender choice. THERIOGENOLOGY. 83, pp. 520 - 528. 2014.

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.798**Position of publication:** 20**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 133**Citations:** 44

- 90** MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; JULIO TAMAYO CANUL; ELENA LÓPEZ URUEÑA; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ; FELIPE MARTINEZ PASTOR; MERCEDES ÁLVAREZ GARCÍA. Refrigerated storage of ram sperm in presence of Trolox and GSH antioxidants: effect of temperature, extender and storage time. ANIMAL REPRODUCTION SCIENCE. 151 - 3-4, pp. 137 - 147. 2014.

Type of production: Scientific paper**Position of signature:** 2**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 1.511**Position of publication:** 15**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 57**Citations:** 37



- 91** MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; SANTIAGO BORRAGÁN; FELIPE MARTÍNEZ PASTOR; WILLIAN VINCENT HOLT; ALIREZA FAZELI; LUIS ANEL RODRÍGUEZ; PAULINO DE PAZ CABELLO. The addition of heat shock protein HSPA8 to cryoprotective media improves the survival of brown bear (*Ursus arctos*) spermatozoa during chilling and after cryopreservation. THERIOGENOLOGY. 79 - 3, pp. 541 - 550. 2013.

Type of production: Scientific paper

Position of signature: 1

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

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.845

Position of publication: 17

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 132

Source of citations: SCOPUS

Citations: 16

- 92** PAULINO DE PAZ CABELLO; MANUEL ÁLVAREZ RODRÍGUEZ; MARIA NICOLÁS; MERCEDES ÁLVAREZ GARCÍA; CÉSAR CHAMORRO; SANTIAGO BORRAGÁN; FELIPE MARTINEZ PASTOR; LUIS ANEL RODRÍGUEZ. Optimization of glycerol concentration and freezing rate in the cryopreservation of ejaculate from brown bear (*Ursus arctos*). REPRODUCTION IN DOMESTIC ANIMALS. 47 - 1, pp. 105 - 112. 2012.

Type of production: Scientific paper

Position of signature: 2

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

Total no. authors: 8

Impact source: ISI

Impact index in year of publication: 1.392

Position of publication: 13

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

Journal in the top 25%: Yes

No. of journals in the cat.: 54

Source of citations: SCOPUS

Citations: 19

- 93** MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; ENRIQUE DEL OLMO; MARIA ROCÍO FERNÁNDEZ SANTOS; JULIÁN GARDE; FELIPE MARTINEZ PASTOR. Quality, oxidative markers and DNA damage (DNA) fragmentation of red deer thawed spermatozoa after incubation at 37 °C in presence of several antioxidants. THERIOGENOLOGY. 78 - 5, pp. 1005 - 1019. 2012.

Type of production: Scientific paper

Position of signature: 2

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

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 2.082

Position of publication: 12

Corresponding author: No

Category: Science Edition - VETERINARY SCIENCES

Journal in the top 25%: Yes

No. of journals in the cat.: 143

Source of citations: SCOPUS

Citations: 37

- 94** MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; LUIS ANEL RODRÍGUEZ; PAULINO DE PAZ CABELLO; JULIÁN GARDE; FELIPE MARTINEZ PASTOR. Effect of several antioxidants on thawed ram spermatozoa submitted to 37°C up to four hours. REPRODUCTION IN DOMESTIC ANIMALS. 47 - 6, pp. 907 - 914. 2012.

Type of production: Scientific paper

Position of signature: 2

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

Total no. authors: 7

Impact source: ISI

Corresponding author: No

Category: Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE

**Impact index in year of publication:** 1.392**Position of publication:** 13**Source of citations:** SCOPUS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 54**Citations:** 40

- 95** JULIO TAMAYO CANUL; MERCEDES ÁLVAREZ GARCÍA; MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ; FELIPE MARTINEZ PASTOR. Effect of storage method and extender osmolality in the quality of cryopreserved epididymal ram spermatozoa. ANIMAL REPRODUCTION SCIENCE. 129 - 3-4, pp. 188 - 199. 2011.

Type of production: Scientific paper**Position of signature:** 4**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.750**Position of publication:** 7**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - AGRICULTURE, DAIRY & ANIMAL SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 55**Citations:** 18

- 96** MARIA NICOLÁS; MERCEDES ÁLVAREZ GARCÍA; SANTIAGO BORRAGÁN; FELIPE MARTINEZ PASTOR; CÉSAR CHAMORRO; MANUEL ÁLVAREZ RODRÍGUEZ; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ. Evaluation of the qualitative and quantitative effectiveness of three media of centrifugation (Maxifreeze, Cushion Fluid Equine, and PureSperm 100) in preparation of fresh or frozen-thawed brown bear spermatozoa. THERIOGENOLOGY. 77 - 6, pp. 1119 - 1128. 2011.

Type of production: Scientific paper**Position of signature:** 6**Total no. authors:** 8**Impact source:** ISI**Impact index in year of publication:** 1.963**Position of publication:** 16**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 145**Citations:** 16

- 97** PAULINO DE PAZ CABELLO; MARIA MATA CAMPUZANO; EJ TIZADO; MERCEDES ÁLVAREZ GARCÍA; MANUEL ÁLVAREZ RODRÍGUEZ; PAZ HERRAEZ; LUIS ANEL RODRÍGUEZ. The relationship between ram sperm head morphometry and fertility depends on the procedures of acquisition and analysis used. THERIOGENOLOGY. 76 - 7, pp. 1313 - 1325. 2011.

Type of production: Scientific paper**Position of signature:** 5**Total no. authors:** 7**Impact source:** ISI**Impact index in year of publication:** 1.963**Position of publication:** 16**Source of citations:** SCOPUS**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - VETERINARY SCIENCES**Journal in the top 25%:** Yes**No. of journals in the cat.:** 145**Citations:** 34

- 98** Alejandro Vicente Carrillo; Manuel Alvarez Rodriguez; Heriberto Rodríguez Martínez. The cation channel of sperm modulates boar sperm motility during capacitation. Atlas of Science. In: Vicente-Carrillo A, Álvarez-Rodríguez M, Rodríguez-Martínez H. The CatSper channel modulates boar sperm motility during capacitation. Reprod Domest Anim. 2016 Oct;51(5):665-79. doi: 10.1111/rda.12728. PubMed PMID: 27405395.04/12/2017.



Type of production: Popular science article
Corresponding author: No

Format: Scientific and technical document or report

- 99** FELIPE MARTINEZ PASTOR; MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ÁLVAREZ GARCÍA; PAULINO DE PAZ CABELLO; LUIS ANEL RODRÍGUEZ. Probes and techniques for sperm evaluation by flow cytometry. REPRODUCTION IN DOMESTIC ANIMALS. 45 - 2, pp. 67 - 78. 2010.

Type of production: Review

Format: Journal

Position of signature: 3

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

Total no. authors: 6

Corresponding author: No

Impact source: ISI

Category: Science Edition - VETERINARY SCIENCES

Impact index in year of publication: 1.606

Journal in the top 25%: Yes

Position of publication: 26

No. of journals in the cat.: 145

Source of citations: SCOPUS

Citations: 117

Works submitted to national or international conferences

- 1** **Title of the work:** Relative abundance of mRNA for porcine protamines 1 and 2 following bicarbonate-triggered in vitro sperm capacitation.
Name of the conference: 15 European Symposium on Animal Reproduction (including ESDAR)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Nantes, France
Date of event: 21/09/2023
End date: 23/09/2023
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
 VICENTE-CARRILLO A; ALVAREZ-RODRIGUEZ M; CASTAÑO C; TOLEDANO-DÍAZ A; RODRÍGUEZ-MARTINEZ H; SANTIAGO-MORENO J. "Presence and localization of CatSper 1-4- in wild species spermatozoa (aoudad, Iberian ibex, European mouflon).".
- 2** **Title of the work:** Bicarbonate and caffeine trigger capacitation-like changes (acrosome damage) in boar sperm after 2 h in vitro incubation.
Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite
Type of participation: Participatory - poster
Corresponding author: Yes
City of event: Heraklion, Greece
Date of event: 09/2023
End date: 09/2023
Organising entity: Association of Embryo Technology in Europe (AETE)
 DUDKIEWICZ S; PERIS-FRAU P; NIETO-CRISTÓBAL H; SANTIAGO-MORENO J; DE MERCADO E; ALVAREZ-RODRÍGUEZ M. "P27. Poster presentation. Bicarbonate and caffeine trigger capacitation-like changes (acrosome damage) in boar sperm after 2 h in vitro incubation.". En: ANIMAL REPRODUCTION. pp. 73. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp73,
- 3** **Title of the work:** Evaluation of the progesterone inhibitor RU486 in boar sperm cryopreservation.
Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite
Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Heraklion, Greece

Date of event: 09/2023

End date: 09/2023

Organising entity: Association of Embryo Technology in Europe (AETE)

GALA N; DE MERCADO E; NIETO-CRISTÓBAL H; ALVAREZ-RODRÍGUEZ M. "P28. Evaluation of the progesterone inhibitor RU486 in boar sperm cryopreservation.". En: ANIMAL REPRODUCTION. pp. 73. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp73,

- 4 Title of the work:** Identification and quantification of tyrosine phosphorylated proteins induced by FERT medium during rabbit sperm capacitation at different times.

Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Heraklion, Greece

Date of event: 09/2023

End date: 09/2023

Organising entity: Association of Embryo Technology in Europe (AETE)

GIMENO-MARTOS S; ARIAS-ÁLVAREZ M; QUIROGA AC; LORENZO PL; ALVAREZ-RODRÍGUEZ M; REBOLLAR PG; GARCÍA RM. "P42. . Identification and quantification of tyrosine phosphorylated proteins induced by FERT medium during rabbit sperm capacitation at different times.". En: ANIMAL REPRODUCTION. pp. 73. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp73,

- 5 Title of the work:** Inclusion of novel additives on extenders to improve rabbit sperm cryopreservation.

Name of the conference: CRYO2023 (VIRTUAL)

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: MINNEAPOLIS, United States of America

Date of event: 25/07/2023

End date: 27/07/2023

Organising entity: Society for Cryobiology

GARDELA J; RUIZ-CONCA M; PALOMARES A; OLVERA-MANEU S; GARCÍA-CALVO L; LÓPEZ-BÉJAR M; MARTÍNEZ-PASTOR F; MANUEL ALVAREZ RODRIGUEZ. "Inclusion of novel additives on extenders to improve rabbit sperm cryopreservation."

- 6 Title of the work:** Season affects sperm chromatin structure in modern stud centers, differently for DNA damage and compaction.

Name of the conference: 11th International Conference on Pig Reproduction

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Ghent, Belgium

Date of event: 04/06/2023

End date: 07/06/2023

Organising entity: 11th International Conference on Pig Reproduction

Fernández-Alegre E; Soriano-Úbeda C; Lacalle E; de Prado M; Álvarez-Rodríguez M; Martín-Fernández B; Martínez-Pastor F. "Oral communication. Season affects sperm chromatin structure in modern stud centers, differently for DNA damage and compaction.". 137, pp. 137 - 137. Theriogenology,



- 7** **Title of the work:** Characterization of SNOR and snRNAs in boar semen with fertility differences.
Name of the conference: 16th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: León, Castile and León, Spain
Date of event: 2022
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
ALVAREZ-RODRIGUEZ M; MARTINEZ CA; ROCA J; RODRIGUEZ-MARTINEZ H. "Characterization of SNOR and snRNAs in boar semen with fertility differences: Reproduction in Domestic Animals".
REPRODUCTION IN DOMESTIC ANIMALS,
- 8** **Title of the work:** Individual male factor on post-thawed buck sperm quality after in vitro capacitation incubation with or without seminal plasma.
Name of the conference: 25th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Tesaloniki, Greece
Date of event: 2022
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
OHANEJE UL; OSUAGWUH UI; ALVAREZ-RODRIGUEZ M; YANEZ-ORTIZ I; TABAREZ A; PALOMO MJ. "Individual male factor on post-thawed buck sperm quality after in vitro capacitation incubation with or without seminal plasma: Reproduction in Domestic Animals."
- 9** **Title of the work:** Location of AQP3 in spermatozoa of small ruminants is affected by the cryopreservation method: conventional or ultra-rapid cooling rate.
Name of the conference: 25th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Tesaloniki, Greece
Date of event: 2022
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
PEQUEÑO B; MILLÁN DE LA BLANCA MG; CASTAÑO C; TOLEDANO-DIAZ A; ESTESO MC; ARREBOLA FA; MARTINEZ-MADRID B; ALVAREZ-RODRIGUEZ M; RODRIGUEZ-MARTINEZ H; SANTIAGO J. "Location of AQP3 in spermatozoa of small ruminants is affected by the cryopreservation method: conventional or ultra-rapid cooling rate: Reproduction in Domestic Animals."
- 10** **Title of the work:** Mating induced up-regulation of the Toll-Like Receptor 2 (TLR2) in the oviduct ampulla and infundibulum in pig.
Name of the conference: 19th International Congress on Animal Reproduction (ICAR)
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Bolonia, Italy
Date of event: 2022
Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION
Type of entity: Associations and Groups
RUIZ-CONCA M; GARDELA J; MARTINEZ CA; LOPEZ-BEJAR M; RODRIGUEZ-MARTINEZ H; ALVAREZ-RODRIGUEZ M. "Mating induced up-regulation of the Toll-Like Receptor 2 (TLR2) in the oviduct ampulla and infundibulum in pig: Theriogenology".



- 11 Title of the work:** Mating induces down-regulation of miR-671, a key repressor of binding function by fibronectin type 1 (FN1) in the sow internal genital tract.
Name of the conference: 19th International Congress on Animal Reproduction (ICAR)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Bolonia, Italy
Date of event: 2022
Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION **Type of entity:** Associations and Groups
ALVAREZ-RODRIGUEZ M; MARTINEZ CA; GARDELA J; RUIZ-CONCA M; LOPEZ-BEJAR M; RODRIGUEZ-MARTINEZ H. "Mating induces down-regulation of miR-671, a key repressor of binding function by fibronectin type 1 (FN1) in the sow internal genital tract: Theriogenology".
- 12 Title of the work:** Pig pregnancies after transfer of allogenic embryos show a dysregulated endometrial placental cytokine balance: a novel clue for embryo death?
Name of the conference: 19th International Congress on Animal Reproduction (ICAR)
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Bolonia, Italy
Date of event: 2022
Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION **Type of entity:** Associations and Groups
MARTINEZ CA; RUBER M; ALVAREZ-RODRIGUEZ M; RODRIGUEZ-MARTINEZ H. "Pig pregnancies after transfer of allogenic embryos show a dysregulated endometrial placental cytokine balance: a novel clue for embryo death?: Theriogenology".
- 13 Title of the work:** Relationship of location of aquaporin 3 (AQP3) with ram sperm cryoresistance.
Name of the conference: 16th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: León, Castile and León, Spain
Date of event: 2022
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: León, Castile and León, Spain
PEQUEÑO B; CASTAÑO C; ALVAREZ-RODRIGUEZ M; BOVEDA P; MILLAN DE LA BLANCA MG; TOLEDANO-DIAZ A; ESTESO MC; MARTINEZ-MADRID B; RODRIGUEZ-MARTINEZ H; SANTIAGO J. "Relationship of location of aquaporin 3 (AQP3) with ram sperm cryoresistance: Reproduction in Domestic Animals". REPRODUCTION IN DOMESTIC ANIMALS,
- 14 Title of the work:** Relative abundance of mRNA for porcine protamines 1 and 2 following bicarbonate-triggered in vitro sperm capacitation.
Name of the conference: 25th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Tesaloniki, Greece
Date of event: 2022
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
LACALLE E; FERNANDEZ-ALEGRE E; SORIANO-ÚBEDA C; MARTINEZ-PASTOR H; RODRIGUEZ-MARTINEZ H; ALVAREZ-RODRIGUEZ M. "Relative abundance of mRNA for porcine protamines 1 and 2 following bicarbonate-triggered in vitro sperm capacitation: Reproduction in Domestic Animals.".



- 15** **Title of the work:** Seminal plasma induces up-regulation of the uncharacterized heat-sock factor HSF5 in the swine female genital tract.
Name of the conference: 19th International Congress on Animal Reproduction (ICAR)
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Bolonia, Italy
Date of event: 2022
Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION **Type of entity:** Associations and Groups
GARDELA J; RUIZ-CONCA M; MARTINEZ CA; LOPEZ-BEJAR M; RODRIGUEZ-MARTINEZ H; ALVAREZ-RODRIGUEZ M. "Seminal plasma induces up-regulation of the uncharacterized heat-sock factor HSF5 in the swine female genital tract: Theriogenology".
- 16** **Title of the work:** Sperm head dimensions and expression of aquaporin 3 in dromedary camel (Camelus dromedarius).
Name of the conference: 16th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: León, Castile and León, Spain
Date of event: 2022
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
O'BRIEN E; MALO C; CASTAÑO C; GARCIA-CASADO P; TOLEDANO-DIAZ A; MARTINEZ-MADRID B; ALVAREZ-RODRIGUEZ M; SANTIAGO J. "Sperm head dimensions and expression of aquaporin 3 in dromedary camel (Camelus dromedarius). : Reproduction in Domestic Animals". REPRODUCTION IN DOMESTIC ANIMALS,
- 17** **Title of the work:** Biomarcadores espermáticos: ¿relación con fertilidad?
Name of the conference: Virtual Meeting: 44th Congreso Argentino de Producción Animal (AAPA).
Type of participation: Participatory - Plenary session
Corresponding author: Yes
Date of event: 15/11/2021
End date: 19/11/2021
Organising entity: Asociación Argentina de Producción Animal (AAPA)
Alvarez-Rodríguez M. "Biomarcadores espermáticos: ¿relación con fertilidad?". En: Biomarcadores espermáticos: ¿relación con fertilidad?.
- 18** **Title of the work:** Gene expression in the female internal genital tract during the pre-/peri-ovulatory stage.
Name of the conference: Virtual Meeting: Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: Participatory - oral communication
Corresponding author: Yes
Date of event: 10/2021
End date: 10/2021
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Alvarez-Rodríguez M; Martínez CA; Gardela J; Ruiz-Conca M; Wright D; Lopez-Bejar M; Rodríguez-Martínez H. "Gene expression in the female internal genital tract during the pre-/peri-ovulatory stage.". En: Alvarez-Rodríguez M, Martínez CA, Gardela J, Ruiz-Conca M, Wright D, Lopez-Bejar M, Rodríguez-Martínez H. Gene expression in the female internal genital tract during the pre-/peri-ovulatory stage. ESDAR 2021. Workshop: New insights in pig reproduction through the application of -omics technologies. Moderator: Dr. Parrilla..

