



María Begoña Ayo Millán

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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.

Begoña Ayo terminó su licenciatura en Biología en 1987, su doctorado en Ciencias (Biología) en la Universidad del País Vasco (UPV / EHU) en 1995 (galardonado con "Premio Extraordinario de Doctorado" en 1998), y obtuvo una beca postdoctoral para desarrollar el Sistema de Control de Calidad en Microbiología en la industria Faes Farma SA (1997-98).

Ha desarrollado su actividad docente principalmente en la Facultad de Ciencia y Tecnología de la UPV/EHU, ("Diploma de Excelencia en Actividad Docente" en 2012). Imparte cursos de Microbiología, Microbiología Aplicada y Ecología Microbiana a nivel de grado en los Grados de Biología, Biotecnología, y Bioquímica y Biología Molecular, y de posgrado en los Másteres "Biodiversidad, funcionamiento y Gestión de Ecosistemas", "Microbiología y Salud" y " Erasmus Mundus Joint Master Degree in Marine Environment ".

Trabaja en ecología microbiana marina, específicamente en la adquisición de poder predictivo sobre el funcionamiento de las comunidades microbianas en escenarios futuros de calentamiento global. Además, analiza los datos de campo obtenidos en el proyecto de investigación 'Expedición de circunnavegación de Malaspina 2010: Cambio global y exploración de la biodiversidad en el océano global ', en el que participó en el bloque " Biodiversidad microbiana y función ecológica ".

Ha participado en 21 proyectos de investigación competitiva financiados por la UPV/EHU, el Gobierno Vasco, los Ministerios Españoles de Ciencia y la UE.

Begoña Ayo finished her degree in Biology in 1987, became PhD in Science (Biology) at the University of the Basque Country (UPV/EHU) in 1995 (awarded with a "Premio Extraordinario de Doctorado" in 1998), and won a postdoctoral grant to develop the Quality Control system in Microbiology at the industry Faes Farma SA (1997-98).

She has developed her teaching activity mainly at the Science and Technology Faculty of the UPV/EHU (awarded with the "Diploma de Excelencia en Actividad Docente" in 2012). She teaches courses on Microbiology, Applied Microbiology and Microbial Ecology at the graduate level of Grades of Biology, Biotechnology, and Biochemistry and Molecular Biology, and postgraduate level of Masters "Biodiversidad, Funcionamiento y Gestión de Ecosistemas", "Microbiología y Salud" and "Erasmus Mundus Joint Master Degree in Marine Environment".

She works on marine microbial ecology, specifically on the acquisition of predictive power about the functioning of the microbial communities in future scenarios of global warming. Additionally, she is analyzing the field data obtained in the research project 'Malaspina Circumnavigation Expedition 2010: Global Change and Exploration of the Biodiversity Global Ocean ', in which she participated in the thematic block "Microbiological Biodiversity and Ecological Function."

She has participated in 21 competitive research projects funded by the UPV/EHU, the Basque Government, the Spanish Ministries for Science, and EU.



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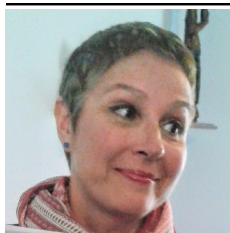
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General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Número de sexenios de investigación: 3
Fecha del último sexenio concedido: 2015
Citas totales: 430
Promedio de citas/elemento: 18,7
Publicaciones totales en primer cuartil: 10
Índice h: 13



María Begoña Ayo Millán

Surname(s): **Ayo Millán**
Name: **María Begoña**
DNI: **11927429C**
ORCID: **0000-0002-3073-9696**
ResearcherID: **F-5022-2016**
Date of birth: **14/02/1965**
Gender: **Female**
Nationality: **Spain**
Country of birth: **Spain**
Aut. region/reg. of birth: **Basque Country**
Contact province: **Biscay**
City of birth: **Portugalete**
Contact address: **Calle Gregorio Uzquiano 8**
Postcode: **48920**
Contact country: **Spain**
Contact aut. region/reg.: **Basque Country**
Contact city: **Portugalete**
Land line phone: **946015397**
Fax: **946013500**
Email: **begona.ayo@ehu.eus**
Mobile phone: **615767102**

Current professional situation

Employing entity: Universidad del País Vasco

Department: Inmunología, Microbiología y Parasitología, Facultad de Ciencia y Tecnología

Professional category: Profesor Titular de Universidad **Educational Management (Yes/No):** Yes

Start date: 19/10/2007

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 240000 - Life Science

Secondary (UNESCO code): 241400 - Microbiology

Tertiary (UNESCO code): 241407 - Microbial metabolism; 241408 - Microbial processes; 241499 - Other (specify)

Performed tasks: Ecología microbiana en sistemas acuáticos naturales, y mas específicamente, estudio de la estructura y actividad de las comunidades microbiana en los sistemas acuáticos, de las interrelaciones entre protistas y bacterias en lossistemas acuáticos, y de los ciclos de materia orgánica disuelta y particulada en los sistemas acuáticos. Las palabras clave que mejor definen la dedicación profesional actual son: Producción secundaria, respiración, eficiencia de crecimiento, actividad ectoenzimática, bacterias libres, bacterias adheridas a agregados, estructura de tamaños, red trófica microbiana, flagelados, ciliados, protistas libres, protistas asociados a partículas, depredación selectiva, quimiotaxia, respuestas sensoriales, carbono orgánico, aminoácidos, enantiómeros L- y D-, biodegradabilidad.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Profesor Colaborador	30/09/2003
2	Universidad del País Vasco	Profesor Asociado	09/10/1998
3	Faes Farma, S.A.	Técnica Superior en Microbiología	01/10/1998
4	Faes Farma, S.A.	Becaria postdoctoral	01/06/1997
5	Universidad del País Vasco	Contratada laboral	01/09/1994
6	Universidad del País Vasco	Profesor asociado	08/03/1993
7	Universidad del País Vasco	Profesor asociado	12/11/1992
8	Universidad del País Vasco	Becaria predoctoral	01/10/1982

1 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesor Colaborador
Start-End date: 30/09/2003 - 18/10/2007

2 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesor Asociado
Start-End date: 09/10/1998 - 29/09/2003

3 **Employing entity:** Faes Farma, S.A. **Type of entity:** Business
Professional category: Técnica Superior en Microbiología
Start-End date: 01/10/1998 - 08/10/1998

4 **Employing entity:** Faes Farma, S.A. **Type of entity:** Business
Professional category: Becaria postdoctoral
Start-End date: 01/06/1997 - 30/05/1998

5 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Contratada laboral
Start-End date: 01/09/1994 - 31/08/1996

6 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesor asociado
Start-End date: 08/03/1993 - 26/12/1993

7 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Profesor asociado
Start-End date: 12/11/1992 - 11/01/1993

8 **Employing entity:** Universidad del País Vasco **Type of entity:** University
Professional category: Becaria predoctoral
Start-End date: 01/10/1982 - 30/09/1992

Education

University education

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

University degree: Higher degree

Name of qualification: Licenciada en Ciencias Biológicas

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of qualification: 1987

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Microbiología

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

Date of degree: 1995

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Basque	B2	C1	B2	C1	C1
English, Middle (ca.1100-1500)	B2	C1	B2	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Metabolismo del oceano y calentamiento global
Entity: Facultad de Ciencia y Tecnología
Student: June Elorduy
Date of reading: 2018
- 2 Project title:** Predación selectiva sobre bacterias alóctonas y bacterioplancton por flagelados y ciliados fagotrofos en un río. Influencia de características propias de las bacterias presa.
Type of project: Minor thesis
Co-director of thesis: Juan Iriberry Ramalle
Entity: Universidad del País Vasco **Type of entity:** University
Student: Ainhoa Labirua-Iturburu Lekue
Obtained qualification: Sobresaliente
Date of reading: 1993



