



Inmaculada Casas Flecha

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Summary of CV

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

Ha trabajado en el diagnóstico y caracterización de infecciones víricas y participa en diferentes estudios en donde se implican los virus como agentes etiológicos.

-En 2001 se vinculó al Laboratorio de Gripe y Virus Respiratorios del Centro Nacional de Microbiología en donde ha desarrollado sistemas de detección y caracterización de diferentes genes virales de virus asociados a infección respiratoria y con especial atención al virus de la gripe (44 prototipos). Coordina la vigilancia virológica mediante secuenciación genómica del SARS-CoV-2 en España, la red de vigilancia de la gripe en España, dentro del Sistema de Vigilancia de la Gripe. Además, investiga Virus Respiratorios diferentes a Gripe y las alertas sanitarias con implicaciones en Salud Pública: gripe aviar, Coronavirus, virus con salto de la barrera interespecie. Punto focal de Microbiología, Punto Focal Nacional de Gripe, y actualmente Punto Focal de SARS-CoV-2 representando a España en el ECDC, OMS.

-Fue miembro de la Unidad de Alertas y Emergencias del ISCIII desde su fundación en 2003 hasta 2008.

-Participa regularmente en los Comités Científico-Técnicos y en la Ponencia de Alertas y Emergencias que el Ministerio de Sanidad convoca ante eventos de compromiso de Salud Pública, destacando su participación como experto en el Comité Científico en la pandemia del COVID-19. Es Secretaria de la Sociedad Española de Virología y Miembro del Claustro Científico del ISCIII

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.

Investigador Científico del OPIs, Responsable de Unidad. Directora Centro Nacional de Gripe OMS. Sexenios: 4 (CNEAI: 1ro CNEAI17/04117, CNEAI18/06736. Quinquenios: 5 (CEDACT).
-Autora de 162 artículos científicos. Índice h= 38 WebScience Core, excluyendo autocitas es 35. Índice h=40 (Google Scholar).
-Inventora de 3 patentes cuya titularidad es del ISCIII. -Miembro de equipo de investigación de 35 proyectos financiados por diferentes organismos nacionales e internacionales, públicos y privados. Investigador Principal de 18 en donde se estudian los virus respiratorios y sus infecciones, 15 en población pediátrica. Destacan: 2 proyectos europeos (HERA-Incubator-Grant/2021/PHF/23776, I-MOVE COVID19) para investigación del SARS CoV2 asociado a la COVID-19, 1 proyecto europeo para investigación del SARS CoV de 2003, 2 Acciones Concertadas Europeas en los programas BIOMED-1 y BIOMED-2, 5 financiados por el Fondo COVID-19 del ISCIII, 5 por el Fondo de Investigación Sanitaria, 4 por la acción intramural AECl del ISCIII y 1 por el Programa de investigación estratégica sobre gripe A/H1N1pdm09. Personal contratado obtenido en diferentes Programas: 15 personas.
-Punto focal de Microbiología representando a España en el ECDC y OMS.
-Coordina 3 redes de vigilancia e investigación en SARS-CoV-2 (RELECOV), gripe y virus respiratorios (RELEG), una nacional y otra internacional
-Participa regularmente en los Comités de expertos Científico-Técnicos y en la Ponencia de Alertas y Emergencias que el Ministerio de Sanidad convoca ante eventos de compromiso de Salud Pública
-Adscrita al Instituto Mixto de Investigación-Escuela Nacional de Sanidad (IMIENS). Coordinadora de una asignatura en el Master de Enfermedades Infecciosas y Salud Pública (ISCIII y Universidad de Alcalá) y una asignatura en el Master de Virología (Universidad Complutense Madrid)
-Evaluadora de proyectos de investigación en la ANECA, Junta de Castilla y León y Junta de Andalucía y Evaluadora de artículos científicos en 12 revistas científicas diferentes.



Inmaculada Casas Flecha

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 Name: Inmaculada
 ORCID: 0000-0003-1840-1198
 ScopusID: 170224-005973
 ResearcherID: H-9442-2015
 Contact aut. region/reg.: Community of Madrid

Current professional situation

Employing entity: Instituto de Salud Carlos III

Department: Laboratorio de Referencia e Investigación en Virus Respiratorios, Centro Nacional de Microbiología

Professional category: Investigador Científico **Educational Management (Yes/No):** No

City employing entity: Madrid, Spain

Phone: (34) 918223415 - 23415

Email: icasas@isciii.es

Start date: 16/02/2021

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 242008 - Respiratory viruses

Performed tasks: Gripe humana y animal. Vigilancia de su circulación. Antigripales, resistencias virales. Vacunas Virus respiratorios: Gripe, Coronavirus-SARS, Coronavirus MERS, Adenovirus, Metapneumovirus humano, Virus Respiratorio Sincitial, Parainfluenzavirus, Rinovirus, Bocavirus humano Virus respiratorios emergentes Diagnostico y referencia de infecciones víricas respiratorias Nuevos métodos moleculares para la detección y caracterización de virus respiratorios Biodefensa y virus Nuevos métodos serológicos aplicados a virología humana

Identify key words: Molecular mechanism of disease; Cell culture; Virus cultivation; Virology

Field of management activity: Public Research Body

Employing entity: Instituto de Salud Carlos III

Department: Laboratorio de Referencia e Investigación en Virus Respiratorios, Centro Nacional de Microbiología

Professional category: Científico Titular OPs **Educational Management (Yes/No):** No

City employing entity: Madrid, Spain

Phone: (34) 918223415 - 23415

Email: icasas@isciii.es

Start date: 02/12/2011

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 242008 - Respiratory viruses

Performed tasks: Gripe humana y animal. Vigilancia de su circulación. Antigripales, resistencias virales. Vacunas Virus respiratorios: Gripe, Coronavirus-SARS, Coronavirus MERS, Adenovirus, Metapneumovirus humano, Virus Respiratorio Sincitial, Parainfluenzavirus, Rinovirus, Bocavirus humano Virus respiratorios emergentes Diagnostico y referencia de infecciones víricas respiratorias Nuevos métodos moleculares para la detección y caracterización de virus respiratorios Biodefensa y virus Nuevos métodos serológicos aplicados a virología humana

Identify key words: Molecular mechanism of disease; Cell culture; Virus cultivation; Virology

Field of management activity: Public Research Body

Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto de Salud Carlos III	Investigador Titular OPIs	17/02/2006
2	Instituto de Salud Carlos III	Contrato laboral titulado superior doctor	26/06/2003
3	Instituto de Salud Carlos III	Titulado superior Especialista MPY/1251/00	06/11/2000
4	Instituto de Salud Carlos III	Beca posdoctoral intramural ISCIII 97/4165	01/01/1997
5	Instituto de Salud Carlos III	Titulado Superior Especialista PETRI 95/032	22/07/1996
6	Instituto de Salud Carlos III	Beca de ampliación de estudios BAE	01/07/1995
7	Instituto de Salud Carlos III	Beca posdoctoral Convenio colaboración	15/09/1994
8	Universidad de Manchester	Becaria posdoctoral	01/05/1994
9	Royal Society of London-Universidad de Manchester	Becaria posdoctoral	01/05/1993
10	Instituto de Salud Carlos III	Beca predoctoral ISCIII	01/09/1989

- 1** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Laboratorio de Referencia e Investigación en Virus Respiratorios, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Investigador Titular OPIs **Educational Management (Yes/No):** No
Phone: (34) 918223415 - 23415 **Email:** icasas@isciii.es
Start-End date: 17/02/2006 - 01/12/2011 **Duration:** 5 years - 8 months
Type of contract: Civil servant
Dedication regime: Full time
Identify key words: Molecular mechanism of disease; Cell culture; Virus cultivation; Clinical biology; Virology; Serology
Field of management activity: Public Research Body
- 2** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Unidad de Alertas-Virología, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Contrato laboral titulado superior doctor **Educational Management (Yes/No):** No
Start-End date: 26/06/2003 - 07/03/2006 **Duration:** 2 years - 8 months - 11 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: Alerta microbiológica de trascendencia en salud Pública
Field of management activity: Public Research Body
- 3** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Área de Virología, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Titulado superior Especialista MPY/1251/00 **Educational Management (Yes/No):** No
Start-End date: 06/11/2000 - 25/06/2003



