



Joan Cáliz Gelador

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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.

Soy Doctor en Biología (con mención Europea), especialidad Microbiología molecular y Ecología Microbiana, por la Universitat de Girona desde Diciembre de 2011. Durante mi trabajo doctoral estudié el impacto de contaminantes químicos sobre comunidades microbianas del suelo mediante técnicas de biología molecular, así como el potencial y aplicabilidad de los microorganismos resistentes para la restauración de ambientes contaminados. Derivado de mi tesis doctoral se publicaron 7 trabajos en revistas indexadas. Dos de estos trabajos se realizaron en colaboración con investigadores extranjeros, y son fruto de diferentes períodos trabajados en la universidad de Linköping (Suecia) y Coimbra (Portugal).

Durante mi etapa predoctoral trabajé en dos proyectos de investigación independientes, de carácter totalmente aplicado, en colaboración con la empresa privada. Uno de los proyectos estuvo vinculado directamente con la Universitat de Girona y la empresa CESPAS S.A, y subvencionado con fondos europeos (LIFE03 ENV/000140). Mi otra experiencia en la empresa privada se realizó mediante un contrato personal de trabajo en BLOKIT S.A, subvencionado con fondos procedentes de un proyecto de la Agencia Espacial Europea (ESA). El resultado de ambos trabajos se utilizaron principalmente para aportar conocimiento a procesos industriales y/o tecnológicos de la empresa, y me han permitido profundizar en el conocimiento del funcionamiento y/o modos de trabajar en investigación en el ambiente privado.

Después de mi doctorado, y con la intención clara de formarme en un ámbito más técnico relacionado con la ecología computacional y manejo masivo de información genética, empecé a finales del 2012 mi relación con el grupo liderado por Dr. Emilio O. Casamayor del Centro de Estudios Avanzados de Blanes CEAB-CSIC. Mi vinculación con el grupo del Dr. Emilio O. Casamayor se inició a partir de contratos independientes, y más recientemente con un contrato ganado en la convocatoria Juan de la Cierva-formación 2014.



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.

Durante mi etapa en el CEAB me he formado y especializado en el uso de herramientas bioinformáticas para el manejo de macrodatos, principalmente procedentes de secuenciación masiva. Soy usuario de diferentes plataformas (e.g. QIIME, Usearch, MG-Rast) que agrupan una gran variedad de herramientas y sistemas de análisis basados en diferentes lenguajes de programación (e.g. R, Python, Bash) para el manejo y procesamiento de las secuencias. También manejo grandes bases de datos para el análisis de las secuencias (e.g. GenBank, UniProt, Pfam). Estos conocimientos los he adquirido en parte en el curso de bioinformática realizado en el entorno de la red Europea COST impartido por el grupo de Christopher Quince de la Universidad de Warwick (COST training school ES1103: Bioinformatics for Microbial Community Analysis), así como durante mi estancia y colaboración con en el grupo de Frank Oliver Glöckner del Max Planck Institute for Marine Microbiology (COST Action ES1103: Short Term Scientific Mission).

A la vez, también genero mi propio código para el manejo de macrodatos y la ejecución de análisis estadísticos. En este sentido, principalmente me he formado en el lenguaje de programación R en diferentes cursos impartidos en el entorno CEAB-CSIC (ver detalle de cursos en el currículum), así como en el curso impartido en el entorno del proyecto europeo EU 7FP MicroB3 (Marine Microbial Biodiversity, Bioinformatics, Biotechnology) coordinado por el grupo de Frank Oliver Glöckner.

Estos análisis requieren un gran potencial computacional. En este período he estado involucrado en la implementación y soy usuario habitual de la infraestructura Clúster de Computación de Alto Rendimiento (CCAR) que ha adquirido el CEAB en los últimos años. Para el uso del CCAR me he formado en los diferentes cursos impartidos desde el propio Laboratorio de Biología Computacional (LBC) del CEAB en los que he adquirido conocimientos avanzados para la ejecución y paralelización de trabajos en sistemas de computación de alto rendimiento. También he profundizado en los sistemas basados en UNIX, principalmente Debian GNU/Linux, y tengo conocimientos de programación en Bash. Desde la creación del LBC se han realizado diferentes colaboraciones con investigadores externos al CEAB con necesidades de computación de alto rendimiento. En este sentido, he estado implicado activamente y he dado soporte en el trabajo realizado con la investigadora M Begoña García González del IPE-CSIC, y del investigador ICREA Maurizio Mencuccini del CREAM.

Estoy involucrado activamente en la red europea COST, de la cual el CEAB participa activamente (<http://research.ncl.ac.uk/costes1103/about/>), y mantengo contacto y colaboración con numerosos investigadores europeos para la generación y mantenimiento de protocolos para generación y análisis de macrodatos. También estoy involucrado en la red del BIB (Bioinformatics Barcelona; <http://www.bioinformaticsbarcelona.eu>), junto con el LBC del CEAB, que imparten cursos y seminarios periódicamente y favorecen la relación entre investigadores y divulgación de nuevas metodologías punteras.

