



Alberto Rastrojo Lastras

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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.

During my research career I have acquired a broad experience in microbiology and molecular biology techniques, which I have employed in a wide range of experimental scenarios. In parallel, I have managed to develop a strong bioinformatics capacitation related to the processing and analysis of Next Generation Sequencing (NGS) data.

During my PhD, I characterized, at both the genetic and functional level, several MHC class III region human genes (NCR3, RAGE, CSNK2B, and other genes from Ly6G family), describing all alternative splicing (AS) variants and chimeric transcripts from these genes among different mammals to gain insight into the overall functional and evolutionary roles of AS.

Simultaneously, I participated in many collaborations related to AS and NGS. Among others, we described the transcriptional noise derived from different amounts of mitochondria caused by asymmetric cell division, as well as its influence in AS alterations. We also described the first *Leishmania* transcriptome, and more recently we have produced a curated assembly of the genomes of the three main *Leishmania* species (major, infantum and braziliensis).

With this background, I moved to the NGS analysis facility at Centro de Biología Molecular Severo Ochoa after completing my PhD. During that period, I was implicated in many different NGS-related projects featuring transcriptomics (RNA-Seq), metagenomics (both amplicon based and shotgun), genome assembly and Chip-seq approaches, among others.

More recently, I moved to Dr. Alcamí's group, where I am engaged in various projects focused on metagenomics, not only as the bioinformatics expert, but also taking part in an Antarctic expedition for the collection of new samples, and developing all wet lab procedures. In this regard, I am the senior PostDoc of the metagenomic line of the group. Within this line, we recently published the first characterization of RNA viral quasispecies in any natural ecosystem, as well as the first description of RNA viruses in Antarctica. I was also working within a Comunidad de Madrid consortium (AIRBIOTA) to implement the experimental and metagenomic approaches needed to identify unknown viruses in air samples. Additionally, I was also implicated in other projects within the group dedicated to the understanding of how viruses (poxviruses and herpesviruses) modulate the host immune response, using transcriptomics, animal models and innovative techniques such as the use of CRISPR-Cas9 system, intravital microscopy or surface plasmon resonance. More recently, I have been working in a SARS-CoV-2 project aimed to study the air transmission of the virus in hospitals and other important public infrastructures.



I believe that the strength of my CV rests on two pillars; a strong and complementary wet lab and bioinformatics skill set, still an uncommon combination nowadays, and significant experience in fields as diverse as gene expression, parasitology and metagenomics. Overall, I consider that both my research history and production speak positively of my professional drive.



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.

Número Publicaciones: 36

Publicaciones D1: 3

Publicaciones Q1: 23

Publicaciones como primer autor: 10

Índice de impacto medio (últimos 5 años): 4.6

Nº medio de publicaciones por año (últimos 5 años): 5

Nº de citas: 458

Índice H: 12

Códigos de investigador para consultar esta información:

Researcher ID: N-4607- 2014

Orcid code: 0000-0003- 4381-7267

Scopus Author ID: 25958817700

Master projects direction: 3

Thesis direction: 2

Alberto Rastrojo Lastras

Surname(s): **Rastrojo Lastras**
Name: **Alberto**
ORCID: **0000-0003-4381-7267**
ScopusID: **25958817700**
ResearcherID: **N-4607-2014**
Contact aut. region/reg.: **Community of Madrid**

Current professional situation

Employing entity: Universidad Autónoma de Madrid **Type of entity:** University Department
Department: Biología, Facultad de Ciencias
Professional category: Profesor Ayudante Doctor
Start date: 19/11/2020
Type of contract: Temporary employment contract **Dedication regime:** Full time

Previous positions and activities

	Employing entity	Professional category	Start date
1	Consejo Superior de Investigaciones Científicas	Investigador Postdoctoral	01/07/2020
2	Universidad Autónoma de Madrid	Investigador Postdoctoral	01/01/2020
3	Universidad Autónoma de Madrid	Investigador Postdoctoral	01/05/2019
4	Universidad Autónoma de Madrid	Investigador Postdoctoral	01/10/2018
5	Consejo Superior de Investigaciones Científicas	Investigador Postdoctoral	01/02/2015
6	Consejo Superior de Investigaciones Científicas	Investigador Postdoctoral	01/10/2014
7	FUNDACION SEVERO OCHOA	Colaborador Investigador	01/10/2013
8	Centro de Biología Molecular Severo Ochoa	Contratado Predoctoral (FPU)	01/05/2011
9	Centro de Biología Molecular Severo Ochoa	Becario Predoctoral (FPU)	01/08/2009
10	Centro de Biología Molecular Severo Ochoa	Becario Predoctoral (Fundación Severo Ochoa)	01/06/2007
11	Instituto de Investigaciones Biomédicas Alberto Sols	Becario Predoctoral (Ayuda para Inicio de Estudios en Programas de Posgrado, UAM)	01/01/2007
12	Instituto de Investigaciones Biomédicas Alberto Sols	Becario Predoctoral (Fondo de Investigaciones Sanitarias, FIS)	01/10/2006
13	Centro Nacional de Biotecnología		01/10/2005



Employing entity	Professional category	Start date
	Estudiante fin de carrera (Beca de colaboración, Ministerio de Educación y Ciencia)	

- 1** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Professional category: Investigador Postdoctoral
Start-End date: 01/07/2020 - 18/11/2020 **Duration:** 4 months - 18 days
- 2** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University Department
Department: Departamento Biología Molecular, Centro de Biología Molecular Severo Ochoa
Professional category: Investigador Postdoctoral
Start-End date: 01/01/2020 - 31/05/2020 **Duration:** 6 months
Type of contract: Temporary employment contract
Field of management activity: University
- 3** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University Department
Department: Departamento Biología Molecular, Centro de Biología Molecular Severo Ochoa
Professional category: Investigador Postdoctoral
Start-End date: 01/05/2019 - 31/12/2019 **Duration:** 6 months
Type of contract: Temporary employment contract
Field of management activity: University
- 4** **Employing entity:** Universidad Autónoma de Madrid **Type of entity:** University Department
Department: Departamento Biología Molecular, Centro de Biología Molecular Severo Ochoa
Professional category: Investigador Postdoctoral
Start-End date: 01/10/2018 - 31/03/2019 **Duration:** 6 months
Type of contract: Temporary employment contract
Field of management activity: University
- 5** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Professional category: Investigador Postdoctoral
Start-End date: 01/02/2015 - 30/09/2018 **Duration:** 3 years - 7 months
- 6** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Professional category: Investigador Postdoctoral
Start-End date: 01/10/2014 - 31/01/2015 **Duration:** 1 year
- 7** **Employing entity:** FUNDACION SEVERO OCHOA
Professional category: Colaborador Investigador
Start-End date: 01/10/2013 - 30/09/2014 **Duration:** 1 year
- 8** **Employing entity:** Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
Professional category: Contratado Predoctoral (FPU)
Start-End date: 01/05/2011 - 30/04/2013 **Duration:** 2 years



- 9** **Employing entity:** Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
Professional category: Becario Predoctoral (FPU)
Start-End date: 01/08/2009 - 30/04/2011 **Duration:** 1 year - 9 months
- 10** **Employing entity:** Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
Professional category: Becario Predoctoral (Fundación Severo Ochoa)
Start-End date: 01/06/2007 - 01/08/2009 **Duration:** 1 year - 9 months
- 11** **Employing entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency
Professional category: Becario Predoctoral (Ayuda para Inicio de Estudios en Programas de Posgrado, UAM)
Start-End date: 01/01/2007 - 31/05/2007 **Duration:** 5 months
- 12** **Employing entity:** Instituto de Investigaciones Biomédicas Alberto Sols **Type of entity:** State agency
Professional category: Becario Predoctoral (Fondo de Investigaciones Sanitarias, FIS)
Start-End date: 01/10/2006 - 31/12/2006 **Duration:** 3 months
- 13** **Employing entity:** Centro Nacional de Biotecnología **Type of entity:** State agency
Professional category: Estudiante fin de carrera (Beca de colaboración, Ministerio de Educación y Ciencia)
Start-End date: 01/10/2005 - 30/06/2006 **Duration:** 9 months



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Bioquímica

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

Date of qualification: 30/06/2006

Doctorates

Doctorate programme: Biología molecular

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

City degree awarding entity: Madrid, Community of Madrid, Spain

Date of degree: 13/12/2013

DEA awarding entity: Universidad Autónoma de Madrid

Date DEA was awarded: 01/10/2008

European doctorate: No

Thesis title: Estudio comparativo del splicing alternativo del gen NCR3 en diferentes especies de mamíferos y sus posibles implicaciones funcionales