Duration: 2 years - 7 months - 15 days

Type of contract: Temporary employment contract

Dedication regime: Full time

Field of management activity: Public Research Body

- 4** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Virología, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Beca posdoctoral intramural ISCIII 97/4165 **Educational Management (Yes/No):** No
Start-End date: 01/01/1997 - 05/11/2000 **Duration:** 3 years - 10 months - 5 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Field of management activity: Public Research Body
- 5** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Professional category: Titulado Superior Especialista PETRI 95/032 **Educational Management (Yes/No):** No
Start-End date: 22/07/1996 - 31/12/1996 **Duration:** 1 year - 6 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: Public Research Body
- 6** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Virología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Beca de ampliación de estudios BAE **Educational Management (Yes/No):** No
Start-End date: 01/07/1995 - 30/06/1996 **Duration:** 1 year
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of management activity: Public Research Body
- 7** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Virología, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Beca posdoctoral Convenio colaboración **Educational Management (Yes/No):** No
Start-End date: 15/09/1994 - 30/06/1995 **Duration:** 9 months - 15 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Field of management activity: Public Research Body
- 8** **Employing entity:** Universidad de Manchester
Department: Division of Virology, Pathological Sciences
City employing entity: Manchester, Greater Manchester, United Kingdom
Professional category: Becaria posdoctoral **Educational Management (Yes/No):** No
Start-End date: 01/05/1994 - 31/08/1994 **Duration:** 4 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Field of management activity: University



- 9** **Employing entity:** Royal Society of London-Universidad de Manchester **Type of entity:** University
Department: Division of Virology, Pathological Sciences
City employing entity: Manchester, Greater Manchester, United Kingdom
Professional category: Becaria posdoctoral **Educational Management (Yes/No):** No
Start-End date: 01/05/1993 - 30/04/1994 **Duration:** 1 year
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Field of management activity: University
- 10** **Employing entity:** Instituto de Salud Carlos III **Type of entity:** Public Research Body
Department: Virología, Centro Nacional de Microbiología
City employing entity: Madrid, Community of Madrid, Spain
Professional category: Beca predoctoral ISCIII **Educational Management (Yes/No):** No
Start-End date: 01/09/1989 - 31/12/1992 **Duration:** 3 years - 3 months - 31 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Field of management activity: Public Research Body



Education

University education

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

University degree: Higher degree
Name of qualification: Licenciada en Farmacia
Degree awarding entity: Universidad Complutense de Madrid
Date of qualification: 01/07/1987

Doctorates

Doctorate programme: Doctorado en Microbiología y Parasitología
Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University
City degree awarding entity: Madrid, Community of Madrid, Spain
Date of degree: 26/04/1993
Thesis title: Caracterización de la respuesta de anticuerpos a nivel sistémico e intratecal y detección de virus en las infecciones del sistema nervioso central producidas por virus herpes neurotrópicos
Thesis director: Julio Casal Lombos
Obtained qualification: Apto cum laude

Language skills

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

Teaching experience

General teaching experience

- 1 Name of the course:** Humana 2
University degree: Master de Virología, Asignatura Humana 2
Start date: 02/09/2013 **End date:** 14/02/2017
Entity: Universidad Complutense de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Veterinaria
- 2 Name of the course:** Modulo de Vacunas
University degree: Master de Enfermedades Infecciosas y Salud Pública, Materia 8-Vacunas
Start date: 01/09/2014 **End date:** 09/02/2017



Entity: Universidad de Alcalá

Type of entity: University

3 Name of the course: Humana 1

University degree: Master de Virologia, Asignatura Humana 1

Start date: 02/02/2015

End date: 02/02/2017

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Veterinaria

4 Type of teaching: Official teaching

Name of the course: Metodos en Virologia

Type of programme: Doctorate

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Master de Virologia, Asignatura A3-Metodos en Virologia

Start date: 07/10/2013

End date: 01/07/2015

Entity: Universidad Complutense de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Veterinaria

5 Name of the course: Infecciones Respiratorias, Zoonoicas

University degree: Master de Enfermedades Infecciosas y Salud Publica, Materia 7-Infec Respiratorias, Zoonoticas

Start date: 01/09/2014

Entity: Universidad de Alcalá

Type of entity: University

6 Name of the course: Virologia

University degree: Programa de Doctorado

Start date: 1998

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Medicina

7 University degree: Programa de Doctorado

Entity: Universidad Complutense de Madrid

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

1 Project title: Tesis Doctoral: Estudio y caracterización del microbioma viral en pacientes pediátricos con infección aguda del tracto respiratorio (Tesis Doctoral)

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Maria de la Montaña Iglesias

Date of reading: 22/11/2019

2 Project title: TFM; Diseño y Estandarización de técnicas moleculares para la caracterización y el estudio filogenético de los rinovirus (TFM)

Entity: Universidad Complutense de Madrid

Type of entity: University

Student: Patricia Madrazo Clemente

Date of reading: 09/09/2019

3 Project title: TFM: Estudio de Metapneumovirus en pacientes pediátricos (TFM)

Entity: Universidad Autónoma de Madrid

Type of entity: University

Student: Ana Lorenzo

Date of reading: 24/09/2018



- 4** **Project title:** TFG: Estudio virológico y serológico de la Influenza en suidos domésticos y silvestres
Entity: Universidad de Alcalá **Type of entity:** University
Student: Sara Estefania Campos Segado
Date of reading: 21/06/2018
- 5** **Project title:** TFG: Cuantificación de Rinovirus en pacientes pediátricos
Type of project: Minor thesis
Entity: Universidad de Alcalá **Type of entity:** University
Student: Hector
Date of reading: 15/09/2014
- 6** **Project title:** TFM: Estudio de Adenovirus, Gripe y Coronavirus en murciélagos ibéricos (Master de Virología)
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Isabel Rodriguez Milara
Date of reading: 01/07/2014
- 7** **Project title:** Tesis Doctoral: Desarrollo de Métodos Genéricos de Amplificación Genómica y Aplicación en el Diagnóstico de Infección por Herpesvirus en Patología Humana y Animal (Tesis Doctoral)
Type of project: Doctoral thesis
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Francisco Pozo Sanchez
Date of reading: 2007
- 8** **Project title:** TFG: Estancia alumno último año de carrera
Type of project: End of course project
Entity: Universidad Complutense de Madrid **Type of entity:** University
Student: Laura Hernandez Bustillo
Date of reading: 19/08/2005

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Curso de Formación Continua
Name of the event: Curso de Formación Continua Virología Biosanitaria
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Hours of teaching: 2
Teaching date: 10/05/2018
- 2** **Type of event:** Curso de Formación Continua
Name of the event: Curso de Formación Continua Virología Biosanitaria
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
Hours of teaching: 2
Teaching date: 08/06/2017



Other activities/achievements not included above

- 1 Description of the activity:** Adscripción al Instituto Mixto de Investigación-Ecuela Nacional de Sanidad (IMIENS)
Organising entity: Universidad Nacional de Educación a Distancia **Type of entity:** University
End date: 31/12/2030
- 2 Description of the activity:** Coordinacion Master de Enfermedades Infecciosas y Salud Publica. Coordinador Materia 7. Módulo II. ENFERMEDADES RESPIRATORIAS, ZONÓTICAS Y TRANSMITIDAS POR VECTORES
City of activity: Madrid,
Organising entity: Universidad de Alcalá **Type of entity:** University
End date: 02/09/2019
- 3 Description of the activity:** Coordinacion de asignatura A3 Master de Virologia
Organising entity: Universidad Complutense de Madrid **Type of entity:** University
End date: 01/07/2015

Healthcare experience

Healthcare experience in EU entities

- 1 Relevant results:** Punto Focal Nacional de Microbiologia
Entity: ECDC **Type of entity:** Comision Europea
Affiliation entity: Comision Europea
Start-End date: 06/2009 - 02/06/2014
- 2 Relevant results:** Punto Focal para SARS-CoV-2
Entity: ECDC
Start date: 2020
- 3 Relevant results:** Punto Focal Programa Influenza
Entity: ECDC
Start date: 2009

