



Angel Ayuso Sacido

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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.

In 1999 Angel Ayuso Sacido graduated in Biological Sciences at "Universidad Autónoma de Madrid" and joined the MSD Basic Research Center in Spain to carry out his PhD research project. In 2003 he defended his PhD Thesis, with the higher qualifications, and joined the Medicine Department of Mount Sinai Hospital in New York, as Post-doctoral Fellow. In 2005 he gained the Fulbright-MEC post-doctoral fellowship and moved to the Neurosurgical Department of Weill Cornell Hospital in New York, as a post-doctoral fellow. In 2007 he was appointed Research Assistant Professor and, at the end of that year he was offered a senior research position at "Centro de Investigación Príncipe Felipe (CIPF) de Valencia", where he started up a Neuro-oncology Laboratory as independent scientist. In 2009 he received the Valencia IDEA 2009 award to the best biotechnology project. In 2011 he founded the Spanish Glioma Network (REIG) and directed the first International Symposium on Clinical and Basic Investigation in Glioblastoma. In 2012, he joined the Helsinki University as Visiting Scientist and, at the end of the year; he joined the "Fundación de Investigación HM (FiHM) Hospitales" as a head of the Neuro-Oncology Laboratory. In 2015 he directed the second International Symposium on Clinical and Basic Investigation in Glioblastoma. One year later, in 2016 he was appointed Assistant Professor of Medicine at San Pablo-CEU University and Scientific Director of the "Fundación de Investigación HM Hospitales", where he is responsible for the coordination of more than 100 Basic and Clinical Researchers, working on Translational and Clinical Investigation, in 16 Hospitals located in Madrid, Toledo, Leon, Galicia and Barcelona, in addition of the the Liquid Biopsy Unit and the Central Unit for Clinical Assays (UCEC).

Dr. Ayuso is author of more than 50 manuscripts, has directed 11 Doctoral Thesis, he has participated in 23 research projects, 14 as a PI, and is evaluator and scientific advisor for ANEP, FIPSE (Coordination Board), ISCIII, MINECO, Junta de Andalucía, AECC and European Commission.

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.

1. Total number of publications: 51

Indexed Publications: 43

Publications in D1: 9

Publications in Q1: 30

Publications as main author: 23

Publications as senior author: 18

Publications in the last 5 years (2013-2017): 29

H-Index: 18

2. Total number of projects: 24

Projects as IP or co-IP: 15

Private projects as IP: 12

Public projects as IP: 12

National projects: 18

International projects: 6

Number of projects as IP or co-IP in the last 5 years (2013-2017): 12

3. Academic Formation and Scientific Direction:

- Directed Doctorate Thesis: 11

- Directed Master Thesis: 5

- Competitive Formative Contracts (5): 3 FPU, 1 Juan de la Cierva, 1 Marie Curie,

4. Patents: 3

5. Private Companies Contracts: 3

6. Evaluator and Scientific advisor: ANEP, FIPSE (Coordination Board), ISCIII, MINECO, Junta de Andalucía, AECC and European Commission.

7. Current positions:

- Scientific Director at Fundación de Investigación HM Hospitales

- Head of the Neuro-Oncology Lab at FiHM Hospitales

- Assistant Professor, Medical School, Universidad San Pablo CEU.

- Coordinator of the de NanoOncology lab at IMDEA nanociencia

- President of the Spanish Glioma Network (REIG).

8. Six-year research periods: 3

**Angel Ayuso Sacido**

Surname(s): **Ayuso Sacido**
 Name: **Angel**
 DNI: **01833802N**
 Date of birth: **11/04/1973**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Aut. region/reg. of birth: **Community of Madrid**
 Contact province: **Madrid**
 City of birth: **Madrid**
 Contact address: **Calle Mogambo 9B**
 Postcode: **28018**
 Contact country: **Spain**
 Contact aut. region/reg.: **Community of Madrid**
 Contact city: **Madrid**
 Land line phone: **(0034) 912998867**
 Email: **ayusosacido@gmail.com**
 Mobile phone: **(0034) 686966904**

Current professional situation

Employing entity: Fundación de Investigación HM Hospitales **Type of entity:** Foundation
Professional category: Scientific Director
Start date: 01/01/2016
Type of contract: Permanent employment contract **Dedication regime:** Full time

Employing entity: Universidad San Pablo CEU **Type of entity:** University
Department: School of Medicine
Professional category: Assistant Professor
Start date: 01/09/2015
Type of contract: Permanet contract at HM Hospitales **Dedication regime:** Part time

Employing entity: Fundación de Investigación HM Hospitales
Professional category: Director of the Neuro-Oncology Lab.
Start date: 2012
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 320000 - Medical Science

Employing entity: FUNDACIÓN IMDEA NANOCIENCIA
Professional category: Visiting Researcher. Coordinator of the Nano-Oncology Lab
Start date: 2012
Type of contract: Honorary

Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Helsinki	Visiting Researcher	2012
2	Centro de Investigación Príncipe Felipe	Head of the Lab. Regenerative Medicine Program	2009
3	Centro de Investigación Príncipe Felipe	Researcher. Cellular Morphology Department	2007
4	Weill Cornell Hospital	Assistant Professor. Neurosurgery Department	2007
5	Weill Cornell Hospital	Post-Doctoral Associate. Neurosurgery Department	2005
6	Mount Sinai Hospital	Post-Doctoral Associate. Medicine Department	2003
7	Merck Sharp & Dohme de España, S.A.	Pre-Doctoral Fellow. Microbiology and Molecular Biology Department	2000
8	Universidad Autónoma de Madrid	Lab Assistant. Microbiology department	2000
9	Merck Sharp & Dohme de España, S.A.	Post-Graduate fellow. Microbiology and Molecular Biology Department	1998
10	ORACLE IBERICA, S.A.	Administrative	1997
11	Babcock and Wilcox España	Project Assistant	1997

- 1** **Employing entity:** University of Helsinki
Professional category: Visiting Researcher
Start-End date: 2012 - 2012 **Duration:** 1 year
- 2** **Employing entity:** Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
Professional category: Head of the Lab. Regenerative Medicine Program
Start-End date: 2009 - 2011 **Duration:** 2 years
- 3** **Employing entity:** Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
Professional category: Researcher. Cellular Morphology Department
Start-End date: 2007 - 2009 **Duration:** 2 years
- 4** **Employing entity:** Weill Cornell Hospital
Professional category: Assistant Professor. Neurosurgery Department
Start-End date: 2007 - 2007 **Duration:** 1 year
- 5** **Employing entity:** Weill Cornell Hospital
Professional category: Post-Doctoral Associate. Neurosurgery Department
Start-End date: 2005 - 2006 **Duration:** 2 years
- 6** **Employing entity:** Mount Sinai Hospital
Professional category: Post-Doctoral Associate. Medicine Department
Start-End date: 2003 - 2005 **Duration:** 1 year - 2 months



- 7** **Employing entity:** Merck Sharp & Dohme de España, S.A. **Type of entity:** Business
Professional category: Pre-Doctoral Fellow. Microbiology and Molecular Biology Department
Start-End date: 2000 - 2003
- 8** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University
Professional category: Lab Assistant. Microbiology department
Start-End date: 2000 - 2002
- 9** **Employing entity:** Merck Sharp & Dohme de España, S.A. **Type of entity:** Business
Professional category: Post-Graduate fellow. Microbiology and Molecular Biology Department
Start-End date: 1998 - 1999
- 10** **Employing entity:** ORACLE IBERICA, S.A.
Professional category: Administrative
Start-End date: 1997 - 1997
- 11** **Employing entity:** Babcock and Wilcox España
Professional category: Project Assistant
Start-End date: 1997 - 1997



Education

University education

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

1 **University degree:** Master

Name of qualification: Master Degree in Molecular Biology

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

Date of qualification: 2001

2 **University degree:** Higher degree

Name of qualification: Graduated in Biological Science. Biochemistry and Molecular Biology Speciality Program

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

Date of qualification: 1998

Doctorates

Doctorate programme: PhD in Science by the UAM

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

Date of degree: 2003

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

1 **Training title:** MBI Stem Cell and Regenerative Medicine Bioprocessing

City awarding entity: Londres,

Awarding entity: University College London

Type of entity: University

End date: 2009

2 **Training title:** Clinical Research in Advance Therapies

Awarding entity: TERCEL

Type of entity: red

End date: 2008

3 **Training title:** MBI Effective Biopharmaceutical Development and Manufacture

Awarding entity: University College London

Type of entity: University

End date: 2008



- 4 Training title:** Design and Direction of Experimental Assays (Category C)
City awarding entity: Valencia, Spain
Awarding entity: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
End date: 2007
- 5 Training title:** Radioactive Facilities Operator
Awarding entity: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
End date: 2007
- 6 Training title:** Electrophoretic and Immunohistochemistry techniques applied to human blood tissue humano
Awarding entity: Universidad Complutense de Madrid
Type of entity: University
End date: 1999

Language skills

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

Teaching experience

General teaching experience

- 1 Name of the course:** Experimental Medicine
University degree: Graduado en Medicina y Cirugía
Start date: 2018
End date: 2019
Entity: Universidad San Pablo CEU
Type of entity: University
Faculty, institute or centre: Medicine
- 2 Name of the course:** Investigación en Ciencias de la Salud
University degree: Grado de Enfermería
Start date: 2018
End date: 2019
Entity: Universidad San Pablo CEU
Type of entity: University
Faculty, institute or centre: Medicine
- 3 Name of the course:** Trabajo Fin De Grado
University degree: Grado de Enfermería
Start date: 2018
End date: 2019
Entity: Universidad San Pablo CEU
Type of entity: University
Faculty, institute or centre: Medicine



- 4** **Name of the course:** Investigación en Ciencias de la Salud
University degree: Grado de Enfermería
Start date: 2017 **End date:** 2018
End date: 2018
Entity: Universidad San Pablo CEU **Type of entity:** University
Faculty, institute or centre: Medicine
- 5** **Name of the course:** Cellular pathogenesis
University degree: Graduado en Medicina y Cirugía
Start date: 2016 **End date:** 2017
End date: 2017
Entity: Universidad San Pablo CEU **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 6** **Name of the course:** Experimental Medicine
University degree: Graduado en Medicina y Cirugía
Start date: 2016 **End date:** 2017
End date: 2017
Entity: Universidad San Pablo CEU **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 7** **Name of the course:** Methods in tissue biotechnology and preclinical experimental models with application in biotechnology
University degree: Master in Regenerative Medicine and Cell Therapy.
Start date: 22/02/2016 **End date:** 11/03/2016
End date: 2016
Entity: Universidad San Pablo CEU **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 8** **Name of the course:** Molecular Biology and New Therapeutic Targets
University degree: Master Degree in Management Tools and Health Research
Start date: 2015 **End date:** 2016
End date: 2016 **Type of hours/ ECTS credits:** Credits
Hours/ECTS credits: 10
Entity: Universidad Nacional de Educación a distancia **Type of entity:** University
- 9** **Name of the course:** Oncology Drugs
University degree: Master Degree in Management Tools and Health Research
Start date: 2015 **End date:** 2016
End date: 2016
Entity: Universidad Nacional de Educación a Distancia **Type of entity:** University
- 10** **Name of the course:** Microbiology: laboratory classes
University degree: Bachelor Degree in biology
Start date: 1999 **End date:** 2003
End date: 2003
Entity: Universidad Autónoma de Madrid **Type of entity:** University
- 11** **Name of the course:** Neural Stem Cells: Neural repair and regeneration
University degree: Master in Biomedical Biotechnology
End date: 2014