Thesis director: Begoña Aguado Orea

Obtained qualification: Sobresaliente "Cum laude"

Recognition of quality: Yes

Special doctorate award: No

Other postgraduate university studies

Postgraduate qualification: Diploma de Estudios Avanzados (DEA). Programa Biología Molecular

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

Faculty, institute or centre: Facultad de Ciencias

Date of qualification: 01/10/2008



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

- 1** **Training title:** Illumina Training - MiniSeq System
Awarding entity: Illumina **Type of entity:** Business
End date: 15/07/2020 **Duration in hours:** 8 hours
- 2** **Training title:** RIESGO BIOLÓGICO EN CENTROS DE INVESTIGACION
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
End date: 06/04/2020 **Duration in hours:** 3 hours
- 3** **Training title:** II BioInfoCAM Meeting Madrid
Awarding entity: INSTITUTO NACIONAL DE INVESTIGACIÓN Y TECNOLOGÍA AGRARIA Y ALIMENTARIA (INIA)
End date: 16/10/2019 **Duration in hours:** 8 hours
- 4** **Training title:** Charles River & The Jackson Laboratory Seminar 2018
Awarding entity: Charles River & The Jackson Laboratory **Type of entity:** Technological Centre
End date: 07/05/2019 **Duration in hours:** 2 hours
- 5** **Training title:** NGS and supercomputing, life as a couple (II)
Awarding entity: Centro de Biología Molecular Severo Ochoa (CBMSO) **Type of entity:** State agency
End date: 27/09/2018 **Duration in hours:** 6 hours
- 6** **Training title:** I Reunión Bioinformática y Biología Computacional Comunidad de Madrid
Awarding entity: FUNDACIÓN IMDEA ALIMENTACIÓN
End date: 18/09/2018 **Duration in hours:** 8 hours
- 7** **Training title:** Criopreservación de embriones y gametos de ratón. Ventajas de hacer un archivo.
Awarding entity: Centro de Biología Molecular Severo Ochoa (CBMSO) **Type of entity:** State agency
End date: 28/02/2018 **Duration in hours:** 2 hours
- 8** **Training title:** Desarrollo web con Python Avanzado Csic
Awarding entity: Consejo Superior de Investigaciones Científicas (CSIC) **Type of entity:** State agency
End date: 18/11/2017 **Duration in hours:** 60 hours
- 9** **Training title:** Bienestar en animales de experimentación. Evaluación, requisitos legales y técnicas de mejora.
Awarding entity: Centro de Biología Molecular Severo Ochoa (CBMSO) **Type of entity:** State agency
End date: 24/10/2017 **Duration in hours:** 2 hours
- 10** **Training title:** ESTADÍSTICA APLICADA + AVANZADA. DISEÑO DE EXPERIMENTOS Y ANÁLISIS MULTIVARIANTE
Awarding entity: Consejo Superior de Investigaciones Científicas (CSIC) **Type of entity:** State agency



End date: 16/10/2017

Duration in hours: 20 hours

11 Training title: Linux Avanzado

Awarding entity: Universidad Autónoma de Madrid (Centro de Computación Científica)

End date: 19/06/2017

Duration in hours: 25 hours

12 Training title: FUNDAMENTOS DE ESTADÍSTICA APLICADA A LA INVESTIGACIÓN. MUESTREO, DISEÑO EXPERIMENTAL E INFERENCIA 1ª EDICIÓN

Awarding entity: Consejo Superior de Investigaciones Científicas (CSIC)

End date: 16/05/2017

Duration in hours: 20 hours

13 Training title: NGS and supercomputing, life as a couple

Awarding entity: Centro de Biología Molecular Severo Ochoa (CBMSO) **Type of entity:** State agency

End date: 11/05/2017

Duration in hours: 6 hours

14 Training title: Dolor en animales de experimentación. Evaluación y tratamiento. Discusión de casos

Awarding entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency

End date: 24/03/2017

Duration in hours: 2 hours

15 Training title: Formación de Personal que Trabaja con Animales de experimentación - Categoría B

Awarding entity: BINAEX

End date: 22/12/2014

Type of entity: Business

Duration in hours: 65 hours

16 Type of training: Course

Training title: Simulación Empresarial de Base tecnológica

City awarding entity: Madrid, Community of Madrid, Spain

Awarding entity: Fundación Madri+d para el conocimiento

Type of entity: Foundation

End date: 12/11/2012

Duration in hours: 125 hours

17 Training title: European Nucleotide Archive (ENA): Sequence data storage and management with Genome Collections and TSA

Awarding entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency

End date: 10/10/2012

Duration in hours: 8 hours

18 Training title: Curso de Iniciación a Python

Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency

End date: 09/03/2012

Duration in hours: 25 hours

19 Training title: I CNIC Conference "At the heart of the genome: Frontiers in cardiovascular genomics"

Awarding entity: FUNDACION CENTRO NACIONAL DE INVESTIGACIONES CARDIOVASCULARES CARLOS III

End date: 06/10/2011

Duration in hours: 8 hours

20 Training title: Microbioma: descubriendo el último órgano del cuerpo humano

Awarding entity: Fundación Lilly

End date: 18/11/2010



- 21 Training title:** I WORKSHOP MASSIVE PARALLEL SEQUENCING USING 454
Awarding entity: Institut de Recerca de la Sida, IrsiCaixa
End date: 08/03/2010
Type of entity: Public Research Body
Duration in hours: 40 hours
- 22 Training title:** Ensembl
Awarding entity: Centro de Biología Molecular Severo Ochoa
End date: 07/10/2009
Type of entity: State agency
Duration in hours: 7 hours
- 23 Training title:** Curso de Capacitación de Operadores de Instalaciones Radioactivas
Awarding entity: Consejo de Seguridad Nuclear
End date: 02/02/2007
Type of entity: Organimos público
Duration in hours: 36 hours

Language skills

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

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: Tecnologías Ómicas
University degree: Máster Universitario en Gestión y Desarrollo de Tecnologías Biomédicas
Start date: 17/10/2018
End date: 17/10/2018
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Carlos III de Madrid
Type of entity: University
- 2 Type of teaching:** Official teaching
Name of the course: Tecnologías Ómicas
University degree: Máster Universitario en Gestión y Desarrollo de Tecnologías Biomédicas
Start date: 05/10/2017
End date: 05/10/2017
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Carlos III de Madrid
Type of entity: University
- 3 Type of teaching:** Official teaching
Name of the course: Tecnologías Ómicas
University degree: Máster Universitario en Gestión y Desarrollo de Tecnologías Biomédicas
Start date: 26/10/2016
End date: 26/10/2016
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Carlos III de Madrid
Type of entity: University



- 4** **Type of teaching:** Official teaching
Name of the course: Laboratorio Avanzado de Bioquímica y Biología Molecular
Type of programme: Bachelor's degree **Type of teaching:** Laboratory work
Type of subject: Core
University degree: Grado Biología
Start date: 04/04/2016 **End date:** 13/04/2016
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 36
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 5** **Type of teaching:** Official teaching
Name of the course: Tecnologías Ómicas
University degree: Máster Universitario en Gestión y Desarrollo de Tecnologías Biomédicas
Start date: 21/10/2015 **End date:** 21/10/2015
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Carlos III de Madrid **Type of entity:** University
- 6** **Name of the course:** Microbiología
University degree: Ciencias de la Alimentación
Start date: 13/04/2015 **End date:** 17/04/2015
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 20
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 7** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Bioquímica (2012/2013)
University degree: Grado en Bioquímica
Start date: 18/03/2013 **End date:** 05/04/2013
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 32
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 8** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Bioquímica (2011/2012)
University degree: Grado en Bioquímica
Start date: 30/03/2012 **End date:** 20/03/2012
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 30
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 9** **Type of teaching:** Official teaching
Name of the course: Bioquímica Experimental I (2010/2011)
University degree: Licenciatura en Bioquímica
Start date: 04/10/2011 **End date:** 14/10/2011
Type of hours/ ECTS credits: Credits



Hours/ECTS credits: 40

Entity: Universidad Autónoma de Madrid

Faculty, institute or centre: Facultad de Ciencias

Type of entity: University

10 Type of teaching: Official teaching

Name of the course: Uso de herramientas informáticas en las ciencias experimentales (2010/2011)