Healthcare experience in the WHO

Relevant results: Directora
Entity: Centro Nacional de Gripe de OMS
Start date: 01/2011



Scientific and technological experience

Research and development groups/teams

Name of the group: Centro de Investigación Biomédica en Red de Epidemiología y Salud Pública (CIBERESP)
Standardised code: CB06/02/0007
Affiliation entity: Instituto de Salud Carlos III
Start date: 14/10/2020
Type of entity: CIBER

Scientific or technological activities

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

- 1** **Name of the project:** Enhancing Whole Genome Sequencing (WGS) and/or Reverse Transcription Polymerase Chain Reaction (RT-PCR) national infrastructures and capacities to respond to the Covid-19 pandemic in Spain
Entity where project took place: Instituto de Salud Carlos III
Type of entity: Public Research Body
City of entity: MADRID, Spain
Name principal investigator (PI, Co-PI....): Casas
Nº of researchers: 129
Funding entity or bodies: Union Europea-Grant/2021/PHF/23776
Start-End date: 03/09/2021 - 30/09/2022
Total amount: 5.484.986,04 €
- 2** **Name of the project:** Multidisciplinary European network for research, prevention and control of the COVID-19 Pandemic ' — 'I-MOVE-COVID-19' ('action')
Entity where project took place: Centro Nacional Microbiología-Instituto de Salud Carlos III
Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha
Nº of researchers: 5
Funding entity or bodies: European Union
Start-End date: 16/03/2020 - 15/06/2022
Total amount: 100.000 €
- 3** **Name of the project:** Asociación de los distintos perfiles del viroma, la microbiota y la respuesta inmune con la gravedad de la bronquiolitis viral aguda y con el desarrollo de sibilancias recurrentes.
Entity where project took place: Universidad Alfonso X El Sabio-CNM ISCIII
Nº of researchers: 12
Type of participation: Team member
Start-End date: 01/01/2019 - 31/12/2021
Total amount: 30.000 €



- 4** **Name of the project:** Los virus respiratorios en las IRAs de recién nacidos y pacientes pediátricos: asociación con la gravedad del episodio agudo y con el desarrollo de asma y sibilancias recurrentes a largo plazo
Entity where project took place: Centro Nacional Microbiología-Instituto de Salud Carlos III
Nº of researchers: 8
Type of participation: Principal investigator
Start-End date: 01/01/2019 - 31/12/2021 **Duration:** 3 years
Total amount: 88.000 €
- 5** **Name of the project:** Coordinación de actividades de investigación en el CNM para realizar una respuesta integradora frente a la pandemia por SARS-CoV2 en España
Entity where project took place: Centro Nacional Microbiología-Instituto de Salud Carlos III
Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha
Nº of researchers: 14
Start-End date: 13/05/2020 - 12/05/2021
Total amount: 325.909,46 €
- 6** **Name of the project:** Multi-center, Randomized Clinical Trial of Convalescent Plasma Therapy Versus Standard of Care for the Treatment of COVID-19 in Hospitalized Patients. ConPlas-19. COV20/00072
Entity where project took place: Instituto de Salud Carlos III-HU Puerta de Hierro
Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha
Nº of researchers: 8
Funding entity or bodies:
CENTRO DE ACUSTICA APLICADA Y **Type of entity:** Associations and Groups
EVALUACION NO DESTRUCTIVA
Start-End date: 23/03/2020 - 22/03/2021
Total amount: 446.760 €
- 7** **Name of the project:** Estudio de la carga viral de SARS-CoV-2 en vías respiratorias y sangre como factor asociado al pronóstico de la COVID-19 en adultos.
Entity where project took place: Hospital Virgen del Rocio-CNM ISCIII
Name principal investigator (PI, Co-PI....): Javier Sanchez Cespedes
Funding entity or bodies:
Instituto de Salud Carlos III **Type of entity:** Public Research Body
Start-End date: 04/05/2020 - 04/01/2021
- 8** **Name of the project:** Multicenter study of coronavirus disease 2019 (COVID-2019) in Solid Organ Transplant Recipients
Entity where project took place: Hospital Virgen del Rocio-CNM ISCIII
City of entity: Hospital Virgen del Rocio,
Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha
Start-End date: 04/05/2020 - 04/01/2021
- 9** **Name of the project:** Metagenómica viral aplicada al estudio de la infección aguda grave del tracto respiratorio inferior
Entity where project took place: Centro Nacional Microbiología-Instituto de Salud Carlos III
Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha
Nº of researchers: 8
Funding entity or bodies:
Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain



Type of participation: Principal investigator
Name of the programme: Intramural
Code according to the funding entity: PI15CIII/00028
Start-End date: 01/01/2016 - 31/12/2018 **Duration:** 3 years
Total amount: 125.815 €
Dedication regime: Full time

10 Name of the project: Microbioma viral en pacientes pediátricos con infección aguda grave del tracto respiratorio inferior

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha

Nº of researchers: 8

Funding entity or bodies:

CENTRO DE ACUSTICA APLICADA Y
EVALUACION NO DESTRUCTIVA

Type of entity: Associations and Groups

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Code according to the funding entity: PI12/01291

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

Duration: 3 years

Total amount: 122.815 €

11 Name of the project: Iberian network of laboratories of biological alert. Accreditation of methods for detection of highly pathogenic agents/IB-bioalertnet

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

Name principal investigator (PI, Co-PI....): Carmen Cañavate

Funding entity or bodies:

UE. HOME/2012/ISEC/AG/CBRN/40

Start-End date: 01/04/2013 - 01/09/2015

12 Name of the project: Infecciones virales respiratorias y estudio de los factores asociados al desarrollo de sibilancias recurrentes en una cohorte de niños de la Comunidad de Madrid

Entity where project took place: Hospital Severo ochoa **Type of entity:** Healthcare Institutions

City of entity: Madrid, Spain

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

Nº of researchers: 8

Funding entity or bodies:

Asociación Española de Pediatría

Type of entity: Associations and Groups

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 06/2012 - 06/2015

Total amount: 50.000 €

13 Name of the project: Protocol for case control study measuring Influenza vaccine effectiveness in Spain (part of a multicentre study with other EU/EAA countries)

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

City of entity: madrid, Spain



Name principal investigator (PI, Co-PI....): Amparo Larrauri

Nº of researchers: 6

Funding entity or bodies:

Comisión Europea

Type of entity: ECDC

City funding entity: Madrid, Community of Madrid, Spain

Start-End date: 09/2008 - 09/2014

Total amount: 49.986 €

14 Name of the project: Infecciones respiratorias agudas graves en población infantil: ¿Cual es el papel etiológico de los virus respiratorios detectados?

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha

Nº of researchers: 6

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

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

Total amount: 92.564 €

15 Name of the project: Infecciones respiratorias agudas asociadas a nuevos virus respiratorios: características virológicas, clínicas y epidemiológicas

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha

Nº of researchers: 9

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start-End date: 10/2006 - 12/2009

Total amount: 199.045 €

16 Name of the project: Caracterización molecular de adenovirus detectados en muestras clínicas de pacientes con infección respiratoria viral

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha

Nº of researchers: 2

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start-End date: 05/2006 - 05/2008

Total amount: 55.500 €



- 17** **Name of the project:** Viriasis Respiratorias: I.- Desarrollo de métodos virológicos y epidemiológicos para su estudio. II.- Estudios funcionales de proteínas virales variantes como herramienta de control sanitario
Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Pilar Perez Breña
Nº of researchers: 7
Funding entity or bodies: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain
Start-End date: 04/2004 - 04/2007
Total amount: 534.970,2 €
- 18** **Name of the project:** Development of intervention strategies against SARS in a European-Chinese taskforce (Acronym: DISSECT)
Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City of entity: madrid, Spain
Name principal investigator (PI, Co-PI....): Luis Enjuanes; Pilar Perez Breña
Nº of researchers: 4
Funding entity or bodies: Comisión Europea **Type of entity:** union europea
City funding entity: Madrid, Community of Madrid, Spain
Start-End date: 2004 - 2007
Total amount: 400.000 €
- 19** **Name of the project:** La infección respiratoria en el siglo XXI: conocimiento de los microorganismos implicados en una posible alerta sanitaria
Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Pilar Perez Breña
Nº of researchers: 3
Funding entity or bodies: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain
Start-End date: 12/2003 - 12/2006
Total amount: 12.500 €
- 20** **Name of the project:** Incorporación de nuevas técnicas moleculares para la caracterización de virus Influenza de posible carácter pandémico como parte esencial del sistema de vigilancia de la gripe en España.
Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Pilar Perez Breña
Nº of researchers: 3
Funding entity or bodies: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City funding entity: Majadahonda, Community of Madrid, Spain



Start-End date: 2000 - 2003

Total amount: 118.900 €

21 Name of the project: Análisis molecular de los Enterovirus no polio asociados a brotes epidémicos de meningitis en España.