- 3** **Project title:** Actividad predatora de los protozoos ciliados Uronema sp. y Colpoda sp. aislados del río Butrón (Vizcaya). Influencia de la densidad de presas y la temperatura del agua
Type of project: Minor thesis
Co-director of thesis: Juan Iriberry Ramalle
Entity: Universidad del País Vasco **Type of entity:** University
Student: Esther Santamaría de Juan
Obtained qualification: Sobresaliente
Date of reading: 1992
- 4** **Project title:** Biodiversidad microbiana en el Cantábrico oriental
Co-director of thesis: Juan Iriberry
Entity: Universidad del País Vasco **Type of entity:** University
Student: Ainhoa Uranga
- 5** **Project title:** Eficiencia de crecimiento y grado de heterogeneidad del bacterioplancton en los sistemas acuáticos
Co-director of thesis: Juan Iriberry
Entity: Universidad del País Vasco **Type of entity:** University
Student: Zuriñe Baña

Student tutorials

- 1** **Name of the programme:** Prácticas en empresas
Entity: Lamik SA
Frequency of the activity: 1
Number of tutored students: 1
- 2** **Name of the programme:** Prácticas en empresas
Entity: Reckitt Benckiser
Frequency of the activity: 1
Number of tutored students: 1

Educational or pedagogical publications, books, articles, etc.

- 1** Mari aJesús Sevilla; Aitor Rementería; Begoña Ayo. Programa de Seguimiento a la Implantación del Crédito Europeo Curso 2005-06, (SICRE) ISBN: 83-8373.897-X. Servicio Editorial de la Universidad del País Vasco,, 2006.
Name of the materials: Programa docente de Microbiología general, 2º Biología
Date of drafting: 2006
Format: Book
- 2** Begoña Ayo; Aitor Rementería; Mari aJesús Sevilla. Programa de Asesoramiento para la Introducción del Crédito Europeo (AICRE), ISBN: 83-8373-799-x. Servicio Editorial de la Universidad del País Vasco,, 2005.
Name of the materials: Programa docente de Microbiología general, 2º Biología
Date of drafting: 2005
Format: Book



Participation in innovative teaching projects

Project title: Proyecto Módulo I Ambiental del TFG: Proyecto multidisciplinar de iniciación a la investigación dirigido a la cumplimentación de competencias transversales del Grado de Biología

Type of participation: Others

Time of working relationship: For a limited time

Name of the main researcher: Maria Begoña González-Moro

Number of participants: 9

Amount awarded: 3.000 €

Funding entity: Universidad del País Vasco

Type of entity: University

Type of call: Non-competitive

Geographical area: Regional

Start-End date: 2013 - 2014

Duration: 11 months

Participation in conferences with talks focused on teacher training

Name of the event: IV Congreso UNIVEST'13: "Estrategias hacia el aprendizaje colaborativo".

Type of event: Conference

City of event: Gerona, Catalonia, Spain

Date of presentation: 2013

Proyecto Interdisciplinar En Biología Ambiental: De Las Competencias Básicas A Las Competencias Transversales Profesionales.

Other activities/achievements not included above

- 1 Description of the activity:** Asistencia a la jornada: "La nueva configuración del doctorado en Europa". Vicerrectorado de Ordenación Académica
Organising entity: Universidad del País Vasco.
End date: 2010
- 2 Description of the activity:** Asistencia al curso: "Evaluación de las publicaciones científicas: indicadores y herramientas para la solicitud de acreditaciones y sexenios".
Organising entity: Universidad del País Vasco.
End date: 2010
- 3 Description of the activity:** Asistencia al curso: "Primeros auxilios".
Organising entity: Universidad del País Vasco. Servicio de Prevención
End date: 2008
- 4 Description of the activity:** Asistencia al curso: "Riesgo biológico. Trabajo seguro en niveles C1, C2 y C3".
Organising entity: Universidad del País Vasco. Servicio de Prevención
End date: 2008
- 5 Description of the activity:** Asistencia al curso: "Utilización didáctica del software de apoyo a la docencia presencial". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio de Asesoramiento Educativo.
Type of entity: University
End date: 2008



- 6** **Description of the activity:** Asistencia a la jornada: "Buenas prácticas en e-learning". Campus Virtual
Organising entity: Universidad del País Vasco.
End date: 2007
- 7** **Description of the activity:** Asistencia al curso: "Curso sobre la enseñanza de las ciencias". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2006
- 8** **Description of the activity:** Asistencia al curso: "El portafolio como instrumento de evaluación del alumnado universitario". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2006
- 9** **Description of the activity:** Asistencia al curso: "Moodle". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2006
- 10** **Description of the activity:** Asistencia al curso: "Seguimiento para la introducción del crédito europeo (SICRE)". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2006
- 11** **Description of the activity:** Asistencia a la jornada: "Innovación, el camino hacia la convergencia europea". Cátedra de Calidad
Organising entity: Universidad del País Vasco. S
End date: 2005
- 12** **Description of the activity:** Asistencia al curso: "Aplicación del modelo EFQM en la docencia universitaria". Cátedra de Calidad
Organising entity: Universidad del País Vasco.
End date: 2005
- 13** **Description of the activity:** Asistencia al curso: "Asesoramiento para la introducción del crédito europeo (AICRE)". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2005
- 14** **Description of the activity:** Asistencia al curso: "El uso del ordenador para la producción de materiales docentes". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio **Type of entity:** University de Asesoramiento Educativo.
End date: 2005



- 15** **Description of the activity:** Asistencia al curso: "Sensibilización a la calidad total". Cátedra de Calidad
Organising entity: Universidad del País Vasco.
End date: 2005
- 16** **Description of the activity:** Asistencia al curso: "AUTORe". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio de Asesoramiento Educativo. **Type of entity:** University
End date: 2003
- 17** **Description of the activity:** Asistencia al curso: "Introducción a la estadística a través del SPSS". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio de Asesoramiento Educativo. **Type of entity:** University
End date: 2003
- 18** **Description of the activity:** Asistencia al curso: "Técnica vocal". Programa de Formación docente de Profesorado Universitario
Organising entity: Universidad del País Vasco. Servicio de Asesoramiento Educativo. **Type of entity:** University
End date: 2003

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:** Subvención General a Grupos de Investigación. Grupo: Microbios Marinos
Entity where project took place: Universidad del País Vasco
City of entity: Leioa, Basque Country, Spain
Name principal investigator (PI, Co-PI...): Juan Iriberry Ramalle; Begoña Ayo Millán
Nº of researchers: 8
Funding entity or bodies: Universidad del País Vasco **Type of entity:** University
City funding entity: Leioa, Basque Country, Spain
Start-End date: 01/01/2018 - 31/12/2020
Total amount: 25.400 €
- 2** **Name of the project:** Enzimas extracelulares y cambio climático en aguas costeras
Entity where project took place: Universidad del País Vasco
City of entity: Leioa, Basque Country, Spain
Name principal investigator (PI, Co-PI...): Juan Iriberry Ramalle; Begoña Ayo Millán
Nº of researchers: 8
Funding entity or bodies: Universidad del País Vasco **Type of entity:** University
City funding entity: Leioa, Basque Country, Spain