University degree: Oferta Especifica departamento Química

Start date: 17/03/2013

End date: 22/03/2011

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 20

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

11 Type of teaching: Official teaching

Name of the course: Bioquímica Experimental I (2009/2010)

University degree: Licenciatura en Bioquímica

Start date: 26/11/2010

End date: 04/12/2010

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 40

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

12 Type of teaching: Official teaching

Name of the course: Uso de herramientas informáticas en las ciencias experimentales (2009/2010)

University degree: Oferta Especifica departamento Química

Start date: 26/10/2010

End date: 28/10/2010

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 20

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

13 Type of teaching: Official teaching

Name of the course: Uso de herramientas informáticas en las ciencias experimentales (2008/2009)

University degree: Oferta Especifica departamento Química

Start date: 26/11/2009

End date: 04/12/2009

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 5

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

14 Type of teaching: Official teaching

Name of the course: Bioquímica (2008/2009)

University degree: Licenciatura en Biología

Start date: 16/03/2009

End date: 27/03/2009

Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 40

Entity: Universidad Autónoma de Madrid

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias



- 15** **Type of teaching:** Official teaching
Name of the course: Uso de herramientas informáticas en las ciencias experimentales (2007/2008)
University degree: Oferta Especifica departamento Química
Start date: 13/12/2007 **End date:** 14/12/2007
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 5
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Ciencias
- 16** **Type of teaching:** Official teaching
Name of the course: Bioquímica Experimental II (2006/2007)
University degree: Licenciatura en Bioquímica
Start date: 05/10/2006 **End date:** 09/10/2006
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 20
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Faculty, institute or centre: Facultad de Medicina
- 17** **Type of teaching:** Official teaching
Name of the course: O2. Virus de microorganismos
Type of programme: Master's degree **Type of teaching:** In person theory
Type of subject: Optional
University degree: Máster en Virología
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 2
Entity: Universidad Complutense de Madrid
- 18** **Name of the course:** A3. Métodos de Estudio de los Virus: detección, identificación y caracterización
University degree: Máster en Virología
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1
Entity: Universidad Complutense de Madrid
- 19** **Name of the course:** A3. Métodos de Estudio de los Virus: detección, identificación y caracterización
University degree: Máster en Virología
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1
Entity: Universidad Complutense de Madrid
- 20** **Name of the course:** O2. Virus de microorganismos
University degree: Máster en Virología
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 1,5
Entity: Universidad Complutense de Madrid
- 21** **Name of the course:** O2. Virus de microorganismos
University degree: Máster en Virología
Type of hours/ ECTS credits: Credits
Hours/ECTS credits: 3
Entity: Universidad Complutense de Madrid



Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Tesis doctoral (en curso)
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Carlos Fernández Linares
Date of reading: 01/09/2020
- 2** **Project title:** Tesis doctoral
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Alberto Domingo López Muñoz
Obtained qualification: Sobresaliente-Cum Laude
Date of reading: 05/07/2019
Date of recognition: 05/07/2019
Quality recognition: Yes
- 3** **Project title:** Estudio sobre el conjunto de genes de las Heat Shock Protein 70 tipo I y tipo II
Type of project: Trabajo fin de Máster
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Antonio Landete
Date of reading: 12/07/2016
- 4** **Project title:** Análisis de datos de metagenómica en virus de la Antártida y el Ártico
Type of project: Trabajo fin de Máster
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Carlos Fernández Linares
Date of reading: 01/07/2016
- 5** **Project title:** Functional characterization of the glycoprotein G cytoplasmic domain from Herpes Simplex Virus 1 and 2
Type of project: Trabajo fin de Máster
Entity: Universidad Autónoma de Madrid **Type of entity:** University
Student: Alberto Domingo López Muñoz
Date of reading: 09/09/2014

Teaching experience in courses and seminars for university teacher training

- 1** **Type of event:** Workshop
Name of the event: Olimpiada Española de Biología
Organising entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
Hours of teaching: 5
Teaching date: 04/07/2019
- 2** **Type of event:** Workshop
Name of the event: Programa 4ESO+Empresa
Organising entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency



Hours of teaching: 5

Teaching date: 19/03/2018

3 Type of event: Workshop

Name of the event: Olimpiada Española de Biología

Organising entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency

Hours of teaching: 5

Teaching date: 03/07/2017

4 Type of event: Workshop

Name of the event: Olimpiada Española de Biología

Organising entity: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency

Hours of teaching: 5

Teaching date: 04/07/2016

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:** Diversity of DNA and RNA viruses in Antarctica (Proposal ID: 505820)
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI...): Alberto Rastrojo; Stephen Craig Cary; Antonio Alcamí
Nº of researchers: 3
Start-End date: 01/01/2020 - 01/01/2023
Total amount: 0 €
- 2 Name of the project:** Microbial ecology, virology, Ancient DNA, Antarctica, Arctic, climate change (POLARPALEOVIRUS, Project ID: 10643)
Entity where project took place: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI...): Alberto Rastrojo; Antonio Alcamí
Nº of researchers: 2
Start-End date: 01/06/2020 - 01/06/2022
Total amount: 0 €
- 3 Name of the project:** Biodiversidad microbiana y viral en el Parque Nacional de Ordesa y Monte Perdido: sensor de cambio climático y conservación del ecosistema (MICROORDESA, Project ID: PR[19]_ECO_0047)
Entity where project took place: Centro de Biología Molecular Severo Ochoa **Type of entity:** State agency



City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Ana Moreno; Juan Ignacio López-Moreno; Blas Valero; Alberto Rastrojo; Antonio Alcamí

Nº of researchers: 5

Start-End date: 01/05/2020 - 01/05/2022

Total amount: 100.000 €

4 Name of the project: RED DE INVESTIGACIÓN COLABORATIVA EN ENFERMEDADES TROPICALES

Entity where project took place: Centro de Biología Molecular Severo Ochoa

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): José María Requena Ronalía

Start-End date: 01/01/2017 - 31/12/2021

Total amount: 116.660,5 €

5 Name of the project: Transmisión de SARS-CoV2 por el aire: detección en hospitales y tecnologías innovadoras

Entity where project took place: Centro de Biología Molecular Severo Ochoa

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): Alberto Rastrojo; Xavier Rodó López; Alvaro Somoza Calatrava; María Luz García García; Cristina Calvo Rey; Inmaculada Casas Flecha; Antonio Alcamí

Nº of researchers: 7

Start-End date: 01/04/2020 - 01/04/2021

Total amount: 479.000 €

6 Name of the project: Novel mechanisms of viral immune modulation and their contribution to pathogenesis

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Consejo Superior de Investigaciones Científicas

City of entity: Madrid, Community of Madrid, Spain

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

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Economía y Competitividad (MINECO) **Type of entity:** Public Research Body

Type of participation: Team member

Name of the programme: Plan Nacional

Code according to the funding entity: SAF2015-67485-R

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

Duration: 3 years

Total amount: 435.000 €

7 Name of the project: AIRBIOTA, Conocer y modelar la contaminación biológica del aire urbano

Type of project: Basic research (including archaeological digs, etc)

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Consejo Superior de Investigaciones Científicas

City of entity: Madrid, Community of Madrid, Spain



Name principal investigator (PI, Co-PI....): Guantes, R; Gutiérrez-Bustillo, AM; Campoy, P; Moreno, DA; Alcamí, A

Nº of researchers: 14

Funding entity or bodies:

Comunidad de Madrid

Type of entity: Public Research Body

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Name of the programme: Convocatoria de Programas de I+D en Tecnología 2013

Code according to the funding entity: P2013/MAE2874

Start-End date: 01/10/2014 - 31/12/2018

Duration: 4 years

Total amount: 700.000 €

8 Name of the project: ANALISIS FUNCIONAL DE LAS FORMAS DE SPLICING DE GENES DEL MHC DE CLASE III

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Current university student

Entity where project took place: Centro de Biología Molecular Severo Ochoa

Type of entity: State agency

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): B Aguado

Nº of researchers: 5

Nª people/year: 5

Name of the programme: Plan Nacional

Code according to the funding entity: BFU2009-09117

Start-End date: 01/01/2010 - 31/12/2012

Duration: 1 year

Total amount: 108.900 €

Dedication regime: Full time

9 Name of the project: Análisis funcional de las formas de splicing de genes del MHC de clase III

Type of project: Basic research (including archaeological digs, etc)