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Ana Avellon

Nº of researchers: 3

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start-End date: 05/2002 - 12/2002

Total amount: 8.000 €

22 Name of the project: Estudio y caracterización de virus resistentes a antigripales inhibidores de la neuraminidasa

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

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha; Pilar Perez Breña

Nº of researchers: 3

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start-End date: 07/2001 - 12/2002

Total amount: 12.000 €

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

1 Name of the project: Estudio rápido prospectivo de la incidencia de gripe a e infección asintomática por el virus influenza A(H1N1) en población sanitaria

Degree of contribution: Researcher

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

Nº of researchers: 3

Participating entity/entities: Hospital Costa del Sol; Instituto de Salud Carlos III

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start date: 12/2009

Duration: 3 years

Total amount: 60.000 €

2 Name of the project: Nuevos procedimientos para el diagnóstico y caracterización del virus A(H1N1) pand, esenciales para mejorar la capacidad de la red RELEG, a desarrollar en el laboratorio coordinador de la misma

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

Name principal investigator (PI, Co-PI....): Inmaculada Casas Flecha

Nº of researchers: 3



Participating entity/entities: Instituto de Salud Carlos III

Funding entity or bodies:

Instituto de Salud Carlos III

Type of entity: Public Research Body

City funding entity: Majadahonda, Community of Madrid, Spain

Start date: 12/2009

Duration: 4 years

Total amount: 853.000 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** COMPOSICIÓN Y PROCEDIMIENTO PARA LA EXTRACCIÓN DE ÁCIDOS NUCLEICOS DE FORMA MANUAL Y AUTOMATIZADA
Inventors/authors/obtainers: Sonia Vazquez; Ana Avellon; Inmaculada Casas
Entity holder of rights: Instituto de Salud Carlos III
Nº of application: P202031025
Country of inscription: Spain
Date of register: 09/10/2020
- 2 Title registered industrial property:** Patente de invencion
Inventors/authors/obtainers: Pilar Perez Breña; Maria Teresa Coiras; Inmaculada Casas Flecha
Entity holder of rights: Instituto de Salud Carlos III
Nº of application: P2004/03083
Country of inscription: Spain
Date of register: 24/12/2004
- 3 Title registered industrial property:** Patente de invencion
Inventors/authors/obtainers: Inmaculada Casas Flecha; Antonio Tenorio Matanzo; Jose Manuel Echevarria Mayo
Entity holder of rights: Instituto de Salud Carlos III
Nº of application: PCT96/00031
Country of inscription: Spain
Date of register: 1996
- 4 Title registered industrial property:** Patente de invencion
Inventors/authors/obtainers: Inmaculada Casas Flecha; Antonio Tenorio Matanzo; Jose Manuel Echevarria Mayo
Entity holder of rights: Instituto de Salud Carlos III
Nº of application: P95/00320
Country of inscription: Spain
Date of register: 1995
Companies: Biotoools, B & M Labs, S.A.; C.E. DURVIZ, S.L.; Genómica, S.A.U.

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Melidou A.; Ködmön C.; Nahapetyan K.; Kraus A.; Alm E.; Adlhoch C.; Mooks P.; Dave N.; Carvalho C.; Mesle M.M.I.; Daniels R.; Pebody R.; Tabain I.; Botnen A.B.; Trebbien R.; Ikonen N.; Lyytikäinen O.; Wedde M.; Dürrwald R.; Bennett C.; Connell J.; Puzelli S.; Facchini M.; Meijer A.; Fouchier R.A.M.; Vukovikj M.; Janchevska E.; Bragstad K.; Hungnes O.; Komissarov A.; Stolyarov K.; Pozo F.; Casas I.; Gonçalves A.R.; Spedaliero T.; Moore C.; Cottrell S.. Influenza returns with a season dominated by clade 3C.2a1b.2a.2 A(H3N2) viruses, WHO European Region, 2021/22. Eurosurveillance. 27, 2022. ISSN 1025496X
DOI: 10.2807/1560-7917.ES.2022.27.15.2200255
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 4
- 2 Seasonality of respiratory syncytial virus and its association with meteorological factors in 13 European countries, week 40 2010 to week 39 2019. 2022.
Type of production: Scientific paper
- 3 Avendaño-Solá C.; Ramos-Martínez A.; Muñoz-Rubio E.; Ruiz-Antorán B.; De Molina R.M.; Torres F.; Fernández-Cruz A.; Calderón-Parra J.; Payares-Herrera C.; De Santiago A.D.; Romera-Martínez I.; Pintos I.; Lora-Tamayo J.; Mancheño-Losa M.; Paciello M.L.; Martínez-González A.L.; Vidán-Estévez J.; Nuñez-Orantos M.J.; Saez-Serrano M.I.; Porras-Leal M.L.; Jarilla-Fernández M.C.; Villares P.; De Oteyza J.P.; Ramos-Garrido A.; Blanco L.; Madrigal-Sánchez M.E.; Rubio-Batlles M.; Velasco-Iglesias A.; Paño-Pardo J.R.; Moreno-Chulilla J.A.; Muñoz-Díaz E.; Casas-Flecha I.; Pérez-Olmeda M.; García-Pérez J.; Alcamí J.; Bueno J.L.; Duarte R.F.. A multicenter randomized open-label clinical trial for convalescent plasma in patients hospitalized with COVID-19 pneumonia. Journal of Clinical Investigation. 131, 2021. ISSN 00219738
DOI: 10.1172/JCI152740
Type of production: Scientific paper **Format:** Journal
Source of citations: SCOPUS **Citations:** 33
- 4 Torque Teno Virus in Nasopharyngeal Aspirate of Children With Respiratory Infections. 2022.
Type of production: null
- 5 Garcia-Vidal C; Iglesias-Caballero M; Puerta-Alcalde P; Mas V; Cuesta-Chasco G; Garcia-Pouton N; Varona S; Pozo F; Vázquez-Morón S; Marcos MA; Soriano A; Casas I; HEMATOCVID19-Researchers Group.. Emergence of Progressive Mutations in SARS-CoV-2 From a Hematologic Patient With Prolonged Viral Replication.Frontiers in microbiology. 13, pp. 826883. 2022.
DOI: 10.3389/fmicb.2022.826883
PMID: 35308337
Source of citations: Otros **Citations:** 3
- 6 Cerrada-Romero C; Berastegui-Cabrera J; Camacho-Martínez P; Goikoetxea-Aguirre J; Pérez-Palacios P; Santibáñez S; José Blanco-Vidal M; Valiente A; Alba J; Rodríguez-Álvarez R; Pascual Á; Oteo JA; Miguel Cisneros J; Pachón J; Casas-Flecha I; Cordero E; Pozo F; Sánchez-Céspedes J. Excretion and viability of SARS-CoV-2 in feces and its association with the clinical outcome of COVID-19.Scientific reports. 12, pp. 7397. 2022.