Start-End date: 31/12/2016 - 31/12/2019

Total amount: 105.000 €

3 Name of the project: Subvención General a Grupos de Investigación. Grupo: Microbios Marinos

Entity where project took place: Universidad del País Vasco

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Juan Iriberry

Funding entity or bodies:

Universidad del País Vasco

Type of entity: University

City funding entity: Leioa, Basque Country, Spain

Start-End date: 01/01/2015 - 31/12/2017

Total amount: 52.000 €

4 Name of the project: Diversidad y función del bacterioplancton en el Cantábrico oriental: depredación y recursos como motores del cambio estacional

Entity where project took place: Universidad del País Vasco

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Juan Iriberry

Funding entity or bodies:

Ministerio de Ciencia e Innovación CTM2010-19308

Start-End date: 01/01/2011 - 31/12/2014

Total amount: 126.000 €

5 Name of the project: Subvención General a Grupos de Investigación. Grupo: Microbios Marinos

Entity where project took place: Universidad del País Vasco

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Juan Iriberry

Funding entity or bodies:

Universidad del País Vasco

Type of entity: University

City funding entity: Leioa, Basque Country, Spain

Start-End date: 01/12/2010 - 31/12/2014

Total amount: 80.000 €

6 Name of the project: Expedición de Circunnavegación Malaspina 2010: Cambio Global y exploración de la biodiversidad del Océano Global (Malaspina 2010)

Entity where project took place: Universidad del País Vasco, Hespérides **Type of entity:** University

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Carlos Duarte; Juan Iriberry

Funding entity or bodies:

Ministerio de Ciencia e Innovación Consolider-Ingenio CSD-2008-00077

Universidad del País Vasco

Type of entity: University

Start-End date: 01/01/2009 - 31/12/2014

Total amount: 5.727.652 €

7 Name of the project: Microbiología del Medio Acuático

Entity where project took place: Universidad del País Vasco

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Juan Iriberry

**Funding entity or bodies:**

Universidad del País Vasco GIU 07/30

Start-End date: 12/05/2008 - 11/05/2011**Total amount:** 66.363 €

- 8 Name of the project:** AYUDAS PARA FINANCIACIÓN DE LA ADQUISICIÓN Y RENOVACIÓN DE INFRAESTRUCTURA CIENTÍFICA Y FONDOS BIBLIOGRÁFICOS EN LA UNIVERSIDAD DEL PAÍS VASCO (2009)

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

Universidad del País Vasco

Type of entity: University**Start-End date:** 08/01/2009 - 10/12/2009**Total amount:** 7.000 €

- 9 Name of the project:** Eficiencia de crecimiento del bacterioplancton marino y depredación por bacterívoros

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

MEC Ref CTM-2006-08023

Start-End date: 01/10/2006 - 30/09/2009**Total amount:** 89.000 €

- 10 Name of the project:** VII Reunión científica de Microbiología del Medio Acuático

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

Universidad del País Vasco

Type of entity: University**City funding entity:** Leioa, Basque Country, Spain**Start-End date:** 01/01/2008 - 31/12/2008**Total amount:** 3.000 €

- 11 Name of the project:** Estructura y actividad de los componentes del bucle microbiano en sistemas acuáticos con distribución espacial heterogénea

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

Universidad del País Vasco (Ref 9/UPV 00093.310-15856/2004)

Start-End date: 15/11/2004 - 15/11/2007**Total amount:** 60.000 €

- 12 Name of the project:** Comunicación química en la interrelación protozoos-bacterias. QUIMIC

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry

**Funding entity or bodies:**

MCYT

Type of entity: State agency**City funding entity:** Basque Country, Spain**Start-End date:** 01/12/2003 - 30/11/2006**Total amount:** 59.600 €

- 13 Name of the project:** D-Aminoácidos como indicadores de productividad biológica en sistemas marinos costeros. DAMINO

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Marian Unanue**Funding entity or bodies:**

MCYT (Ref REN2003-05276))

Start-End date: 01/12/2003 - 30/11/2006**Total amount:** 55.000 €

- 14 Name of the project:** Subvención Grupos de Investigación

Entity where project took place: Universidad del País Vasco **Type of entity:** University**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

Universidad del País Vasco

Type of entity: University**City funding entity:** Leioa, Basque Country, Spain**Start-End date:** 29/11/2001 - 29/11/2004**Total amount:** 74.609,64 €

- 15 Name of the project:** Bacteria-Protozoan Interactions Accion Integrada España Alemania

Entity where project took place: Universidad del País Vasco **Type of entity:** University**City of entity:** Spain**Name principal investigator (PI, Co-PI....):** Klaus Jurgens; Juan Iriberry**Funding entity or bodies:**

MCYT (Ref HA-2000-0013)

Start-End date: 01/01/2001 - 31/12/2002**Total amount:** 1.200.000 €

- 16 Name of the project:** Bacterias resistentes a la predación en los sistemas acuáticos: origen, función, importancia

Entity where project took place: Universidad del País Vasco**City of entity:** Leioa, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** Juan Iriberry**Funding entity or bodies:**

DGESIC-MEC (Ref PB97-0635),

Gobierno Vasco (Ref PI-98-25)

Start-End date: 01/01/1999 - 01/12/2001**Total amount:** 8.000.000 €



- 17** **Name of the project:** Puesta a punto y validación de ensayos microbiológicos para detectar y cuantificar contaminación microbiana en materias primas para la fabricación de especialidades farmacéuticas, así como en las mismas especialidades
Entity where project took place: Faes Farma, S.A. **Type of entity:** Business
Name principal investigator (PI, Co-PI....): Aurelio Orjales
Funding entity or bodies:
MINISTERIO DE EDUCACION Y CIENCIA Ref. IN 92-B11927429
Start-End date: 01/06/1997 - 15/10/1998
Total amount: 2.400.000 €
- 18** **Name of the project:** Intervención de los protistas fagotrofos en la descomposición de agregados orgánicos en el medio marino
Entity where project took place: Universidad del País Vasco **Type of entity:** University
City of entity: Leioa, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Juan Iriberry
Funding entity or bodies:
Universidad del País Vasco **Type of entity:** University
City funding entity: Bilbao, Basque Country, Spain
Start-End date: 15/10/1995 - 15/10/1998
Total amount: 5.450.000 €
- 19** **Name of the project:** Descomposición de agregados en el medio marino: detección y función de las comunidades microbianas implicadas
Entity where project took place: Universidad del País Vasco
City of entity: Leioa, Basque Country, Spain
Funding entity or bodies:
DGICYT-MEC (Ref PB92-0442)
Gobierno Vasco (Ref PGV-9223)
Start-End date: 01/01/1993 - 31/12/1994
Total amount: 10.694.000 €
- 20** **Name of the project:** Heterotrophic microbial processes associated with the degradation of particulate material in Mediterranean sea waters (EMPS)
Entity where project took place: CNRI Marseille **Type of entity:** Public Research Body
City of entity: France
Name principal investigator (PI, Co-PI....): Micheline Blanchi; Juan Iriberry
Funding entity or bodies:
CICYT (Ref AMB95-1217.CE)
Unión Europea (Ref MAS2-CT94-0090),
Start-End date: 01/01/1993 - 31/12/1994
Total amount: 77.992 €
- 21** **Name of the project:** Intervención de los protozoos en la eliminación de los vertidos de aguas residuales urbanas a los sistemas fluviales: análisis y determinación de predación selectiva
Entity where project took place: Universidad del País Vasco
City of entity: Leioa, Basque Country, Spain
Name principal investigator (PI, Co-PI....): Juan Iriberry
Funding entity or bodies:



Gobierno Vasco Ref PGV-9016

Start-End date: 01/01/1991 - 31/12/1992

Total amount: 4.180.000 €

- 22 Name of the project:** Caracterización de los estadios de vida libre y adherido a partículas dentro del ciclo de vida bacteriano en sistemas acuáticos de distinto régimen de nutrientes

Entity where project took place: Universidad del País Vasco

City of entity: Leioa, Basque Country, Spain

Name principal investigator (PI, Co-PI...): Juan Iriberry

Funding entity or bodies:

Gobierno Vasco Ref PGV-9016

Start-End date: 01/01/1989 - 31/12/1990

Total amount: 4.960.000 €

Scientific and technological activities

Scientific production

H index: 13

Date of application: 25/07/2015

Publications, scientific and technical documents

- 1** Begoña Ayo; Naiara Abad; Itxaso Artolozaga; Iñigo Azua; Zuriñe Baña; Marian Unanue; JM Gasol; Carlos Duarte; Juan Iriberry. Imbalanced nutrient recycling in a warmer ocean driven by differential response of extracellular enzymatic activities DOI:10.1111/gcb.13779. GLOBAL CHANGE BIOLOGY. 23 - 10, pp. 4084 - 4093. Wiley, 2017.

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

Corresponding author: Yes
- 2** Zuriñe Baña; Begoña Ayo; Celia Marrasé; JM Gasol; Juan Iriberry. Changes in bacterial metabolism as a response to dissolved organic matter modification during protozoan grazing in coastal Cantabrian and Mediterranean waters DOI:10.1111/1462-2920.12274. Environmental Microbiology ISSN: 1462-2912. 16 - 2, pp. 498 - 511. Society for Applied Microbiology and John Wiley & Sons Ltd, 2014.

Type of production: Scientific paper **Format:** Journal
- 3** Begoña Ayo; Aitziber Txakartegi; Zuriñe Baña; Itxaso Artolozaga; Juan Iriberry. Chemosensory response of marine flagellate towards L- and D- dissolved free amino acids generated during heavy grazing on bacteria DOI: 10.2436/20.1501.01.120. International Microbiology ISSN: 1139-6709. 12 - 3, pp. 151 - 158. Spanish Society for Microbiology, 2010.

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

Corresponding author: Yes
- 4** Laura Alonso-Saez; Marian Unanue; Ainhoa Latatu; Iñigo Azua; Begoña Ayo; Itxaso Artolozaga; Juan Iriberry. Changes in marine prokaryotic community induced by varying types of dissolved organic matter and subsequent grazing pressure DOI: 10.1093/plankt/fbp081. Journal of Plankton Research ISSN: 0142-7873. 31 - 11, pp. 1373 - 1383. Oxford University Press, 2009.

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



- 5** Begoña Ayo; Ainhoa Latatu; Itxaso Artolozaga; Klaus Jurgens; Juan Iriberry. Factors Affecting Preference Responses of the Freshwater Ciliate *Uronema nigricans* to Bacterial Prey DOI: 10.1111/j.1550-7408.2008.00387.x. *Journal of Eukaryotic Microbiology* ISSN: 1066-5234. 56 - 2, pp. 158 - 163. The International Society of Protistologists, 2009.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 6** Iñigo Azua; Marian Unanue; Begoña Ayo; Itxaso Artolozaga; Juan Iriberry. Influence of the age of aggregates and prokaryotic abundance on glucose and leucine uptake by heterotrophic marine prokaryotes DOI: 10.2436/20.1501.01.3. *International Microbiology* ISSN: 1139-6709. 10, pp. 13 - 18. Spanish Society for Microbiology, 2007.
Type of production: Scientific paper **Format:** Journal
- 7** Iñigo Azua; Marian Unanue; Begoña Ayo; Itxaso Artolozaga; JM Arrieta; Juan Iriberry. Influence of organic matter quality in the cleavage of polymers by marine bacterial communities DOI: 10.1093/plankt/fbg105. *Journal of Plankton Research* ISSN: 0142-7873. 25 - 12, pp. 1451 - 1460. Oxford University Press, 2003.
Type of production: Scientific paper **Format:** Journal
- 8** Teresa Guindulain; Ainhoa Latatu; Begoña Ayo; Juan Iriberry; Jaume Comas-Riu; Josep Vives-Rego. Flow cytometric detection and quantification of heterotrophic nanoflagellates in enriched seawater DOI: 10.1078/0723-2020-00085. *Systematic and Applied Microbiology* ISSN: 0723-2020. 25 - 1, pp. 100 - 108. Urban & Fischer Verlag, Inc, 2002.
Type of production: Scientific paper **Format:** Journal
- 9** Itxaso Artolozaga; María Valcarcel; Begoña Ayo; Ainhoa Latatu; Juan Iriberry. Grazing rates of bacterivorous protists inhabiting diverse marine planktonic microenvironments. *Limnology and Oceanography* ISSN: 0024-3590. 47 - 1, pp. 142 - 150. Association for the Sciences of Limnology and Oceanography, Inc., 2002.
Type of production: Scientific paper **Format:** Journal
- 10** Begoña Ayo; Esther Santamaría; Ainhoa Latatu; Itxaso Artolozaga; Iñigo Azua; Juan Iriberry. Grazing rates of diverse morphotypes of bacterivorous ciliates feeding on four allochthonous bacteria DOI: 10.1046/j.1472-765X.2001.01034.x. *Letters in Applied Microbiology* ISSN: 0266-8254. 33, pp. 455 - 460. The Society for Applied Microbiology, 2001.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 11** Begoña Ayo; Marian Unanue; Iñigo Azua; Gabriel Gorsky; Carol Turley; Juan Iriberry. Kinetics of glucose and amino acids uptake by attached and free-living marine bacteria in oligotrophic waters DOI: 10.1007/s002270000518. *Marine Biology* ISSN: 0025-3162. 138, pp. 1071 - 1076. Springer-Verlag, 2001.
Type of production: Scientific paper **Format:** Journal
- 12** Itxaso Artolozaga; Begoña Ayo; Ainhoa Latatu; Iñigo Azua; Marian Unanue; Juan Iriberry. Spatial distribution of protists in the presence of macroaggregates in marine systems. *FEMS Microbiology Ecology* ISSN: 0168-6496. 33, pp. 191 - 196. Federation of European Microbiological Societies. Elsevier Science., 2000.
Type of production: Scientific paper **Format:** Journal
- 13** Marian Unanue; Begoña Ayo; Martin Agis; Doris Slezak; Gerhard J Herndl; Juan Iriberry. Ecto enzymatic activity and uptake of monomers in marine bacterioplankton described by a biphasic kinetic model DOI: 10.1007/s002489900128. *Microbial Ecology* ISSN: 0095-3628. 37 - 1, pp. 36 - 48. Springer-Verlag New York Inc, 1999.
Type of production: Scientific paper **Format:** Journal