Joan Cáliz Gelador

Surname(s): **Cáliz Gelador**
Name: **Joan**
ORCID: **0000-0001-5714-7431**
ScopusID: **36558762600**

Current professional situation

Employing entity: Universitat de Girona **Type of entity:** University
Department: Biología, Facultat de Ciències
Professional category: Professor asociado
Start date: 12/02/2018
Type of contract: Temporary employment contract **Dedication regime:** Part time
Primary (UNESCO code): 241400 - Microbiology
Secondary (UNESCO code): 241501 - Molecular biology of micro-organisms
Performed tasks: Prácticas de laboratorio de las asignaturas de virología y microbiología para biólogos, ambientólogos y biotecnólogos. Clase teórica de comunicación en máster universitario.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Centro de Estudios Avanzados de Blanes	Investigador postdoctoral	01/02/2018
2	Centro de Estudios Avanzados de Blanes	Investigador postdoctoral (Juan de la Cierva-Formación, 2014)	01/01/2016
3	Centro de Estudios Avanzados de Blanes	Investigador postdoctoral	01/01/2013
4	Biokit, S.A.	Investigador en formación	14/10/2008
5	Universitat de Girona	Profesor asociado universidad A2 (6h+6h)	16/01/2008
6	Universitat de Girona	Investigador predoctoral (BR03/04)	01/01/2004
7	CESPA INGENIERIA URBANA, S.A.	Investigador en formación	09/04/2003
8	Universitat de Girona	Colaborador científico en Instituto de Ecología Acuática	01/08/2001

- 1** **Employing entity:** Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Professional category: Investigador postdoctoral
Start-End date: 01/02/2018 - 31/12/2018 **Duration:** 11 months
Type of contract: Temporary employment contract
Primary (UNESCO code): 241400 - Microbiology; 241501 - Molecular biology of micro-organisms
Performed tasks: Estudio de la dispersión intercontinental de bacterias aerotransportadas mediante análisis genómicos y aproximaciones ecoinformáticas. Evaluación de los microorganismos epífitos de plantas implicados en la transformación del nitrógeno atmosférico. Ecología microbiana de la rizosfera de plantas amenazadas, y su papel en la conservación de la diversidad global.



- 2** **Employing entity:** Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Professional category: Investigador postdoctoral (Juan de la Cierva-Formación, 2014)
Start-End date: 01/01/2016 - 31/12/2017 **Duration:** 2 years
Primary (UNESCO code): 241400 - Microbiology; 241501 - Molecular biology of micro-organisms
Performed tasks: Ecología microbiana de lagos y suelos alpinos, y estudio de la dispersión intercontinental de bacterias aerotransportadas mediante análisis genómicos y aproximaciones ecoinformáticas. Microorganismos de la rizosfera de plantas amenazadas y su papel en la conservación de la diversidad global.
- 3** **Employing entity:** Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Professional category: Investigador postdoctoral
Start-End date: 01/01/2013 - 31/12/2015 **Duration:** 3 years
Type of contract: Temporary employment contract
Primary (UNESCO code): 241400 - Microbiology; 241501 - Molecular biology of micro-organisms
Performed tasks: Ecología microbiana de lagos alpinos y estudio de la dispersión intercontinental de bacterias aerotransportadas mediante análisis genómicos y aproximaciones ecoinformáticas.
- 4** **Employing entity:** Biokit, S.A. **Type of entity:** Business
Professional category: Investigador en formación
Start-End date: 14/10/2008 - 13/05/2009 **Duration:** 7 months
Type of contract: Temporary employment contract
Primary (UNESCO code): 241500 - Molecular biology; 331001 - Industrial equipment
Secondary (UNESCO code): 331113 - Scientific apparatus
Performed tasks: Verificación del sistema de Bio-Transferencia Inducida por Láser (BioLIFT) para la impresión de microarrays. Proyecto de la Agencia Espacial Europea (ESA).
- 5** **Employing entity:** Universitat de Girona **Type of entity:** University
Department: Departamento de Biología, Facultad de Ciencias
Professional category: Profesor asociado universidad A2 (6h+6h)
Start-End date: 16/01/2008 - 15/07/2008 **Duration:** 6 months
Type of contract: Temporary employment contract
Primary (UNESCO code): 241400 - Microbiology
Applicability in teaching and/or research: Desarrollo de la actividad docente asignada según el plan docente de la Universitat de Girona durante el curso académico 2007-2008: -Microbiología ambiental -Análisis microbiológicas -Biología fundamental
- 6** **Employing entity:** Universitat de Girona **Type of entity:** University
Professional category: Investigador predoctoral (BR03/04)
Start-End date: 01/01/2004 - 31/12/2007 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Primary (UNESCO code): 241400 - Microbiology; 241501 - Molecular biology of micro-organisms; 251109 - Soil microbiology
Performed tasks: TESIS - Impacto de distintos tipos de contaminantes en comunidades microbianas del suelo; indicadores ecotoxicológicos microbianos y bacterias de interés para bioremediación y restauración de suelos. Proyecto del Ministerio de Ciencia y Tecnología: REN 2003-09513-C02-02. TESINA - Bacterias oxidadoras del amonio en los procesos de eliminación de nitrógeno: análisis molecular de las poblaciones bacterianas implicadas en sistemas aerobios y anaerobios. Proyecto del Ministerio de Ciencia y Tecnología: BIO99-1014-C02-01.



- 7** **Employing entity:** CESPAN INGENIERIA URBANA, S.A.
Professional category: Investigador en formación
Start-End date: 09/04/2003 - 08/11/2003 **Duration:** 7 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Primary (UNESCO code): 241400 - Microbiology; 241501 - Molecular biology of micro-organisms
Secondary (UNESCO code): 330203 - Industrial microbiology; 330810 - Sewage technology
Performed tasks: Aplicación del proceso Sharon-Anammox para la eliminación del nitrógeno en lixiviados de vertederos. Proyecto Europeo CLONIC (LIFE03 ENV/000140).
- 8** **Employing entity:** Universitat de Girona **Type of entity:** University
Professional category: Colaborador científico en Instituto de Ecología Acuática
Start-End date: 01/08/2001 - 31/12/2002 **Duration:** 1 year - 5 months
Primary (UNESCO code): 241400 - Microbiology
Performed tasks: Ecología y ecofisiología de las bacterias verdes del azufre procedentes de ambientes lacustres salinos.