**DOI:** 10.1038/s41598-022-11439-7**PMID:** 35513481

- 7** Meca-Lallana, V.; Aguirre, C.; Diaz Perez, C.; Tejedor Romero, L.; Sobrado, M.; del Rio, B.; Vivancos, J.; Casas Flecha, I.. Humoral Immune Response Against Influenza Vaccine In Patients Treated with Cladribine. *MULTIPLE SCLEROSIS JOURNAL*. 28, 2022. ISSN 1352-4585
- 8** Ruiz S; Calvo C; Pozo F; Casas I; García-García ML. Lung function, allergic sensitization and asthma in school-aged children after viral-coinfection bronchiolitis. *Scientific reports*. 12, pp. 7552. 2022.
DOI: 10.1038/s41598-022-11356-9
PMID: 35534518
- 9** Sainz T; Casas I; González-Esguevillas M; Escosa-Garcia L; Muñoz-Fernández MÁ; Prieto L; Gosalbes MJ; Jiménez-Hernández N; Ramos JT; Navarro ML; Mellado MJ; Serrano-Villar S; Calvo C. Nutritional Supplementation to Increase Influenza Vaccine Response in Children Living With HIV: A Pilot Clinical Trial. *Frontiers in pediatrics*. 10, pp. 919753. 2022.
DOI: 10.3389/fped.2022.919753
PMID: 35928688
- 10** Rodrigo-Muñoz JM; Gil-Martínez M; Lorente-Sorolla C; Sastre B; García-García ML; Calvo C; Casas I; Del Pozo V. Reduced miR-146a-5p Is a Biomarker of Infant Respiratory Diseases Contributing to Immune Dysregulation in Small Airway Epithelial Cells. *Cells*. 11, 2022.
DOI: 10.3390/cells11172746
PMID: 36078154
- 11** 0000-0002-2807-2730; 0000-0002-0439-1200; 0000-0003-2078-8205; 0000-0002-5066-5014; 0000-0002-5691-8625; 0000-0003-1840-1198; 0000-0001-8789-6783. Absence of SARS-CoV-2 RNA detection in tissue samples of COVID-19-related cutaneous lesions analyzed by real-time RT-PCR. *Journal of the European Academy of Dermatology and Venereology*. 35, pp. e318 - e321. 2021. ISSN 09269959
DOI: 10.1111/jdv.17146
Source of citations: SCOPUS **Citations:** 4
- 12** 0000-0002-0439-1200; 0000-0002-2807-2730; García-García M.; Casas-Flecha I.; Matovelle-Ochoa C.; Ara-Martín M.. Granuloma annulare triggered by SARS-CoV-2 infection: Immunohistochemical staining. *Dermatologic Therapy*. 34, 2021. ISSN 13960296
DOI: 10.1111/dth.14897
Source of citations: SCOPUS **Citations:** 7
- 13** Kuhn JH; Adkins S; Agwanda BR; Al Kubrusli R; Alkhovsky SV; Amarasinghe GK; Avšič-Županc T; Ayllón MA; Bahl J; Balkema-Buschmann A; Ballinger MJ; Basler CF; Bavari S; Beer M; Bejerman N; Bennett AJ; Bente DA; Bergeron É; Bird BH; Blair CD; Blasdel KR; Blystad DR; Bojko J; Borth WB; Bradfute S; Breyta R; Briese T; Brown PA; Brown JK; Buchholz UJ; Buchmeier MJ; Bukreyev A; Burt F; Büttner C; Calisher CH; Cao M; Casas I; Chandran K; Charrel RN; Cheng Q; Chiaki Y; Chiapello M; Choi IR; Ciuffo M; Clegg JCS; Crozier I; Dal Bó E; de la Torre JC; de Lamballerie X; de Swart RL; Debat H; Dheilly NM; Di Cicco E; Di Paola N; Di Serio F; Dietzgen RG; Digiaro M; Dolnik O; Drebot MA; Drexler JF; Dundon WG; Duprex WP; Dürrwald R; Dye JM; Easton AJ; Ebihara H; Elbeaino T; Ergünay K; Ferguson HW; Fooks AR; Forgia M; Formenty PBH; Fránová J; Freitas-Astúa J; Fu J; Fűr S; Gago-Zachert S; Gão GF; García ML; García-Sastre A; Garrison AR; Gaskin T; Gonzalez JJ; Griffiths A; Goldberg TL; Groschup MH; Günther S; Hall RA; Hammond J; Han T; Hepojoki J; Hewson R; Hong J; Hong N; Hongo S; Horie M; Hu JS; Hu T; Hughes HR; Hüttner F; Hyndman TH; Ilyas M; Jalkanen R; Jiāng D; Jonson GB; Junglen S; Kadono F; Kaukinen KH; Kawate M; Klempa B; Klingström J; Kobinger G; Koloniuk I; Kondō H; Koonin EV; Krupovic M; Kubota K; Kurath G; Laenen L; Lambert AJ; Langevin SL; Lee B; Lefkowitz EJ; Leroy EM; Li S; Li L; Lǐ J; Liu H; Lukashevich IS; Maes P; de Souza WM; Marklewitz M; Marshall SH; Marzano SL; Massart S; McCauley JW; Melzer M; Mielke-Ehret N; Miller KM; Ming TJ; Mirazimi A; Mordecai GJ; Mühlbach HP; Mühlberger



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PMID: 34463877

Source of citations: Otros

Citations: 14

- 14** Diez-Fuertes, Francisco; Iglesias-Caballero, Maria; Garcia-Perez, Javier; Monzon, Sara; Jimenez, Pilar; Varona, Sarai; Cuesta, Isabel; Zaballos, Angel; Jimenez, Mercedes; Checa, Laura; Pozo, Francisco; Perez-Olmeda, Mayte; Thomson, Michael M.; Alcami, Jose; Casas, Inmaculada. A Founder Effect Led Early SARS-CoV-2 Transmission in Spain. *JOURNAL OF VIROLOGY*. 95, 2021. ISSN 0022-538X

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- 15** Kuhn JH; Adkins S; Agwanda BR; Al Kubrusli R; Alkhovsky SV; Amarasinghe GK; Avšič-Županc T; Ayllón MA; Bahl J; Balkema-Buschmann A; Ballinger MJ; Basler CF; Bavari S; Beer M; Bejerman N; Bennett AJ; Bente DA; Bergeron É; Bird BH; Blair CD; Blasdel KR; Blystad DR; Bojko J; Borth WB; Bradfute S; Breyta R; Briese T; Brown PA; Brown JK; Buchholz UJ; Buchmeier MJ; Bukreyev A; Burt F; Büttner C; Calisher CH; Cao M; Casas I; Chandran K; Charrel RN; Cheng Q; Chiaki Y; Chiapello M; Choi IR; Ciuffo M; Clegg JCS; Crozier I; Dal Bó E; de la Torre JC; de Lamballerie X; de Swart RL; Debat H; Dheilly NM; Di Cicco E; Di Paola N; Di Serio F; Dietzgen RG; Digiaro M; Dolnik O; Drebot MA; Drexler JF; Dundon WG; Duprex WP; Dürrwald R; Dye JM; Easton AJ; Ebihara H; Elbeaino T; Ergünay K; Ferguson HW; Fooks AR; Forgia M; Formenty PBH; Fránová J; Freitas-Astúa J; Fu J; Fűr S; Gago-Zachert S; Gão GF; García ML; García-Sastre A; Garrison AR; Gaskin T; Gonzalez JJ; Griffiths A; Goldberg TL; Groschup MH; Günther S; Hall RA; Hammond J; Han T; Hepojoki J; Hewson R; Hong J; Hong N; Hongo S; Horie M; Hu JS; Hu T; Hughes HR; Hüttner F; Hyndman TH; Ilyas M; Jalkanen R; Jiāng D; Jonson GB; Junglen S; Kadono F; Kaukinen KH; Kawate M; Klempa B; Klingström J; Kobinger G; Koloniuk I; Kondō H; Koonin EV; Krupovic M; Kubota K; Kurath G; Laenen L; Lambert AJ; Langevin SL; Lee B; Lefkowitz EJ; Leroy EM; Li S; Li L; Lǐ J; Liu H; Lukashevich IS; Maes P; de Souza WM; Marklewitz M; Marshall SH; Marzano SL; Massart S; McCauley JW; Melzer M; Mielke-Ehret N; Miller KM; Ming TJ; Mirazimi A; Mordecai GJ; Mühlbach HP; Mühlberger E; Naidu R; Natsuaki T; Navarro JA; Netesov SV; Neumann G; Nowotny N; Nunes MRT; Olmedo-Velarde A; Palacios G; Pallás V; Pályi B; Papa A; Paraskevopoulou S; Park AC; Parrish CR; Patterson DA; Pauvolid-Corrêa A; Pawęska JT; Payne S; Peracchio C; Pérez DR; Postler TS; Qi L; Radoshitzky SR; Resende RO; Reyes CA; Rima BK; Luna GR; Romanowski V; Rota P; Rubbenstroth D; Rubino L; Runstadler JA; Sabanadzovic S; Sall AA; Salvato MS; Sang R; Sasaya T; Schulze AD; Schwemmler M; Shi M; Shí X; Shí Z; Shimomoto Y; Shirako Y; Siddell SG; Simmonds P; Sironi M; Smagghe G; Smither S; Song JW; Spann K; Spengler JR; Stenglein MD; Stone DM; Sugano J; Suttle CA; Tabata A; Takada A; Takeuchi S; Tchouassi DP; Teffer A; Tesh RB; Thornburg NJ; Tomitaka Y; Tomonaga K; Tordo N; Torto B; Towner JS; Tsuda S; Tu C; Turina M; Tzanetakis IE; Uchida J; Usugi T; Vaira AM; Vallino M; van den Hoogen B; Varsani A; Vasilakis N; Verbeek M; von Bargen S; Wada J; Wahl V; Walker PJ; Wang LF; Wang G; Wang Y; Wang Y; Waqas M; Wèi T; Wen S; Whitfield AE; Williams JV; Wolf YI; Wu J; Xu L; Yanagisawa H; Yang C; Yang Z; Zerbini FM; Zhai L; Zhang YZ; Zhang S; Zhang J; Zhang Z; Zhou X. Correction to: 2021 Taxonomic update of phylum Negarnaviricota (Riboviria: Orthornavirae), including the large orders Bunyavirales and Mononegavirales. *Archives of virology*. 166, pp. 3567 - 3579. 2021. ISSN 0304-8608