- 14** Itxaso Artolozaga; Esther Santamaria; Almudena López; Begoña Ayo; Juan Iriberry. Succession of bacterivorous protists on laboratory-made marine snow DOI: 10.1093/plankt/19.10.1429. Journal of Plankton Research ISSN: 0142-7873. 19 - 10, pp. 1429 - 1440. Oxford University Press, 1997.
Type of production: Scientific paper **Format:** Journal
- 15** Juan Iriberry; Begoña Ayo; Esther Santamaría; Isabel Barcina; Luis Egea. Influence of bacterial density and water temperature on the grazing activity of 2 fresh-water ciliates DOI: 10.1111/j.1365-2427.1995.tb01163.x DOI: 10.1111/j.1365-2427.1995.tb01163.x. Freshwater Biology ISSN: 0046-5070. 33 - 2, pp. 223 - 231. John Wiley & Sons Ltd, 1995.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 16** Juan Iriberry; Begoña Ayo; Itxaso Artolozaga; Isabel Barcina; Luis Egea. Grazing on allochthonous vs autochthonous bacteria in river water DOI: 10.1111/j.1472-765X.1994.tb00786.x. Letters in Applied Microbiology ISSN:0266-8254. 18 - 1, pp. 12 - 14. The Society for Applied Microbiology, 1994.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 17** Juan Iriberry; Begoña Ayo; Marian Unanue; Isabel Barcina; Luis Egea. Channeling of bacterioplanktonic production toward phagotrophic flagellates and ciliates under different seasonal conditions in a river. Microbial Ecology ISSN: 0095-3628. 26 - 2, pp. 111 - 124. Springer-Verlag New York Inc, 1993.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 18** Marian Unanue; Begoña Ayo; Iñigo Azua; Isabel Barcina; Juan Iriberry. Comparison of rates of flagellate bacterivory and bacterial production in a marine coastal system. Applied and Environmental Microbiology ISSN: 0099-2240. 58 - 12, pp. 3850 - 3856. American Society for Microbiology, 1992.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 19** Isabel Barcina; Begoña Ayo; Marian Unanue; Luis Egea; Juan Iriberry. Temporal variability of attached and free-living bacteria in coastal waters DOI: 10.1007/BF00165905. Microbial Ecology ISSN: 0095-3628. 23 - 1, pp. 27 - 39. Springer-Verlag New York Inc, 1992.
Type of production: Scientific paper **Format:** Journal
- 20** Isabel Barcina; Begoña Ayo; Alicia Muela; Luis Egea; Juan Iriberry. Predation rates of flagellate and ciliated protozoa on bacterioplankton in a river. FEMS Microbiology Ecology ISSN: 0168-6496. 85 - 2, pp. 141 - 149. Federation of European Microbiological Societies. Elsevier Science., 1991.
Type of production: Scientific paper **Format:** Journal
Corresponding author: Yes
- 21** Juan Iriberry; Marian Unanue; Begoña Ayo; Isabel Barcina; Luis Egea. Attached and free-living dividing bacteria in two aquatic systems DOI: 10.1111/j.1472-765X.1990.tb01282.x. Letters in Applied Microbiology ISSN:0266-8254. 11 - 2, pp. 87 - 89. The Society for Applied Microbiology, 1990.
Type of production: Scientific paper **Format:** Journal
- 22** Juan Iriberry; Marian Unanue; Begoña Ayo; Isabel Barcina; Luis Egea. Bacterial production and growth-rate estimation from [h-3] thymidine incorporation for attached and free-living bacteria in aquatic system. Applied and Environmental Microbiology ISSN: 0099-2240. 56 - 2, pp. 483 - 487. American Society for Microbiology, 1990.
Type of production: Scientific paper **Format:** Journal



- 23** Begoña Ayo; Naiara Abad; Iñigo Azua; Marian Unanue; Juan Iriberry. Actividad enzimática de los procariontes planctónicos. Expedición de Circunnavegación Malaspina 2010: Cambio Global y Exploración de la Biodiversidad del Océano. Libro Blanco de Métodos y Técnicas de Trabajo Oceanográfico ISBN:978-84-00-09419-5. pp. 579 - 586. CSIC, 2012.
Type of production: Book chapter
- 24** Juan Iriberry; Marian Unanue; Begoña Ayo. Heterotrophic processes associated with the degradation of particulate material in Mediterranean Sea Waters. European Microbiology of particulate systems. pp. 1 - 41. European Union, 1996.
Type of production: Book chapter **Format:** Book
- 25** Juan Iriberry; Begoña Ayo. VII Reunión Científica Microbiología Del Medio Acuatico. Libro de resúmenes. 2008.
Type of production: Scientific-technical report **Format:** Book

Works submitted to national or international conferences

- 1** **Title of the work:** Ekialdeko Kantauriar itsasoko kostaldeko partikula exopolimeriko gardenen (PEG) urtean zeharreko bilakaera
Name of the conference: II. Ikergazte
City of event: Baiona, France
Date of event: 2019
Organising entity: SEM
Ainhoa Uranga; Naiara Abad; Iñigo Azua; Itxaso Artolozaga; Zuriñe Baña; Marian Unanue; Begoña Ayo.
- 2** **Title of the work:** Variación estacional de TEPs (Partículas Exopoliméricas Transparentes) en aguas costeras del Mar Cantábrico oriental
Name of the conference: XII reunión del grupo de Microbiología del Medio Acuático
City of event: Sitges, Spain
Date of event: 2018
Organising entity: SEM
Iñigo Azua; Naiara Abad; Itxaso Artolozaga; Begoña Ayo; Zuriñe Baña; Marian Unanue; Ainhoa Uranga; Juan Iriberry.
- 3** **Title of the work:** Bacterial growth efficiency reveals the adaptation of the marine bacterioplankton to environmental changes
Name of the conference: XV International Symposium on Oceanography of the Bay of Biscay. Changing ecosystems: natural versus anthropogenic effects
City of event: Bilbao, Spain
Date of event: 2016
Organising entity: UPV/EHU
Zuriñe Baña; Naiara Abad; Ainhoa Uranga; Iñigo Azua; Itxaso Artolozaga; Marian Unanue; Begoña Ayo; Jesus María Arrieta; Juan Iriberry.
- 4** **Title of the work:** Seasonal replacement of attached and free-living bacteria in coastal waters of the Southern Bay of Biscay
Name of the conference: XV International Symposium on Oceanography of the Bay of Biscay. Changing ecosystems: natural versus anthropogenic effects
City of event: Bilbao, Spain
Date of event: 2016
Organising entity: UPV/EHU



Ainhoa Uranga; Naiara Abad; Zuriñe Baña; Begoña Ayo; Itxaso Artolozaga; Marian Unanue; Iñigo Azua; Jesus María Arrieta; Juan Iriberry.

5 Title of the work: Extracellular enzymatic activity /EEA) in the water column of the global ocean

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: Global and Regional Perspectives - North meets South

City of event: Granada, Spain

Date of event: 21/02/2015

End date: 27/02/2015

Organising entity: ASLO Association for the Sciences of Limnology and Oceanography

City organizing entity: Waco, United States of America

Iñigo Azua; Naiara Abad; Begoña Ayo; Zuriñe Baña; Marian Unanue; Iñigo Garcia-Zarandona; Maria Montserrat Sala; XA Moran; JM Gasol; Juan Iriberry.

6 Title of the work: Metabolic diversity of bacterioplankton in the ocean

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: Global and Regional Perspectives - North meets South

City of event: Granada, Spain

Date of event: 21/02/2015

End date: 27/02/2015

Organising entity: ASLO Association for the Sciences of Limnology and Oceanography

Type of entity: Associations and Groups

City organizing entity: Waco, United States of America

Maria Montserrat Sala; E Borrull; C Antequera; Iñigo Azua; Zuriñe Baña; Iñigo Garcia-Zarandona; Begoña Ayo.