Entity: Universidad Politécnica de Valencia

- 12 Name of the course:** Neural Stem Cells: Neural repair and regeneration
University degree: Master in Biomedical Biotechnology
End date: 2013
Entity: Universidad Politécnica de Valencia **Type of entity:** University
- 13 Name of the course:** Neural Stem Cells: Neural repair and regeneration
University degree: Master in Biomedical Biotechnology
End date: 2012
Entity: Universidad Politécnica de Valencia **Type of entity:** University
- 14 Name of the course:** Introduction to Regenerative Medicine: Biology and Applications of Human Stem Cells
University degree: Postgraduate course
End date: 2009
Entity: Universitat de València **Type of entity:** University
- 15 Name of the course:** Introduction to Regenerative Medicine: Biology and Applications of Human Stem Cells
University degree: Postgraduate course: Neuroscience Program
End date: 2009
Entity: Universitat de València **Type of entity:** University
- 16 Name of the course:** Elntrouction to cell therapy and regenerative medicine
University degree: Postgraduate course
End date: 2009
Entity: Escuela Valenciana de Estudios de la Salud (EVES) **Type of entity:** Escuela
- 17 Name of the course:** Introduction to Regenerative Medicine: Biology and Applications of Human Stem Cells
University degree: Postgraduate course: Neuroscience Program
End date: 2008
Entity: Universitat de València **Type of entity:** University
- 18 Name of the course:** Microbiology: laboratory classes
University degree: Bachelor Degree in Biology
End date: 2002
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Biology
- 19 Name of the course:** Microbiology: laboratory classes
University degree: Bachelor Degree in Biology
End date: 2001
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Biology
- 20 Name of the course:** Microbiology: laboratory classes
University degree: Bachelor Degree in Biology
End date: 2000
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Biology



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Utilización del contenido de vesículas extracelulares circulantes en sangre periférica para el manejo clínico de pacientes con gliomas
Type of project: Doctoral thesis
Entity: FUNDACION GENERAL DE LA UNIVERSIDAD AUTONOMA DE MADRID FUAM
Student: Noemi Garcia Romero
Obtained qualification: Sobresaliente Cum Laude (Premio extraordinario de Doctorado)
Date of reading: 10/02/2017
Quality recognition: Yes **Date of award:** 24/10/2018
- 2** **Project title:** Nanomateriales de óxido de hierro y su interacción con sistemas biológicos
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Belén Cortes Llanos
Obtained qualification: Sobresaliente Cum Laude
Date of reading: 20/04/2018
- 3** **Project title:** Determinación de marcadores prometastásicos en pacientes con carcinoma infiltrante de mama en tumores T1 y T2
Type of project: Doctoral thesis
Co-director of thesis: Angel Ayuso Sacido
Entity: Universidad San Pablo CEU **Type of entity:** University
Student: Francisco José Pérez Rodriguez
Obtained qualification: Sobresaliente
Date of reading: 12/04/2017
- 4** **Project title:** El Paciente Oncológico en la Consulta de Odontología
Type of project: Doctoral thesis
Co-director of thesis: Angel Ayuso Sacido
Entity: Universidad San Pablo CEU **Type of entity:** University
Student: Mercedes Arnás Rodriguez
Obtained qualification: Sobresaliente con laudem
Date of reading: 03/04/2017
- 5** **Project title:** ESTUDIO DEL PRONÓSTICO NEUROLÓGICO DE LOS PACIENTES CON MALFORMACIONES ARTERIOVENOSAS CEREBRALES
Type of project: Doctoral thesis
Entity: Universidad San Pablo CEU **Type of entity:** University
Student: Sara García Duque
Date of reading: 16/02/2017
- 6** **Project title:** DIRK1A Role in high grade human gliomas.
Type of project: Doctoral thesis
Entity: Universidad San Pablo CEU **Type of entity:** University
City of entity: Madrid, Community of Madrid, Spain
Student: Paloma Fernandez Martinez
Obtained qualification: Sobresaliente cum laude
Date of reading: 2016



- 7** **Project title:** Integration of proteomic and transcriptomic approaches for the study of cáncer stem cells from human glioblastoma.
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Carmen Garcia Tejedo
Date of reading: 2016
- 8** **Project title:** Chromosomal instability and heterogeneity analysis of human glioma-initiating cells.
Type of project: Doctoral thesis
Entity: Universidad San Pablo CEU **Type of entity:** University
Student: Esther Holgado Martín
Date of reading: 2015
- 9** **Project title:** Characterization of oligodendrocyte progenitor cells isolated from adult human brain parenchymal.
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Jorge Oliver De la Cruz
Date of reading: 2013
- 10** **Project title:** TFC: Caracterización de las células iniciadoras de tumores aisladas de glioblastoma multiforme.
Type of project: End of course project
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Minerva Bosch Fortea
Date of reading: 2011
- 11** **Project title:** The role of Hh-Gli pathway in the maintenance of human glioma-initiating cell niche.
Type of project: Doctoral thesis
Entity: Universitat de València **Type of entity:** University
Student: Maria Peris Celda
Date of reading: 2011
- 12** **Project title:** Master: Aislamiento y caracterización de Microvesículas desde GBM humano.
Type of project: Work leading to an ASD
Entity: Universidad Politécnica de Valencia **Type of entity:** University
Student: Elisa Lazaro Ibañez
Date of reading: 2011
- 13** **Project title:** Master: Caracterización de células progenitoras de oligodendrocitos aislados de parénquima cerebral humano.
Type of project: Work leading to an ASD
Entity: Universitat de València **Type of entity:** University
Student: Jorge Oliver De la cruz
Date of reading: 2009
- 14** **Project title:** Master: Papel de la ruta de Hh-Gli en el mantenimiento del nicho de células iniciadoras de tumores aisladas de GBM humano.
Type of project: Work leading to an ASD
Entity: Universitat de València **Type of entity:** University
Student: Maria Peris Celda
Date of reading: 2009



Healthcare experience

Other activities/achievements not included above

- 1 **Other relevant activities:** Associate Professor Accredited
Entity where project took place: Agencia Valenciana de Evaluación y Prospectiva (AVEP) **Type of entity:** State agency
- 2 **Other relevant activities:** Director of the liquid biopsy Unit
Entity where project took place: HM Hospitales **Type of entity:** Healthcare Institutions
- 3 **Other relevant activities:** Founder and President of the Spanish Glioblastoma network
Entity where project took place: REIG **Type of entity:** Associations and Groups
- 4 **Other relevant activities:** Referee of the "Agencia Nacional de Evaluación y Prospectiva" (ANEP)
Entity where project took place: Agencia Nacional de Evaluación y Prospectiva **Type of entity:** agencia
- 5 **Other relevant activities:** Referee of the "AES -proyectos de desarrollo tecnológico-"
Entity where project took place: Instituto de Salud Carlos III **Type of entity:** Public Research Body

Scientific and technological experience

Scientific or technological activities

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

- 1 **Name of the project:** Utilización de biopsia líquida en el manejo clínico de tumores cerebrales adultos y pediátricos
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Fundación de Investigación HM Hospitales **Type of entity:** Foundation
City of entity: Madrid,
Name principal investigator (PI, Co-PI...): Ricardo Prat-Acin; Ana Ortiz-De Medivil; Gorjana Rackov; Susana Esteban-Rubio; Noemi García-Romero; Cristobal Belda-Iniesta; Angel Ayuso-Sacido
Nº of researchers: 5
Funding entity or bodies: Ministerio de Economía y Competitividad. Instituto de Salud Carlos III (Exp.: PI17/01489). **Type of entity:** State agency
Type of participation: Principal investigator
Start-End date: 01/01/2018 - 31/12/2020
Total amount: 123.400 €



- 2** **Name of the project:** Estudio de respuesta al tratamiento, entre pacientes de diferente sexo, diagnosticados con tumor cerebral glial de alto grado, vinculado a diferencias en la biología del tumor.
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Fundación de Investigación HM Hospitales **Type of entity:** Foundation
Nº of researchers: 3
Type of participation: Principal investigator
Name of the programme: La Caixa
Code according to the funding entity: 2019
Start-End date: 01/10/2019 - 30/09/2020
Total amount: 20.000 €
- 3** **Name of the project:** Towards an active bypass for neural reconnection
Degree of contribution: Researcher
Entity where project took place: FUNDACIÓN IMDEA NANOCIENCIA
City of entity: .,
Name principal investigator (PI, Co-PI....): María Teresa González; Lucas Pérez; Julio Camarero; Rodolfo Miranda; Angel Ayuso Sacido
Funding entity or bodies: Horizon 2020 - Research and Innovation Framework Programme (-FETOPEN-1-2016-2017); Proposal (737116 — ByAxon). **Type of entity:** European Commission
Start-End date: 01/01/2017 - 01/01/2020
Total amount: 3.752.058 €
- 4** **Name of the project:** Utilization of liquid biopsies for the molecular diagnostic and follow-up of pediatric patients with DIPG.
Degree of contribution: Scientific coordinator
Entity where project took place: Fundación de Investigación HM hospitales **Type of entity:** Foundation
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Noemí García Romero; Sara García Duque; Pilar Areal Hidalgo; Marta Villa Alcazar; Blanca López-Ibor Aliño; Angel Ayuso Sacido
Nº of researchers: 6
Funding entity or bodies: Fundación Mutua Madrileña **Type of entity:** Foundation
Start-End date: 01/09/2016 - 01/09/2019
Total amount: 70.000 €
- 5** **Name of the project:** Development of a diagnostic KIT from blood (liquid biopsy) in brain tumour patients (GLIBIOLIQUID)
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Fundación de Investigación HM Hospitales **Type of entity:** Foundation
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido
Nº of researchers: 2
Funding entity or bodies: **Type of entity:** State agency



Plan Estatal de Investigación Científica y Técnica y de Innovación 2013-2016. Ministerio de Economía y competitividad. (RTC-2015-3846-1)