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- 16** Sánchez García L; Pellicer A; López-Martínez C; García-García ML; Casas I; Pozo F; Calvo C. Respiratory morbidity associated with viral respiratory infections during neonatal stage in premature infants. *Pediatric pulmonology*. 56, pp. 967 - 973. 2021. ISSN 8755-6863
DOI: 10.1002/ppul.25241
PMID: 33406309
Source of citations: Otros **Citations:** 1
- 17** Méndez-Echevarría A; Caminoa MB; Del Rosal T; Casas I; Pozo F; Pascual-Pascual SI; García-Romero M; Cámara C; Calvo C. The Role of Respiratory Viruses in Children with Ataxia-Telangiectasia. *Viruses*. 13, 2021.
DOI: 10.3390/v13050867
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- 127** Francisco Pozo; Inmaculada Casas; Guillermo Ruiz; Ana Falcón; Pilar Pérez Breña. Application of molecular methods in the diagnosis and epidemiological study of viral respiratory infections. *Enfermedades Infecciosas y Microbiología Clínica*. 26 Suppl 9, pp. 15 - 40. 07/2008. ISSN 0213-005X
- 128** Cristina Calvo; Maria Luz García García; Carolina Blanco; M Carmen Vázquez; M Elena Frías; Pilar Pérez Breña; Inmaculada Casas. Multiple simultaneous viral infections in infants with acute respiratory tract infections in Spain. *Journal of Clinical Virology*. 42 - 3, pp. 268 - 340. 07/2008. ISSN 1386-6532
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- 131** Francisco Pozo; Mari Luz García García; Cristina Calvo; Isabel Cuesta; Pilar Pérez Breña; Inmaculada Casas. High incidence of human bocavirus infection in children in Spain. *Journal of Clinical Virology*. 40 - 3, pp. 224 - 232. 11/2007. ISSN 1386-6532
- 132** M L García García; C Calvo Rey; F Pozo Sánchez; M C Vázquez Alvarez; A González Vergaz; P Pérez Breña; I Casas Flecha. Human bocavirus infections in Spanish 0-14 year-old: clinical and epidemiological characteristics of an emerging respiratory virus. *Anales de Pediatría*. 67 - 3, pp. 212 - 221. 09/2007. ISSN 1695-4033
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- 134** Jesus F Bermejo Martin; David J Kelvin; Yi Guan; Honglin Chen; Pilar Perez Breña; Inmaculada Casas; Eduardo Arranz; Raul O de Lejarazu. Neuraminidase antibodies and H5N1: geographic-dependent influenza epidemiology could determine cross-protection against emerging strains. *PLoS Medicine*. 4 - 6, pp. e212. 06/2007. ISSN 1549-1676
- 135** M L García García; C Calvo; I Casas; T Bracamonte; A Rellán; F Gozalo; T Tenorio; P Pérez Breña. Human metapneumovirus bronchiolitis in infancy is an important risk factor for asthma at age 5. *Pediatric Pulmonology*. 42 - 5, pp. 458 - 522. 05/2007. ISSN 8755-6863
- 136** M José Buitrago Serna; Inmaculada Casas Flecha; José M Eiros Bouza; Raquel Escudero Nieto; Cesare Giovanni Fedele; Isabel Jado García; Francisco Pozo Sánchez; José Miguel Rubio Muñoz; M Paz Sánchez Seco Fariñas; Sylvia Valdezate Ramos; José Verdejo Ortes. [Biodefense: a new challenge for microbiology and public health]. *Enfermedades Infecciosas y Microbiología Clínica*. 25 - 3, pp. 190 - 198. 03/2007. ISSN 0213-005X
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- 139** Cristina Calvo; Maria Luz García García; Miriam Centeno; Pilar Pérez Breña; Inmaculada Casas. Influenza C virus infection in children, Spain. *Emerging Infectious Diseases*. 12 - 10, pp. 1621 - 1623. 10/2006. ISSN 1080-6040
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- 147** Inmaculada Casas; Francisco Pozo. SARS, avian influenza, and human metapneumovirus infection. *Enfermedades Infecciosas y Microbiología Clínica*. 23 - 7, pp. 438. 2005. ISSN 0213-005X
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- 154** Ana Avellón; Inmaculada Casas; Gloria Trallero; Carmen Pérez; Antonio Tenorio; Gustavo Palacios. Molecular analysis of echovirus 13 isolates and aseptic meningitis, Spain. *Emerging Infectious Diseases*. 9 - 8, pp. 934 - 975. 08/2003. ISSN 1080-6040



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- 156** G Trallero; I Casas; A Avellón; C Pérez; A Tenorio; A De La Loma. First epidemic of aseptic meningitis due to echovirus type 13 among Spanish children. *Epidemiology and Infection*. 130 - 2, pp. 251 - 257. 04/2003. ISSN 0950-2688
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- 161** G Trallero; I Casas; A Tenorio; J E Echevarría; A Castellanos; A Lozano; P P Breña. Enteroviruses in Spain: virological and epidemiological studies over 10 years (1988-97). *Epidemiology and Infection*. 124 - 3, pp. 497 - 1003. 06/2000. ISSN 0950-2688
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- 170** I Casas; A Tenorio; F de Ory; A Lozano; J M Echevarría. Detection of both herpes simplex and varicella-zoster viruses in cerebrospinal fluid from patients with encephalitis. *Journal of Medical Virology*. 50 - 1, pp. 82 - 174. 09/1996. ISSN 0146-6615
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- 172** I Casas; P E Klapper; G M Cleator; J E Echevarría; A Tenorio; J M Echevarría. Two different PCR assays to detect enteroviral RNA in CSF samples from patients with acute aseptic meningitis. *Journal of Medical Virology*. 47 - 4, pp. 378 - 463. 12/1995. ISSN 0146-6615
- 173** F de Ory; I Casas; C J Domingo; J Echevarría. Application of fluoroimmunoassay to the identification of low avidity specific IgG against pathogenic human viruses and *Toxoplasma gondii*. *Clinical and Diagnostic Virology*. 3 - 4, pp. 323 - 355. 05/1995. ISSN 0928-0197
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- 175** J M Echevarría; I Casas; A Tenorio; F de Ory; P Martínez Martín. Detection of varicella-zoster virus-specific DNA sequences in cerebrospinal fluid from patients with acute aseptic meningitis and no cutaneous lesions. *Journal of Medical Virology*. 43 - 4, pp. 331 - 336. 08/1994. ISSN 0146-6615
- 176** A Tenorio; J E Echevarría; I Casas; J M Echevarría; E Tabarés. Detection and typing of human herpesviruses by multiplex polymerase chain reaction. *Journal of Virological Methods*. 44 - 2-3, pp. 261 - 270. 10/1993. ISSN 0166-0934