- 19 Title of the work:** Location of aquaporin 3 (AQP3) in frozen-thawed ejaculated and epididymal sperm from wild ruminants: Iberian ibex, mouflon and chamois.
Name of the conference: Virtual Meeting: Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster
Corresponding author: No
Date of event: 10/2021
End date: 10/2021
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Pequeño B; Castaño C; Alvarez-Rodríguez M; Perez-Cerezales S; Toledano-Díaz A; Bóveda P; Lopez-Sebastián A; Rodríguez-Martínez H; Santiago-Moreno J. "Location of aquaporin 3 (AQP3) in frozen-thawed ejaculated and epididymal sperm from wild ruminants: Iberian ibex, mouflon and chamois.". En: Pequeño B, Castaño C, Alvarez-Rodríguez M, Pérez-Cerezales S, Toledano-Díaz A, Bóveda P, López-Sebastián A, Rodríguez-Martínez H, Santiago-Moreno J. Location of aquaporin 3 (AQP3) in frozen-thawed ejaculated and epididymal sperm from wild ruminants: Iberian ibex, mouflon and chamois. ESDAR 2021..
- 20 Title of the work:** Maternal immune rejection of allogeneic pig embryos: molecular signaling during the post-implantation period.
Name of the conference: Virtual Meeting: Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: Participatory - oral communication
Corresponding author: No
Date of event: 10/2021
End date: 10/2021
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Martínez CA; Alvarez-Rodríguez M; Cambra JM; Parrilla I; Cuello C; Gil MA; Martínez EA; Rodríguez-Martínez H. "Maternal immune rejection of allogeneic pig embryos: molecular signaling during the post-implantation period.". En: Martínez CA, Alvarez-Rodríguez M, Cambra JM, Parrilla I, Cuello C, Gil MA, Martínez EA, Rodríguez-Martínez H. Maternal immune rejection of allogeneic pig embryos: molecular signaling during the post-implantation period. ESDAR 2021. Workshop: New insights in pig reproduction through the application of -omics technologies. Moderator: Dr. Parrilla..
- 21 Title of the work:** Season and donor age effect on the High DNA Stainability of frozen buck sperm.
Name of the conference: Virtual Meeting: Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster
Corresponding author: No
Date of event: 10/2021
End date: 10/2021
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Ohaneje LU; Osuagwu UI; Alvarez-Rodríguez M; Yáñez I; Palomo MJ. "Season and donor age effect on the High DNA Stainability of frozen buck sperm.". En: Ohaneje LU, Osuagwu UI, Álvarez-Rodríguez M, Yáñez I, Palomo MJ. Season and donor age effect on the High DNA Stainability of frozen buck sperm. ESDAR 2021..
- 22 Title of the work:** Cytokine expression profile largely varies between amniotic and allantoic fluid in wild boar: a case report.
Name of the conference: Virtual Meeting: International Society of Wildlife Endocrinology (ISWE)
Type of participation: 'Participatory - poster
Corresponding author: Yes
Date of event: 16/08/2021
End date: 17/08/2021

Organising entity: International Society of Wildlife Endocrinology (ISWE)

Gardela J; Martínez CA; Ruiz-Conca M; Olvera S; Carbajal A; Roldán M; López-Béjar M; Álvarez-Rodríguez M. "Cytokine expression profile largely varies between amniotic and allantoic fluid in wild boar: a case report." En: Gardela J, Martínez CA, Ruiz-Conca M, Olvera S, Carbajal A, Roldán M, Rodríguez-Martínez H, López-Béjar M, Álvarez-Rodríguez M. Cytokine expression profile largely varies between amniotic and allantoic fluid in wild boar: a case report. International Society of Wildlife Endocrinology (ISWE) Virtual Event..

- 23 Title of the work:** Threatened Saharan Dorcas gazelle (*Gazella dorcas osiris*) in vitro oocyte maturation and fertilization approach using frozen-thawed epididymal sperm cells.

Name of the conference: Virtual Meeting: Annual Conference International Embryo Technology Society (IETS)

Type of participation: 'Participatory - poster

Corresponding author: No

Date of event: 18/01/2021

End date: 21/01/2021

Organising entity: International Embryo Technology Society (IETS)

Ruiz-Conca M; Gardela J; Álvarez-Rodríguez M; Fernández-Bellón H; López-Béjar M. "Threatened Saharan Dorcas gazelle (*Gazella dorcas osiris*) in vitro oocyte maturation and fertilization approach using frozen-thawed epididymal sperm cells." En: Ruiz-Conca M., Gardela J, Álvarez-Rodríguez M, Fernández-Bellón H, López-Béjar M. IETS. Threatened Saharan Dorcas gazelle (*Gazella dorcas osiris*) in vitro oocyte maturation and fertilization approach using frozen-thawed epididymal sperm cells. Reproduction, Fertility and Development 32, 142-142.. 33 - 2, pp. 123 - 123. Reproduction, Fertility and Development,

- 24 Title of the work:** Quantitative detection of biologically relevant anti-müllerian hormone (AMH) and progesterone in human hair samples.

Name of the conference: Scientific Congress of the American Society for Reproductive Medicine (ASMR)

Type of participation: 'Participatory - poster

Corresponding author: No

Date of event: 21/10/2020

End date: 21/10/2020

Organising entity: American Society for Reproductive Medicine (ASMR)

Crisci A; Ring B; Sawarkar S; Vives YC; García-Calvo L; Duvison MH; Marieta CO; Figueroa-García MJ; García de Miguel L; Munne S; Álvarez-Rodríguez M; López-Béjar M. "P-940. Quantitative detection of biologically relevant anti-müllerian hormone (AMH) and progesterone in human hair samples." En: Crisci A, Ring B, Sawarkar S, Vives YC, García-Calvo L, Duvison MH, Marieta CO, Figueroa-García MJ, García de Miguel L, Munne S, Álvarez-Rodríguez M, López-Béjar M. Quantitative detection of biologically relevant anti-müllerian hormone (AMH) and progesterone in human hair samples.. pp. i419 - i420. Fertility and Sterility, V 114 (3), S, E531. <https://doi.org/10.1016/j.fertnstert.2020.09.037>,

- 25 Title of the work:** In vitro maturation with glutathione ethyl ester improves embryo development potential of vitrified bovine oocytes.

Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite

Type of participation: 'Participatory - poster

Corresponding author: No

Date of event: 10/2020

End date: 10/2020

Organising entity: Association of Embryo Technology in Europe (AETE)

Gardela J; Ruiz-Conca M; Martínez CA; Wrigth D; López-Béjar M; Rodríguez-Martínez H; Álvarez-Rodríguez M. "In vitro maturation with glutathione ethyl ester improves embryo development potential of vitrified bovine oocytes." En: García-Martínez, Tania; Vendrell-Flotats, Meritxell; Martínez-Rodero, Iris; Ordóñez-León,

Erika Alina; Álvarez-Rodríguez, Manuel; Yeste, Marc; López-Béjar, Manel; Mogas, Teresa. In vitro maturation with glutathione ethyl ester improves embryo development potential of vitrified bovine oocytes.. pp. 70. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp70,

- 26 Title of the work:** Natural mating represses pro-inflammatory responses in the pre-ovulatory porcine endometrium and endosalpinx (ampulla) by down-regulation of caspase-1 (CASP1) and caspase-12 (CASP12).

Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite

Type of participation: 'Participatory - poster

Corresponding author: Yes

Date of event: 10/2020

End date: 10/2020

Organising entity: Association of Embryo Technology in Europe (AETE)

Gardela J; Ruiz-Conca M; Martínez CA; Wrigth D; Lopez-Bejar M; Rodríguez-Martínez H; Alvarez-Rodriguez M. "Natural mating represses pro-inflammatory responses in the pre-ovulatory porcine endometrium and endosalpinx (ampulla) by down-regulation of caspase-1 (CASP1) and caspase-12 (CASP12)". En: Gardela, Jaume, Ruiz-Conca, Mateo, Martínez, Cristina A, Wright, Dominic, López-Bejar, Manel, Rodríguez-Martínez, Heriberto, Álvarez-Rodríguez, Manuel. Natural mating represses pro-inflammatory responses in the pre-ovulatory porcine endometrium and endosalpinx (ampulla) by down-regulation of caspase-1 (CASP1) and caspase-12 (CASP12).. pp. 58. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp58,

- 27 Title of the work:** Seminal plasma downregulates the Signal Transducer and Activator of Transcription 5A gene (STAT5A), a modulator of immune response, in the preovulatory porcine endometrium.

Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite

Type of participation: 'Participatory - poster

Corresponding author: Yes

Date of event: 10/2020

End date: 10/2020

Organising entity: Association of Embryo Technology in Europe (AETE)

Ruiz-Conca M; Gardela J; Martínez CA; Wrigth D; Lopez-Bejar M; Rodríguez-Martínez H; Alvarez-Rodriguez M. "Seminal plasma downregulates the Signal Transducer and Activator of Transcription 5A gene (STAT5A), a modulator of immune response, in the preovulatory porcine endometrium.". En: Ruiz-Conca, Mateo, Gardela, Jaume Martínez, Cristina A, Wright, Dominic, López-Bejar, Manel, Rodríguez-Martínez, Heriberto, Álvarez-Rodríguez, Manuel. Seminal plasma downregulates the Signal Transducer and Activator of Transcription 5A gene (STAT5A), a modulator of immune response, in the preovulatory porcine endometrium.. pp. 57. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp57,

- 28 Title of the work:** The transcriptomic landscape of the rabbit oviduct through the pre-implantation embryo development.