Geographical area: National

Degree of contribution: Current university student

Entity where project took place: Centro de Biología Molecular Severo Ochoa

Type of entity: State agency

City of entity: Madrid, Community of Madrid, Spain

Name principal investigator (PI, Co-PI....): B Aguado

Nº of researchers: 4

Nª people/year: 4

Name of the programme: Plan Nacional

Code according to the funding entity: BFU2008-03126

Start-End date: 01/01/2009 - 31/12/2009

Duration: 1 year

Total amount: 36.300 €

Dedication regime: Full time

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

- 1** **Name of the project:** Red de Investigación colaborativa en enfermedades tropicales RICET
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José María Requena Ronalía
Participating entity/entities: Instituto de Salud Carlos III ; Universidad Autónoma de Madrid
Start date: 01/01/2020 **Duration:** 9 months
- 2** **Name of the project:** Red de Investigación colaborativa en enfermedades tropicales RICET
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José María Requena Ronalía
Participating entity/entities: Instituto de Salud Carlos III ; Universidad Autónoma de Madrid
Start date: 01/04/2019 **Duration:** 9 months
- 3** **Name of the project:** Estudios transcriptómicos y genómicos como base molecular para diseñar estrategias de control de la Leishmania en España
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): José María Requena Ronalía
Participating entity/entities: Instituto de Salud Carlos III ; Universidad Autónoma de Madrid
Start date: 01/10/2018 **Duration:** 6 months
- 4** **Name of the project:** AIRBIOTA
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Antonio Alcamí Pertrejo
Participating entity/entities: Centro de Biología Molecular Severo Ochoa; Comunidad de Madrid
Start date: 01/02/2015 **Duration:** 3 years - 7 months
- 5** **Name of the project:** Red Española de Esclerosis Múltiples
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): Antonio Alcamí Pertrejo
Participating entity/entities: Centro de Biología Molecular Severo Ochoa
Start date: 01/10/2014 **Duration:** 4 months
- 6** **Name of the project:** Genomics and Massive sequencing facility
Degree of contribution: Technician
Name principal investigator (PI, Co-PI....): Begoña Aguado Orea
Participating entity/entities: Centro de Biología Molecular Severo Ochoa; FUNDACION SEVERO OCHOA
Start date: 01/10/2013 **Duration:** 1 year



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Hector Moreno; Alberto Rastrojo; Rhys Pryce; Chiara Fedeli; Gert Zimmer; Thomas A Bowden; Gisa Gerold; Stefan Kunz. A novel circulating tamiami mammarenavirus shows potential for zoonotic spillover. PLoS neglected tropical diseases. IF (JCR-2019): 3,885. TROPICAL MEDICINE (Q1), PARASITOLOGY (Q1). 14 - 12, pp. e0009004 - e0009004. 12/2020. Available on-line at: <<http://dx.doi.org/10.1371/journal.pntd.0009004>>. ISSN 1935-2727, 1935-2735

Type of production: Scientific paper **Format:** Journal
- 2 Kai A Kropp; Alberto Domingo López-Muñoz; Birgit Ritter; Rocío Martín; Alberto Rastrojo; Sangar Srivaratharajan; Katinka Dohner; Akshay Dhingra; Julia S Czechowicz; Claus-Henning Nagel; Beate Sodeik; Antonio Alcami; Abel Viejo-Borbolla. Herpes Simplex Virus 2 Counteracts Neurite Outgrowth Repulsion during Infection in a Nerve Growth {Factor-Dependent} Manner. Journal of virology. IF (JCR): 4,501. VIROLOGY (Q1). 94 - 20, 09/2020. Available on-line at: <<http://dx.doi.org/10.1128/JVI.01370-20>>. ISSN 0022-538X, 1098-5514

Type of production: Scientific paper **Format:** Journal
- 3 África Sanchiz; Esperanza Morato; Alberto Rastrojo; Esther Camacho; Sandra González-de la González-de la Fuente; Anabel Marina; Begoña Aguado; Jose M Requena. The Experimental Proteome of Leishmania infantum Promastigote and Its Usefulness for Improving Gene Annotations. Genes. IF (JCR-2019): 3,76 .GENETICS & HEREDITY (Q2). 11 - 9, 09/2020. Available on-line at: <<http://dx.doi.org/10.3390/genes11091036>>. ISSN 2073-4425

Type of production: Scientific paper **Format:** Journal
- 4 Inmaculada Gómez; Alberto Rastrojo; Fabián Lorenzo-Díaz; Francisco José Sánchez-Luque; Francisco Macías; Begoña Aguado; Basilio Valladares; José María Requena; Manuel Carlos López; M Carmen Thomas. Trypanosoma cruzi Ikiakarora ({TcIII}) Draft Genome Sequence. Microbiology resource announcements. IF (JCR): 0,41 (SJR). Genetics (Q4), Immunology and Microbiology (miscellaneous) (Q4), Molecular Biology (Q4). 9 - 27, 07/2020. Available on-line at: <<http://dx.doi.org/10.1128/MRA.00453-20>>. ISSN 2576-098X

Type of production: Scientific paper **Format:** Journal
- 5 Inmaculada Gómez; Alberto Rastrojo; Francisco José Sanchez-Luque; Fabián Lorenzo-Díaz; Francisco Macías; Basilio Valladares; Begoña Aguado; José María Requena; Manuel Carlos López; M Carmen Thomas. Draft Genome Sequence of the Trypanosoma cruzi B. M. López Strain ({Tcla}), Isolated from a Colombian Patient. Microbiology resource announcements. IF (JCR): 0,41 (SJR). Genetics (Q4), Immunology and Microbiology (miscellaneous) (Q4), Molecular Biology (Q4). 9 - 18, 04/2020. Available on-line at: <<http://dx.doi.org/10.1128/MRA.00031-20>>. ISSN 2576-098X

Type of production: Scientific paper **Format:** Journal
- 6 Francisco Callejas-Hernández; Ángel Gutierrez-Nogues; Alberto Rastrojo; Núria Gironés; Manuel Fresno. Analysis of {mRNA} processing at whole transcriptome level, transcriptomic profile and genome sequence refinement of Trypanosoma cruzi. Scientific reports. IF (JCR): 3,998. MULTIDISCIPLINARY SCIENCES (Q1). 9 - 1, pp. 17376 - 17376. 11/2019. Available on-line at: <<http://dx.doi.org/10.1038/s41598-019-53924-6>>. ISSN 2045-2322