Works submitted to national or international conferences

- 1** **Title of the work:** Red Nacional de Vigilancia Epidemiológica
Name of the conference: II Jornada sobre Bronquiolitis en España
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote talk
City of event: Madrid, Spain
Date of event: 2014
Organising entity: MINISTERIO DE SANIDAD Y CONSUMO
Inmaculada Casas Flecha.
- 2** **Title of the work:** Red Nacional de Vigilancia Epidemiológica
Name of the conference: I Jornada sobre Bronquiolitis en España
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote talk
City of event: Madrid, Spain



Date of event: 2013

Organising entity: MINISTERIO DE SANIDAD Y CONSUMO

Inmaculada Casas Flecha.

- 3** **Title of the work:** Diversidad y resistencias halladas en el nuevo virus A(H1N1)2009
Name of the conference: XV Congreso de la Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Malaga,
Date of event: 06/2011
Organising entity: Sociedad Española de Enfermedades Infecciosas y Microbiología Clínica **Type of entity:** Associations and Groups
Inmaculada Casas Flecha.
- 4** **Title of the work:** La Gripe, un virus en mutación permanente
Name of the conference: Jornada en Organización Médica colegial. Mesa Redonda
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Madrid,
Date of event: 2010
Organising entity: Organización Médica colegial. Mesa Redonda
Inmaculada Casas Flecha.
- 5** **Title of the work:** Análisis molecular de los virus influenza A. Gripe estacional y nueva Gripe
Name of the conference: Implementación de nuevas tecnicas para el diagnostico molecular y analisis de secuencias
Type of event: Seminar **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Panama, Panama
Date of event: 2010
Organising entity: Instituto de Salud Publica Gorgas
City organizing entity: Panama, Panama
Inmaculada Casas Flecha.
- 6** **Title of the work:** Experiencia actual de la pandemia. Recomendaciones para el futuro
Name of the conference: Implementación de nuevas tecnicas para el diagnostico molecular y analisis de secuencias
Type of event: Seminar **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Panama, Panama
Date of event: 2010
Organising entity: Instituto de salud publica Gorgas **Type of entity:** 11
City organizing entity: Panama, Panama
Inmaculada Casas Flecha.



- 7** **Title of the work:** Nuevos virus implicados en patología respiratoria
Name of the conference: Implementación de nuevas técnicas para el diagnóstico molecular y análisis de secuencias
Type of event: Seminar **Geographical area:** Non EU International
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Panama, Panama
Date of event: 2010
Organising entity: Instituto de Salud Pública Gorgas
City organizing entity: Panama, Panama
Inmaculada Casas Flecha.
- 8** **Title of the work:** Nueva gripe A H1N1 " Aspectos virológicos y Epidemiológicos
Name of the conference: I Congreso Nacional GeSIDA
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Madrid,
Date of event: 2009
Organising entity: Grupo de Estudio de SIDA-SEIMC **Type of entity:** Associations and Groups
Inmaculada Casas flecha.
- 9** **Title of the work:** Nuevos virus respiratorios en la infección respiratoria infantil
Name of the conference: X Congreso de la Sociedad Española de Virología
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Salamanca,
Date of event: 2009
Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA
City organizing entity: Madrid,
Inmaculada Casas Flecha.
- 10** **Title of the work:** Análisis filogenéticos de los virus de la nueva gripe tipo A (H1N1) y su relación con otros virus humanos y porcinos
Name of the conference: : I Jornada Científica del ISCIII "La Nueva Gripe Humana A (H1N1): origen, evolución y futuro.
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Madrid,
Date of event: 2009
Organising entity: Instituto de Salud Carlos III **Type of entity:** Public Research Body
Inmaculada Casas Flecha.
- 11** **Title of the work:** Vigilancia molecular de los virus gripales y su aplicación práctica
Name of the conference: XVI Reunión anual de la Sociedad Gallella de Microbiología Clínica
Type of event: Workshop **Geographical area:** Regional
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Mondariz Pontevedra,



Date of event: 2009

Organising entity: Sociedad Gallella de Microbiología Clínica

- 12** **Title of the work:** Gripe aviar, SARS y otras infecciones respiratorias emergentes
Name of the conference: Avances de la Patologías Infecciosas: Implicaciones para la Comunidad
Geographical area: National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Madrid,
Date of event: 2008
Inmaculada Casas Flecha.
- 13** **Title of the work:** Gripe Aviar: el virus y su control
Name of the conference: III Jornadas de Biología de Hoy CELANICA'06
Type of event: Workshop **Geographical area:** Regional
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Alcala de Henares Madrid,
Date of event: 2006
Organising entity: Celanica
Inmaculada Casas; Guillermo Ruiz.
- 14** **Title of the work:** Gripe Aviar: el virus y su control
Name of the conference: XXV Congreso Sociedad Castellano-Leonesa y Cántabra de Patología Respiratoria
Geographical area: National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Segovia,
Date of event: 2006
Organising entity: Sociedad Castellano-Leonesa y Cántabra de Patología Respiratoria
Inmaculada Casas Flecha.
- 15** **Title of the work:** Gripe Aviar: características del virus, situación actual e implicaciones futuras
Name of the conference: I premio de Investigación en Enf. Emergentes e importadas Inmaculada Valero
Type of event: Workshop **Geographical area:** Regional
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Valencia,
Date of event: 2005
Inmaculada Casas.
- 16** **Title of the work:** Nuevos virus implicados en patología respiratoria
Name of the conference: Jornadas de la Sociedad Asturiana de Microbiología Clínica
Type of event: Workshop **Geographical area:** National
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Oviedo,
Date of event: 2005
Organising entity: Sociedad Asturiana de Microbiología Clínica
Inmaculada Casas; Francisco Pozo.

- 17** **Title of the work:** Síndrome Respiratorio Agudo Severo (SARS)
Name of the conference: XXIX Congreso Sociedad Española de Inmunología
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - invited/keynote talk **Reasons for participation:** Upon invitation
City of event: Cadiz,
Date of event: 2003
Organising entity: Sociedad Española de Inmunología
Inmaculada Casas.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Secretaria Sociedad Española de Virología
Primary (UNESCO code): 242000 - Virology
City affiliation entity: Madrid, Spain
Start-End date: 01/06/2015 - 30/06/2018
- 2** **Committee title:** Vicesecretaria Junta Directiva Sociedad Española de Virología
Primary (UNESCO code): 242000 - Virology
City affiliation entity: Madrid, Spain
Start-End date: 06/2013 - 29/05/2015
- 3** **Committee title:** Comité Ejecutivo Nacional para la prevención, el control y el seguimiento de la evolución epidemiológica del virus de la gripe
Primary (UNESCO code): 321200 - Public health
Affiliation entity: MINISTERIO DE SANIDAD Y CONSUMO
City affiliation entity: Madrid, Spain
Start-End date: 2005 - 2015
- 4** **Committee title:** Representante Internacional de la Unidad de alertas y Emergencias
Primary (UNESCO code): 241400 - Microbiology
Affiliation entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
City affiliation entity: Madrid, Spain
Start-End date: 06/2004 - 2015
- 5** **Committee title:** Comité Dirección Laboratorios de Referencia del ECDC
Primary (UNESCO code): 241400 - Microbiology
Affiliation entity: Instituto de Salud Carlos III **Type of entity:** Public Research Body
City affiliation entity: Madrid, Spain
Start-End date: 2010 - 2014
- 6** **Committee title:** Comité de actuación frente a la gripe aviar
Primary (UNESCO code): 321200 - Public health
Secondary (UNESCO code): 242000 - Virology
Affiliation entity: MINISTERIO DE SANIDAD Y CONSUMO
City affiliation entity: Madrid, Spain