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Biología Especialidad Biología Fundamental

Degree awarding entity: Universitat de Girona

Type of entity: University

Date of qualification: 04/10/2002

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Biología

Degree awarding entity: Universitat de Girona

Type of entity: University

Date of degree: 13/12/2011

DEA awarding entity: Universitat de Girona

Date DEA was awarded: 17/10/2005

European doctorate: Yes

Thesis title: Impact of chlorophenols and heavy metals on soil microbiota: their effects on activity and community composition, and resistant strains with potential for bioremediation

Thesis director: Xavier Vila Portella

Thesis co-director: Genoveva Montserrat Bueno

Obtained qualification: Excelente Cum Laude

Recognition of quality: Yes

Other postgraduate university studies

Postgraduate qualification: CAP (Certificado de Aptitud Pedagógica)

Degree awarding entity: Universitat de Girona

Type of entity: University

Faculty, institute or centre: Instituto de Ciencias de la Educación (ICE)

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

1 Training title: Estadística multivariante en R
Awarding entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Training manager: Joan Riera
End date: 24/10/2014
Duration in hours: 20 hours

2 Training title: Micro B3 Training in "Multivariate analysis of marine microbial biodiversity"
Awarding entity: Jacobs University Bremen
End date: 21/06/2013
Duration in hours: 40 hours



3 Training title: Introducción al análisis estadístico en R: Aplicaciones ecológicas
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Training manager: Francesc Oliva
End date: 10/05/2013 **Duration in hours:** 20 hours

4 Training title: COST training school ES1103: Bioinformatics for Microbial Community Analysis
Awarding entity: Centre for Genomic Research, University of Liverpool **Type of entity:** University
End date: 14/12/2012 **Duration in hours:** 40 hours

5 Training title: Introducción al software ARB y análisis filogenético de genes ribosómicos
Awarding entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
End date: 20/04/2006 **Duration in hours:** 20 hours

Language skills

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

Teaching experience

General teaching experience

Type of teaching: Official teaching
Name of the course: Microbiología ambiental/Análisis microbiológicas/Biología fundamental
Type of programme: Bachelor's degree
University degree: Licenciado en Biología Rama Biología Fundamental Especialidad Microbiología
Start date: 16/01/2008 **End date:** 15/07/2008
Entity: Universitat de Girona **Type of entity:** University
Faculty, institute or centre: Facultat de Ciències



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:** BRIDGES: Bridging the gap between empirical microbial ecology and theories of biodiversity organization in space and time
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Funding entity or bodies: MINECO - Plan Nacional I+D
Code according to the funding entity: CGL2015-69043-P
Start-End date: 01/01/2016 - 31/12/2018 **Duration:** 3 years
- 2** **Name of the project:** Grupo Consolidado de Investigación en Ecología de los Cambios Ambientales (GECA)
Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Jordi Catalan
Funding entity or bodies: Generalitat de Catalunya **Type of entity:** Autonomic agency
City funding entity: Barcelona, Catalonia, Spain
Name of the programme: Ayudas para Grupos de Investigación Consolidados
Code according to the funding entity: Ref. 2014 SGR 1249
Start-End date: 01/01/2014 - 31/12/2016 **Duration:** 3 years
Total amount: 45.000 €
- 3** **Name of the project:** DISPERSAL: Seguimiento a largo plazo de comunidades microbianas en lagos de alta montaña y de la dispersión remota mediante aerosoles atmosféricos en el contexto del cambio global
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency
Funding entity or bodies: MINISTERIO AGRICULTURA, ALIMENTACION Y MEDIO AMBIENTE - INVESTIGACIÓN RED DE Parques Nacionales (OAPN) **Type of entity:** State agency
Code according to the funding entity: 829/2013
Start-End date: 28/12/2013 - 27/12/2016 **Duration:** 3 years
- 4** **Name of the project:** Aproximacion eoinformatica y metagenomica a la ecologia y evolucion microbianas
Geographical area: National
Degree of contribution: Researcher



Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency

Funding entity or bodies:
CSIC

Type of entity: State agency

Name of the programme: Convocatoria Proyectos Intramurales Especiales

Code according to the funding entity: PIE201330E021

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

Duration: 3 years

5 Name of the project: DARKNESS: Aproximación Ecoinformática a la Ecología y Evolución de Metabolismos Microbianos Quimiolitotrofos y Vínculos con el Cambio Global

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency

Funding entity or bodies:

MINECO - Plan Nacional I+D

Name of the programme: Subprograma BOS

Code according to the funding entity: CGL2012-32747

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

Duration: 3 years

Total amount: 205.000 €

6 Name of the project: COST Action number: ES1103. CISME: Microbial Ecology & The Earth System: Collaborating for Insight and Success with the new generation of sequencing tools.

Geographical area: European Union

Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency

Funding entity or bodies:

European Cooperation in Science and Technology-COST Actions. EU RTD Framework Programme

Code according to the funding entity: OC-2010-2-8674

Start-End date: 28/10/2011 - 27/10/2015

7 Name of the project: Ecología Microbiana Molecular - Ayudas para grupos de investigación consolidados (GRC)

Geographical area: Regional

Entity where project took place: Universitat de Girona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Carles Abella Ametller

Funding entity or bodies:

Agència de Gestió d'Ajuts Universitaris i de Recerca (AGAUR), Generalitat de Catalunya.