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



- 7** Esther Camacho; Alberto Rastrojo; África Sanchiz; Sandra González-de la Fuente; Begoña Aguado; Jose M Requena. Leishmania Mitochondrial Genomes: Maxicircle Structure and Heterogeneity of Minicircles. *Genes*. IF (JCR): 3,759. GENETICS & HEREDITY (Q2). 10 - 10, pp. 758 - 758. Multidisciplinary Digital Publishing Institute, 09/2019. Available on-line at: <<http://dx.doi.org/10.3390/genes10100758>>. ISSN 2073-4425
Type of production: Scientific paper **Format:** Journal
- 8** Andrés Núñez; Guillermo Amo de Paz; Alberto Rastrojo; Zuzana Ferencova; A Montserrat Gutiérrez-Bustillo; Antonio Alcamí; Diego A Moreno; Raúl Guantes. Temporal patterns of variability for prokaryotic and eukaryotic diversity in the urban air of Madrid (Spain). *Atmospheric environment*. IF (JCR): 4,039. ENVIRONMENTAL SCIENCES (Q1), METEOROLOGY & ATMOSPHERIC SCIENCES (Q1). pp. 116972 - 116972. 09/2019. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S1352231019306119>>. ISSN 0004-6981, 1352-2310
Type of production: Scientific paper **Format:** Journal
- 9** Alberto Rastrojo; Laura Corvo; Rodrigo Lombrana; Jose C Solana; Begoña Aguado; Jose M Requena. Analysis by {RNA-seq} of transcriptomic changes elicited by heat shock in *Leishmania major*. *Scientific reports*. IF (JCR): 3,998. MULTIDISCIPLINARY SCIENCES (Q1). 9 - 1, pp. 6919 - 6919. 05/2019. Available on-line at: <<http://dx.doi.org/10.1038/s41598-019-43354-9>>. ISSN 2045-2322
Type of production: Scientific paper **Format:** Journal
- 10** Esther Camacho; Sandra González-de la Fuente; Alberto Rastrojo; Ramón Peiró-Pastor; Jose Carlos Solana; Laura Tabera; Francisco Gamarro; Fernando Carrasco-Ramiro; Jose M Requena; Begoña Aguado. Complete assembly of the *Leishmania donovani* ({HU3} strain) genome and transcriptome annotation. *Scientific reports*. IF (JCR): 3,998. MULTIDISCIPLINARY SCIENCES (Q1). 9 - 1, pp. 6127 - 6127. 04/2019. Available on-line at: <<http://dx.doi.org/10.1038/s41598-019-42511-4>>. ISSN 2045-2322
Type of production: Scientific paper **Format:** Journal
- 11** Sandra González-de la Fuente; Esther Camacho; Ramón Peiró-Pastor; Alberto Rastrojo; Fernando Carrasco-Ramiro; Begoña Aguado; Jose M Requena/. Complete and de novo assembly of the *Leishmania braziliensis* (M2904) genome. *Memorias do Instituto Oswaldo Cruz*. IF (JCR): 2,368. TROPICAL MEDICINE (Q2). 114, pp. e180438 - e180438. 12/2018. Available on-line at: <<http://dx.doi.org/10.1590/0074-02760180438>>. ISSN 0074-0276, 1678-8060
Type of production: Scientific paper **Format:** Journal
- 12** Alberto Rastrojo; Andrés Núñez; Diego A Moreno; Antonio Alcamí. A New Putative Caulimoviridae Genus Discovered through Air Metagenomics. *Microbiology resource announcements*. IF (SJR-2019): 0,41. Genetics (Q4), Immunology and Microbiology (miscellaneous) (Q4), Molecular Biology (Q4). 7 - 14, 10/2018. Available on-line at: <<http://dx.doi.org/10.1128/MRA.00955-18>>. ISSN 2576-098X
Type of production: Scientific paper **Format:** Journal
- 13** Francisco Callejas-Hernández; Alberto Rastrojo; Cristina Poveda; Núria Gironés; Manuel Fresno. Genomic assemblies of newly sequenced *Trypanosoma cruzi* strains reveal new genomic expansion and greater complexity. *Scientific reports*. IF (JCR): 4,011. MULTIDISCIPLINARY SCIENCES (Q1). 8 - 1, pp. 14631 - 14631. 10/2018. Available on-line at: <<http://dx.doi.org/10.1038/s41598-018-32877-2>>. ISSN 2045-2322
Type of production: Scientific paper **Format:** Journal
- 14** Alberto Domingo López-Muñoz; Alberto Rastrojo; Antonio Alcamí. Complete Genome Sequence of Herpes Simplex Virus 2 Strain 333. *Microbiology resource announcements*. IF (SJR-2019): 0,41. Genetics (Q4), Immunology and Microbiology (miscellaneous) (Q4), Molecular Biology (Q4). 7 - 9, 09/2018. Available on-line at: <<http://dx.doi.org/10.1128/MRA.00870-18>>. ISSN 2576-098X
Type of production: Scientific paper **Format:** Journal
- 15** Alberto Rastrojo; Raquel García-Hernández; Paola Vargas; Esther Camacho; Laura Corvo; Hideo Imamura; Jean-Claude Dujardin; Santiago Castans; Begoña Aguado; Francisco Gamarro; Jose M Requena. Genomic and transcriptomic alterations in *Leishmania donovani* lines experimentally resistant to antileishmanial

drugs. International journal for parasitology, drugs and drug resistance. IF (JCR): 2,951. PARASITOLOGY (Q1), PHARMACOLOGY & PHARMACY (Q2). 8 - 2, pp. 246 - 264. 08/2018. Available on-line at: <<http://dx.doi.org/10.1016/j.ijpddr.2018.04.002>>. ISSN 2211-3207

Type of production: Scientific paper

Format: Journal

- 16** Almudena Cascajero; Alberto Rastrojo; Francisco Díez-Fuertes; Beatriz Hernández-Novoa; Begoña Aguado; Santiago Moreno; José Alcamí; Mayte Pérez-Olmeda. {Deep-Sequencing} Analysis of the Dynamics of {HIV-1} Quasiespecies in Naive Patients during a Short Exposure to Maraviroc. Journal of virology. IF (JCR): 4,324. VIROLOGY (Q1). 92 - 11, 06/2018. Available on-line at: <<http://dx.doi.org/10.1128/JVI.00390-18>>. ISSN 0022-538X, 1098-5514

Type of production: Scientific paper

Format: Journal

- 17** Alberto Rastrojo; Antonio Alcamí. Viruses in Polar Lake and Soil Ecosystems. Advances in virus research. IF (JCR): 5,600. VIROLOGY (Q1). 101, pp. 39 - 54. Academic Press, 04/2018. Available on-line at: <<http://dx.doi.org/10.1016/bs.aivir.2018.02.002>>. ISSN 0065-3527, 1557-8399

Type of production: Scientific paper

Format: Journal

- 18** Sandra González-de la Fuente; Ramón Peiró-Pastor; Alberto Rastrojo; Javier Moreno; Fernando Carrasco-Ramiro; Jose M Requena; Begoña Aguado. Resequencing of the Leishmania infantum (strain {JPCM5}) genome and de novo assembly into 36 contigs. Scientific reports. IF (JCR): 4,122. MULTIDISCIPLINARY SCIENCE (Q1). 7 - 1, pp. 18050 - 18050. 12/2017. Available on-line at: <<http://dx.doi.org/10.1038/s41598-017-18374-y>>. ISSN 2045-2322

Type of production: Scientific paper

Format: Journal

- 19** Alberto Rastrojo; Antonio Alcamí. Aquatic viral metagenomics: Lights and shadows. Virus research. IF (JCR): 2,484. VIROLOGY (Q3). 239, pp. 87 - 96. 07/2017. Available on-line at: <<http://dx.doi.org/10.1016/j.virusres.2016.11.021>>. ISSN 0168-1702, 1872-7492

Type of production: Scientific paper

Format: Journal

- 20** Andrés Núñez; Guillermo Amo de Paz; Zuzana Ferencova; Alberto Rastrojo; Raúl Guantes; Ana M García; Antonio Alcamí; A Montserrat Gutiérrez-Bustillo; Diego A Moreno. Validation of the {Hirst-Type} Spore Trap for Simultaneous Monitoring of Prokaryotic and Eukaryotic Biodiversities in Urban Air Samples by {Next-Generation} Sequencing. Applied and environmental microbiology. IF (JCR): 3,633. BIOTECHNOLOGY & APPLIED MICROBIOLOGY (Q1), MICROBIOLOGY (Q2). 83 - 13, 07/2017. Available on-line at: <<http://dx.doi.org/10.1128/AEM.00472-17>>. ISSN 0099-2240, 1098-5336

Type of production: Scientific paper

Format: Journal

- 21** Jose M Requena; Alberto Rastrojo; Esther Garde; Manuel C López; M Carmen Thomas; Begoña Aguado. Dataset for distribution of {SIDER2} elements in the Leishmania major genome and transcriptome. Data in brief. IF (SJR): 0,341. Education (Q2), Multidisciplinary (Q1). 11, pp. 39 - 43. 04/2017. Available on-line at: <<http://dx.doi.org/10.1016/j.dib.2017.01.001>>. ISSN 2352-3409

Type of production: Scientific paper

Format: Journal

- 22** Jose M Requena; Alberto Rastrojo; Esther Garde; Manuel C López; M Carmen Thomas; Begoña Aguado. Genomic cartography and proposal of nomenclature for the repeated, interspersed elements of the Leishmania major {SIDER2} family and identification of {SIDER2-containing} transcripts. Molecular and biochemical parasitology. IF(JCR): 1,744. PARASITOLOGY (Q3), BIOCHEMISTRY & MOLECULAR BIOLOGY (Q4). 212, pp. 9 - 15. 03/2017. Available on-line at: <<http://dx.doi.org/10.1016/j.molbiopara.2016.12.009>>. ISSN 0166-6851, 1872-9428

Type of production: Scientific paper

Format: Journal

- 23** Daniel Aguirre de Cárcer; Bruno Hernáez; Alberto Rastrojo; Antonio Alcamí. Infection with diverse immune-modulating poxviruses elicits different compositional shifts in the mouse gut microbiome. PloS one. IF (JCR): 2,766. MULTIDISCIPLINARY SCIENCES (Q1). 12 - 3, pp. e0173697 - e0173697. 03/2017. Available on-line at: <<http://dx.doi.org/10.1371/journal.pone.0173697>>. ISSN 1932-6203