Start-End date: 31/05/2016 - 31/05/2019

Participating entity/entities: Althia; FIHM Hospitales

Total amount: 735.000 €

6 Name of the project: Utilization of liquid biopsies for the molecular diagnosis and follow-up of pediatric patients with unoperable tumors

Degree of contribution: Scientific coordinator

Entity where project took place: Fundación de Investigación HM Hospitales

Type of entity: Foundation

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Josefa Carrión-Navarro; Pilar Areal-Hidalgo; Blanca López-Ibor; Angel Ayuso-SAcido

Nº of researchers: 4

Funding entity or bodies:

Fundación Esparta Contra el Cancer Infantil

Type of entity: Foundation

Start-End date: 01/03/2017 - 28/02/2018

Total amount: 30.000 €

7 Name of the project: Therapy optimization in glioblastoma: An integrative human data-based approach using mathematical models

Degree of contribution: Scientific coordinator

Entity where project took place: Fundación de Investigación HM Hospitales

Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido

Funding entity or bodies:

James S. Mc. Donnell Foundation

Type of entity: Foundation

Start-End date: 2016 - 2018

Total amount: 313.000 €

Applicant's contribution: Consorcio formado por 10 investigadores nacionales e internacionales (Co-Investigadores Principales)

8 Name of the project: Immunotherapy with a monoclonal antibody against high grade brain tumours (Gliomatherapy).

Entity where project took place: FUNDACIÓN IMDEA NANOCIENCIA

Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Economía y competitividad. (RTC-2015-3846-1)

Start-End date: 2015 - 2018

Total amount: 1.100.000 €

Applicant's contribution: Consorcio formado por Altia S.A. más dos investigadores principales

9 Name of the project: Doping identification by the incorporation of masive gene expression analysis.

Entity where project took place: FUNDACION HOSPITAL MADRID

Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido

Nº of researchers: 6

Funding entity or bodies:

International Olympic Committee (IOC)



Start-End date: 2015 - 2017

10 Name of the project: Utilization of the blood-circulating extracellular vesicles cargo for diagnostic, stratification and follow-up of glioma patients

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

Entity where project took place: Fundación de Investigación HM Hospitales

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido

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: 2015 - 2017

Total amount: 172.000 €

11 Name of the project: Identification of new therapeutic targets and diagnostic markers based on the analysis of microvesicles isolated from GBM patients.

Entity where project took place: FUNDACION HOSPITAL MADRID

City of entity: Madrid, Spain

Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido

Funding entity or bodies:

Programa Miguel Servet. Ministerio de Salud. Instituto de Salud Carlos III (Exp.: CP11/00147).

Start-End date: 2012 - 2017

Total amount: 40.000 €

12 Name of the project: Evaluation of Ki-67 proliferation index as a predictor of relapse in grade I meningioma. Comparison with Simpson surgical resection scale.

Entity where project took place: Hospital Universitario La Fe

Type of entity: Healthcare Institutions

City of entity: Valencia, Spain

Name principal investigator (PI, Co-PI....): Ricardo Prat Acín

Funding entity or bodies:

Fundación Mutua Madrileña

Start-End date: 2013 - 2014

Total amount: 21.000 €

13 Name of the project: Myelin regeneration within the central neural system.

Entity where project took place: Centro de Investigación Príncipe Felipe

Type of entity: Foundation

City of entity: Valencia, Spain

Name principal investigator (PI, Co-PI....): Jose Manuel Garcia Verdugo; Angel Ayuso Sacido; Carmen Escobedo Lucea

Funding entity or bodies:

Departamento de Educación, Generalidad Valenciana (Prometeo/2009/011).

Start-End date: 2009 - 2014

Total amount: 200.000 €



- 14** **Name of the project:** Identification of new therapeutic targets and diagnostic markers based on the analysis of microvesicles isolated from GBM patients.
Entity where project took place: FUNDACION HOSPITAL MADRID
City of entity: Madrid, Spain
Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido
Funding entity or bodies: Ministerio de Salud. Instituto de Salud Carlos III (Exp.: PI10/01069).
Start-End date: 2011 - 2013
Total amount: 112.000 €
- 15** **Name of the project:** Characterization of the cancer stem cells subpopulation from Human GBM: Anaslysis of therapeutic targets on cancer stem cells.
Entity where project took place: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Angel Ayuso Sacido
Funding entity or bodies: Fundación Gent per Gent 2009.
Start-End date: 2010 - 2012
Total amount: 40.000 €
- 16** **Name of the project:** Characterization of the cancer stem cells subpopulation from Human GBM
Entity where project took place: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Angel Ayuso sacido
Funding entity or bodies: Departamento de Educación de la Generalidad Valenciana (Exp.: GV/2009/068).
Start-End date: 2009 - 2011
Total amount: 12.000 €
- 17** **Name of the project:** Evaluation of the remyelination capacity of oligodendrocyte progenitor cells isolated from adult human Brain.
Entity where project took place: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Jose Manuel Garcia Verdugo; Angel Ayuso Sacido
Funding entity or bodies: Fundación Alicia Koplowitz 2009.
Start-End date: 2009 - 2011
Total amount: 75.000 €
- 18** **Name of the project:** Evaluation of the remyelination capacity of oligodendrocyte progenitor cells isolated from adult human Brain. de cerebro humano adulto.
Entity where project took place: Centro de Investigación Príncipe Felipe
Type of entity: Foundation
City of entity: Valencia, Spain
Name principal investigator (PI, Co-PI....): Jose Manuel Garcia Verdugo
Funding entity or bodies: Fundación MAPFRE 2008.



Start-End date: 2009 - 2010

Total amount: 15.000 €

19 Name of the project: Application of Difusion Tensor to neuro-oncology and functional epilepsy.

Entity where project took place: Centro de Investigación Príncipe Felipe **Type of entity:** Foundation

City of entity: Valencia, Spain

Name principal investigator (PI, Co-PI....): Antonio Gutierrez Martin

Funding entity or bodies:

Grupo Eresa (Exp.# 2008/004).

Start-End date: 2008 - 2009

Total amount: 15.000 €

20 Name of the project: EGFR signaling and human progenitor cell phenotype.

Entity where project took place: Weill Cornell Hospital

City of entity: Nueva York, United States of America

Name principal investigator (PI, Co-PI....): John A. Boockvar

Funding entity or bodies:

American Brain Tumor Association

Start-End date: 2005 - 2007

Total amount: 80.000 €

21 Name of the project: Phase I/II trial of Erlotinib (Tarceva, OSI-774) for the treatment of recurrent residual Glioblastoma Multiforme and Anaplastic Astrocytoma

Entity where project took place: Weill Cornell Hospital

City of entity: Nueva York, United States of America

Name principal investigator (PI, Co-PI....): John A. Boockvar

Funding entity or bodies:

Genentech Pharmaceuticals

Start-End date: 2005 - 2007

Total amount: 300.000 €

22 Name of the project: Induction of hematopoiesis by bone morphogenetic proteins

Entity where project took place: Mount Sinai Hospital

City of entity: Nueva York, Spain

Name principal investigator (PI, Co-PI....): Margaret H. Baron

Funding entity or bodies:

5RO1 DK52191-08 NIH/NIDDK

Start-End date: 2003 - 2007

Total amount: 1.000.000 €

23 Name of the project: Activation of hematopoiesis in the mouse embryo

Entity where project took place: Mount Sinai Hospital

City of entity: New York, United States of America

Name principal investigator (PI, Co-PI....): Margaret H. Baron

Funding entity or bodies:

1RO1 HL 62248-05 NIH/NHLBI

Start-End date: 2000 - 2005



Total amount: 800.000 €

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

- 1 Name of the project:** Development of Methodological proof of concept for prostate cancer microvesicle cargo analysis
Degree of contribution: Scientific coordinator
Name principal investigator (PI, Co-PI....): Marjo Ylipertula; Angel Ayuso Sacido
Nº of researchers: 2
Start date: 2012 **Duration:** 3 months
- 2 Name of the project:** Technical advisement contract
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Jose Manuel García Verdugo; Angel Ayuso Sacido; Carmen Escobedo Lucea
Nº of researchers: 3
Start date: 2008 **Duration:** 6 months

Results

Industrial and intellectual property

- 1 Title registered industrial property:** Procedure for the detection of mutant IDH1 sequences from blood-circulating extracellular vesicles Microvesículas de sangre periférica
Inventors/authors/obtainers: Angel Ayuso Sacido; Cristobal Belda Iniesta; Noemi García Romero; Josefa Carrión Navarro; Susana Esteban Rubio
Entity holder of rights: Fundación de Investigación HM Hospitales
Nº of application: EP16382028.5
Country of inscription: Spain
Date of register: 2016
Nº of patent: en trámite
- 2 Title registered industrial property:** The use of DUSP1/MKP1 as a target for histone deacetylases inhibitors for directing the temozolomide response to gliomas.
Inventors/authors/obtainers: Rosario Perona; Leire Moreno; Cristobal Belda; Immaculada Ibañez; Olatz Arrizabalaga; Ander Matheu
Entity holder of rights: CSIC
Country of inscription: Spain
Date of register: 2016
- 3 Title registered industrial property:** Device for collecting semen samples
Inventors/authors/obtainers: Angel Ayuso Sacido; Carmen Escobedo Lucea; Maria Sanchez Serrano; Marcel Vazquez Mora; Johan Patrick Achiel Marie
Entity holder of rights: Inventors
Nº of application: PCT/ES2010/070107
Country of inscription: Spain
Date of register: 2010



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** Noemi García-Romero; Josefa Carrión-Navarro; Pilar Areal-Hidalgo; Ana Ortiz de Mendivil; Adriá Asensi-Puig; Rodrigo Madurga; Rocio Núñez-Torres; Ana Gonnzalez-Neira; Cristobal Belda-Iniesta; Víctor González-Rumayor; Blanca López-Ibor. Article BRAF V600E Detection in Liquid Biopsies from Pediatric Central Nervous System Tumors. *Cancers*. 12 - 66, 01/01/2020.

Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
- 2** Gabriel Calvo; Belén Cortes-Llanos; Juan Belmonte-Beitía; Gorka Salas; Angel Ayuso-Sacido. Modelling the role of flux density and coating on nanoparticle internalization by tumor cells under centrifugation. *Applied Mathematical Modelling*. In Press, 01/11/2019.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 3** Ricardo Gargini; Berta Segura-Collar; Beatriz Herranz; Vega García-Escudero; Andres Romero-Bravo; Felipe Nuñez; Daniel García-Perez; Jacquelin Gutierrez-Guaman; Angel Ayuso-Sacido; Joan Seoane; Angel Perez-Nuñez; Juan Sepulveda-Sánchez; Aurelio Hernandez-Lain; María Castro; Ramón García-Escudero; Jesus Avila; Pilar Sánchez-Gómez. The IDH-Tau-EGFR triad defines the neovascular landscape of diffuse gliomas by controlling mesenchymal differentiation. *Science Translational Medicine*. 2019 - Accepted, 01/11/2019.