Code according to the funding entity: 2005SGR 01067

Start-End date: 2005 - 2008

8 Name of the project: Genómica Ambiental Microbiana

Geographical area: Regional

Entity where project took place: Centro de Estudios Avanzados de Blanes **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): E.O. Casamayor

Nº of researchers: 40

Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA



City funding entity: Spain

Code according to the funding entity: CIRYT 2004XT 00012

Start-End date: 2004 - 2006

- 9 Name of the project:** CLONIC - CLOsing the Nitrogen Cycle from urban landfill leachate by biological nitrogen removal over nitrite and thermal treatment

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Universitat de Girona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Jesús Colprim Galceran

Nº of researchers: 9

Funding entity or bodies:

CESPA GESTIÓN DE RESIDUOS, S.A.

City funding entity: Spain

Code according to the funding entity: LIFE03 ENV/000140

Start-End date: 2003 - 2006

Total amount: 230.701 €

- 10 Name of the project:** Efectos de distintos tipos de contaminantes sobre las comunidades microbianas en suelos. Indicadores ecotoxicológicos microbianos y bacterias de interés para bioremediación y restauración de suelos

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universitat de Girona **Type of entity:** University

Name principal investigator (PI, Co-PI....): Carles Abella Ametller

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Type of entity: State agency

Name of the programme: PN de Recursos Naturales

Code according to the funding entity: REN2003-09513-C02-02

Start-End date: 2003 - 2006

Duration: 3 years

Total amount: 75.000 €

- 11 Name of the project:** Desarrollo de un método de diagnóstico de la respuesta de la comunidad nitrificante a variaciones en los parámetros ambientales. Integración de la información proporcionada en un sistema supervisor del proceso

Entity where project took place: Universitat de Girona (UdG)

Name principal investigator (PI, Co-PI....): Carles Abella Ametller

Funding entity or bodies:

Comisión Interministerial de Ciencia y Tecnología (CICYT)

Type of entity: State agency

Code according to the funding entity: BIO99-1014-C02-01

Start-End date: 1999 - 2002



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

- 1** **Name of the project:** Verification of the new BioLIFT demonstrator for the synthesis of microarrays by laser injection
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: NTE S.A. i Biokit (Grup Werfen)
Name principal investigator (PI, Co-PI....): Jordi Carrera
Funding entity or bodies:
European Space Agency (ESA)

Start date: 2006 **Duration:** 4 years
- 2** **Name of the project:** Estudio sobre la eliminación de nitrógeno de lixiviados de vertedero mediante la aplicación Sharon-Anammox
Degree of contribution: Researcher
Entity where project took place: Universitat de Girona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesus Colprim Galceran
Funding entity or bodies:
CESPA GESTIÓN DE RESIDUOS, S.A.
City funding entity: Spain

Code according to the funding entity: 016/03 18/03/03
Start date: 2003 **Duration:** 3 years
- 3** **Name of the project:** Estudio sobre la eliminación de nitrógeno de lixiviados de vertedero mediante la aplicación Sharon-Anammox
Degree of contribution: Researcher
Entity where project took place: Universitat de Girona **Type of entity:** University
Name principal investigator (PI, Co-PI....): Jesus Colprim Galceran
Funding entity or bodies:
CESPA GESTIÓN DE RESIDUOS, S.A.
City funding entity: Spain

Code according to the funding entity: 015/03 18/03/03
Start date: 2002 **Duration:** 1 year



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** X. Triadó-Margarit; J. Caliz; I. Reche; E. O. Casamayor. High similarity in bacterial bioaerosol compositions between the free troposphere and atmospheric depositions collected at high-elevation mountains. <https://doi.org/10.1016/j.atmosenv.2019.01.038>. Atmospheric Environment. 2019.

Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 2** J. Caliz; X. Triadó-Margarit; LL. Camarero; E. O. Casamayor. A long-term survey unveils strong seasonal patterns in the airborne microbiome coupled to general and regional atmospheric circulations. <https://doi.org/10.1073/pnas.1812826115>. Proceedings of the National Academy of Sciences. 115 - 48, pp. 12229 - 12234. 2018.

Type of production: Scientific paper **Format:** Journal
Impact source: ISI
- 3** M. Turon; J. Cáliz; L. Garate; E.O Casamayor; MJ. Uriz. Showcasing the role of seawater in bacteria recruitment and microbiome stability in sponges. DOI: 10.1038/s41598-018-33545-1. Scientific Reports. 8 - 1, pp. 25 - 32. 2018.

Type of production: Scientific paper **Format:** Journal
- 4** J. Caliz; M. Montes-Borrego; X. Triadó-Margarit; M. Metsis; B. B. Landa; E. O. Casamayor. Influence of edaphic, climatic, and agronomic factors on the composition and abundance of nitrifying microorganisms in the rhizosphere of commercial olive crops. PlosOne. 10 - 5, 2015. ISSN 1932-6203

Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MULTIDISCIPLINARY SCIENCES
Impact index in year of publication: 3.534 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 55
- 5** J. Caliz; E. O. Casamayor. Environmental controls and composition of aerobic anoxygenic phototrophs in ultraoligotrophic high-altitude lakes (Central Pyrenees). Environmental Microbiology Reports. 6 - 2, pp. 145 - 151. 2014.

Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Environmental Science (miscellaneous)
Impact index in year of publication: 3.264 **Journal in the top 25%:** Yes
Position of publication: 35 **No. of journals in the cat.:** 216
- 6** Martí, E.; Sierra, J.; Cáliz, J.; Montserrat, G.; Vila, X.; Garau, M. A.; Cruañas, R. Ecotoxicity of Cr, Cd and Pb on two Mediterranean soils. Archives of Environmental Contamination and Toxicology. 64 - 3, pp. 377 - 387. (United States of America): 2013. ISSN 0090-4341

Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Environmental Science (miscellaneous)



Impact index in year of publication: 1.960
Position of publication: 93

Journal in the top 25%: No
No. of journals in the cat.: 216

- 7** Cáliz, J.; Montserrat, G.; Martí, E.; Sierra, J.; Cung, A.P.; Morais, P.; Vila, X. Emerging resistant microbiota from an acidic soil exposed to toxicity of Cr, Cd and Pb is influenced by the bioavailability of these metals. (DOI) 10.1007/s11368-012-0609-7. Journal Of Soils And Sediments. 13 - 2, pp. 413 - 428. (Germany): 2013. ISSN 1439-0108

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Soil Science

Impact index in year of publication: 2.107

Journal in the top 25%: No

Position of publication: 11

No. of journals in the cat.: 34

- 8** Martí, E.; Cáliz, J.; Montserrat, G.; Garau, M. A.; Vila, X.; Cruañas, R.; Sierra, J. Air-drying, cooling and freezing for soil sample storage affects the activity and the microbial communities from two Mediterranean soils. Geomicrobiology Journal. 29 - 2, pp. 151 - 160. (United States of America): 2012. ISSN 0149-0451

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - GEOSCIENCES, MULTIDISCIPLINARY

Impact index in year of publication: 1.608

Journal in the top 25%: No

Position of publication: 76

No. of journals in the cat.: 172

- 9** Cáliz, J.; Montserrat, G.; Martí, E.; Sierra, J.; Garau, M. A.; Cruañas, R.; Triadó-Margarit X.; Vila, X. The exposition of a calcareous Mediterranean soil to toxic concentrations of Cr, Cd and Pb produces changes in the microbiota mainly related to differential metal bioavailability. Chemosphere. 89 - 5, pp. 594 - 504. (United Kingdom): 2012. ISSN 0045-6535

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Environmental Science (miscellaneous)

Impact index in year of publication: 3.137

Journal in the top 25%: Yes

Position of publication: 36

No. of journals in the cat.: 210

- 10** Martí, E.; Sierra, J.; Cáliz, J.; Montserrat, G.; Vila, X.; Garau, M. A.; Cruañas, R. Ecotoxicity of chlorophenolic compounds depending on soil characteristics. Science of the Total Environment. 409 - 14, pp. 2707 - 2716. (Holland): 2011. ISSN 0048-9697

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Environmental Science (miscellaneous)

Impact index in year of publication: 3.286

Journal in the top 25%: Yes

Position of publication: 29

No. of journals in the cat.: 205

- 11** Cáliz, J.; Vila, X.; Martí, E.; Sierra, J.; Cruañas, R.; Garau, M. A.; Montserrat, G. Impact of chlorophenols on microbiota of an unpolluted acidic soil: microbial resistance and biodegradation. Fems Microbiology Ecology. 78 - 1, pp. 150 - 164. (Holland): 2011. ISSN 0168-6496

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Microbiology

Impact index in year of publication: 3.408

Journal in the top 25%: No

Position of publication: 33

No. of journals in the cat.: 114

- 12** Cáliz, J.; Vila, X.; Martí, E.; Sierra, J.; Nordgren, J.; Lindgren, P.E.; Bañeras, L.; Montserrat, G. The microbiota of an unpolluted calcareous soil faces up chlorophenols: Evidences of resistant strains with potential for bioremediation. Chemosphere. 83 - 2, pp. 104 - 116. (United Kingdom): 2011. ISSN 0045-6535



Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.206
Position of publication: 32

Format: Journal
Category: Environmental Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 205

- 13** Sánchez-Melsió, A.; Cáliz, J.; Balaguer, M.D.; Colprim, J.; Vila, X. Development of batch-culture enrichment coupled to molecular detection for screening of natural and man-made environments in search of anammox bacteria for N-removal bioreactors systems. *Chemosphere*. 75 - 2, pp. 169 - 179. (United Kingdom): 2009. Available on-line at: <<http://dx.doi.org/10.1016/j.chemosphere.2008.12.017>>. ISSN 0045-6535

Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,253
Position of publication: 23

Format: Journal
Category: Environmental Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 181

- 14** J. Cáliz; X. Triadó-Margarit; E.O. Casamayor. Seguimiento a largo plazo de la deposición microbiana e identificación de patógenos potenciales en el Parque Nacional d'Aigüestortes i Estany de Sant Maurici. La investigació al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. X Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici. pp. 25 - 32. 2016. ISBN 978-84-393-9451-8

Type of production: Book chapter

Format: Book

- 15** E.O. Casamayor; J. Cáliz; X. Triadó-Margarit. Control climático de la colonización bacteriana remota mediante aerosoles atmosféricos en el Parque Nacional de Aigüestortes i Estany de Sant Maurici. *Proyectos de Investigación en Parques Nacionales: 2010-2013*. pp. 239 - 255. Pep Amengual y Benigno Asensio (editores), 2015. ISBN 978-84-8014-870-2

Type of production: Book chapter

Format: Book

- 16** Cáliz, J.; Montserrat, G.; Sierra, J.; Martí, M.; Sánchez, M.; Cruañas, R.; Garau, M.A.; Vila, X. Chromium-resistant bacteria and TCP/PCP-resistant bacteria from a calcareous clayey soil: detection, identification, isolation and characterization of their behaviour at high pollutant concentrations. *ConSoil 2008*. (Italy): 2008. ISBN 978-3-00-024598-5

Type of production: Book chapter

Format: Book

- 17** Sánchez-Melsió, A.; Cáliz, J.; Colprim, J.; Vila, X. Detection, identification and characterization by molecular methods (using several primers) of anammox bacteria populations in enrichments. CLONIC Final Workshop'07 - Closing the Nitrogen Cycle. *Proceedings Book*. 1, pp. 66 - 73. (Spain): 2007.