7 Title of the work: The temperature sensitivity of prokaryotic extracellular enzymatic activities implies expected shifts in the stoichiometry of organic matter in a warmer ocean

Name of the conference: 2015 Aquatic Sciences Meeting. Aquatic Sciences: Global and Regional Perspectives - North meets South

City of event: Granada, Spain

Date of event: 21/02/2015

End date: 27/02/2015

Organising entity: ASLO Association for the Sciences of Limnology and Oceanography

Type of entity: Associations and Groups

City organizing entity: Waco, United States of America

Begoña Ayo; Iñigo Azua; Zuriñe Baña; Naiara Abad; Marian Unanue; Montserrat Vidal; JM Gasol; Carlos Duarte; Juan Iriberry.

8 Title of the work: Bacterial functional diversity in the Global Ocean

Name of the conference: • 2nd International Ocean Research Conference. One planet, one ocean

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

City of event: Barcelona, Spain

Date of event: 2014

End date: 2014

Organising entity: Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO)

Maria Montserrat Sala; Encarna Borrull; C Antequera; Iñigo Azua; Zuriñe Baña; Iñigo Garcia-Zarandona; Begoña Ayo.



- 9** **Title of the work:** Microbial communities in marine ecosystems
Name of the conference: 4as Jornadas de Investigación de la Facultad de Ciencia y Tecnología
Type of event: Conference **Geographical area:** Regional
Type of participation: 'Participatory - poster
City of event: Leioa, Spain
Date of event: 2014
End date: 2010
Organising entity: Universidad del País Vasco **Type of entity:** University
Naiara Abad; Ainhoa Uranga; Zuriñe Baña; Itxaso Artolozaga; Begoña Ayo; Iñigo Azua; Marian Unanue; Juan Iriberry.
- 10** **Title of the work:** Sensibilidad a la temperatura de la actividad enzimática extracelular en aguas de la zona eufótica del océano global.
Name of the conference: X Congreso Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Elche-Orihuela, Spain
Date of event: 2014
End date: 2014
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Naiara Abad; Ainhoa Uranga; Zuriñe Baña; Itxaso Artolozaga; Iñigo Azua; Marian Unanue; Begoña Ayo; Juan Iriberry.
- 11** **Title of the work:** Variación estacional de la composición y función de la comunidad bacteriana en el Cantábrico Oriental
Name of the conference: X Congreso Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Elche-Orihuela, Spain
Date of event: 2014
End date: 2014
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Ainhoa Uranga; Naiara Abad; Zuriñe Baña; Itxaso Artolozaga; Iñigo Azua; Marian Unanue; JM Arrieta; Begoña Ayo; Juan Iriberry.
- 12** **Title of the work:** Annual shifts in the structure and function of a coastal community in the Eastern Cantabrian Sea
Name of the conference: First EMBO Conference on Aquatic Microbial Ecology: SAME13
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Stresa, Italy
Date of event: 2013
Organising entity: CNR - Institute of Ecosystem Study. CNR - Institute of Marine Science **Type of entity:** Public Research Body
Ainhoa Uranga; Naiara Abad; Zuriñe Baña; JM Arrieta; Begoña Ayo; Juan Iriberry.
- 13** **Title of the work:** Composición y función de la comunidad bacteriana en aguas costeras del Cantábrico Oriental
Name of the conference: IV Congreso de Biodiversidad
Type of event: Conference **Geographical area:** National



Type of participation: Participatory - oral communication

City of event: Bilbao, Spain

Date of event: 2013

End date: 2013

Organising entity: Gobierno vasco. Dpto Medio Ambiente y Política Territorial

Juan Iriberry; Ainhoa Uranga; Naiara Abad; Zuriñe Baña; Iñigo Azua; Itxaso Artolozaga; JM Arrieta; Marian Unanue; Begoña Ayo.

14 Title of the work: Decrease of bacterial growth efficiency after DOM modification by protozoan grazing in seawater

Name of the conference: First EMBO Conference on Aquatic Microbial Ecology: SAME13

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Stresa, Italy

Date of event: 2013

Organising entity: CNR - Institute of Ecosystem

Type of entity: Public Research Body

Study. CNR - Institute of Marine Science

Zuriñe Baña; Begoña Ayo; Celia Marrase; JM Gasol; Juan Iriberry.

15 Title of the work: Functional diversity of bacterioplankton in the world's oceans

Name of the conference: First EMBO Conference on Aquatic Microbial Ecology: SAME13

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Stresa, Italy

Date of event: 2013

Organising entity: CNR - Institute of Ecosystem

Type of entity: Public Research Body

Study. CNR - Institute of Marine Science

Montserrat Sala; E Borull; C Antequera; Iñigo Azua; Iñigo Gracia-Zarandona; Begoña Ayo.

16 Title of the work: Bacterial community composition in coastal waters of Southern Bay of Biscay of Southeastern Bay of Biscay

Name of the conference: XIII International Symposium on Oceanography of the Bay of Biscay

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

City of event: Santander, Spain

Date of event: 2012

End date: 2012

Ainhoa Uranga; Naiara Abad; Zuriñe Baña; Begoña Ayo; JM Arrieta; Juan Iriberry.

17 Title of the work: Microbial communities in marine ecosystems

Name of the conference: 3as Jornadas de Investigación de la Facultad de Ciencia y Tecnología

Type of event: Conference

Geographical area: Regional

Type of participation: 'Participatory - poster

City of event: Leioa, Spain

Date of event: 2012

End date: 2010

Organising entity: Universidad del País Vasco

Type of entity: University

Juan Iriberry; Itxaso Artolozaga; Begoña Ayo; Iñigo Azua; Marian Unanue; Naiara Abad; Ainhoa Uranga; Zuriñe Baña.



- 18** **Title of the work:** Growth efficiency evidences bacterial community adaptations to the ecosystem
Name of the conference: SAME XII: 12th Symposium on Aquatic Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Rostock, Germany
Date of event: 2011
End date: 2011
Ainhoa Uranga; Zuriñe Baña; Naiara Abad; Begoña Ayo; Juan Iriberry.
- 19** **Title of the work:** Composición específica del bacterioplancton como factor regulador de la respiración de la comunidad: aproximación experimental
Name of the conference: VIII Reunión Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Vigo, Spain
Date of event: 2010
End date: 2010
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Naiara Abad; Zuriñe Baña; Ainhoa Uranga; Begoña Ayo; Juan Iriberry.
- 20** **Title of the work:** Eficiencia de crecimiento de bacterioplancton marino costero y adaptación de la comunidad a lo largo del ciclo estacional
Name of the conference: VIII Reunión Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Vigo, Spain
Date of event: 2010
End date: 2010
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Ainhoa Uranga; Zuriñe Baña; Naiara Abad; Begoña Ayo; Juan Iriberry.
- 21** **Title of the work:** Komunitate mikrobiarren funtzioa itsas-sistemetako karbonoaren zikloan
Name of the conference: Bizi-zientzako ikertzaileen 1. Topaketak
Type of event: Conference **Geographical area:** Regional
Type of participation: 'Participatory - poster
City of event: Eibat, Spain
Date of event: 2010
End date: 2010
Organising entity: Udako Euskal Unibertsitatea **Type of entity:** University
Zuriñe Baña; Ainhoa Uranga; Naiara Abad; Itziar Goirienea; Iñigo Azua; Itxaso Artolozaga; Begoña Ayo; Marian Unanue; Juan Iriberry.
- 22** **Title of the work:** Microbial communities in marine ecosystems
Name of the conference: 2as Jornadas de Investigación de la Facultad de Ciencia y Tecnología
Type of event: Conference **Geographical area:** Regional
Type of participation: 'Participatory - poster
City of event: Leioa, Spain
Date of event: 2010
End date: 2010



Organising entity: Universidad del País Vasco **Type of entity:** University
Juan Iriberry; Marian Unanue; Begoña Ayo; Iñigo Azua; Itxaso Artolozaga; Itziar Goiriena; Zuriñe Baña.