Type of production: Scientific paper

Format: Journal

- 24** Bruno Hernáez; Graciela Alonso; Juan Manuel Alonso-Lobo; Alberto Rastrojo; Cornelius Fischer; Sascha Sauer; Begoña Aguado; Antonio Alcamí. {RNA-Seq} Based Transcriptome Analysis of the Type {I} Interferon Host Response upon Vaccinia Virus Infection of Mouse Cells. *Journal of immunology research*. IF (JCR): 3,298. IMMUNOLOGY (Q2). 2017, pp. 5157626 - 5157626. 02/2017. Available on-line at: <<http://dx.doi.org/10.1155/2017/5157626>>. ISSN 2314-7156

Type of production: Scientific paper

Format: Journal

- 25** Alberto Rastrojo; Alberto Domingo López-Muñoz; Antonio Alcamí. Genome Sequence of Herpes Simplex Virus 1 Strain {SC16}. *Genome announcements*. IF (SJR): 0,553. Genetics (Q3), Molecular Biology (Q4). 5 - 4, 01/2017. Available on-line at: <<http://dx.doi.org/10.1128/genomeA.01392-16>>. ISSN 2169-8287

Type of production: Scientific paper

Format: Journal

- 26** Bernardo Rodríguez-Martín; Emilio Palumbo; Santiago Marco-Sola; Thasso Griebel; Paolo Ribeca; Graciela Alonso; Alberto Rastrojo; Begoña Aguado; Roderic Guigó; Sarah Djebali. {ChimPipe}: accurate detection of fusion genes and transcription-induced chimeras from {RNA-seq} data. *BMC genomics*. IF (JCR): 3,730. BIOTECHNOLOGY & APPLIED MICROBIOLOGY (Q1), GENETICS & HEREDITY (Q2). 18 - 1, pp. 7 - 7. 01/2017. Available on-line at: <<http://dx.doi.org/10.1186/s12864-016-3404-9>>. ISSN 1471-2164

Type of production: Scientific paper

Format: Journal

- 27** Andrés Núñez; Guillermo Amo de Paz; Alberto Rastrojo; Ana M García; Antonio Alcamí; A Montserrat Gutiérrez-Bustillo; Diego A Moreno. Monitoring of airborne biological particles in outdoor atmosphere. Part 2: Metagenomics applied to urban environments. *International microbiology*. IF (JCR): 1,057. MICROBIOLOGY (Q4). 19 - 2, pp. 69 - 80. 06/2016. Available on-line at: <<http://dx.doi.org/10.2436/20.1501.01.265>>. ISSN 1139-6709

Type of production: Scientific paper

Format: Journal

- 28** Andrés Núñez; Guillermo Amo de Paz; Alberto Rastrojo; Ana M García; Antonio Alcamí; A Montserrat Gutiérrez-Bustillo; Diego A Moreno. Monitoring of airborne biological particles in outdoor atmosphere. Part 1: Importance, variability and ratios. *International microbiology*. IF (JCR): 1,057. MICROBIOLOGY (Q4). 19 - 1, pp. 1 - 13. 03/2016. Available on-line at: <<http://dx.doi.org/10.2436/20.1501.01.258>>. ISSN 1139-6709

Type of production: Scientific paper

Format: Journal

- 29** Graciela Alonso; Alberto Rastrojo; Sara López-Pérez; Jose M Requena; Begoña Aguado. Resequencing and assembly of seven complex loci to improve the *Leishmania major* (Friedlin strain) reference genome. *Parasites & vectors*. IF (JCR): 3,035. PARASITOLOGY (Q1). 9 - 1, pp. 74 - 74. Parasites & Vectors, 02/2016. Available on-line at: <<http://dx.doi.org/10.1186/s13071-016-1329-4>>. ISSN 1756-3305

Type of production: Scientific paper

Format: Journal

- 30** A López-Bueno; A Rastrojo; R Peiró; M Arenas; A Alcamí. Ecological connectivity shapes quasispecies structure of {RNA} viruses in an Antarctic lake. *Molecular ecology*. IF (JCR): 5,947. BIOCHEMISTRY & MOLECULAR BIOLOGY (Q1), EVOLUTIONARY BIOLOGY (Q1), ECOLOGY (D1). 24 - 19, pp. 4812 - 4825. 10/2015. Available on-line at: <<http://dx.doi.org/10.1111/mec.13321>>. ISSN 0962-1083, 1365-294X

Type of production: Scientific paper

Format: Journal

- 31** Patricia Conde; Mercedes Rodriguez; William van der Touw; Ana Jimenez; Matthew Burns; Jennifer Miller; Manisha Brahmachary; Hui-Ming Chen; Peter Boros; Francisco Rausell-Palamos; Tae Jin Yun; Paloma Riquelme; Alberto Rastrojo; Begoña Aguado; Joan Stein-Streilein; Masato Tanaka; Lan Zhou; Junfeng Zhang; Todd L Lowary; Florent Ginhoux; Chae Gyu Park; Cheolho Cheong; Joshua Brody; Shannon J Turley; Sergio A Lira; Vincenzo Bronte; Siamon Gordon; Peter S Heeger; Miriam Merad; James Hutchinson; Shu-Hsia Chen; Jordi Ochando. {DC-SIGN(+)} Macrophages Control the Induction of Transplantation Tolerance. *Immunity*. IF (JCR): 24,082. IMMUNOLOGY (D1). 42 - 6, pp. 1143 - 1158. 06/2015. Available on-line at: <<http://dx.doi.org/10.1016/j.immuni.2015.05.009>>. ISSN 1074-7613, 1097-4180

Type of production: Scientific paper

Format: Journal



- 32** Raul Guantes; Alberto Rastrojo; Ricardo Neves; Ana Lima; Begoña Aguado; Francisco J Iborra. Global variability in gene expression and alternative splicing is modulated by mitochondrial content. *Genome research*. IF (JCR): 11,351. *BIOCHEMISTRY & MOLECULAR BIOLOGY (D1), BIOTECHNOLOGY & APPLIED MICROBIOLOGY (D1), GENETICS & HEREDITY (D1)*. 25 - 5, pp. 633 - 644. 05/2015. Available on-line at: <<http://dx.doi.org/10.1101/gr.178426.114>>. ISSN 1088-9051, 1549-5469
Type of production: Scientific paper **Format:** Journal
- 33** Raquel López-Díez; Alberto Rastrojo; Olatz Villate; Begoña Aguado. Complex tissue-specific patterns and distribution of multiple {RAGE} splice variants in different mammals. *Genome biology and evolution*. IF (JCR): 4,532. *EVOLUTIONARY BIOLOGY (Q1), GENETICS & HEREDITY (Q1)*. 5 - 12, pp. 2420 - 2435. 22/11/2013. Available on-line at: <<http://dx.doi.org/10.1093/gbe/evt188>>. ISSN 1759-6653
Type of production: Scientific paper **Format:** Journal
- 34** Alberto Rastrojo; Fernando Carrasco-Ramiro; Diana Martín; Antonio Crespillo; Rosa M Reguera; Begoña Aguado; Jose M Requena. The transcriptome of *Leishmania major* in the axenic promastigote stage: transcript annotation and relative expression levels by {RNA-seq}. *BMC genomics*. IF (JCR): 4,041. *BIOTECHNOLOGY & APPLIED MICROBIOLOGY (Q1), GENETICS & HEREDITY (Q1)*. 14 - 1, pp. 223 - 223. 04/2013. Available on-line at: <<http://dx.doi.org/10.1186/1471-2164-14-223>>. ISSN 1471-2164
Type of production: Scientific paper **Format:** Journal
- 35** Francisco Hernández-Torres; Alberto Rastrojo; Begoña Aguado. Intron retention and transcript chimerism conserved across mammals: *Ly6g5b* and {*Csnk2b-Ly6g5b*} as examples. *BMC genomics*. IF (JCR): 4,041. *BIOTECHNOLOGY & APPLIED MICROBIOLOGY (Q1), GENETICS & HEREDITY (Q1)*. 14 - 1, pp. 199 - 199. 03/2013. Available on-line at: <<http://dx.doi.org/10.1186/1471-2164-14-199>>. ISSN 1471-2164
Type of production: Scientific paper **Format:** Journal
- 36** O Villate; A Rastrojo; R López-Díez; F Hernández-Torres; B Aguado. Differential splicing, disease and drug targets. *Infectious disorders drug targets*. IF (SJ): 1,121. *Medicine (miscellaneous)(Q1), Microbiology (medical) (Q1), Molecular Medicine (Q2), Pharmacology (Q1)*. 8 - 4, pp. 241 - 251. 12/2008. Available on-line at: <<https://www.ncbi.nlm.nih.gov/pubmed/19075799>>. ISSN 1871-5265
Type of production: Scientific paper **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Diversity of DNA and RNA viruses in polar regions
Name of the conference: Polar & Alpine Microbiology 2019 Conference
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Hamilton, New Zealand
Date of event: 04/02/2019
End date: 09/02/2019
Organising entity: FEMS
Rastrojo, Alberto; Fernández-Linares, Carlos; Pearce, David; Alcamí, Antonio.
- 2** **Title of the work:** ISOLATION, CHARACTERIZATION, AND RAPID HUMAN ADAPTATION OF TICK-BORNE TAMiami VIRUS
Name of the conference: Annual Meeting and Assembly 2018
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster **Reasons for participation:** Open access
Corresponding author: No
City of event: Lausanne, Czech Republic