Legal deposit: B-12215-2007

Type of production: Book chapter

Format: Book

- 18** Cáliz, J.; Sánchez, M.; Sierra, J.; Montserrat, G.; Martí, M.; Cruañas, R.; Garau, M.A.; Vila, X. Ecotoxicity of toxic elements and chlorophenolic compounds on soil microbiota: assessment and potential for bioremediation. *Soil and Wetland Ecotoxicology (SOWETOX 2007)*. (Spain): 2007. ISBN 978-84-475-3247-6

Type of production: Book chapter

Format: Book

- 19** M. Turon; L. Garate; X. Triadó-Margarit; J. Cáliz; MJ. Uriz. Sponges and their microbiomes in clean and polluted habitats. *Front. Mar. Sci. Conference Abstract: XIX Iberian Symposium on Marine Biology Studies*. pp. 25 - 32. 2016. Available on-line at: <[doi: 10.3389/conf.FMARS.2016.05.00042](https://doi.org/10.3389/conf.FMARS.2016.05.00042)>. ISSN 2296-7745

Type of production: Conference Abstract

Format: Journal



Works submitted to national or international conferences

- 1** **Title of the work:** Application of the Theory of Island Biogeography to predict the fate of the airborne microbiome in future climatic scenarios
Name of the conference: 1st Meeting of the Iberian Ecological Society (SIBECOL) & XIV AEET meeting
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 04/02/2019
End date: 07/02/2019
E.O Casamayor; V. Jimenez-Ontiveros; J. Caliz; X. Triadó-Margarit; D. Alonso.
- 2** **Title of the work:** Contrasting microbial nitrogen-transforming networks in mountain lake benthic habitats
Name of the conference: 1st Meeting of the Iberian Ecological Society (SIBECOL) & XIV AEET meeting
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 04/02/2019
End date: 07/02/2019
C. Palacín-Lizarbe; LI. Camarero; S. Hallin; C.M. Jones; J. Caliz; E.O. Casamayor; J. Catalan.
- 3** **Title of the work:** Leaf microbes and nitrification in the canopies of European forests: evidence from stable isotopes, meta-barcoding and qPCR
Name of the conference: 1st Meeting of the Iberian Ecological Society (SIBECOL) & XIV AEET meeting
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 04/02/2019
End date: 07/02/2019
R. Guerrieri; A. Barceló; S. Mattana; J. Caliz; D. Elustondo; S. Hellstein; G. Matteucci; P. Merilä; G. Michalski; M. Nicolas; E. Vanguelova; A. Verstraeten; P. Waldner; M. Watanabe; J. Peñuelas; M. Mencuccini.
- 4** **Title of the work:** Un estudio dinámico de las comunidades microbianas del Parque Nacional de Aigüestortes: oportunidades para la conservación
Name of the conference: XI Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Boí, Catalonia, Spain
Date of event: 17/10/2018
End date: 19/10/2018
V.J. Ontiveros; J. Caliz; X. Triadó-Margarit; E.O. Casamayor; D. Alonso.
- 5** **Title of the work:** Beyond greenness: microbial life hidden in tree canopies and its contribution to nitrogen cycling
Name of the conference: From the deep past to the anthropocene: coupling Earth system function to climatic change. Celebrating frontier research and promoting equality
Type of event: Conference
Type of participation: Participatory - poster
City of event: Talence, France
Date of event: 08/03/2018
End date: 09/03/2018



R. Guerrireri; S. Mattana; J. Caliz; J. Peñuelas; M. Mencuccini.

- 6** **Title of the work:** BRIDGING THE GAP BETWEEN EMPIRICAL MICROBIAL ECOLOGY AND THEORIES OF BIODIVERSITY ORGANIZATION IN SPACE AND TIME
Name of the conference: 7th Congress of European Microbiologists (FEMS2017)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 2017
E.O. Casamayor; D. Alonso; J.A. Capitan; X. Triadó-Margarit; J. Caliz; R. Ortiz-Alvarez; V. Jimenez-Ontiveros1.
- 7** **Title of the work:** CLIMATE CONTROL OF REMOTE MICROBIAL DISPERSAL THROUGH ATMOSPHERIC AEROSOLS: A LONG-TERM STUDY IN THE CENTRAL PYRENEES (LTER-AIGUESTORTES)
Name of the conference: 7th Congress of European Microbiologists (FEMS2017)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 2017
E.O. Casamayor; X. Triadó-Margarit; J. Caliz; R. Ortiz-Alvarez.
- 8** **Title of the work:** DISPERSAL OR SELECTION, THE CASE OF ATMOSPHERIC MICROBIAL COMMUNITIES
Name of the conference: 7th Congress of European Microbiologists (FEMS2017)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 2017
J. Caliz; X. Triadó-Margarit; V. Jimenez-Ontiveros1; D. Alonso; A. Àvila; E.O. Casamayor.
- 9** **Title of the work:** Do sponge microbiomes depend on past water prokaryotic assemblages?
Name of the conference: 10th World Sponge Conference
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Galway, Ireland
Date of event: 2017
C. Huete-Stauffer; J. Caliz; MJ. Uriz.
- 10** **Title of the work:** Do symbiotic bacteria help sponges to cope with eutrophication?
Name of the conference: 10th World Sponge Conference
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Galway, Ireland
Date of event: 2017
M. Turon; L. Garate; X. Triadó-Margarit; J. Caliz; MJ. Uriz.
- 11** **Title of the work:** INTER-ANNUAL PREDICTABILITY OF ATMOSPHERIC MICROORGANISMS DYNAMICS AND OCCURRENCE OF AIRBORNE POTENTIAL PATHOGENS
Name of the conference: 7th Congress of European Microbiologists (FEMS2017)
Type of event: Conference



Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 2017
X. Triadó-Margarit; J. Caliz; L. Camarero; E.O. Casamayor.