Type of production: Scientific paper **Format:** Journal
- 4** Sergio Rius-Rocabert; JL Presa; Susana Esteban-Rubio; Angel Ayuso-Sacido; Estanislao Nistal-Villán. Digital Method to Quantify Type I IFN. *J Interferon Cytokine Res*. 39 - 11, pp. 711 - 719. 31/07/2019.

Type of production: Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
- 5** Noemi García-Romero; Rodrigo Madrugar; Gorjana Rackov; Irina Paladín-Aliana; Raquel Nuñez-Torres; Adrián Asenso-Puig; Josefa Carrión-Navarro; Susana Esteban-Rubio; Hector Peinado; Ana Gonzalez-Nedra; Víctor Gonzalez-Rumayor; Cristobal Bella-Iniesta; Angel Ayuso-Acido. Polyethylene glycol improves current methods for circulating extracellular vesicle-derived DNA isolation. *J Transl Med*. 17 - 75, pp. 1 - 12. 18/03/2019.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6** Gorjana Rackov; Noemi García-Romero; Susana Esteban-Rubio; Josefa Carrión-Navarro; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. Vesicle-Mediated Control of Cell Function: The Role of Extracellular Matrix and Microenvironment. *Frontiers in Physiology*. 9 - 651, pp. 1 - 12. 05/06/2018.

Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 7** Guillermo Aldave; Marisol Gonzalez; Angel Rubio; Juan Romero; Datta Ravi; Belén Miñana; Mar Cuadrado; Ana Garcia; Roeland Verhaak; Enric Xipell; Naiara Martinez; Arlet Acanda; Moserrat Puigdelloses; Marc Garcia; Miguel Marigil; Jaime Perez; Oskar Marin; Marta Huarte; Maria Stella; Roberto Ferrarese; Cristobal Bella; Angel



Ayuso-Sacido; Ricardo Prat-Acin; Fernando Pastor; Ricardo Diaz-Valle; Sonia Tejada; Marta Alonso. The aberrant splicing of BAF45d links splicing regulation and transcription in glioblastoma. *Neuro-Oncology*. 2018.

Type of production: Scientific paper

Format: Scientific and technical document or report

Corresponding author: No

- 8** Belén Cortés-Lllanos; Aida Serrano; Alvaro Muñoz-Noval; Esteban Urones-Carrote; Adolfo Del Campo; Jose Francisco Marco; Angel Ayuso-Sacado; Lucas Pérez. Thermal Route for the Synthesis of Maghemite/Hematite Core/Shell Nanowires. *Journal of Physical Chemistry*. 121 - 41, pp. 23158 - 23165. 03/10/2017.

Type of production: Scientific paper

Format: Journal

- 9** Noemi García-Romero; Gorjana Rackov; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. The Use of Peripheral Extracellular Vesicles for Identification of Molecular Biomarkers in a Solid Tumor Mouse Model. *Methods Mol Biol*. 2017 - 1660, pp. 397 - 406. 01/09/2017.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 10** Noemí García-Romero; Josefa Carrión-Navarro; Susana Esteba-Rubio; Elisa Lázaro-Ibañez; María Peris-Celda; Marta M Alonso; Juan Guzman de Villoria; Carlos Fernández-Carballal; Ana Ortíz de Mendivil; Sara García-Duque; Carmen Escobedo-Lucea; Ricardo Prat-Acin; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. DNA sequences within glioma-derived extracellular vesicles can cross the intact blood-brain barrier and be detected in peripheral blood of patients. *Oncotarget* (doi: 10.18632/oncotarget.13635). 8 - 1, pp. 1416 - 1428; IF:5.008. 2017.

Type of production: Scientific paper

Format: Journal

Corresponding author: Yes

- 11** Olas Arrizabalaga; Leire Moreno-Cougnion; Jaione Auzmendi; Paula Aldaz; Inmaculada Ibáñez; Laura Garros; Verónica Moncho-Amor; Sergio Torres-Bayona; Olga Pernia; Laura Pintado-Berniches; Patricia Carrasco-Ramirez; Marta Cortes-Canteli; Rocio Rosas; Pilar Sanchez; Irune Ruiz; Helena Caren; Steven Pollard; Idoia García; Angel Ayuso-Sacido; Robín Lovell-Badge; Cristobal Belda-Iniesta; Nicolas Sanprón; Rosario Perdon; Ander Matheu. High expression of MKP1/DUSP1 counteracts glioma stem cell activity and mediates HDAC inhibitor response. *Oncogenesis*. Accepted, 2017.

Type of production: Scientific paper

Corresponding author: No

- 12** Ricardo Prat-Acin; Rocío Evangelista; Rebeca Conde; Angel Ayuso-Sacido; Inmaculada Galeano. Neuroendoscopic management of posterior third ventricle ependymoma with intraaqueductal and fourth ventricle extension: a case report and review of the literature. *Childs Nerv Syst*. 2017 Jul 18. doi: 10.1007/s00381-017-3543-6., 2017.

Type of production: Scientific paper

Corresponding author: No

- 13** Ricardo Prat; Inmaculada Galeano; Rocio Evangelista; Giovanni Panucci; Juliana Guarin; Angel Ayuso; Mukesh Misra. Trans-eyebrow supraorbital approach in large suprasellar craniopharyngioma surgery in adults: analysis of optic nerve length and extent of tumor resection. *Acta Neurochir (Wien)*. 159 - 5, pp. 873 - 880; IF:1.617. 2017.

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 14** Patricia Pedraza; Santiago Casado; Vanesa Rodriguez; Marina Giordano; Francesco Buatier de Monge; Angel Ayuso-Sacido; Enrico Gnecco. Adhesion modification of neural stem cells induced by nanoscale ripple patterns. *Nanotechnology*. 27 - 12, pp. 125301 - IF: 3.573. 2016.

Type of production: Scientific paper

Format: Journal

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



- 15** Felipe Viela; Daniel Granados; Manuel Rodriguez; Angel Ayuso-Sacido; Isabel Rodriguez. Biomechanical cell regulation by high aspect ratio nanoimprinted pillars. *Advanced Functional Materials*. 26:, pp. 5599 - 5609; IF:11.8. 2016.
Type of production: Scientific paper **Format:** Journal
- 16** Noemi García Romero; Carmen Gonzalez Tejedo; Josefa Carrión Navarro; Susana Esteban Rubio; Vanesa Rodriguez Fanjul; Jorge Oliver De la Cruz; Ricardo Prat Acín; María Peris Celda; David Blesa; Laura Ramirez Jimenez; Pilar Sanchez Gómez; Rosario Perona; Carmen Escobedo Lucea; Cristobal Belda Iniesta; Angel Ayuso Sacido. Cancer stem cells from human glioblastoma resemble but do not mimic original tumours. *Oncotarget*. 7 - 40, pp. 65888 - 65901; IF: 5.008. 2016.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 17** Gema Elvira; Isabel García; Juan Gallo; Manuel Desco; Marina Benito; Paula Montesinos; Angel Ayuso-Sacido; Soledad Penades; Augusto Silva; Jose García-Sanz. Detection of mouse endogenous type B astrocytes migrating towards brain lesions. *Stem Cell Res*. 14 - 1, pp. 114 - 129; IF: 3.693. 2015.
Type of production: Scientific paper **Format:** Journal
- 18** Sandra Milena Ocampo; Vanesa Rodriguez Fanjul; Leonor de la Cueva; Gorika Salas; Jose Lopez Carrascosa; Maria Josefa Rodriguez; Noemi Garcia; Julio Camarero; Rodolfo Miranda; Cristobal Belda; Angel Ayuso Sacido. g-force induced giant efficiency of nanoparticles internalization into living cells. *Scientific Report*. 5 - 15160, pp. IF: 5.578. Nature, 2015.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 19** Andres Sanz-Garcia; Tapio Visakorpi; Carmen Escobedo-Lucea; Pia Siljander; Angel Ayuso-Sacido; Marjo Yliperttula. Different gDNA content in the subpopulations of prostate cancer extracellular vesicles: apoptotic bodies, microvesicles, and exosomes. *Prostate*. 74 - 14, pp. 1379 - 1390; IF: 4.1. 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 20** Aitziber López-Cortajarena; Daniel Ortega; Sandra Ocampo; Alberto Gonzalez-García; Pierre Couleaud; Rodolfo Miranda; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. Engineering iron oxide nanoparticles for clinical settings. *Nanobiomedicine*. 1 - 2, pp. doi:10.5772/58841. 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 21** Jorge Oliver-De La Cruz; Josefa Carrión-Navarro; Noemi García-Romero; Antonio Gutiérrez-Martín; Elisa Lázaro-Ibáñez; Carmen Escobedo-Lucea; Rosario Perona; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. SOX2+ cell population from normal human brain white matter is able to generate mature oligodendrocytes. *Plos One*. 9 - 6, pp. e99253 - IF: 4.1. 2014.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 22** Johan Skog; Jan Lötvall; Alexander Vlasov; Angel Ayuso Sacido; Eva Rhode; Joanne Gere; Winston Patrick Kuo. Short Course in Extracellular Vesicles – The Transition from Tissue to Liquid Biopsies. *Journal of Circulating Biomarkers*. 3 - 8, 2014.
Type of production: Scientific paper
- 23** Lorea Manterola; Elizabeth Guruceaga; Jaime Gallego; Marisol Gonzalez; Patricia Jauregui; Angel Ayuso Sacido; Marta Alonso. A sncRNA signature found in microvesicles of GBM patient serum serves as a diagnostic marker. *Neuro-Oncology*. 16 - 4, pp. 520 - 527; IF: 6.118. 2013.
Type of production: Scientific paper **Format:** Journal