Date of event: 28/08/2018

End date: 30/08/2018

Organising entity: Swiss Society for Microbiology

Héctor Moreno Borrego; Alberto Rastrojo; Katherine Sayle; Stefan Kunz. Available on-line at:
<<https://www.swissmicrobiology.ch/events/annual-meeting-and-assembly/2018>>.

3 Title of the work: ISOLATION, CHARACTERIZATION, AND RAPID ADAPTATION OF TICK-BORNE ARENAVIRUS

Name of the conference: The 2018 Negative Strand RNA Virus (NSV2018) meeting

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

Reasons for participation: Open access

Corresponding author: No

City of event: Verona, Italy

Date of event: 17/06/2018

End date: 22/06/2018

Organising entity: negativestrandvirus.org

Héctor Moreno Borrego; Alberto Rastrojo; Katherine Sayle; Stefan Kunz. Available on-line at:
<<http://www.negativestrandvirus.org/>>.

4 Title of the work: GENETIC DIVERSITY OF NEW SSDNA VIRUSES FROM POLAR ENVIRONMENTS

Name of the conference: 7th Congress of European Microbiologist (FEMS)

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Valencia, Valencian Community, Spain

Date of event: 09/07/2017

End date: 13/07/2017

Organising entity: FEMS

Type of entity: Foundation

Fernandez-Linares, C; Alberto Rastrojo; Antonio Alcamí Pertejo.

5 Title of the work: SAMPLER SELECTION FOR WHOLE AIRBORNE BIOLOGICAL COMMUNITY ANALYSIS USING SHOTGUN NGS

Name of the conference: 7th Congress of European Microbiologist (FEMS)

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Valencia, Valencian Community, Spain

Date of event: 09/07/2017

End date: 13/07/2017

Organising entity: FEMS

Type of entity: Foundation

Alberto Rastrojo; Andrés Núñez; Ana García; Diego Moreno; Antonio Alcamí Pertejo.

6 Title of the work: Análisis de la expresión génica diferencial mediante RNAseq en los promastigotes metacíclicos de Leishmania major

Name of the conference: XXXIX Congreso de la Sociedad Española de Bioquímica y Biología Molecular

Type of participation: 'Participatory - poster

City of event: Salamanca, Castile and León, Spain

Date of event: 05/09/2016

End date: 08/09/2016

Organising entity: Sociedad Española de Bioquímica y Biología Molecular

Rastrojo, A; Solana, JC; Soto, M; Aguado, B; Requena, JM.



- 7** **Title of the work:** Efficient and specific genome editing of herpes simplex viruses by CRISPR/Cas9
Name of the conference: XXXIX Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Salamanca, Castile and León, Spain
Date of event: 05/09/2016
End date: 08/09/2016
Organising entity: Sociedad Española de Bioquímica y Biología Molecular
López-Muñoz, AD; Rastrojo, A; Martín, R; Alcamí, A.
- 8** **Title of the work:** Identification of lichenous and lichenicolous diaspora in the atmosphere of Madrid (Spain) using Next-Generation Sequencing
Name of the conference: The 8th IAL Symposium Lichens in Deep Time
Type of participation: 'Participatory - poster
City of event: Helsinki, Finland
Date of event: 01/08/2016
End date: 05/08/2016
Organising entity: International Association for Lichenology
Amo de la Paz, G; Núñez, A; Ferencova, Z; Rastrojo, A; Garcia, AM; Alcamí, A; Gutiérrez-Bustillo, AM; Moreno, DA.
- 9** **Title of the work:** Next-Generation Sequencing applied to pollen and fungal identification in the atmosphere of Madrid (Spain)
Name of the conference: 6th European Symposium on Aerobiology
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 18/07/2016
End date: 22/07/2016
Organising entity: European Aerobiology Society
Gutiérrez-Bustillo, AM; Núñez, A; Amo de la Paz, G; Ferencova, Z; Rastrojo, A; García, AM; Alcamí, A; Moreno, DA.
- 10** **Title of the work:** RNA-SEQ analysis of the host immune response to Ectromelia virus infection: Role of the viral TNF receptor
Name of the conference: XXI International Poxvirus Asfarvirus and Iridovirus Conference
Type of participation: 'Participatory - poster
City of event: Le Bischenberg, France
Date of event: 01/07/2016
End date: 05/07/2016
Organising entity: Microbiology Society
Hernández, B; Alonso, G; Rastrojo, A; Fischer, C; Sauer, S; Aguado, B; Alcamí, A.
- 11** **Title of the work:** Accurate detection of novel chimeric transcripts by integration of spanning and paired-end read information
Name of the conference: NGS 2016
Type of participation: 'Participatory - poster
City of event: Barcelona, Catalonia, Spain
Date of event: 04/04/2016
End date: 06/04/2016
Organising entity: International Society for Computational Biology
Rodríguez-Martín, B; Palumbo, E; Ribeca, P; Rastrojo, A; Alonso, G; Aguado, B; Guigó, R; Djebali, S.



- 12** **Title of the work:** RESEQUENCING AND ASSEMBLY OF SEVEN COMPLEX LOCI TO IMPROVE THE LEISHMANIA MAJOR (FRIEDLIN STRAIN) REFERENCE GENOME
Name of the conference: NGS 2016
Type of participation: 'Participatory - poster
City of event: Barcelona, Catalonia, Spain
Date of event: 04/04/2016
End date: 06/04/2016
Organising entity: International Society for Computational Biology
Alonso, G; Rastrojo, A; López-Pérez, S; Requena, JM; Aguado, B.
- 13** **Title of the work:** INCORPORACION DEL USO DE LOS UAV PARA ANALIZAR LA INFLUENCIA DE LA ALTURA EN LA CALIDAD BIOLÓGICA DEL AIRE
Name of the conference: CIVILD RON'16
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Madrid, Community of Madrid, Spain
Date of event: 26/01/2016
End date: 27/01/2016
Organising entity: Fundación de la Energía de la Comunidad de Madrid
City organizing entity: Madrid, Community of Madrid, Spain
Núñez, A; García, AM; Guitiérrez, AM; Amo de Paz, G; Ferencova, Z; Campoy, P; Domínguez, S; Alcamí, A; Rastrojo, A; Guantes, R; Gómez, D; Moreno, DA.
- 14** **Title of the work:** ECOLOGICAL CONNECTIVITY SHAPES VIRAL ASSEMBLAGES AND VARIABILITY IN ANTARCTIC ENVIRONMENTS
Name of the conference: 6th International Conference on Polar and Alpine Microbiology
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Ceske Budejovice, Czech Republic
Date of event: 06/09/2015
End date: 10/09/2015
Organising entity: The Scientific Committee on Antarctic Research
Type of entity: Foundation
City organizing entity: United Kingdom
López-Bueno, A; Rastrojo, A; Peiró, R; Arenas, M; Velázquez, D; Quesada, A; Alcamí, A.
- 15** **Title of the work:** La expresión génica en Leishmania analizada con técnicas transcriptómicas
Name of the conference: XIX Congreso de la Sociedad Española de Parasitología (SOCEPA)
Type of participation: 'Participatory - poster
City of event: Vitoria-Gasteiz, Basque Country, Spain
Date of event: 23/07/2015
End date: 25/07/2015
Organising entity: Sociedad Española de Parasitología
Type of entity: Associations and Groups
Requena, JM; Rastrojo, A; Aguado, B.
- 16** **Title of the work:** Los avances de la Metagenómica aplicados a la Microbiología del aire (programa AIRBIOTA-CM)
Name of the conference: XXV Congreso de la Sociedad Española de Microbiología
Type of participation: 'Participatory - poster
Corresponding author: No
City of event: Logroño, La Rioja, Spain



Date of event: 07/07/2015

End date: 10/07/2015

Organising entity: Sociedad Española de Microbiología

Type of entity: Associations and Groups

Núñez, A; Rastrojo, A; García, AM; Alcamí, A; Gutiérrez, AM; Campoy, P; Guantes, R; Moreno, DA.