12 **Title of the work:** Sponges and their microbiomes in clean and polluted habitats
Name of the conference: XIX Iberian Symposium on Marine Biology Studies
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Porto, Portugal
Date of event: 2016
M. Turon; L. Garate; X. Triadó-Margarit; J. Caliz; MJ. Uriz.

13 **Title of the work:** Seguimiento a largo plazo de la deposición microbiana e identificación de patógenos potenciales en el Parque Nacional d'Aigüestortes i Estany de Sant Maurici
Name of the conference: X Jornades sobre Recerca al Parc Nacional d'Aigüestortes i Estany de Sant Maurici
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Espot, Catalonia, Spain
Date of event: 2015
J. Caliz; X. Triadó-Margarit; E.O. Casamayor.

14 **Title of the work:** Exploring the links between microbial communities and ecosystems functioning and ecological processes
Name of the conference: Jornada del Cluster Català de Recerca de l'Aigua
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Girona, Catalonia, Spain
Date of event: 2014
T. Llorens-Marès; R. Ortiz-Alvarez; J. Caliz; X. Triadó-Margarit; E.O. Casamayor.

15 **Title of the work:** Changes in the microbiota of a forest acidic soil from a Mediterranean region and evidences of biodegrading activity after experimental pollution with chlorophenols
Name of the conference: Ecology of soil microorganisms (Soilmicrobes)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga,
Date of event: 2011
Cáliz, J.; Montserrat, G.; Martí, E.; Sierra, J.; Garau, M.A.; Cruañas, R.; Vila, X.

16 **Title of the work:** The microbiota of an agricultural calcareous soil from a Mediterranean region faces up chlorophenols: evidences of resistant strains with potential for bioremediation
Name of the conference: Ecology of soil microorganisms (Soilmicrobes)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga,
Date of event: 2011
Cáliz, J.; Vila, X.; Martí, E.; Sierra, J.; Nordgren, J.; Lindgren, P.E.; Garau, M.A.; Cruañas, R.; Montserrat, G.



- 17 Title of the work:** Assessing the most usual methods to conserve soil samples in laboratory (air-drying, refrigeration and freeze) by respirometric and molecular approaches
Name of the conference: ConSoil 2008
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Milano, Italy
Date of event: 2008
Cáliz, J.; Montserrat, G.; Sierra, J.; Martí, M.; Sánchez, M.; Cruañas, R.; Garau, M.A.; Vila, X.
- 18 Title of the work:** Chromium-resistant bacteria and TCP/PCP-resistant bacteria from a calcareous clayey soil: detection, identification, isolation and characterization of their behaviour at high pollutant concentrations
Name of the conference: ConSoil 2008
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Milano, Italy
Date of event: 2008
Cáliz, J.; Montserrat, G.; Sierra, J.; Martí, M.; Sánchez, M.; Cruañas, R.; Garau, M.A.; Vila, X. "Proceedings book (ISBN: 978-3-00-024598-5)".
- 19 Title of the work:** Detection, identification and characterization by molecular methods (using several primers) of anammox bacteria populations in enrichments
Name of the conference: CLONIC Final Workshop '07. Closing the nitrogen cycle from urban landfill leachate by biological nitrogen removal over nitrite and thermal treatment. LIFE03 ENV/E/000140
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2007
Sánchez-Melsió, A.; Cáliz, J.; Colprim, J.; Vila, X. "Proceedings book (ISBN B 12215-2007)".
- 20 Title of the work:** Ecotoxicity of toxic elements and chlorophenolic compounds on soil microbiota: assessment and potential for bioremediation
Name of the conference: International Meeting on Soil and Wetland Ecotoxicology (SOWETOX)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 2007
Cáliz, J.; Sánchez, M.; Sierra, J.; Montserrat, G.; Martí, M.; Cruañas, R.; Garau, M.A.; Vila, X. "Proceedings book (ISBN: 978-84-475-3247-6)".
- 21 Title of the work:** Effects of 2-chlorophenol, 2,4,6-trichlorophenol and pentachlorophenol on soil respiratory activity and microbial populations of a calcareous soil
Name of the conference: International Meeting on Soil and Wetland Ecotoxicology (SOWETOX)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 2007
Sánchez, M.; Cáliz, J.; Martí, E.; Montserrat, G.; Sierra, J.; Vila, X.; Cruañas, R.; Garau, M.A.
- 22 Title of the work:** Detection, isolation and molecular identification of microorganisms resistant to heavy metals (Cr, Cd, Pb) in a Mediterranean calcareous soil
Name of the conference: 11th International Symposium on Microbial Ecology (ISME)
Type of event: Conference



Type of participation: 'Participatory - poster
City of event: Viena, Austria
Date of event: 2006
Cáliz, J.; Montserrat, G.; Vila, X.