- 24** Natividad Pozo; Cristina Zahonero; Paloma Fernandez; Angel Ayuso Sacido; Angel Perez; Jose Ricoy; Masatoshi Hagiwara; Aurelio Hernandez; Juan Sepulveda; Pilar Sanchez Gomez. DYRK1A inhibition Impairs EGFR Stability and affects the expansion of tumor initiating cells in receptor-depending glioblastomas. *Journal of Clinical Investigation*. 123 - 6, pp. 2475 - 2487; IF: 13.069. 2013.
Type of production: Scientific paper **Format:** Journal
- 25** C. Escobedo Lucea; C. Bellver; C. Gandia; M. Iezameta; V. Maribet; G. Forte; I. Moreno; Angel Ayuso Sacido; Jose Manuel Garcia Verdugo. Isolation and maintenance of human adipose stem cells avoiding animal-origin reagents. *PlosOne*. 8 - 7, pp. 67870 - IF: 4.1. 2013.
Type of production: Scientific paper **Format:** Journal
- 26** Ricardo Prat; Inma Galeano; Giovanni Pancucci; Rocio Evangelista; Angel Ayuso Sacido; Carlos Botella. Supraorbital trans-eyebrow craniotomy and fluorescence-guided resection of fronto-basal high grade gliomas. *Clinical Neurology and Neurosurgery*. 115 - 9, pp. 1586 - 1590; IF: 1.581. 2013.
Type of production: Scientific paper **Format:** Journal
- 27** Miriam Romaguera; Maria Peris; Jorge Oliver; Josefa Carrion; Arantxa Perez; Jose Manuel Garcia; Angel Ayuso Sacido. Cancer-initiating enriched cell lines from human glioblastoma: preparing for drug discovery assays. *Stem Cell Rev*. 8 - 1, pp. 288 - 298; IF: 6.774. 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 28** Carmen Escobedo Lucea; Angel Ayuso Sacido; C Xiong; S Prado; M Sanchez; D Melguizo; C Bellver; S Gonzalez; L Valero; R Moreno; DJ Burks; M Stojkovic. Development of a Human Extracellular Matrix for applications related with Stem Cells and Tissue Engineering. *Stem Cell Rev*. 8 - 1, pp. 170 - 183; IF: 6,774. 2012.
Type of production: Scientific paper **Format:** Journal
- 29** Arantxa Perez; Josefa Carrion; Minerva Bosch; Elisa Lazaro; Ricardo Prat; Angel Ayuso Sacido. Genomic instability of surgical samples and cancer-initiating cell lines from human glioblastoma. *Frontiers in Bioscience*. 17, pp. 1469 - 1479; IF: 4.048. 2012.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 30** Angel Ayuso Sacido; Jose Garcia Verdugo. Cancer Initiating Cells and drug discovery assays. *Frontiers in Bioscience*. 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 31** J Oliver; J Carrion; J romaguera; A Gutierrez; C Escobedo; A Ayuso Sacido; JM Garcia Verdugo. Molecular Characterization of progenitor cells from human adult brain. *Trauma*. 22, pp. 122 - 129. 2011.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 32** Angel Ayuso Sacido; Stine Rasmussen; Jaime imitola; Yue wang; Sarah Starossom; Pia kivisakk; Bing Zhu; Erin Grady; Morten Meyer; Roderick Bronson; Jose Manuel Verdugo; Samia Khoury. Reversible neural stem cell niche dysfunction in a model of multiple sclerosis. *Annals of Neurology*. 69, pp. 878 - 891. 2011.
Type of production: Scientific paper **Format:** Journal
- 33** Angel Ayuso Sacido; Sebila Kratovac; Gurpreet Kapoor; Donald Rourke; Eric Holland; Neeta Roy; Jose garcia; Jonh Boockvar. Activated EGFR signaling increases proliferation, survival and migration and blocks neuronal differentiation in post-natal neural stem cells. *Journal of Neuro-Oncology*. 97, pp. 323 - 337. 2010.
Type of production: Scientific paper **Format:** Journal

Corresponding author: Yes

- 34** Annelies Crabbe; Caroline Vandeputte; Tom Dresselaers; Angel Ayuso; Jose Garcia; Joroen Eyckmans; Frank Luyten; Koen Val Laere; Catherine Verfaillie; Uwe Himmelreich. Effects of MRI Contrast Agents on the Stem Cell Phenotype. Cell Transplantation. 19, pp. 919 - 936. 2010.
Type of production: Scientific paper **Format:** Journal
- 35** Laura Gonzalez; Marta Herreros; Angel Ayuso Sacido; Rosalia Fernandez; Margarita Marquez; Gundela Meyer; Augusto Silva; Jose Garcia; Maria Marin. p73 is a positive regulator of embryonic neural stem cells self renewal through the maintenance of the developmental potential. Cell Death and Disease. 16 - 1, pp. 109. 2010.
Type of production: Scientific paper **Format:** Journal
- 36** Kevin Wong; Angel Ayuso; Patrick Anhow; Jonh Boockvar; Mingming Wu. Assessing neural stem cell motility using an agrose gel based microfluidic device. Journal of Visualized Experiments. 12, 2008.
Type of production: Scientific paper **Format:** Journal
- 37** Angel Ayuso Sacido; Neeta Roy; Theodore Schwartz; Jeffrey Greenfield; John Boockvar. Long-term expansion of adult human brain subventricular zone precursors. Neurosurgery. 62, pp. 223 - 229. 2008.
Type of production: Scientific paper **Format:** Journal
- 38** Jeffrey Greenfield; Angel Ayuso; Theodore Schwartz; Susan Pannullo; Mark Soweidane; Phillip Stieg; Jonh Boockvar. Utilization of human neural tissue for the generation of progenitors. Neurosurgery. 62, pp. 21 - 37. 2008.
Type of production: Scientific paper **Format:** Journal
- 39** Angel Ayuso Sacido; S Willey; KE Sahr; MJ Adlam; M Kyba; GQ Daley; G Keller; MH Baron. Acceleration of mesoderm development and expansion of hematopoietic progenitors in differentiating ES cells by the mouse mix-like homeodomain transcription factor. Blood. 107, pp. 3122 - 3130. 2006.
Type of production: Scientific paper **Format:** Journal
- 40** Angel Ayuso Sacido; C Graham; JP greenfield; JA Boockvar. The Duality of Epidermal Growth factor Receptor (EGFR) Signaling and Neural Stem Cell Phenotype: Cell Enhancer or Cell Transformer?. Current Stem Cells Research and Therapy. 1, pp. 231 - 238. 2006.
Type of production: Scientific paper **Format:** Journal
- 41** Angel Ayuso Sacido; C Desmond; I Gonzalez; O Salazar; A Anderson; O Genilloud. A novel strain de-replication approach base on PKS and NRPS biosynthetic pathway diversity in actinomycetes. Applied Microbiology and Biotechnology. 67, pp. 795 - 806. 2005.
Type of production: Scientific paper **Format:** Journal
- 42** I Gonzalez; A Ayuso Sacido; A Aderson; O Genilloud. Diversity of actinomycetes isolated from lichens: detection of biosynthetic gene sequences and evaluation of their antimicrobial activity. FEMS Microbiol Ecology. 54, pp. 401 - 415. 2005.
Type of production: Scientific paper **Format:** Journal
- 43** Angel Ayuso Sacido; O Genilloud. New molecular tools for the screening of NRPS and PKS-I systems in actinomycetes: Detection and distribution of these biosynthetic gene sequences in major taxonomic groups. Microbial Ecology. 49, pp. 10 - 24. 2005.
Type of production: Scientific paper **Format:** Journal
- 44** Alberto Palomar Olmeda; Cristobal Belda Iniesta; Coral Barbas Arribas; Angel Ayuso Sacido. Sustancias similares o efectos biológicos similares en la represión del dopaje deportivo: la necesidad de establecer criterios objetivos. Revista Aranzadi de derecho de deporte y entretenimiento. 47, pp. 305 - 319. 2015.



Type of production: Popular science article
Corresponding author: Yes

Format: Journal

- 45** Noemi García-Romero; Gorjana Rackov; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. The use of peripheral extracellular vesicles for identification of molecular biomarkers in mouse model of solid tumours. *Methods and Protocols*, Winston Patrick Kuo, and Jia Shidong, (Ed.), *Methods in Molecular Biology*. Springer, 2016.

Type of production: Book chapter
Corresponding author: Yes

- 46** Cristobal Belda; Esther Holgado; Ricardo Hitt; Angel Ayuso Sacido; Rosario Perona. Lectura crítica de estudios Farmacoeconómicos. *Farmacoeconomía para oncólogos médicos*. Eduardo Díaz-Rubio, 2013.

Type of production: Book chapter
Format: Book

- 47** Jorge Oliver De la cruz; Angel Ayuso Sacido. Neural Stem Cells from Mammalian Brain: Isolation Protocols and Maintenance Conditions. *Neural Stem Cells and Therapy*. Tao Sun, 2013.

Type of production: Book chapter
Format: Book
Corresponding author: Yes

- 48** Noemi García-Romero; Gorjana Rackov; Susana Esteban-Rubio; Josefa Carrión-Navarro; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. Extracellular vesicles compartment in liquid biopsies: clinical application. *Molecular Aspects of Medicine*. IF:10.860, 2018.

Type of production: Review
Format: Journal
Corresponding author: Yes

- 49** Ricardo Prat; Inmaculada Galeano; Giovanni Panucci; Angel Ayuso Sacido. 1p19q deletion in grade III oligodendroglial tumors and radiological markers. *J Neurol, Neurosurg Psychiatry*. IF: 4.764, 2013.

Type of production: Review
Format: Journal

- 50** Jesus Rodriguez-Pascual; Angel Ayuso-Sacido; Cristobal Belda-Iniesta. Drug resistance in cancer immunotherapy: new strategies to improve checkpoint inhibitor therapies. *Cancer Drug Resist*. 2019 - 2, pp. on line first. 01/11/2019.

Type of production: Bibliographic review
Format: Journal

- 51** Angel Ayuso Sacido; John Boockvar. Allodynia limits the usefulness of intraspinal neural stem cell grafts. *Neurosurgery*. 58, 2006.

Type of production: Cartas y comentarios invitados
Format: Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Ensayos clínicos: el paciente como protagonista de la investigación.
Name of the conference: 13º Congreso del Grupo Español de Pacientes con Cáncer
Type of event: Conference
Geographical area: European Union
Type of participation: Participatory - invited/keynote
Reasons for participation: Upon invitation talk
Corresponding author: Yes
City of event: Madrid, Community of Madrid, Spain
Date of event: 16/11/2018
End date: 18/11/2018
Organising entity: Grupo Español de Pacientes con Cáncer (GEPAC)
Type of entity: Associations and Groups
 Angel Ayuso Sacido.

2 **Title of the work:** Targeted Proteomics approaches to study the molecular response of glioma stem cells to an AKT inhibitor

Name of the conference: 6th Congress of the Spanish Proteomic Society (SEProt)

City of event: Cadiz, Spain

Date of event: 15/11/2016

End date: 18/11/2016

Organising entity: SEProt

Carmen Gonzalez Tejedo; Josefa Carrión Navarro; David Tabas Madrid; Juan Pablo Albar; Angel Ayuso Sacido; Severine Gharbi; Alberto Paradela.

3 **Title of the work:** Extracellular vesicles from glioblastoma can cross an intact blood-brain barrier

Name of the conference: Neuroiberia

Corresponding author: Yes

City of event: Estoril, Cape Verde

Date of event: 11/05/2016

End date: 14/05/2016

Organising entity: SPNC and SENE

Josefa Carrión Navarro; Ricardo Prat Acín; Noemí García Romero; Susana Esteban Rubio; Carlos Fernandez Carballal; Cristobal Belda Iniesta; Angel Ayuso Sacido.