Start-End date: 2004 - 2008

- 7** **Committee title:** Comité de actuación frente al SARS
Primary (UNESCO code): 242000 - Virology
Secondary (UNESCO code): 321200 - Public health
Affiliation entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
City affiliation entity: Madrid, Spain
Start-End date: 30/04/2004 - 30/04/2005
- 8** **Committee title:** Representante Internacional de la Unidad de alertas y Emergencias
Primary (UNESCO code): 241400 - Microbiology
Affiliation entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
City affiliation entity: Madrid, Spain
Start-End date: 09/2004 - 2005
- 9** **Committee title:** Comité Científico del síndrome respiratorio agudo severo: Diagnóstico del SARS
Primary (UNESCO code): 242000 - Virology
Secondary (UNESCO code): 321200 - Public health
Affiliation entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
City affiliation entity: Madrid, Spain
Start-End date: 28/10/2003 - 2004

Organization of R&D activities

- 1** **Title of the activity:** Reunion Virored
Type of activity: Red Iberoamericana de Laboratorios Virologia **Geographical area:** National
Convening entity: Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo **Type of entity:** Programa intercambio conocimiento
City convening entity: Madrid, Spain
Start date: 2010 **Duration:** 2 days
- 2** **Title of the activity:** Reunion de la ReLEG
Type of activity: Coordinacion de Red de Vigilancia de Gripe **Geographical area:** National
Convening entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
City convening entity: Madrid, Spain
Start date: 2001 **Duration:** 2 days



R&D management

Name of the activity: Proyecto propio

Type of management: Management of R&D&I actions and projects

Performed tasks: Coordinadora Virus Respiratorios y Gripe de la Red VirOred

Entity: Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo

Type of entity: Ministerio Asuntos Exteriores

Start date: 2010

National and international forums and committees

- 1 Name of the forum:** Puntos Focales de Microbiología
Professional category: Punto Focal Nacional
Organising entity: ECDC **Type of entity:** Comision Europea
City organizing entity: Estocolmo, Sweden
Start-End date: 2009 - 2014
- 2 Name of the forum:** EDCTP Lower Respiratory Tract Infections Stakeholder
Organising entity: European Developing Countries Clinical Trials Partnership **Type of entity:** Healthcare Institutions
City organizing entity: Amsterdam, Holland
Start date: 06/07/2016

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Evaluador de articulos científicos
Performed tasks: Evaluador
Entity where activity was carried out: Ploss One **Type of entity:** Associations and Groups
City of entity: Madrid, Spain
Start-End date: 2011 - 2014
- 2 Name of the activity:** Evaluador de articulos científicos
Performed tasks: Evaluador
Entity where activity was carried out: Journal of Clinical Virology
City of entity: Madrid, Spain
Start-End date: 2006 - 2009
- 3 Name of the activity:** Evaluador de articulos científicos
Performed tasks: Evaluador
Entity where activity was carried out: Journal of Virological Methods
City of entity: Madrid, Spain
Start-End date: 1998 - 2006
- 4 Performed tasks:** Evaluador de Articulos científicos
Entity where activity was carried out: Virology Journal **Type of entity:** Business
Start date: 01/09/2016



- 5 Name of the activity:** Evaluacion de proyectos de investigacion
Performed tasks: Evaluador
Entity where activity was carried out: Agencia Nacional de Evaluación de la Calidad y Acreditación
Type of entity: evaluacion
City of entity: Madrid, Spain
Start date: 06/2014
- 6 Name of the activity:** Evaluador de articulos científicos
Performed tasks: Evaluador
Entity where activity was carried out: Journal of Medical Virology
Type of entity: Associations and Groups
City of entity: Madrid, Spain
Start date: 1996

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Universidad de Manchester
Type of entity: University
Faculty, institute or centre: : Division of Virology, Department of Pathological Sciences, Medical School
City of entity: Manchester, United Kingdom
Start-End date: 15/07/1995 - 30/09/1995
Duration: 2 months - 15 days
Goals of the stay: Guest
Provable tasks: Estudio de infecciones dobles del sistema nervioso central asociadas a los virus herpes simplex y varicela zoster
- 2 Entity:** Universidad de Manchester
Type of entity: University
Faculty, institute or centre: : Division of Virology, Department of Pathological Sciences, Medical School
City of entity: Manchester, United Kingdom
Start-End date: 01/05/1994 - 31/12/1994
Duration: 8 months
Goals of the stay: Guest
Provable tasks: Implicación de los enterovirus en cuadros de meningitis aséptica
- 3 Entity:** Universidad de Manchester
Type of entity: University
Faculty, institute or centre: : Division of Virology, Department of Pathological Sciences, Medical School
City of entity: Manchester, United Kingdom
Start-End date: 01/05/1993 - 30/04/1994
Duration: 1 year
Goals of the stay: Post-doctoral
Provable tasks: Desarrollo de un ensayo mediante PCR para detectar RNA de enterovirus en muestras de líquido cefalorraquídeo procedente de pacientes con infección neurológica
- 4 Entity:** Universidad de Columbia
Type of entity: Public Research Body
City of entity: Nueva York, United States of America
Start date: 01/05/2005
Duration: 20 days
Goals of the stay: Guest
Provable tasks: Entrenamiento en el desarrollo de nuevos métodos de diagnóstico molecular aplicados a las enfermedades infecciosas



- 5** **Entity:** Public Health Laboratory Service (PHLS) **Type of entity:** Public Research Body
Faculty, institute or centre: Respiratory Viruses Laboratory, Enteric, Respiratory and neurological Virus Laboratory, Central Public Health Laboratory
City of entity: Londres, United Kingdom
Start date: 2001 **Duration:** 21 days
Goals of the stay: Guest
Provable tasks: Estudio de infecciones dobles del sistema nervioso central asociadas a los virus herpes simplex y varicela zoster

Scientific societies and professional associations

Name of the society: Sociedad Española de Virología
City affiliation entity: Madrid, Spain
Start-End date: 2003 - 2030

Co-operation networks

- 1** **Name of the network:** ViroRED
Identification of the network: Red de Laboratorios de Virologia en Iberoamerica
Participating entity/entities: Instituto de Salud Carlos III ; Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo **Type of entity:** Public Research Body; 11
Tasks carried out: Coordinador
Start date: 2009 **Duration:** 5 years
- 2** **Name of the network:** ReLEG
Identification of the network: Red de Laboratorios de Gripe en España
Participating entity/entities: Instituto de Salud Carlos III ; Ministerio de Sanidad y Consumo **Type of entity:** Public Research Body; Administrative Body of the National Health System
Tasks carried out: Coordinador
Start date: 1975 **Duration:** 29 years

Periods of research activity

- 1** **Nº of recognized periods:** 3
Certifying entity: Comision Nacional Evaluadora Actividad Investigadora
Date of recognition: 05/06/2019
- 2** **Nº of recognized periods:** 1
Certifying entity: Comision Nacional Evaluadora Actividad Investigacion
Date of recognition: 05/06/2018



Obtained accreditations/recognitions

- 1** **Description:** PREMIO ANUAL DE ANALES DE PEDIATRÍA DE LA ASOCIACIÓN ESPAÑOLA DE PEDIATRÍA
Accrediting entity: ASOCIACIÓN ESPAÑOLA DE PEDIATRÍA
City accrediting entity: Madrid,
Date of recognition: 25/04/2018
- 2** **Description:** PROGRAMA I3. Programa de Incentivación de la Incorporación e Intensificación de la Actividad Investigadora, Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica 2004-2007
Accrediting entity: MINISTERIO DE EDUCACION Y CIENCIA
City accrediting entity: Madrid, Spain
Date of recognition: 18/06/2007