Name of the conference: Scientific Meeting of the Association of Embryo Technology in Europe (AETE) - AETE-Lite

Type of participation: 'Participatory - poster

Corresponding author: No

Date of event: 10/2020

End date: 10/2020

Organising entity: Association of Embryo Technology in Europe (AETE)

Gardela J; Ruiz-Conca M; Martínez CA; Wrigth D; Lopez-Bejar M; Rodríguez-Martínez H; Alvarez-Rodriguez M. "The transcriptomic landscape of the rabbit oviduct through the pre-implantation embryo development."

En: González-Brusi, Leopoldo; Balastegui-Alarcón, Miriam; López-Andreo, María José; Cots-Rodríguez, Paula; Moros-Nicolás, Carla; Izquierdo Rico, M^a José; Álvarez-Rodríguez, Manuel; López-Béjar, Manel; Avilés, Manuel. The transcriptomic landscape of the rabbit oviduct through the pre-implantation embryo development.. pp. 73. Proceedings of the Scientific Meeting of the Association of Embryo Technology in Europe (AETE) pp73,

29 Title of the work: Can we detect a biologically relevant quantity of Anti-Mullerian Hormone (AMH) in human hair samples?

Name of the conference: Virtual Meeting: Annual Conference of the European Society of Human Reproduction and Embryology

Type of participation: 'Participatory - poster

Corresponding author: No

Date of event: 05/07/2020

End date: 08/07/2020

Organising entity: ESHRE (EUROPEAN SOCIETY FOR HUMAN REPRODUCTION AND EMBRYOLOGY)
Sawarkar S; Alvarez-Rodriguez M; Garcia-Calvo L; Carbajal A; Ring B; Vives YC; Duvison MH; Crisci A; Marieta CO; Jimenez M; Munne S; López-Béjar M. "P-616. Can we detect a biologically relevant quantity of Anti-Mullerian Hormone (AMH) in human hair samples?". En: Sawarkar S, Alvarez-Rodríguez M, García Calvo L, Carbajal A, Ring B, Vives YC, Duvison MH, Crisci A, Marieta CO, Jimenez M, Munne S, Lopez-Béjar M. Can we detect a biologically relevant quantity of Anti-Mullerian Hormone (AMH) in human hair samples?. pp. i419 - i420. Human Reproduction, V 35, S1, 2020, i419-i420. <https://www.eshre.eu/ESHRE2020/Media/2020-Press-releases/Sawarkar>,

30 Title of the work: Seminal plasma affects the expression of the ABDH2 and VCAN genes in the sow internal genital tract

Name of the conference: 46th Annual Conference International Embryo Technology Society (IETS)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: New York, United States of America

Date of event: 16/01/2020

End date: 19/01/2020

Organising entity: International Embryo Technology Society (IETS)
García-Martínez T; Vendrell-Flotats M; Martínez-Rodero I; Alvarez-Rodríguez M; López-Béjar M; Mogas T. "33 Assessment of spindle morphology and reactive oxygen species production after vitrification of bovine oocytes following in vitro maturation in the presence of glutathione ethyl ester.". En: García-Martínez T., Vendrell-Flotats M., Martínez-Rodero I., Álvarez-Rodríguez M., López-Béjar M., Mogas T. (2019) 33 Assessment of spindle morphology and reactive oxygen species production after vitrification of bovine oocytes following in vitro maturation in the presence of glutathione ethyl ester. Reproduction, Fertility and Development 32, 142-142.. 32, pp. 142 - 142. Reproduction, Fertility and Development,

31 Title of the work: Changes in the gene expression of the ampulla of rabbit oviduct after ovulation

Name of the conference: 15th Meeting of Spanish Association of Animal Reproduction

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Toledo, Castile-La Mancha, Spain

Date of event: 07/11/2019

End date: 09/11/2019

Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

City organizing entity: Toledo,

González-Brusi L; López-Andreo M; Cots P; Moros C; Ballesta J; Izquierdo-Rico MJ; Alvarez-Rodríguez M; López-Béjar M; Avilés M. "P55. Changes in the gene expression of the ampulla of rabbit oviduct after ovulation". 54 - S4, pp. 126 - 126. REPRODUCTION IN DOMESTIC ANIMALS,



- 32** **Title of the work:** Mating induces up-regulation of AQP9 in the sow internal genital tract.
Name of the conference: 15th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 07/11/2019
End date: 09/11/2019
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
Álvarez-Rodríguez M; Martínez CA; Gardela J; Ruiz-Conca M; López-Béjar M; Rodríguez-Martínez H. "P7. Mating induces up-regulation of AQP9 in the sow internal genital tract". 54 - S4, pp. 108 - 108. REPRODUCTION IN DOMESTIC ANIMALS,
- 33** **Title of the work:** NR3C1 expression in response to cortisol during bovine in vitro oocyte maturation
Name of the conference: 15th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 07/11/2019
End date: 09/11/2019
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
Ruiz-Conca M; Gardela J; Álvarez-Rodríguez M; Olvera-Maneu S; Mogas T; López-Béjar M. "P62. NR3C1 expression in response to cortisol during bovine in vitro oocyte maturation". 54 - S4, pp. 129 - 129. REPRODUCTION IN DOMESTIC ANIMALS,
- 34** **Title of the work:** Seminal plasma, but not TGF- β 1, affects the embryo developmental staging in pigs
Name of the conference: 15th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 07/11/2019
End date: 09/11/2019
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
Martínez CA; Gonzálves M; Cambra JM; Roca J; Martínez EA; Rodríguez-Martínez H; Álvarez-Rodríguez M; Gil MA; Parrilla I; Cuello C. "P44. Seminal plasma, but not TGF- β 1, affects the embryo developmental staging in pigs". 54 - S4, pp. 122 - 122. REPRODUCTION IN DOMESTIC ANIMALS,
- 35** **Title of the work:** Sperm Chromatin Structure Assay for detecting immature sperm in Blanca de Rasquera goats
Name of the conference: 15th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 07/11/2019
End date: 09/11/2019
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
City organizing entity: Toledo,
Ohaneje UL; Álvarez-Rodríguez M; Osuagwu UI; López-Béjar M; Palomo MJ. "P29. Sperm Chromatin Structure Assay for detecting immature sperm in Blanca de Rasquera goats". 54 - S4, pp. 116 - 116. REPRODUCTION IN DOMESTIC ANIMALS,



- 36** **Title of the work:** Seminal plasma affects the expression of the ABDH2 and VCAN genes in the sow internal genital tract
Name of the conference: 22nd Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Sant Petersburg, Russia
Date of event: 19/09/2019
End date: 22/09/2019
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Alvarez-Rodríguez M; Martínez CA; López-Béjar M; Rodríguez-Martínez H. "P93. Seminal plasma affects the expression of the ABDH2 and VCAN genes in the sow internal genital tract". 54 - 3, pp. 115 - 115.
- 37** **Title of the work:** Incubation with seminal plasma after thawing reduces immature sperm in Blanca de Rasquera goats.
Name of the conference: 35th Scientific Meeting of the Association of Embryo Technology in Europe (AETE)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Murcia, Region of Murcia, Spain
Date of event: 12/09/2019
End date: 14/09/2019
Organising entity: Association of Embryo Technology in Europe (AETE)
City organizing entity: Murcia,
Ohaneje LU; Osuagwuh UI; Alvarez-Rodríguez M; Palomo JM. "P153. Incubation with seminal plasma after thawing reduces immature sperm in Blanca de Rasquera goats.". En: Ohaneje LU, Osuagwuh UI, Álvarez-Rodríguez M, Palomo MJ. Incubation with seminal plasma after thawing reduces immature sperm in Blanca de Rasquera goats. P153. AETE 2019. Murcia, Spain. A237E. Animal Reproduction, 2019. 16 (3). Pp784.. 15 - 3, pp. 784. Proceedings of the Animal Reproduction. Anim. Reprod., v.16, n.3, 784 Jul./Sept. 2019,
- 38** **Title of the work:** Immunofluorescence analysis of NR3C1 receptor following cortisol exposure during bovine in vitro oocyte maturation.
Name of the conference: 35th Scientific Meeting of the Association of Embryo Technology in Europe (AETE)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Murcia, Region of Murcia, Spain
Date of event: 12/09/2019
End date: 14/09/2019
Organising entity: Association of Embryo Technology in Europe (AETE)
City organizing entity: Murcia,
Ruiz-Conca M; Gardela J; Alvarez-Rodríguez M; Mogas T; López-Béjar M. "P201. Immunofluorescence analysis of NR3C1 receptor following cortisol exposure during bovine in vitro oocyte maturation.". En: Ruiz-Conca M, Gardela J, Alvarez-Rodríguez M, Mogas T, López-Béjar M. Immunofluorescence analysis of NR3C1 receptor following cortisol exposure during bovine in vitro oocyte maturation. P201. AETE 2019. Murcia, Spain. A190E. Animal Reproduction, 2019. 16 (3). Pp753.. 15 - 3, pp. 753. Proceedings of the Animal Reproduction. Anim. Reprod., v.16, n.3, 753 Jul./Sept. 2019,
- 39** **Title of the work:** Immunohistochemical identification of CIRBP in bovine ovary and testicle.
Name of the conference: 35th Scientific Meeting of the Association of Embryo Technology in Europe (AETE)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Murcia, Region of Murcia, Spain

Date of event: 12/09/2019

End date: 14/09/2019

Organising entity: Association of Embryo Technology in Europe (AETE)