4 **Title of the work:** Nuevas terapias en investigación para el tratamiento de las recidivas de glioblastom

Name of the conference: Reunión del grupo de trabajo de neuro-oncología de la sociedad española de neurocirugía (SENEC).

Corresponding author: Yes

City of event: Madrid, Community of Madrid, Spain

Date of event: 07/04/2016

End date: 08/04/2016

Organising entity: Sociedad Española de Neurocirugía

Type of entity: Associations and Groups

City organizing entity: Madrid,

Angel Ayuso Sacido. "Conferencia invitada".

5 **Title of the work:** Detection of IDH1 mutations within circulating EVs from GBM patients

Name of the conference: II International Symposium on Clinical and Basic Investigation in Glioblastoma

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

Date of event: 09/09/2015

End date: 12/09/2015

Organising entity: Red Española de Investigación en Glioblastoma

Type of entity: Foundation

City organizing entity: Madrid, Community of Madrid, Spain

Susana Esteban Rubio; Josefa Carrion Navarro; Noemi Garcia Romero; Antonio Zafra Villaverde; Ricardo Prat Acin; Carlos Fernandez Carballal; Cristobal Belda Iniesta; Angel Ayuso Sacido.

6 **Title of the work:** Glioblastoma cells extracellular vesicles can reach the bloodstream through an intact blood-brain barrier

Name of the conference: II International Symposium on Clinical and Basic Investigation in Glioblastoma

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

Date of event: 09/09/2015

End date: 12/09/2015

Organising entity: Red Española de Investigación en Glioblastoma

Type of entity: Foundation



City organizing entity: Madrid, Community of Madrid, Spain

Josefa Carrion Navarro; Noemi Garcia Romero; Susana Esteban Rubio; Antonio Zafra Villaverde; Ricardo Prat Acin; Carlos Fernandez Carballal; Cristobal Belda Iniesta; Angel Ayuso Sacido.

7 Title of the work: High-grade Glioma molecular stratification

Name of the conference: II International Symposium on Clinical and Basic Investigation in Glioblastoma

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

Date of event: 09/09/2015

End date: 12/09/2015

Organising entity: Red Española de Investigación en Glioblastoma **Type of entity:** Foundation

City organizing entity: Madrid, Community of Madrid, Spain

Antonio Zafra Villaverde; Noemi Garcia Romero; Susana Esteban Rubio; Josefa Carrion Navarro; Ricardo Prat Acin; Carlos Fernandez Carballal; Cristobal Belda Iniesta; Angel Ayuso Sacido.

8 Title of the work: Relevance of pro-angiogenic factors secretion in glioblastoma patients

Name of the conference: II International Symposium on Clinical and Basic Investigation in Glioblastoma

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

Date of event: 09/09/2015

End date: 12/09/2015

Organising entity: Red Española de Investigación en Glioblastoma **Type of entity:** Foundation

City organizing entity: Madrid, Community of Madrid, Spain

Noemi Garcia Romero; Josefa Carrion Navarro; Susana Esteban Rubio; Antonio Zafra Villaverde; Ricardo Prat Acin; Carlos Fernandez Carballal; Cristobal Belda Iniesta; Angel Ayuso Sacido.

9 Title of the work: Targeted proteomic approaches to study the molecular signature of glioma stem cells.

Name of the conference: II International Symposium on Clinical and Basic Investigation in Glioblastoma

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

Date of event: 09/09/2015

End date: 12/09/2015

Organising entity: Red Española de Investigación en Glioblastoma **Type of entity:** Foundation

City organizing entity: Madrid, Community of Madrid, Spain

C González Tejedo; V Rodríguez Fanjul; J Carrion Navarro; D Tabas Madrid; J Kennedy; P Yan; L Zhao; JR Whiteaker; AG Paulovich; A Ayuso Sacido; SI Gharbi; JP Albar.

10 Title of the work: Proteogenomic Analysis of Glioma Stem cells: A potential tool for the discovery of GBM biomarkers.

Name of the conference: HUPO 13th Annual World Congress 2014

City of event: Madrid, Community of Madrid, Spain

Date of event: 05/10/2014

End date: 08/10/2014

C Gonzalez Tejedo; SI Gharbi; A Ramos Fernandez; V Rodríguez Fanjul; A Dopazo; D Tabas Madrid; A Pascual Montano; A Ayuso Sacido; JP Albar.

11 Title of the work: Progenitor cells outside the neurogenesis niches in the adult human brain

Name of the conference: Stem Cells from the Bench to the Bedside: Future Perspectives for Regenerative Medicine FNUSA-ICRC international Conference

City of event: Brno, Czech Republic

Date of event: 06/05/2014

End date: 07/05/2014



Organising entity: FNUSA-ICRC
Angel Ayuso-Sacido.

- 12 Title of the work:** Prostate cancer cell-derived extracellular vesicle subpopulations contain different gDNA fragments.
Name of the conference: Third International Meeting of ISEV 2014
City of event: Rotterdam, Holland
Date of event: 30/04/2014
End date: 03/05/2014
Elisa Lazaro Ibañez; Andres Sanz Garcia; Carmen Escobedo Lucea; Pia Siljander; Angel Ayuso Sacido; Marjo Yliperttula.
- 13 Title of the work:** GBM cell Microvesicles carrying gDNA oncogenic sequences cross the BBB and reach the peripheral blood
Name of the conference: ASCO Annual Meeting 2014
City of event: Chicago, United States of America
Date of event: 2014
End date: 2014
Esther Holgado; Noemi García-Romero; Josefa Carrión-Navarro; Elisa Lázaro-Ibañez; Carmen Escobedo; Cristina Gonzalez-Perez; Pilar Sánchez; Marta Alonso; Lorena Manterola; Ricardo Prat; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. "J Clin Oncol 32:5s, 2014 (suppl; abstr 11073)".
- 14 Title of the work:** High level of SuFu expression and tumor cell dissemination in human Glioblastoma
Name of the conference: ASCO Annual Meeting 2014.
City of event: Chicago, United States of America
Date of event: 2014
End date: 2014
María Peris-Celda; Josefa Carrión-Navarro; Cristina Zahonero; Carmen Escobedo; Pilar Sanchez; Cristina Gonzalez-Perez; Esther Holgado; Ricardo Hit; Cristobal Belda-Iniesta; Angel Ayuso-Sacido. "J Clin Oncol 32, 1014 (suppl;abstr e22118)".
- 15 Title of the work:** Niveles elevados de CD 90 predicen la respuesta del edema al tratamiento corticoideo en pacientes con GBM.
Name of the conference: XIV congreso Nacional de Oncología Médica (SEOM).
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Salamanca, Spain
Date of event: 23/10/2013
End date: 25/10/2013
Cristobal Belda; Ricardo Prat; Javier de Castro; Inmaculada Ibañez; Rosario Perona; Angel Ayuso Sacido.
- 16 Title of the work:** Extracellular microvesicles derived from glioblastoma cells could improve tumor diagnosis and follow-up of patients.
Name of the conference: Encuentro multidisciplinar de Neurooncología Española.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Pamplona, Spain
Date of event: 10/10/2013
End date: 11/10/2013
Noemí Garcia; Ricardo Prat; Cristobal Belda; Angel Ayuso Sacido.



- 17** **Title of the work:** Characterization of Cancer initiating cell subpopulation isolated from human GBM: Analysis of therapeutic targets against cancer initiating cells.
Name of the conference: Tres años de Investigaciones en oncología.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 04/02/2013
End date: 05/02/2013
Angel Ayuso Sacido.
- 18** **Title of the work:** Advances in the molecular diagnostic and follow-up of glioblastoma patients.
Name of the conference: 22 Congress of the levante neurosurgery society for Valencia and Murcia community
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 30/11/2012
End date: 01/12/2012
Angel Ayuso Sacido.
- 19** **Title of the work:** Circulating Microvesicles in Serum: Could they serve as a new diagnostic tool for GBM patients?
Name of the conference: 10th Congress of the European-Association-of-NeuroOncology
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Marselle, France
Date of event: 06/09/2012
End date: 09/09/2012
JG Perez; A Matheu; A Ayuso-sacido; S Paris; R Diez; LD de Munain; L Manterola; M Alonso.
- 20** **Title of the work:** Cost-Effectiveness analysis per life-year gained based on predictors of response for first line metastatic colorectal cancer therapy
Name of the conference: 2012 ASCO Annual Meeting
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Chicago, Illinois, United States of America
Date of event: 01/06/2012
End date: 05/06/2012
Cristobal Belda; Victor Moreno; Laura Mezquita; Inmaculada Ibañez; Angel Ayuso Sacido; Jose M Peña; Rosario Perona.
- 21** **Title of the work:** Year to year budget analysis of biological therapies for first-line metastatic colorectal cancer (MCR) therapy in Spain.
Name of the conference: 2012 ASCO Annual Meeting
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Chicago, Illinois, United States of America
Date of event: 01/06/2012
End date: 05/06/2012
Cristobal Belda; Victor Moreno; Laura Mezquita; Inmaculada Ibañez; Angel Ayuso Sacido; Jose M Peña; Rosario Perona.



- 22** **Title of the work:** Análisis coste-efectividad basado en predictores de respuesta para terapias de primera línea en cáncer colorrectal metastásico en España
Name of the conference: XXXII jornadas de Economía de la Salud
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 15/05/2012
End date: 18/05/2012
V Moreno; B Martinez; I Ibañez; A Ayuso Sacido; JM Peña; R perona; Z Saz-parkinson; JM Amate.
- 23** **Title of the work:** Análisis coste-efectividad de cetuximab y panitumumab en primera línea para el tratamiento del cáncer colorrectal metastásico en España.
Name of the conference: XXXII jornadas de Economía de la Salud
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 15/05/2012
End date: 18/05/2012
- 24** **Title of the work:** Análisis de impacto presupuestario de las terapias biológicas en primera línea para el tratamiento del cáncer colorrectal metastásico en España
Name of the conference: XXXII jornadas de Economía de la Salud
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 15/05/2012
End date: 18/05/2012
B Martinez; L Mezquita; I Ibañez; A Ayuso; R Perona; C Belda.
- 25** **Title of the work:** Identification of mitotically competent SOX2+ cells in the white matter of normal human adult brain
Name of the conference: IIB
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 27/01/2012
Angel Ayuso Sacido.
- 26** **Title of the work:** Targetting cancer-initiating cells from human glioblastoma.
Name of the conference: INTERBIO
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Bordeaux, France
Date of event: 26/06/2011
End date: 30/06/2011
Angel Ayuso Sacido.
- 27** **Title of the work:** Differences in expression of Hedgehog-Gli intermediates allow to classify astrocytic tumours and tumour stem cells in subgroups and are related to important clinical characteristics
Name of the conference: Translational Cancer Medicine (AACR)
Type of event: Conference



Type of participation: 'Participatory - poster
City of event: San Francisco, California, United States of America
Date of event: 23/06/2011
End date: 25/06/2011
M Peris; M Romaguera; J Oliver; JM garcia Verdugo; A Beltran; A Ayuso Sacido.