- 23** **Title of the work:** Effects of Cr (VI) and Cd (II) contamination on the respiratory activity and microbial populations of a calcareous soil
Name of the conference: Workshop on Bioavailability of Pollutants and Soil Remediation
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain
Date of event: 2006
Cáliz, J.; Sánchez, M.; Sierra, J.; Montserrat, G.; Martí, E.; Vila, X.; Garau, M.A.
- 24** **Title of the work:** Effects of chlorophenols pollution on the respiratory activity and microbial populations of a calcareous soil
Name of the conference: Workshop on Bioavailability of Pollutants and Soil Remediation
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Sevilla, Spain
Date of event: 2006
Sánchez, M.; Cáliz, J.; Martí, E.; Montserrat, G.; Sierra, J.; Vila, X.; Cruañas, R.
- 25** **Title of the work:** Looking for improvements in specific PCR detection of Anammox bacteria in environmental samples and wastewater sludge
Name of the conference: 11th International Symposium on Microbial Ecology (ISME)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Viena, Austria
Date of event: 2006
Sánchez-Melsió, A.; Cáliz, J.; Colprim, J.; Vila, X.
- 26** **Title of the work:** Molecular identification of anaerobic ammonia-oxidizing bacteria (Anammox) in batch enrichment cultures from sludge and sediment samples
Name of the conference: 8th Symposium on Bacterial Genetics and Ecology (BAGECO 8)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 2005
Cáliz, J.; Sánchez-Melsió, A.; Montserrat, G.; Vila, X.; Balaguer, M.D.; Colprim, J.
- 27** **Title of the work:** Ammonia-oxidizing bacteria in laboratory-scale experimental reactors for wastewater treatment: a comparison of Nso189 and Nso1225 sequences as specific primers for DGGE analyses
Name of the conference: 10th International Symposium on Microbial Ecology
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Cancún, Mexico
Date of event: 2004
Vila, X.; Cáliz, J.; Montserrat, G.; Lindgren, P.E.; Abella, C.A.



R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: International meeting on Soil and Wetland Ecotoxicology (SOWETOX'07)
Geographical area: European Union
City convening entity: Barcelona, Catalonia, Spain
Start date: 2007

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Peer Reviewer
Entity where activity was carried out: Applied Soil Ecology
Type of activity: Review of articles in scientific or technological journals
- 2 Performed tasks:** Peer Reviewer
Entity where activity was carried out: Journal of Basic Microbiology
Type of activity: Review of articles in scientific or technological journals
- 3 Performed tasks:** Peer Reviewer
Entity where activity was carried out: Science of the Total Environment
Type of activity: Review of articles in scientific or technological journals

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Max Planck Institute for Marine Microbiology **Type of entity:** State agency
City of entity: Bremen, Germany
Start-End date: 01/11/2012 - 20/12/2012
Name of programme: COST Action ES1103: Short Term Scientific Mission (STSM)
Goals of the stay: Post-doctoral
Provable tasks: A network approach to explore metagenomics data
- 2 Entity:** Universidade de Coimbra **Type of entity:** University
Faculty, institute or centre: Faculdade de Ciências e Tecnologia
City of entity: Portugal
Start date: 01/09/2009 **Duration:** 7 months
Goals of the stay: Doctorate
Provable tasks: Caracterización de cepas bacterianas resistentes a compuestos tóxicos. Evaluación de su utilidad en procesos de biorremediación
- 3 Entity:** Linköping University
Faculty, institute or centre: Division of Medical Microbiology
City of entity: Sweden
Start date: 01/12/2007 **Duration:** 3 months



Goals of the stay: Doctorate

Provable tasks: Estudio del efecto de diferentes tipos de contaminantes sobre la composición microbiana de suelos mediterráneos. Análisis del gen 16S mediante PCR-DGGE, realizado a partir del RNA de muestras de suelo contaminado.

- 4** **Entity:** Linköping University **Type of entity:** University
Faculty, institute or centre: Division of Medical Microbiology
City of entity: Sweden
Start date: 01/07/2007 **Duration:** 3 months
Goals of the stay: Doctorate
Provable tasks: Diseño de encebadores para la cuantificación específica de diferentes tipos de bacterias mediante PCR en tiempo real

Obtained grants and scholarships

- 1** **Name of the grant:** Juan de la Cierva-Formación 2014
Aims: Post-doctoral
Awarding entity: Ministerio de Economía y Hacienda **Type of entity:** State Agency
Conferral date: 01/01/2016 **Duration:** 2 years
End date: 31/12/2017
Entity where activity was carried out: Centro de Estudios Avanzados de Blanes
Faculty, institute or centre: Departamento de Ecología Continental
- 2** **Name of the grant:** COST Action ES1103: Short Term Scientific Mission (STSM)
Aims: Post-doctoral
Awarding entity: European Cooperation in Science and Technology-COST Actions. EU RTD Framework Programme
Conferral date: 2012
End date: 20/12/2012
- 3** **Name of the grant:** Beca predoctoral (BR03/04)
Aims: Pre-doctoral
Awarding entity: Universitat de Girona **Type of entity:** University
Conferral date: 2004 **Duration:** 4 years
End date: 2007
- 4** **Name of the grant:** COST Action ES1103: Support for attendance at the training school
Aims: Post-doctoral
Awarding entity: European Cooperation in Science and Technology-COST Actions. EU RTD Framework Programme
Conferral date: 2013
- 5** **Name of the grant:** Ayuda asistencia a congresos
Awarding entity: Federation of European Microbiological Societies (FEMS) **Type of entity:** Associations and Groups
Conferral date: 2008
- 6** **Name of the grant:** Ayudas complementarias para la movilidad de investigadores de la UdG 2008
Awarding entity: Universitat de Girona **Type of entity:** University
Conferral date: 2008 **Duration:** 3 months



- 7** **Name of the grant:** Ayudas complementarias para la movilidad de investigadores de la UdG 2007
Awarding entity: Universitat de Girona **Type of entity:** University
Conferral date: 2007 **Duration:** 3 months
- 8** **Name of the grant:** Ayudas complementarias para la movilidad de investigadores de la UdG 2006
Awarding entity: Universitat de Girona **Type of entity:** University
Conferral date: 2006 **Duration:** 3 months

Scientific societies and professional associations

Name of the society: Miembro de la Sociedad Española de Microbiología
Start date: 2008