City organizing entity: Murcia,

Gardela J; Ruiz-Conca M; Alvarez-Rodríguez M; Mogas T; López-Béjar M. "P200. Immunohistochemical identification of CIRBP in bovine ovary and testicle.". En: Gardela J, Ruiz-Conca M, Alvarez-Rodríguez M, Mogas T, López-Béjar M. Immunohistochemical identification of CIRBP in bovine ovary and testicle. P200. AETE 2019. Murcia, Spain. A164E. Animal Reproduction, 2019. 16 (3). Pp727.. 15 - 3, pp. 727. Proceedings of the Animal Reproduction. Anim. Reprod., v.16, n.3, 727 Jul./Sept. 2019,

40 Title of the work: Ovulation mediate changes in the transcriptomics of the rabbit isthmus.

Name of the conference: 35th Scientific Meeting of the Association of Embryo Technology in Europe (AETE)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Murcia, Region of Murcia, Spain

Date of event: 12/09/2019

End date: 14/09/2019

Organising entity: Association of Embryo Technology in Europe (AETE)

City organizing entity: Murcia,

Gonzalez-Brusi L; Lopez-Andreo MJ; Cots-Rodriguez P; Lopez-Ubeda R; Moros-Nicolas C; Ballesta J; Izquierdo-Rico MJ; Alvarez-Rodriguez M; Lopez-Bejar M; Aviles M. "P211. Ovulation mediate changes in the transcriptomics of the rabbit isthmus.". En: Gonzalez-Brusi L, Lopez-Andreo MJ, Cots-Rodriguez P, Lopez-Ubeda R, Moros-Nicolas C, Ballesta J, Izquierdo-Rico MJ, Alvarez-Rodriguez M, Lopez-Bejar M, Aviles M. Ovulation mediate changes in the transcriptomics of the rabbit isthmus. P211. AETE 2019. Murcia, Spain. A167E. Animal Reproduction, 2019. 16 (3). Pp730.. 15 - 3, pp. 730. Proceedings of the Animal Reproduction. Anim. Reprod., v.16, n.3, 730 Jul./Sept. 2019,

41 Title of the work: Transcriptome of porcine blastocysts stored in liquid state for up to 48 h

Name of the conference: 35th Scientific Meeting of the Association of Embryo Technology in Europe (AETE)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Murcia, Region of Murcia, Spain

Date of event: 12/09/2019

End date: 14/09/2019

Organising entity: Association of Embryo Technology in Europe (AETE)

City organizing entity: Murcia,

Cuello CM; Cambra JM; Gil MA; Parrilla I; Alvarez-Rodriguez M; Rodriguez-Martinez H; Martinez EA; Martinez CA. "P196. Transcriptome of porcine blastocysts stored in liquid state for up to 48 h". En: Cuello CM, Cambra JM, Gil MA, Parrilla I, Alvarez-Rodriguez M, Rodriguez-Martinez H, Martinez EA, Martinez CA. Transcriptome of porcine blastocysts stored in liquid state for up to 48 h. P196. AETE 2019. Murcia, Spain. Short oral communication. A237E. Animal Reproduction, 2019. 16 (3). Pp775.. 15 - 3, pp. 775. Proceedings of the Animal Reproduction. Anim. Reprod., v.16, n.3, p.775 Jul./Sept. 2019,

42 Title of the work: Pre-AI intrauterine seminal plasma advance embryo development by up-regulating PI3K/AKT and MAPK/ERK signaling pathways?

Name of the conference: IX International Conference of Boar Semen Preservation

Type of participation: Participatory - oral communication



Corresponding author: No

City of event: Hunter Valley, Australia

Date of event: 11/08/2019

End date: 14/08/2019

Organising entity: IX International Conference of Boar Semen Preservation

Martinez CA; Cambra JM; Nohalez A; Parrilla I; Roca J; Ferrera-Dias G; Lucas X; Martinez EA; Gil MA; Rodríguez-Martínez H; Cuello CM; Alvarez-Rodríguez M. "P93. Seminal plasma affects the expression of the ABDH2 and VCAN genes in the sow internal genital tract". 137, pp. 137 - 137. Theriogenology,

- 43 Title of the work:** Seminal plasma does not upregulate the anti-inflammatory IL-10 gene in the oviductal sperm reservoir of pigs

Name of the conference: 21th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Córdoba, Spain

Date of event: 28/11/2018

End date: 01/12/2018

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Alvarez-Rodríguez M; Rodríguez-Martínez H. "Seminal plasma does not upregulate the anti-inflammatory IL-10 gene in the oviductal sperm reservoir of pigs".

- 44 Title of the work:** TGF- γ 1 levels in seminal plasma relates positively to porcine in vivo fertility

Name of the conference: 21th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Córdoba, Spain

Date of event: 28/11/2018

End date: 01/12/2018

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Perez-Patiño C; Barranco I; Marie Ruber; MLWJ Broekhuijse; Padilla L; Alvarez-Rodríguez M; Parrilla I; Alfonso Bolarin; Martinez EA; Rodríguez-Martínez H; Roca J. "TGF- γ 1 levels in seminal plasma relates positively to porcine in vivo fertility".

- 45 Title of the work:** The transforming growth-factor (TGF)- γ 1, - γ 2 and - γ 3 is synthesized by most of the boar internal genital organs

Name of the conference: 21th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Córdoba, Spain

Date of event: 28/11/2018

End date: 01/12/2018

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Barranco I; Perez-Patiño C; Padilla L; Alvarez-Rodríguez M; Parrilla I; Martinez EA; Roca J; Rodríguez-Martínez H. "The transforming growth-factor (TGF)- γ 1, - γ 2 and - γ 3 is synthesized by most of the boar internal genital organs".

- 46 Title of the work:** Sperm DNA fragmentation in human split ejaculates.

Name of the conference: XIIIth INTERNATIONAL SYMPOSIUM on SPERMATOLOGY

Type of participation: Participatory - oral communication



Corresponding author: Yes

City of event: Stockholm, Stockholm, Sweden

Date of event: 09/05/2018

End date: 13/05/2018

Organising entity: INTERNATIONAL SYMPOSIUM on SPERMATOLOGY

City organizing entity: Stockholm,

Alvarez-Rodríguez M; Liffner S; Hammar M; Rodríguez-Martínez H.

47 Title of the work: Isolation and characterization of miRNAs in boar semen fractions

Name of the conference: 14th Meeting of Spanish Association of Animal Reproduction

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 09/11/2017

End date: 12/11/2017

Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

City organizing entity: Barcelona,

Hillerton T; Venhoranta H; Rodríguez-Martínez H; Álvarez-Rodríguez M. "Isolation and characterization of miRNAs in boar semen fractions". 52 - S4, pp. 84 - 105. REPRODUCTION IN DOMESTIC ANIMALS,

48 Title of the work: A splice donor variant in the CCDC189 gene in Nordic Red Cattle is associated with asthenospermia

Name of the conference: Animal Genetics and Diseases

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Hinxton, Cambridge, United Kingdom

Date of event: 20/09/2017

End date: 22/09/2017

Organising entity: Welcome Genome Campus, Hinxton, Cambridge, UK

City organizing entity: Cambridge, United Kingdom

T Iso-Touru; C Würmser; H Pausch; Heli Venhoranta; T Savolainen; A Sironen; K Flisikowski; R Fries; Heriberto Rodríguez-Martínez; Alejandro Vicente-Carrillo; Manuel Álvarez-Rodríguez; S Nagy; G Sahana; B Guldbrandsen; H Simonen; Magnus Anderson. "Book of abstracts of the Animal Genetics and Diseases: splice donor variant in the CCDC189 gene in Nordic Red Cattle is associated with asthenospermia". REPRODUCTION IN DOMESTIC ANIMALS,

49 Title of the work: Could exogenous phospholipids replace egg-yolk during boar sperm cryopreservation.

Name of the conference: 18th International Congress on Animal Reproduction (ICAR)

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Tours, France

Date of event: 2016

Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; ALEJANDRO VICENTE CARRILLO; HERIBERTO RODRIGUEZ MARTINEZ. "Could exogenous phospholipids replace egg-yolk during boar sperm cryopreservation: Theriogenology".

50 Title of the work: Cytokine TGF β 1-3 in seminal plasma: biomarkers for pig semen quality?

Name of the conference: 20th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR) & AERA meeting

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Lisbon, Portugal

Date of event: 2016

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION & ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

MANUEL ALVAREZ RODRIGUEZ; MARIE RUBÉR; HERIBERTO RODRIGUEZ MARTINEZ. "Cytokine TGF β 1-3 in seminal plasma: biomarkers for pig semen quality? Journal: Reproduction in Domestic Animals."

51 Title of the work: Expression of glutathione peroxidase-5 in the boar genital tract.

Name of the conference: 20th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR) & AERA meeting

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Lisbon, Portugal

Date of event: 2016

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION & ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

ISABEL BARRANCO CASCALES; CRISTINA PEREZ PATIÑO; ALEJANDRO VICENTE CARRILLO; MANUEL ALVAREZ RODRIGUEZ; EMILIO MARTINEZ; JORDI ROCA; HERIBERTO RODRIGUEZ MARTINEZ. "Expression of glutathione peroxidase-5 in the boar genital tract. Journal: Reproduction in Domestic Animals."

52 Title of the work: Immunohistochemical localization of paraoxonase type 1 in the boar genital tract.

Name of the conference: 10th Biennial Conference of the Association for Applied Animal Andrology.