- 28** **Title of the work:** Glioblastoma tumor initiating cells enriched cultures establishment and biological characterization
Name of the conference: International Symposium on Clinical and Basic Investigation in Glioblastoma
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 23/06/2011
End date: 25/06/2011
C Zahonero; P Fernandez; N Pozo; R Perez; A Hernandez; JR Ricoy; JM Sepulveda; P Gonzalez; A Ayuso; P Sanchez.
- 29** **Title of the work:** Hedgehog-Gli deregulation in glial tumors and clinical relevance.
Name of the conference: International Symposium on Clinical and Basic Investigation in Glioblastoma
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 23/06/2011
End date: 25/06/2011
Maria Peris; Jorge Oliver; Carlos Botella; Jose Manuel Garcia Verdugo; Angel Ayuso Sacido.
- 30** **Title of the work:** High levels of supresor-of-fused (SuFu) expresión correlatos with increased dissemination in human glioblastoma.
Name of the conference: International Simposyum on Clinical and Basic Investigation in Glioblastoma.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 23/06/2011
End date: 25/06/2011
Angel Ayuso Sacido.
- 31** **Title of the work:** Isolation and morphological characterization and quantification of human glioblastoma initiating-cells derived microvesicles.
Name of the conference: International Symposium on Clinical and Basic Investigation in Glioblastoma.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 23/06/2011
End date: 25/06/2011
E Ibañez; L Monterola; M Alonso; JM garcia; Angel Ayuso Sacido.
- 32** **Title of the work:** Metabolomic and genomic characterization of cancer initiating cells from human glioblastoma multiforme cultured under different oxygen concentrations.
Name of the conference: International Symposium on Clinical and Basic Investigation in Glioblastoma.
Type of event: Conference
Type of participation: 'Participatory - poster



City of event: Valencia,
Date of event: 23/06/2011
End date: 25/06/2011
City organizing entity: Spain
M Bosch; V Guardiola; T Caballero; A Perez; J Oliver; E Lazaro; A Ayuso Sacido.

33 Title of the work: Brevican Absence and YKL-40 over-expression are associated to the mesenchymal profile and in vitro 3D-Neurosphere growth of human glioma
Name of the conference: International Symposium on Clinical and Basic Investigation in Glioblastoma
City of event: Valencia, Spain
Date of event: 23/06/2011
End date: 25/06/2011
P Fernandez; Y Oriega; N Pozo; A Ayuso; M Peris; R garcia; F Vidal; P Sanchez.

34 Title of the work: TP73 regulates neural progenitor cell self-renewal and differentiation.
Name of the conference: Oncobio
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Salamanca, Spain
Date of event: 26/11/2010
End date: 27/11/2010
L Gonzalez; M Herreros; Angel Ayuso; Jose Garcia; Silvia Marquez; Carmen Marin.

35 Title of the work: TP73 regulates neural progenitor cell self-renewal and differentiation.
Name of the conference: Oncobio
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Salamanca, Spain
Date of event: 26/11/2010
End date: 27/11/2010
L Gonzalez; R Fernandez; A Ayuso-sacido; JM Garcia; A Silva; M Marquez; C Marin.

36 Title of the work: The Hh-Gli intermediates gene expresión correlatos with higher dissemination through the white matter
Name of the conference: XV Congreso Nacional de la Sociedad Española de Neurocirugía
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: A Coruña, Spain
Date of event: 12/05/2010
End date: 14/05/2010
M Peris; A Ayuso-sacido; JM Garcia; JA Alvarez; A Beltran.

37 Title of the work: Endogenous activation of neural stem cell niche in neurodegenerative diseases.
Name of the conference: V International meeting on translational research and personalized medicine
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 11/02/2010
Angel Ayuso Sacido.



- 38** **Title of the work:** Adult neural stem cells and brain tumor-initiating cells.
Name of the conference: ITERBIO
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 18/01/2010
End date: 21/01/2010
Angel Ayuso Sacido.
- 39** **Title of the work:** P73 locus is a positive regulator of the neural stem cells proliferation and self-renewal.
Name of the conference: II Workshop Understanding Cancer Stem Cells
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: La Coruña, Spain
Date of event: 02/10/2009
End date: 03/10/2009
L Gonzalez; M Herreros; A Ayuso; G Meyer; A Silva; JM Garcia; MC Marin.
- 40** **Title of the work:** Tumor Stem Cells From Human GBM and Drug Discovery Assay
Name of the conference: II Workshop Understanding Cancer Stem Cells
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: La coruña, Spain
Date of event: 02/10/2009
End date: 03/10/2009
Angel Ayuso Sacido.
- 41** **Title of the work:** Characterization of New Molecular Markers in Human Adipose Stem Cells (HAMSC)
Name of the conference: V Congreso de la Sociedad Española de Terapia Génica y Celular
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 30/09/2009
End date: 02/10/2009
C Bellver; A Ayuso-sacido; S Gonzalez; MC Escobedo; JM Garcia Verdugo.
- 42** **Title of the work:** Characterization of human oligodendrocyte progenitor cells through different passages
Name of the conference: V Congreso de la Sociedad Española de Terapia Génica y Celular
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Granada, Spain
Date of event: 30/09/2009
End date: 02/10/2009
- 43** **Title of the work:** Biological application of proton Beam: Translational research in tumour treatment.
Name of the conference: IFIMED
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 10/06/2009
End date: 12/06/2009



Angel Ayuso Sacido.

- 44** **Title of the work:** The expression of Hh-Gli pathway intermediates allows for the classification of different GBM subpopulations and correlates with higher dissemination through the white matter.
Name of the conference: XIV Annual Meeting of the Society for Neurosurgery
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain
Date of event: 14/05/2009
End date: 15/05/2009
Maria Peris; Angel Ayuso Sacido; Jose Manuel Garcia Verdugo; Jose Andres Alvarez.
- 45** **Title of the work:** Cancer-Initiating cells versus traditional cell lines: toward a more reliable in vitro GBM model.
Name of the conference: XIII Annual Meeting of the Society for Neurosurgery
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 28/05/2008
End date: 30/05/2008
- 46** **Title of the work:** Isolation of Cancer-Initiating Cells From Glioblastoma
Name of the conference: Inbiomed
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Valencia, Spain
Date of event: 20/12/2007
Angel Ayuso Sacido.
- 47** **Title of the work:** Diverse genetic backgrounds determines EGFR mediated response to Erlotinib in GBM cell lines.
Name of the conference: 12th meeting of Society for Neuro-oncology
Type of event: Conference
Type of participation: Participatory - poster
City of event: Dallas,
Date of event: 15/11/2007
End date: 18/11/2007
City organizing entity: United States of America
S Kratovac; A Ayuso; J Boockvar.
- 48** **Title of the work:** Activated EGFR signaling induces proliferation, survival, and migration and blocks neuronal differentiation in postnatal neural stem cells
Name of the conference: XII Annual Meeting of the Society for Neuroscience
City of event: Valencia, Spain
Date of event: 05/09/2007
End date: 09/09/2007
- 49** **Title of the work:** Cytotoxicity of statins on Glioblastoma cells with varying levels of EGFR signalling.
Name of the conference: 11th annual meeting of the Society for Neuro-Oncology
Type of event: Conference
Type of participation: Participatory - poster



City of event: Orlando, United States of America

Date of event: 16/11/2006

End date: 19/11/2006

D Nori; G Li; A Ayuso-sacido; JA Boockvar.

50 Title of the work: Funtion of the MIX-LIKE Homeodomain Transcription Factor in Mesoderm and Hematopoietic Development

Name of the conference: 4th meeting of the International Stem Cell Research

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Toronto, Canada

Date of event: 28/06/2006

End date: 01/07/2006

S Willey; A Ayuso-sacido; H Zhang; MH Baron.

51 Title of the work: Development of an adult human neural stem cell bank

Name of the conference: AANS

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: San Francisco, United States of America

Date of event: 2006

A Ayuso; C Graham; FS Ahmad; JA Boockvar.

52 Title of the work: Specification of mesodermal lineages by the mouse Mix homeodomain Transcription factor

Name of the conference: 3rd meeting of the International Stem Cell Research

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: San Francisco, United States of America

Date of event: 23/06/2005

End date: 25/06/2005

MH Baron; S Willey; A Ayuso Sacido.

53 Title of the work: Detection of PKS and NRPS biosynthetic systems by PCR amplification is related to antimicrobial activity in wild type actinomycetes populations

Name of the conference: Meeting of the Spanish Society for Microbiology (SEMIX)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Santiago de Compostela, Spain

Date of event: 20/09/2003

End date: 25/09/2003

A Ayuso-sacido; O Genilloud.

54 Title of the work: NRPS and PKS-I multiplex PCR amplification: an efficient alternative method to detect the potential of actinomycetes taxa for the production of secondary metabolites

Name of the conference: IV Meeting of Molecular Microbiology Group (Spanish Society for Microbiology)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Santander, Spain

Date of event: 18/09/2002

End date: 20/09/2002



A Ayuso-sacido; O Genilloud.

55 Title of the work: Occurrence of PKS-I and NRPS sequences in different taxa of actinomycetes: Detection and evaluation of their diversity by restriction analysis fingerprinting

Name of the conference: International Union of Microbiological Sciences: Bacteriology and Applied Microbiology 10th Congress

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Paris, France

Date of event: 27/07/2002

End date: 01/08/2002

A Ayuso-sacido; O Genilloud.