17 Title of the work: Ecological connectivity shapes quasispecies structure of RNA viruses in an Antarctic lake

Name of the conference: XIII Congreso Nacional de Virología

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Madrid, Community of Madrid, Spain

Date of event: 07/06/2015

End date: 10/06/2015

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

López-Bueno, A; Rastrojo, A; Peiró, R; Arenas, M; Alcamí, A.

18 Title of the work: RNA-Seq based transcriptome analysis of the interferon host response upon Vaccinia virus infection

Name of the conference: XIII Congreso Nacional de Virología

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Madrid, Community of Madrid, Spain

Date of event: 07/06/2015

End date: 10/06/2015

Organising entity: SOCIEDAD ESPAÑOLA DE VIROLOGIA

Alonso, G; Hernáez, B; Alonso-Lobo, JM; Aguirre de Cárcer, D; Rastrojo, A; Fischer, C; Sauer, S; Aguado, B; Alcamí, A.

19 Title of the work: ECOLOGICAL CONNECTIVITY SHAPES VIRAL ASSEMBLAGES AND VARIABILITY IN FRESHWATER ANTARCTIC ENVIRONMENTS

Name of the conference: 2015 Aquatic Sciences Meeting

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Granada, Andalusia, Spain

Date of event: 22/02/2015

End date: 27/02/2015

Organising entity: Association for the Sciences of

Type of entity: Foundation

Limnology and Oceanography

López-Bueno, A; Rastrojo, A; Peiró, R; Arenas, M; Velázquez, D; Quesada, A; Alcamí, A.

20 Title of the work: RNA-Seq based transcriptome analysis of the interferon host response upon vaccinia and ectromelia virus infection

Name of the conference: 2014 International Conference on Poxvirus, Asfarvirus & Iridovirus

Type of participation: 'Participatory - poster

City of event: Victoria, Canada

Date of event: 26/09/2014

End date: 30/09/2014

Organising entity: Microbiology Society

Hernáez, B; Alonso-Lobo, JM; Alonso, G; Aguirre de Cárcer, D; Rastrojo, A; Fischer, C; Sauer, S; Aguado, B; Alcamí, A.



- 21** **Title of the work:** Cambios inducidos por choque térmico en el transcriptoma de Leishmania major
Name of the conference: XXXVII Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Granada, Andalusia, Spain
Date of event: 09/09/2014
End date: 12/09/2014
Organising entity: Sociedad Española de Bioquímica y Biología Molecular
Type of entity: Associations and Groups
Rastrojo, A; Aguado, B; Requena, JM.
- 22** **Title of the work:** Estudio comparativo del splicing alternativo del gen NCR3 en mamíferos
Name of the conference: XXXVI Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Madrid, Community of Madrid, Spain
Date of event: 04/09/2013
End date: 06/09/2013
Organising entity: Sociedad Española de Bioquímica y Biología Molecular
Type of entity: Associations and Groups
City organizing entity: Madrid, Community of Madrid, Spain
Rastrojo, A; Aguado, B.
- 23** **Title of the work:** Alternative splicing of the NK receptor NCR3
Name of the conference: Second International EURASNET Conference on Alternative Splicing
Type of participation: 'Participatory - poster
City of event: Granada, Andalusia, Spain
Date of event: 28/02/2011
End date: 03/03/2011
Organising entity: EURASNET
Rastrojo, A; Aguado, B.
- 24** **Title of the work:** NCR3: Splicing alternativo en diferentes especies de mamíferos
Name of the conference: High Troughput Technology for Alternative Splicing
Type of participation: 'Participatory - poster
City of event: Valencia, Valencian Community, Spain
Date of event: 05/02/2009
End date: 07/02/2009
Organising entity: EURASNET-Splired
Type of entity: Associations and Groups
Rastrojo, A; Aguado, B.
- 25** **Title of the work:** The complexity of Alternative Splicing Among mammalian species
Name of the conference: High Troughput Technology for Alternative Splicing
Type of participation: 'Participatory - poster
City of event: Valencia, Valencian Community, Spain
Date of event: 05/02/2009
End date: 07/02/2009
Organising entity: EURASNET-Splired
Type of entity: Associations and Groups
Hernández-Torres, F; Rastrojo, A; Aguado, B.
- 26** **Title of the work:** Análisis diferencial intra e interespecífico de la expresión de los genes LY6G5B y LY6G6D del MHCIII
Name of the conference: XXXI Congreso de la Sociedad Española de Bioquímica y Biología Molecular



Type of participation: 'Participatory - poster
City of event: Bilbao, Basque Country, Spain
Date of event: 10/09/2008
End date: 13/10/2008
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM) Hernández-Torres F; Rastrojo A; Aguado B.

Type of entity: Associations and Groups

- 27** **Title of the work:** NCR3: Splicing alternativo en diferentes especies de mamíferos
Name of the conference: XXXI Congreso de la Sociedad Española de Bioquímica y Biología Molecular
Type of participation: 'Participatory - poster
City of event: Bilbao, Basque Country, Spain
Date of event: 10/09/2008
End date: 13/10/2008
Organising entity: Sociedad Española de Bioquímica y Biología Molecular (SEBBM) Rastrojo, A; Aguado, B.

Type of entity: Associations and Groups

- 28** **Title of the work:** Alternative Splicing Of NCR3 Gene In Different Mammalian Species
Name of the conference: Alternative Splicing Of NCR3 Gene In Different Mammalian Species
Type of participation: 'Participatory - poster
City of event: Berlin, Berlin, Germany
Date of event: 12/07/2008
End date: 17/07/2008
Organising entity: German Genetics Society (GfG) Rastrojo, A; Aguado, B.

Other achievements

Stays in public or private R&D centres

Entity: Consejo Superior de Investigaciones Científicas y Comité Polar Español
City of entity: Isla Livingstone (campamento Byers), Antarctica
Start-End date: 28/12/2014 - 07/02/2014 **Duration:** 42 days
Goals of the stay: Post-doctoral

Obtained grants and scholarships

- 1** **Name of the grant:** Formación de Profesorado Universitario (FPU)
City awarding entity: Madrid, Community of Madrid, Spain
Aims: Pre-doctoral
Awarding entity: Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency
Conferral date: 01/08/2009 **Duration:** 3 years - 9 months
End date: 30/04/2013
Entity where activity was carried out: Centro de Biología Molecular Severo Ochoa



- 2** **Name of the grant:** Beca Predoctoral de la Fundación Severo Ochoa
City awarding entity: Madrid, Community of Madrid, Spain
Aims: Pre-doctoral
Awarding entity: FUNDACION SEVERO OCHOA
Conferral date: 01/06/2007 **Duration:** 2 years - 1 month
End date: 30/07/2009
Entity where activity was carried out: Centro de Biología Molecular Severo Ochoa
- 3** **Name of the grant:** Ayuda para Inicio de Estudios en Programas de Posgrado
City awarding entity: Madrid, Community of Madrid, Spain
Aims: Pre-doctoral
Awarding entity: Universidad Autónoma de Madrid **Type of entity:** University
Conferral date: 01/01/2007 **Duration:** 5 months
End date: 31/05/2007
Entity where activity was carried out: Instituto de Investigaciones Biomédicas Alberto Sols
- 4** **Name of the grant:** Becario Predoctoral del Fondo de Investigaciones Sanitarias
City awarding entity: Madrid, Community of Madrid, Spain
Aims: Pre-doctoral
Awarding entity: Ministerio de Sanidad y Consumo **Type of entity:** Administrative Body of the National Health System
Conferral date: 01/10/2006 **Duration:** 3 months
End date: 31/12/2006
Entity where activity was carried out: Instituto de Investigaciones Biomédicas Alberto Sols
- 5** **Name of the grant:** Beca de colaboración
Aims: Estudiante fin de carrera
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 01/10/2005 **Duration:** 9 months
End date: 30/06/2006
Entity where activity was carried out: Centro Nacional de Biotecnología