Type of participation: Participatory - poster

Corresponding author: No

City of event: Tours, France

Date of event: 2016

Organising entity: ASSOCIATION FOR APPLIED ANIMAL ANDROLOGY

MOHAMMAD ATIKUZZAMAN; MARTIN JOHNSON; MANUEL ALVAREZ RODRIGUEZ; DOMINIC WRIGHT; HERIBERTO RODRIGUEZ MARTINEZ. "Immunohistochemical localization of paraoxonase type 1 in the boar genital tract."

53 Title of the work: Semen and seminal fluid deposition down-regulate immune-reactive genes in the sperm reservoirs of high-egg laying chicken.

Name of the conference: 18th International Congress on Animal Reproduction (ICAR)

Type of participation: Participatory - poster

Corresponding author: No

City of event: Tours, France

Date of event: 2016

Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MOHAMMAD ATIKUZZAMAN; MARTIN JOHNSON; MANUEL ALVAREZ RODRIGUEZ; DOMINIC WRIGHT; HERIBERTO RODRIGUEZ MARTINEZ. "Semen and seminal fluid deposition down-regulate immune-reactive genes in the sperm reservoirs of high-egg laying chicken: Theriogenology".

54 Title of the work: Sperm chromatin integrity (SCSA analysis) in specific ejaculate fractions can improve semen evaluation under clinical settings.

Name of the conference: 32nd Annual Conference of the European Society of Human Reproduction and Embryology

Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Helsinki, Finland

Date of event: 2016

Organising entity: ESHRE (EUROPEAN SOCIETY FOR HUMAN REPRODUCTION AND EMBRYOLOGY)

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; SUSANNE LIFFNER; ALEJANDRO VICENTE CARRILLO; MATS HAMMAR; HERIBERTO RODRIGUEZ MARTINEZ. "Sperm chromatin integrity (SCSA analysis) in specific ejaculate fractions can improve semen evaluation under clinical settings."

55 Title of the work: Exogenous hyaluronan does not improve cryosurvival of boar spermatozoa
Name of the conference: 19th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Varna, Bulgaria

Date of event: 2015

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; HERIBERTO RODRIGUEZ MARTINEZ. "Exogenous hyaluronan does not improve cryosurvival of boar spermatozoa. Journal: Reproduction in Domestic Animals."

56 Title of the work: Real-time qPCR for the assessment of DNA damage and telomere length in ram spermatozoa cryopreserved in presence of antioxidants.

Name of the conference: 19th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Varna, Bulgaria

Date of event: 2015

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Type of entity: Associations and Groups

L GONZÁLEZ GONZÁLEZ; C VEGA CARBAJAL; MARIA MATA CAMPUZANO; MANUEL ALVAREZ RODRIGUEZ. "Real-time qPCR for the assessment of DNA damage and telomere length in ram spermatozoa cryopreserved in presence of antioxidants. Journal: Reproduction in Domestic Animals."

57 Title of the work: Spermatozoa rather than seminal fluid drives immune-modulation in the sperm storage tubuli of Red Jungle Fowl hens.

Name of the conference: 19th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Varna, Bulgaria

Date of event: 2015

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MOHAMAD ATTIKUZZAMAN; A HÖGLUND; M JOHNSON; MANUEL ALVAREZ RODRIGUEZ; RATNESH MEHTA; DOMINIC WRIGHT; HERIBERTO RODRIGUEZ MARTINEZ. "Spermatozoa rather than seminal fluid drives immune-modulation in the sperm storage tubuli of Red Jungle Fowl hens. Journal: Reproduction in Domestic Animals."



- 58** **Title of the work:** Changes of glutathione peroxidase and superoxide dismutase on ram epididymal sperm samples depending on storage conditions
Name of the conference: 18th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster'
Corresponding author: Yes
City of event: Helsinki, Finland
Date of event: 2014
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
FELIPE MARTINEZ PASTOR; MARIA MATA CAMPUZANO; JULIO TAMAYO CANUL; MERCEDES ALVAREZ GARCIA; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO; MANUEL ALVAREZ RODRIGUEZ. "Changes of glutathione peroxidase and superoxide dismutase on ram epididymal sperm samples depending on storage conditions. Journal: Reproduction in Domestic Animals."
- 59** **Title of the work:** Chromatin alterations after freezing deer semen with reduced glutathione (GSH) are not related to increase oxidative stress.
Name of the conference: 18th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster'
Corresponding author: No
City of event: Helsinki, Finland
Date of event: 2014
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
JESSICA ALONSO MOLERO; MARIA MATA CAMPUZANO; MANUEL ALVAREZ RODRIGUEZ; JUDITH LLORENS MENDEZ; FUERTES; LETICIA ORDAS BANDERA; FELIPE MARTINEZ PASTOR. "Chromatin alterations after freezing deer semen with reduced glutathione (GSH) are not related to increase oxidative stress. Journal: Reproduction in Domestic Animals."
- 60** **Title of the work:** Post-thawing incubation of ram spermatozoa increases DNA fragmentation despite of antioxidants addition in freezing extender.
Name of the conference: 12th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster'
Corresponding author: No
City of event: Alicante, Spain
Date of event: 2014
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
JUDITH LLORENS MENDEZ; MARIA MATA CAMPUZANO; JESSICA ALONSO MOLERO; VEGA CARVAJAL; MANUEL ALVAREZ RODRIGUEZ; FELIPE MARTINEZ PASTOR. "Post-thawing incubation of ram spermatozoa increases DNA fragmentation despite of antioxidants addition in freezing extender. Journal: Reproduction in Domestic Animals".
- 61** **Title of the work:** Descriptive study of epididymal spermatozoa from tiger (*Panthera tigris tigris*).
Name of the conference: 17th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster'
Corresponding author: No
City of event: Bologna, Italy
Date of event: 2013
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups



ELENA LOPEZ URUEÑA; SUSANA GOMES ALVES; MERCEDES ALVAREZ GARCIA; MARIA NICOLAS GARCIA; MANUEL ALVAREZ RODRIGUEZ; PATRICIA MANRIQUE; SANTIAGO BORRAGAN; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Descriptive study of epididymal spermatozoa from tiger (*Panthera tigris tigris*). Journal: Reproduction in Domestic Animals."

- 62** **Title of the work:** Effect of HSPA8 addition to cryopreservation media on the quality of brown bear (*Ursus arctic*) sperm submitted to deferred freezing up to 48 h.
Name of the conference: 3rd International Congress on Controversies in Cryopreservation of Stem Cells, Reproductive Cells, Tissue and Organs.
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Berlin, Germany
Date of event: 2013
Organising entity: CRYO **Type of entity:** Associations and Groups
MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; SANTIAGO BORRAGAN; ELENA LOPEZ URUEÑA; SUSANA GOMES ALVES; WILLIAN VINCENT HOLT; ALIREZZA FAZELI; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Effect of HSPA8 addition to cryopreservation media on the quality of brown bear (*Ursus arctic*) sperm submitted to deferred freezing up to 48 h."
- 63** **Title of the work:** Mitochondrial status and ROS production after Androcoll selection of thawed and red deer sperm.
Name of the conference: XV Conference on Animal Production. Interprofessional Association for Agricultural Development (AIDA).
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Zaragoza,
Date of event: 2013
Organising entity: ASOCIACION INTERPROFESIONAL PARA EL DESARROLLO AGRARIO
MARIA MATA CAMPUZANO; MANUEL ALVAREZ RODRIGUEZ; CAMPILLO; PALACIOS AGUADO; FUERTES; REDONDO BLANCO; JESSICA ALONSO MOLERO; FELIPE MARTINEZ PASTOR. "Mitochondrial status and ROS production after Androcoll selection of thawed and red deer sperm."
- 64** **Title of the work:** Changes in sperm chromatin during post-thawing incubation are more pronounced in ram than in red deer, and antioxidants are unable to prevent them
Name of the conference: 11th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Córdoba, Spain
Date of event: 13/06/2012
End date: 16/06/2012
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
MARIA MATA CAMPUZANO; LUIS ANEL LOPEZ; MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; LUIS ANEL RODRIGUEZ; JOSE JULIAN GARDE; PAULINO DE PAZ CABELLO; FELIPE MARTINEZ PASTOR. "Changes in sperm chromatin during post-thawing incubation are more pronounced in ram than in red deer, and antioxidants are unable to prevent them. Reproduction in Domestic Animals".
- 65** **Title of the work:** Detrimental effects of the elimination of supernatant fraction on non-commercial LDL extenders on sperm of brown bear (*Ursus arctos*) cryopreservation
Name of the conference: 11th Meeting of Spanish Association of Animal Reproduction
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Córdoba, Spain



Date of event: 13/06/2012

End date: 16/06/2012

Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; SANTIAGO BORRAGAN; CARMEN MARTINEZ RODRIGUEZ; JULIO TAMAYO CANUL; FELIPE MARTINEZ PASTOR; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO. "Detrimental effects of the elimination of supernatant fraction on non-commercial LDL extenders on sperm of brown bear (*Ursus arctos*) cryopreservation. Journal: Reproduction in Domestic Animals".

66 Title of the work: Trolox impairs post-thawing mitochondrial activity and acrosomal status of epididymal spermatozoa from Iberian red deer

Name of the conference: 11th Meeting of Spanish Association of Animal Reproduction

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Córdoba, Spain

Date of event: 13/06/2012

End date: 16/06/2012

Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL

LUIS ANEL LOPEZ; MANUEL ALVAREZ RODRIGUEZ; JULIO TAMAYO CANU; MERCEDES ALVAREZ GARCIA; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO; JOSE JULIAN GARDE; FELIPE MARTINEZ PASTOR. "Trolox impairs post-thawing mitochondrial activity and acrosomal status of epididymal spermatozoa from Iberian red deer. Reproduction in Domestic Animals".