56 Title of the work: Molecular tools to screen the biosynthetic potential of polyketide compounds in microbial populations of the order Actinomycetales

Name of the conference: XVIII Meeting of the Spanish Society for Microbiology (SEM XVII)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Alicante, Spain

Date of event: 16/09/2001

End date: 20/09/2001

A Ayuso-sacido; O Genilloud.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1 Committee title:** Coordination Board
Primary (UNESCO code): 331400 - Medical technology
Affiliation entity: Fundación para la innovación y prospectiva en salud de España **Type of entity:** Foundation
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 20/11/2018
- 2 Committee title:** Executive Committee for I+D+i
Primary (UNESCO code): 320101 - Cancerology
Secondary (UNESCO code): 320199 - Other
Affiliation entity: Fundación de Investigación HM Hospitales
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 2015
- 3 Committee title:** Scientific Committee
Primary (UNESCO code): 320199 - Other
Affiliation entity: Spanish Glioblastoma Network (REIG)
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 2014



Organization of R&D activities

- 1** **Title of the activity:** II International Symposium on Clinical and Basic Investigation in Glioblastoma
Type of activity: Congreso Internacional **Geographical area:** Non EU International
Convening entity: REIG y UCLM **Type of entity:** Associations and Groups
City convening entity: Toledo,
Type of participation: Chairman
Start-End date: 09/09/2015 - 11/09/2015
- 2** **Title of the activity:** I Encuentro Multidisciplinar de Neurooncología Española
Geographical area: National
City convening entity: Pamplona, Spain
Type of participation: Organiser
Start-End date: 10/10/2013 - 11/10/2013
- 3** **Title of the activity:** International Symposium on Clinical and Basic Investigation in Glioblastoma
Geographical area: European Union
City of event: Spain
City convening entity: Valencia, Spain
Type of participation: Chairman
Start-End date: 23/06/2011 - 25/06/2011
- 4** **Title of the activity:** I Congreso Nacional de la Sociedad Española de Neurocirugía Funcional y Estereotáctica (SENEFE)
Geographical area: National
City convening entity: Valencia, Spain
Type of participation: Miembro comité científico
Start-End date: 25/11/2010 - 27/11/2010
- 5** **Title of the activity:** Neurooncology Workshop at the XIII Annual Meeting of the Society for Neurosurgery
Type of activity: Workshop **Geographical area:** European Union
City convening entity: Valencia, Spain
Type of participation: moderador
Start-End date: 28/05/2008 - 30/05/2008
- 6** **Title of the activity:** Red Española de Investigación en Glioblastoma (REIG)
Type of activity: Asociación privada sin ánimo de lucro **Geographical area:** National
City convening entity: Madrid, Spain
Type of participation: Chairman



R&D management

- 1** **Name of the activity:** Towards an active bypass for neural reconnection
Type of management: Group management
Performed tasks: Co-Invesestigador Principal
Entity: Fundación IMDEA Nanoscience
Start date: 01/01/2017
Type of entity: State agency
Duration: 4 years
- 2** **Name of the activity:** Utilization of liquid biopsies for the molecular diagnosis and follow-up of pediatric glioma patients
Type of management: Group management
Performed tasks: Co-Investigador Principal
Entity: Fundación de Investigación HM Hospitales
Start date: 01/09/2016
Duration: 3 years
- 3** **Name of the activity:** Development of a diagnostic KIT from blood (liquid biopsy) in brain tumour patients
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Fundación de Investigación HM Hospitales
Start date: 01/05/2016
Duration: 3 years
- 4** **Name of the activity:** Therapy optimization in glioblastoma: An integrative human data-based approach using mathematical models
Type of management: Management of R&D&I actions and projects
Performed tasks: Co-Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2016
Duration: 3 years
- 5** **Name of the activity:** Scientific Director
Type of management: Programme management
Performed tasks: Direct and Coordinate the Translational and Clinical Research Program at Fundación de Investigación HM Hospitales
Entity: Fundación de Investigación HM Hospitales
Start date: 2016
Duration: 2 years
- 6** **Name of the activity:** Incorporación del análisis masivo de expresión en la identificación de dopaje
Type of management: Management of R&D&I actions and projects
Performed tasks: Co-Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2015
Duration: 3 years
- 7** **Name of the activity:** Inmunoterapia con un anticuerpo monoclonal frente a tumores de cerebro de alto grado (Gliomatherapy).
Type of management: Management of R&D&I actions and projects
Performed tasks: Co-Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2015
Duration: 4 years



- 8** **Name of the activity:** Utilización del Contenido de microvesículas circulantes en sangre periférica para el diagnóstico, estratificación y seguimiento de pacientes con glioms de alto grado
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador Principal
Entity: Fundación Hospital de Madrid
Start date: 2015 **Duration:** 3 years
- 9** **Name of the activity:** Identificación de nuevas dianas terapéuticas y marcadores diagnóstico basado en el análisis de microvesículas aisladas de pacientes con GBM
Type of management: Group management
Performed tasks: Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2012 **Duration:** 5 years
- 10** **Name of the activity:** Red Española de Investigación en Glioblastoma (REIG)
Type of management: Management of body
Performed tasks: Fundador y Presidente
Entity: REIG **Type of entity:** Associations and Groups
Start date: 2011
- 11** **Name of the activity:** Identificación de nuevas dianas terapéuticas y marcadores diagnóstico basado en el análisis de microvesículas aisladas de pacientes con GBM
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2011 **Duration:** 2 years
- 12** **Name of the activity:** Caracterización de la subpoblación de células madre tumorales de GBM humano.: Análisis de dianas terapéuticas frente a células madre tumorales
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador principal
Entity: Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
Start date: 2010 **Duration:** 2 years
- 13** **Name of the activity:** Caracterización de la subpoblación de células madre tumorales de GBM humano
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador principal
Entity: FUNDACION HOSPITAL MADRID
Start date: 2009 **Duration:** 2 years
- 14** **Name of the activity:** Evaluación de la capacidad de remielinización de progenitores de oligodendrocitos aislados de muestras de cerebro humano adulto
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador principal
Entity: Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
Start date: 2009 **Duration:** 2 years
- 15** **Name of the activity:** Regeneración de mielina en el sistema nervioso central
Type of management: Management of R&D&I actions and projects
Performed tasks: Investigador principal
Entity: Centro de Investigación Príncipe Felipe **Type of entity:** Foundation



Start date: 2009

Evaluation and revision of R&D projects and articles

- 1** **Name of the activity:** Coordinator
Performed tasks: Member of the Coordination Board
Entity where activity was carried out: Fundación para la innovación y prospectiva en salud de España
City of entity: Madrid,
Start date: 2018
- 2** **Performed tasks:** Evaluation of Scientific Projects
Entity where activity was carried out: COMUNIDAD AUTONOMA DEL PAIS VASCO
Start date: 2017
- 3** **Performed tasks:** Evaluation of Scientific Projects
Entity where activity was carried out: Consejería de Sanidad de la Junta de Castilla La Mancha
Start date: 2017
Type of entity: Evaluation of Projects
- 4** **Performed tasks:** Evaluation of Scientific Projects
Entity where activity was carried out: Consejería de Salud de la Junta de Andalucía
Start date: 2017
Type of entity: evaluation of project
- 5** **Performed tasks:** Evaluation of scientific projects
Entity where activity was carried out: Fundación para la innovación y prospectiva en salud de España
Start date: 01/12/2016
Type of entity: Foundation
- 6** **Performed tasks:** Evaluation of scientific projects
Entity where activity was carried out: MINISTERIO DE EDUCACION Y CIENCIA
Start date: 01/01/2016
- 7** **Performed tasks:** Evaluation of scientific projects
Entity where activity was carried out: Instituto de Salud Carlos III
Start date: 01/01/2016
Type of entity: Public Research Body
- 8** **Performed tasks:** Evaluation of Scientific Projects
Entity where activity was carried out: idipaz
Start date: 2016
- 9** **Performed tasks:** Evaluation of scientific projects
Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva
Start date: 01/01/2013
Type of entity: Statal



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Hospital Weill Cornell **Type of entity:** Healthcare Institutions
Faculty, institute or centre: Departamento de Neurocirugia
City of entity: New York, United States of America
Start-End date: 2007 - 2007 **Duration:** 1 year
Goals of the stay: Contracted
- 2** **Entity:** Hospital Weill Cornell **Type of entity:** Healthcare Institutions
Faculty, institute or centre: Departamento de Neurocirugia
City of entity: New York, United States of America
Start-End date: 2005 - 2006 **Duration:** 2 years
Goals of the stay: Post-doctoral
- 3** **Entity:** Universidad de Helsinki **Type of entity:** University
Faculty, institute or centre: División de Biofarmacia y Farmacocinética
City of entity: Helsinki, Finland
Start date: 2012 **Duration:** 1 year
Goals of the stay: Guest
- 4** **Entity:** Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
City of entity: Valencia, Spain
Start date: 2009 **Duration:** 2 years
Goals of the stay: contratado
- 5** **Entity:** Centro de Investigación Príncipe Felipe **Type of entity:** Foundation
City of entity: Valencia, Spain
Start date: 2007 **Duration:** 2 years
Goals of the stay: Contratado
- 6** **Entity:** Hospital Mount Sinai **Type of entity:** Healthcare Institutions
Faculty, institute or centre: Escuela de Medicina
City of entity: New York, Spain
Start date: 2003 **Duration:** 1 year - 2 months
Goals of the stay: Post-doctoral

Obtained grants and scholarships

- 1** **Name of the grant:** Contrato Miguel Servet tipo II
Aims: Investigador Principal
Awarding entity: Instituto de Salud Carlos III **Type of entity:** Public Research Body
Conferral date: 01/01/2017 **Duration:** 3 years
End date: 01/01/2020
Entity where activity was carried out: Fundación de Investigación HM Hospitales



- 2** **Name of the grant:** Contrato Miguel Servet Tipo I
Awarding entity: Instituto de Salud Carlos III **Type of entity:** Public Research Body
Conferral date: 2012 **Duration:** 5 years
Entity where activity was carried out: Fundación de Investigación HM Hospitales
- 3** **Name of the grant:** Beca Posdoctoral. Programa Fulbright/MEC
Aims: Post-doctoral
Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency
Conferral date: 2005 **Duration:** 2 years
Entity where activity was carried out: Mount Sinai Hospital and Weill Cornell Hospital
- 4** **Name of the grant:** Beca Predoctoral
Aims: Pre-doctoral
Awarding entity: Ministerio de Ciencia y Tecnología **Type of entity:** State agency
Conferral date: 2000 **Duration:** 4 years
Entity where activity was carried out: Merck Sharp & Dohme España, S.A.
Faculty, institute or centre: CIBE
- 5** **Name of the grant:** Beca de Posgrado
Aims: posgrado
Awarding entity: Fundación Universidad Autónoma de Madrid
Conferral date: 1999 **Duration:** 1 year
Entity where activity was carried out: Merck Sharp & Dohme España, S.A.
Faculty, institute or centre: CIBE

Co-operation networks

- 1** **Name of the network:** Spanish Glioblastoma Network (REIG)
Nº of researchers: 40
City selection entity: Spain
Tasks carried out: Co-Fundador y Presidente
Start date: 2011
- 2** **Name of the network:** Red de Enfermedades Neurodegenerativas (CIBERNED)
Identification of the network: CB06/05/1131
Tasks carried out: Investigador dentro del Área 1 Dirigido por el Profesor García-Verdugo
Start date: 2007 **Duration:** 3 years

Prizes, mentions and distinctions

Description: Best Project in Tissue Engineering
Awarding entity: Valencia idea 2009 **Type of entity:** State agency
City awarding entity: Valencia, Spain
Conferral date: 2009