23 Title of the work: Influence of the stress level of the marine ecosystem on the bacterial growth efficiency

Name of the conference: ASLO Aquatic Science Meeting 2009

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Niza, France

Date of event: 2009

End date: 2009

Organising entity: ASLO

Type of entity: Associations and Groups

Zuriñe Baña; Itziar Goiriena; Itxaso Artolozaga; Begoña Ayo; Juan Iriberry.

24 Title of the work: ¿Puede la acción depredadora de los nanoflagelados marinos alterar la eficiencia de crecimiento de sus presas procariotas?

Name of the conference: XXII Congreso Nacional SEM 09

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Almería, Spain

Date of event: 2009

End date: 2009

Organising entity: Sociedad Española de Microbiología

Type of entity: Associations and Groups

Zuriñe Baña; Itziar Goiriena; L Amo; L Juez; Sara Murillo; Begoña Ayo; Juan Iriberry.

25 Title of the work: Chemosensory responses of bacterivorous protists to chemicals of bacterial origin

Name of the conference: Gordon Research Conference on Marine Microbes

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Lucca, Italy

Date of event: 2008

End date: 2008

Begoña Ayo; Aitziber Txakartegi; Zuriñe Baña; Ruth Anderson; Itxaso Artolozaga; Juan Iriberry.

26 Title of the work: Estructura y actividad de comunidades microbianas en sistemas acuáticos

Name of the conference: 1as Jornadas de Investigación de la Facultad de Ciencia y Tecnología

Type of event: Conference

Geographical area: Regional

Type of participation: 'Participatory - poster

City of event: Leioa, Spain

Date of event: 2008

End date: 2008

Organising entity: Universidad del País Vasco

Type of entity: University

Juan Iriberry; Marian Unanue; Begoña Ayo; Iñigo Azua; Itxaso Artolozaga; Itziar Goiriena; Zuriñe Baña; Aitziber Txakartegi.

27 Title of the work: Respiración del bacterioplancton marino: relación con la biomasa y capacidad de producción del ecosistema

Name of the conference: VIII Reunión Científica Microbiología del Medio Acuático

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Bilbao, Spain



Date of event: 2008

End date: 2008

Organising entity: Sociedad Española de Microbiología

Type of entity: Associations and Groups

Zuriñe Baña; Itziar Goiriena; Itxaso Artolozaga; Begoña Ayo; Juan Iriberrí.

28 Title of the work: Discrimination among bacterial chemicals by protists or how to succeed in reaching better prey

Name of the conference: 10th Symposium on Aquatic Microbial Ecology

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Faro, Portugal

Date of event: 2007

End date: 2007

Begoña Ayo; Aitziber Txakartegi; Zuriñe Baña; Ruth Anderson; Itxaso Artolozaga; Juan Iriberrí.

29 Title of the work: Hydrolitic activity and prokaryotic production in different coastal and oceanic seawaters: Cantabrian Sea, Mediterranean Sea and Southern Ocean

Name of the conference: : I Simposio Internacional de Ciencias del Mar, Simposio GLOBEC-IMBER

Type of event: Conference

Geographical area: Non EU International

Type of participation: 'Participatory - poster

City of event: Valencia, Spain

Date of event: 2007

End date: 2007

Juan Iriberrí; Zuriñe Baña; Itziar Goiriena; Aitziber Txakartegi; Itxaso Artolozaga; Iñigo Azua; Begoña Ayo; Marian Unanue.

30 Title of the work: Influencia de la depredación en la eficiencia de crecimiento y respiración del bacterioplancton

Name of the conference: XXI Congreso Nacional SEM 09

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

City of event: Sevilla, Spain

Date of event: 2007

End date: 2007

Organising entity: Sociedad Española de Microbiología

Type of entity: Associations and Groups

Zuriñe Baña; Itziar Goiriena; Itxaso Artolozaga; Iñigo Azua; Marian Unanue; Begoña Ayo; Juan Iriberrí.

31 Title of the work: Localización quimiosensorial selectiva de presas procariotas por protistas bacterívoros marinos utilizando pistas químicas

Name of the conference: VI Reunión Científica Microbiología del Medio Acuático

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

City of event: Valencia, Spain

Date of event: 2006

End date: 2006

Organising entity: Sociedad Española de Microbiología

Type of entity: Associations and Groups

Zuriñe Baña; Aitziber Txakartegi; Itxaso Artolozaga; Begoña Ayo; Juan Iriberrí.



- 32** **Title of the work:** Amino acids from the bacterial cell walls as chemical signals in the interaction protist-bacteria
Name of the conference: 9th Symposium on Aquatic Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Helsinki, Finland
Date of event: 2005
End date: 2005
Begoña Ayo; Aitziber Txakartegi; Zuriñe Baña; Itxaso Artolozaga; Juan Iriberrí.
- 33** **Title of the work:** Respuesta quimiosensorial de protozoos bacterívoros frente a compuestos producidos en la interacción protista-bacteria
Name of the conference: XX Congreso Nacional SEM 09
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Cáceres, Spain
Date of event: 2005
End date: 2005
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Aitziber Txakartegi; Begoña Ayo; Ruth Anderson; Itxaso Artolozaga; Juan Iriberrí.
- 34** **Title of the work:** Selective behaviour of a freshwater grazer Uronema nigricans versus bacterial prey in diverse physiological states
Name of the conference: IX International Symposium on Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Amsterdam, Holland
Date of event: 2001
End date: 2001
Juan Iriberrí; Itxaso Artolozaga; Begoña Ayo; Iñigo Azua; Ainhoa Latatu.
- 35** **Title of the work:** Bacterial chemical cues influence the selective behaviour of bacterivorous nanoflagellates
Name of the conference: 7th European Marine Microbiology Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Noordwijkerhout, Holland
Date of event: 2000
End date: 2000
Ainhoa Latatu; Alberto Garcia; Begoña Ayo; Itxaso Artolozaga; Juan Iriberrí.
- 36** **Title of the work:** Development of grazing resistances induced by bacterivorous nanoflagellates
Name of the conference: 7th European Marine Microbiology Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Noordwijkerhout, Holland
Date of event: 2000
End date: 2000
Ainhoa Latatu; Itxaso Artolozaga; Alberto Garcia; Begoña Ayo; Juan Iriberrí.