67 Title of the work: Effect of 37°C incubation test after thawing of Brown Bear (*Ursus arctos*) semen cryopreserved with soybean extenders.

Name of the conference: 16th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Dublin, Ireland

Date of event: 2012

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; ELENA LOPEZ URUEÑA; SUSANA GOMES ALVES; FELIPE MARTINEZ PASTOR; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO. "Effect of 37°C incubation test after thawing of Brown Bear (*Ursus arctos*) semen cryopreserved with soybean extenders. Journal: Reproduction in Domestic Animals".

68 Title of the work: Evaluation of the use of Low-Density Lipoproteins (LDL) extenders in the cryopreservation of electroejaculated semen from brown bear (*Ursus arctos*).

Name of the conference: 17th International Congress on Animal Reproduction (ICAR)

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Vancouver, British Columbia, Canada

Date of event: 2012

Organising entity: INTERNATIONAL CONGRESS ON ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; SANTIAGO BORRAGAN; LUIS ANEL LOPEZ; MARIA MATA CAMPUZANO; MARIA NICOLAS GARCIA; FELIPE MARTINEZ PASTOR; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Evaluation of the use of Low-Density Lipoproteins (LDL) extenders in the cryopreservation of electroejaculated semen from brown bear (*Ursus arctos*). Journal: Reproduction in Domestic Animals".

- 69** **Title of the work:** Selection of cryopreserved red deer epididymal spermatozoa using Androcoll-O improves membrane and mitochondrial status.
Name of the conference: 16th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR).
Type of participation: 'Participatory - poster'
Corresponding author: No
City of event: Dublin, Ireland
Date of event: 2012
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
LUIS ANEL LOPEZ; MANUEL ALVAREZ RODRIGUEZ; ELENA LOPEZ URUEÑA; MERCEDES ALVAREZ GARCIA; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ; JULIAN GARDE; JANE MORRELL; FELIPE MARTINEZ PASTOR. "Selection of cryopreserved red deer epididymal spermatozoa using Androcoll-O improves membrane and mitochondrial status. Journal: Reproduction in Domestic Animals."
- 70** **Title of the work:** Comparison of the effect of different antioxidants on frozen-thawed and incubated ram semen samples.
Name of the conference: 15th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR).
Type of participation: 'Participatory - poster'
City of event: Antalya, Turkey
Date of event: 2011
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
MARIA MATA CAMPUZANO; MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ; JULIAN GARDE; FELIPE MARTINEZ PASTOR. "Comparison of the effect of different antioxidants on frozen-thawed and incubated ram semen samples. Journal: Reproduction in Domestic Animals."
- 71** **Title of the work:** Testing treatments for enhancing the refrigerated storage of red deer semen
Name of the conference: 15th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR). Antalya, Turkey, September, 2011.
Type of participation: 'Participatory - poster'
City of event: Antalya, Turkey
Date of event: 2011
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
LUIS ANEL LOPEZ; FELIPE MARTINEZ PASTOR; MERCEDES ALVAREZ GARCIA; MANUEL ALVAREZ RODRIGUEZ; LETICIA ORDAS BANDERA; SANTIAGO BORRAGAN; JULIAN GARDE. "Testing treatments for enhancing the refrigerated storage of red deer semen. Journal: Reproduction in Domestic Animals."
- 72** **Title of the work:** Descriptive study of electroejaculated and epididymal sperm from a llama (Lama glama)
Name of the conference: 10th Meeting of Spanish Association of Animal Reproduction (AERA).
Type of participation: 'Participatory - poster'
City of event: Cáceres, Extremadura, Spain
Date of event: 2010
Organising entity: ASOCIACION ESPAÑOLA DE REPRODUCCION ANIMAL
SUSANA GOMES ALVES; MARIA NICOLAS GARCIA; MERCEDES ALVAREZ GARCIA; MANUEL ALVAREZ RODRIGUEZ; MARIA MATA CAMPUZANO; PAULINO DE PAZ CABELLO; SANTIAGO BORRAGAN; ENRIQUE ANEL RODRIGUEZ; FELIPE MARTINEZ PASTOR; LUIS ANEL RODRIGUEZ. "Descriptive study of electroejaculated and epididymal sperm from a llama (Lama glama). Journal: Reproduction in Domestic Animals".



- 73** **Title of the work:** Effects of Two Freeze-Thaw Cycles on Motility Parameters of Brown Bear (*Ursus arctos*) Semen
Name of the conference: 14th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster'
City of event: Eger, Hungary
Date of event: 2010
Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION
Type of entity: Associations and Groups
MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; SANTIAGO BORRAGAN; FELIPE MARTINEZ PASTOR; ENRIQUE ANEL RODRIGUEZ; CESAR CHAMORRO; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Effects of Two Freeze-Thaw Cycles on Motility Parameters of Brown Bear (*Ursus arctos*) Semen. Journal: Reproduction in Domestic Animals."
- 74** **Title of the work:** HSPA8, an oviductal protein, helps maintaining the quality of refrigerated ram semen.
Name of the conference: 11th International Symposium on Spermatology
Type of participation: 'Participatory - poster'
City of event: Okinawa, Japan
Date of event: 2010
Organising entity: INTERNATIONAL SYMPOSIUM on SPERMATOLOGY
FELIPE MARTINEZ PASTOR; MARIA MATA CAMPUZANO; ELENA LOPEZ URUEÑA; MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO.
- 75** **Title of the work:** Ram sperm-head morphometry varies among ejaculates collected in different dates
Name of the conference: 11th International Symposium on Spermatology
Type of participation: 'Participatory - poster'
City of event: Okinawa, Japan
Date of event: 2010
Organising entity: INTERNATIONAL SYMPOSIUM on SPERMATOLOGY
MARIA MATA CAMPUZANO; MANUEL ÁLVAREZ RODRÍGUEZ; MERCEDES ALVAREZ GARCIA; FELIPE MARTINEZ PASTOR; LUIS ANEL RODRIGUEZ; PAULINO DE PAZ CABELLO. "Ram sperm-head morphometry varies among ejaculates collected in different dates".
- 76** **Title of the work:** Storage Method Affects the Antioxidant Capacity of Non-commercial Extenders Used for Semen Cryopreservation
Name of the conference: 32nd Annual Meeting British Andrology Society (BAS). Current issues in Andrology for Health & Drug Development". AstraZeneca Pharmaceuticals, Alderley Park. SK10 4TG
Type of participation: 'Participatory - poster'
City of event: Cheshire, North Yorkshire, United Kingdom
Date of event: 2010
Organising entity: BRITISH ANDROLOGY SOCIETY
Type of entity: Associations and Groups
MANUEL ALVAREZ RODRIGUEZ; MARIA ICOLAS GARCIA; SUSANA GOMES ALVES; MARIA MATA CAMPUZANO; FELIPE MARTINEZ PASTOR; MERCEDES ALVAREZ GARCIA; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Storage Method Affects the Antioxidant Capacity of Non-commercial Extenders Used for Semen Cryopreservation".
- 77** **Title of the work:** Comparison of three extenders in the cryopreservation of electroejaculated semen of fighting bulls
Name of the conference: 13th Annual Conference of the European Society for Domestic Animal Reproduction (ESDAR)
Type of participation: 'Participatory - poster'



City of event: Ghent, Belgium

Date of event: 2009

Organising entity: EUROPEAN SOCIETY OF DOMESTIC ANIMAL REPRODUCTION

Type of entity: Associations and Groups

MANUEL ALVAREZ RODRIGUEZ; MERCEDES ALVAREZ GARCIA; MARIA MATA CAMPUZANO; MARIA NICOLAS GARCIA; SUSANA GOMES ALVES; FELIPE MARTINEZ PASTOR; JUAN CARLOS BOIXO; PAULINO DE PAZ CABELLO; LUIS ANEL RODRIGUEZ. "Comparison of three extenders in the cryopreservation of electroejaculated semen of fighting bulls. Journal: Reproduction in Domestic Animals."

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: Expert Reviewer of Research Grants

Affiliation entity: Agencia Estatal de Investigación: Madrid, ES

Start date: 01/12/2020

Organization of R&D activities

- 1** **Title of the activity:** Andrology: Reproduction and health during a man's lifetime
Type of activity: Postgraduate course
City of event: Linköping, Sweden
Convening entity: Linköping University
City convening entity: Linköping, Sweden
Type of participation: Organiser
Nº assistants: 60
Start-End date: 23/08/2017 - 24/08/2017
Geographical area: European Union
Type of entity: University
Duration: 2 days
- 2** **Title of the activity:** Environmental impact on reproduction and fertility
Geographical area: European Union
City of event: Linköping, Sweden
Convening entity: Linköping University
City convening entity: Linköping, Sweden
Type of participation: Organiser
Nº assistants: 60
Start date: 22/08/2018
Type of entity: University
Duration: 2 days

National and international forums and committees

Name of the forum: Asociación Española de Reproducción Animal (AERA)

Professional category: Vocal of the Board

Organising entity: Asociación Española de Reproducción Animal (AERA)

City organizing entity: Murcia, Spain

Start date: 2022



Evaluation and revision of R&D projects and articles

Name of the activity: Journal Reviewer SCI

Performed tasks: >250 articles SCI revised

Start date: 2014

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Yamanashi University
City of entity: Kofu-City, Japan
Start-End date: 01/02/2017 - 30/06/2017 **Duration:** 5 months
Goals of the stay: Post-doctoral
- 2** **Entity:** Linköping University **Type of entity:** University
Faculty, institute or centre: IKE, BKH, O&G
City of entity: Linköping, Sweden
Start-End date: 01/08/2014 - 31/07/2015 **Duration:** 1 year
Goals of the stay: Post-doctoral
- 3** **Entity:** Universidad de Murcia **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
City of entity: Murcia, Region of Murcia, Spain
Start-End date: 01/05/2015 - 31/05/2015 **Duration:** 1 month
Goals of the stay: Guest
- 4** **Entity:** UNIVERSIDAD DE SHEFFIELD **Type of entity:** University Centres and Structures and Associated Bodies
Faculty, institute or centre: Academic Unit of Reproductive and Developmental Medicine, Department of Human Metabolism, The Medical School
City of entity: SHEFFIELD, South Yorkshire, United Kingdom
Start-End date: 01/02/2012 - 31/03/2012 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: VISITING RESEARCHER
- 5** **Entity:** ZOOLOGICAL SOCIETY OF LONDON (ZSL) **Type of entity:** R&D Centre
Faculty, institute or centre: ZOO DE LONDRES
City of entity: LONDRES, Inner London, United Kingdom
Start-End date: 01/09/2011 - 31/12/2011 **Duration:** 4 months
Goals of the stay: Doctorate
Provable tasks: VISITING RESEARCHER



Obtained grants and scholarships

- 1** **Name of the grant:** Juan de la Cierva Incorporación. IJCI-2015-24380
Aims: Post-doctoral
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ciencia Investigación
Conferral date: 01/04/2018 **Duration:** 2 years
End date: 31/03/2020
Entity where activity was carried out: Universitat Autònoma de Barcelona
Faculty, institute or centre: Facultad de Veterinaria
- 2** **Name of the grant:** WENNER-GREEN FOUNDATIONS Travel Grant: Conference Attendance. ESDAR 2019
Aims: Conference: Travel Grant
Awarding entity: WENNER-GREEN FOUNDATIONS
Conferral date: 19/09/2019
End date: 22/09/2019
Entity where activity was carried out: University of Linköping, Sweden
- 3** **Name of the grant:** WENNER-GREEN FOUNDATIONS Travel Grant: Conference Attendance. AERA 2017
Aims: Conference: Travel Grant
Awarding entity: WENNER-GREEN FOUNDATIONS
Conferral date: 24/04/2017
End date: 24/04/2017
Entity where activity was carried out: University of Linköping, Sweden
- 4** **Name of the grant:** WENNER-GREEN FOUNDATIONS Travel Grant: Conference Attendance. ESDAR 2016
Aims: Conference: Travel Grant
Awarding entity: WENNER-GREEN FOUNDATIONS
Conferral date: 27/10/2016
End date: 29/10/2016
Entity where activity was carried out: University of Linköping, Sweden
- 5** **Name of the grant:** Research Grant Knut och Alice Wallenbergs Stiftelse
Aims: Post-doctoral
Awarding entity: Knut och Alice Wallenbergs Stiftelse **Type of entity:** Foundation
Conferral date: 01/05/2015
End date: 31/05/2015
Entity where activity was carried out: Universidad de Murcia
Faculty, institute or centre: Facultad de Veterinaria
- 6** **Name of the grant:** FPI grant (Formación del Personal Investigador)
Aims: Pre-doctoral
Awarding entity: PhD fellow
Conferral date: 01/11/2008 **Duration:** 4 years
End date: 31/10/2012
Entity where activity was carried out: Universidad de León



Faculty, institute or centre: Faculty of Veterinary

7 Name of the grant: Collaboration grant Department of Animal Physiology

Aims: Collaboration Grant

Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Conferral date: 01/01/2006

End date: 30/06/2006

Entity where activity was carried out: Universidad de León

Faculty, institute or centre: Facultad de Veterinaria

8 Name of the grant: Ramón y Cajal. RYC2020-028615-I.

Aims: Post-doctoral

Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ciencia Investigación

Conferral date: 29/11/2021

Duration: 5 years

Entity where activity was carried out: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)

Faculty, institute or centre: Department of Animal Reproduction

9 Name of the grant: JSPS-Short Term Fellowship

Aims: Post-doctoral

Awarding entity: Japanese Society for Promotion of Science (JSPS) **Type of entity:** Public Research Body

Conferral date: 01/02/2017

Duration: 5 months

Entity where activity was carried out: Yamanashi UNiversit, Kofu-city, Yamanashi, Japan

Scientific societies and professional associations

1 Name of the society: AETE (Association of Embryo Technology in Europe)

Start date: 01/01/2019

2 Name of the society: ESHRE (European Society Of Human Reproduction and Embryology)

Start date: 01/01/2017

3 Name of the society: Svenska Läkaresällskapet - Swedish Society of Medicine

Start date: 01/01/2016

4 Name of the society: AERA (Asociación Española de Reproducción Animal)

City affiliation entity: Spain

Start date: 01/01/2014

5 Name of the society: ESDAR (European Society of Domestic Animal Reproduction)

Start date: 01/01/2014



Editorial councils

- 1** **Name of the editorial council:** Spermatology: Methods and Protocols.
<https://link.springer.com/book/9781071644058>
Affiliation entity: Springer - Nature
City affiliation entity: Humana New YorkHumana New York, United States of America
Tasks carried out: Editor of a Book in the lab protocol series Methods in Molecular Biology
Start date: 01/01/2023 **Duration:** 2 years - 4 months
- 2** **Name of the editorial council:** Research Topic Editor: New Advances in our Understanding of Fertilization
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland
Start date: 16/11/2021
- 3** **Name of the editorial council:** Research Topic Editor: Cryopreservation of Mammalian Gametes and Embryos: Implications of Oxidative and Nitrosative Stress and Potential Role of Antioxidants
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland
Start date: 25/05/2021
- 4** **Name of the editorial council:** Research Topic Editor: The Advances in Semen Evaluation
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland
Start date: 15/07/2020
- 5** **Name of the editorial council:** Editorial Board Member in Animals
Affiliation entity: MDPI
City affiliation entity: BaselBasel, Switzerland
- 6** **Name of the editorial council:** Guest Associate Editor in Frontiers in Veterinary Science: Animal Reproduction -Theriogenology
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland
- 7** **Name of the editorial council:** Guest Editor in Animals: Epigenomics of Livestock Gametes and Embryo Development
Affiliation entity: MDPI
City affiliation entity: BaselBasel, Switzerland
- 8** **Name of the editorial council:** Guest Editor in International Journal of Molecular Sciences: Molecular Determinants of Seminal Plasma on Sperm Biology and Fertility
Affiliation entity: MDPI
City affiliation entity: BaselBasel, Switzerland
- 9** **Name of the editorial council:** Review Editor in Frontiers in Genetics: Livestock Genomics
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland



10 Name of the editorial council: Review Editor in Frontiers in Physiology: Reproductive and Mating Physiology
Affiliation entity: Frontiers
City affiliation entity: LausanneLausanne, Switzerland

11 Name of the editorial council: Section Board Member in Animals
Affiliation entity: MDPI
City affiliation entity: BaselBasel, Switzerland

Prizes, mentions and distinctions

Description: Recognition for Young Researchers at INIA-CSIC
Awarding entity: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
City awarding entity: Madrid, Community of Madrid, Spain
Conferral date: 21/12/2023

Obtained accreditations/recognitions

- 1 Description:** AQU Acreditació de Recerca Avançada. Agregat. 11589
Accrediting entity: Agencia Catalana de Acreditació **Type of entity:** AQU
AQU
City accrediting entity: Barcelona, Catalonia, Spain
Date of recognition: 2021
- 2 Description:** Docent in Cell and Molecular Biology of Reproduction. Associate professor Accreditation.
Accrediting entity: Linköping University **Type of entity:** University
City accrediting entity: Linköping, Sweden
Date of recognition: 2020
- 3 Description:** ANECA. Acreditación de Profesor Contratado Doctor y Profesor de Universidad Privada. 2019/05168.
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Ministerio de Ciencia, Innovación y de la Calidad y Acreditación Universidades.
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 14/10/2019
- 4 Description:** Research Excellency I3-Program. I3/2019/0830
Accrediting entity: Ministerio de Ciencia e **Type of entity:** AEI
Innovación. Investigación
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 2019
- 5 Description:** ANECA. Acreditación de Profesor Ayudante Doctor. 2016-10805.
Accrediting entity: Agencia Nacional de Evaluación **Type of entity:** Ministerio de Educación, Cultura y de la Calidad y Acreditación Deportes.
City accrediting entity: Madrid, Community of Madrid, Spain
Date of recognition: 09/02/2017



Summary of other achievements

- 1** **Description of the achievement:** Interview in the newsletter. Forskning och Utveckling
Accrediting entity: Newsletter Forskning och Utveckling
City accrediting entity: Linköping, Sweden
Conferral date: 2018
- 2** **Description of the achievement:** Interview in the newspaper. Japanese Society for Promotion of Science
Accrediting entity: Newsletter JSPS
City accrediting entity: Stockholm, Sweden
Conferral date: 2018
- 3** **Description of the achievement:** Interview in the newspaper. Diario de León
Accrediting entity: Newspaper Diario de León
City accrediting entity: León, Castile and León, Spain
Conferral date: 09/10/2012