- 37** **Title of the work:** Influencia de la excreción de compuestos químicos bacterianos en el comportamiento predador selectivo de un nanoflagelado dulceacuícola
Name of the conference: III Reunión Científica Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Santiago de Compostela, Spain
Date of event: 2000
End date: 2000
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Ainhoa Latatu; Alberto García; Begoña Ayo; Juan Iriberry.
- 38** **Title of the work:** Bacterial heterotrophic activity in the North Western basin of the Mediterranean Sea
Name of the conference: II Workshop on the Mediterranean Targeted Project (MTP)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Heraklion, Greece
Date of event: 1996
End date: 1996
Organising entity: European Union
Juan Iriberry; Begoña Ayo; Micheline Bianchi; Gerhard Herndl; Marian Unanue.
- 39** **Title of the work:** Protistas bacterívoros en un sistema marino costero (golfo de Vizcaya)
Name of the conference: I Reunión Científica Microbiología del Medio Acuático
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication
City of event: Malaga, Spain
Date of event: 1996
End date: 1996
Organising entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
Begoña Ayo; Itxaso Artolozaga; Esther Santamaria; Almudena Lopez; Ainhoa Latatu; Juan Iriberry.
- 40** **Title of the work:** Succession of bacterivorous protists on artificial marine snow
Name of the conference: 5th European Marine Microbiology Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Bergen, Norway
Date of event: 1996
End date: 1996
Juan Iriberry; Almudena Lopez; Esther Santamaria; Begoña Ayo; Ainhoa Latatu; Itxaso Artolozaga.
- 41** **Title of the work:** Determinación de la predación de protistas bacterívoros mediante actividad enzimática lisozima
Name of the conference: XV Congreso Nacional de Microbiología
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Madrid, Spain
Date of event: 1995
End date: 1995
Esther Santamaria; Itxaso Artolozaga; Almudena Lopez; Begoña Ayo; Juan Iriberry.



- 42** **Title of the work:** Differential elimination of freshwater and allochthonous bacteria by protists in a river
Name of the conference: International Workshop on the Measurement of Microbial Activities in the Cycling of Matter in Aquatic Environments. Aquatic Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Konstanz, Germany
Date of event: 1995
End date: 1995
Begoña Ayo; Itxaso Artolozaga; Esther Santamaria; Almudena Lopez; Isabel Barcina; Juan Iriberry.
- 43** **Title of the work:** Preliminary report of the first EMPS cruise
Name of the conference: IWorkshop on the Mediterranean Targeted Project (MTP)
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 1994
End date: 1994
Organising entity: European Union
Micheline Bianchi; Juan Iriberry; Begoña Ayo; Marian Unanue; Gerhard Herndl.
- 44** **Title of the work:** Bacterivory by freshwater ciliates: dependence on prey density and water temperature
Name of the conference: Workshop of the Plankton Ecology Group (PEG) on Protozooplankton Ecology. Methods and Seasonal Successions
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Mondsee, Austria
Date of event: 1993
End date: 1993
Begoña Ayo; Itxaso Artolozaga; Esther Santamaria; Isabel Barcina; Juan Iriberry.
- 45** **Title of the work:** Selective grazing on allochthonous bacteria by bacterivorous protists in an aquatic system
Name of the conference: Workshop of the Plankton Ecology Group (PEG) on Protozooplankton Ecology. Methods and Seasonal Successions
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Mondsee, Austria
Date of event: 1993
End date: 1993
Juan Iriberry; Begoña Ayo; Iñigo Azua; Marian Unanue; Luis Egea.
- 46** **Title of the work:** Selective grazing on allochthonous bacteria by bacterivorous protists in an aquatic system
Name of the conference: Workshop of the Plankton Ecology Group (PEG) on Protozooplankton Ecology. Methods and Seasonal Successions
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
City of event: Mondsee, Austria
Date of event: 1993
End date: 1993



Organising entity: European Union

Juan Iriberry; Begoña Ayo; Iñigo Azua; Marian Unanue; Luis Egea.

- 47** **Title of the work:** Chanelling of bacterioplanktonic biomass through protozooplankton in a river
Name of the conference: VI International Symposium on Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 1992
End date: 1992
Begoña Ayo; Itxaso Artolozaga; Iñigo Azua; Marian Unanue; Juan Iriberry.
- 48** **Title of the work:** Size distribution of exoproteolytic activity in aquatic systems
Name of the conference: VI International Symposium on Microbial Ecology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 1992
End date: 1992
Juan Iriberry; Marian Unanue; Iñigo Azua; Begoña Ayo; Luis Egea.
- 49** **Title of the work:** Actividad exoproteolítica de bacterias de vida libre y adheridas a partículas en un sistema acuático marino
Name of the conference: XIII Congreso Nacional de Microbiología
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Salamanca, Spain
Date of event: 1991
End date: 1991
Iñigo Azua; Begoña Ayo; Marian Unanue; Isabel Barcina; Juan Iriberry.
- 50** **Title of the work:** Considerations about quantifying protozooplanktonic predation upon bacterial production
Name of the conference: V International Workshop on Microbial Ecology of Pelagic Environments
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Helsingor, Denmark
Date of event: 1991
End date: 1991
Juan Iriberry; Begoña Ayo; Marian Unanue; Luis Egea; Isabel Barcina.
- 51** **Title of the work:** Protozoan grazing on bacterioplankton in a marine coastal system
Name of the conference: 4th European Marine Microbiology Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Kiel, Germany
Date of event: 1990
End date: 1990
Begoña Ayo; Alicia Muela; Marian Unanue; Isabel Barcina; Juan Iriberry.



- 52** **Title of the work:** Ciclo de crecimiento de las bacterias de vida libre y adheridas a partículas de un sistema fluvial
Name of the conference: XII Congreso Nacional de Microbiología
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Pamplona, Spain
Date of event: 1989
End date: 1989
Marian Unanue; Begoña Ayo; Luis Egea; Juan Iriberry.
- 53** **Title of the work:** Predación de bacterioplancton por protozoos ciliados y flagelados en el río Butrón (Vizcaya)
Name of the conference: XII Congreso Nacional de Microbiología
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster
City of event: Pamplona, Spain
Date of event: 1989
End date: 1989
Begoña Ayo; Marian Unanue; Juan Iriberry; Isabel Barcina.
- 54** **Title of the work:** Effect of temperature on the heterotrophic activity and production of the attached and free-living bacterioplankton in coastal waters near Bilbao (Biscay, Spain)
Name of the conference: II World Basque Congress of Environmental Biology
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 1987
End date: 1987
Juan Iriberry; Begoña Ayo; Marian Unanue; Luis Egea; Isabel Barcina.

Other dissemination activities

- 1** **Title of the work:** Documental Circunnavegación. Bitácora: La expedición Malaspina. TVE.
Date of event: 25/01/2013
Organising entity: TVE
- 2** **Title of the work:** Teknopolis Tras la estela del cambio climático
Date of event: 08/05/2011
Organising entity: ETB

R&D management and participation in scientific committees

Organization of R&D activities

Title of the activity: VII Reunión Científica Microbiología Del Medio Acuatico.
Type of activity: Congreso **Geographical area:** National
Convening entity: Sociedad Española de Microbiología **Type of entity:** Associations and Groups
City convening entity: Bilbao, Basque Country, Spain
Type of participation: Organiser
Start-End date: 25/09/2008 - 27/09/2008 **Duration:** 3 days

Evaluation and revision of R&D projects and articles

- 1 Performed tasks:** Revisión de artículos de investigación
Entity where activity was carried out: ISNR Microbiology
Start-End date: 2009 - 2014
- 2 Performed tasks:** Revisión de artículos de investigación
Entity where activity was carried out: International Microbiology
Start-End date: 2009 - 2014
- 3 Performed tasks:** Revisión de artículos de investigación
Entity where activity was carried out: Journal of Eukaryotic Microbiology
Start-End date: 2009 - 2014
- 4 Performed tasks:** Evaluación de proyectos
Entity where activity was carried out: Agencia Nacional de Evaluación y Prospectiva **Type of entity:** -
Start-End date: 2009 - 2009

Other achievements

Stays in public or private R&D centres

- 1 Entity:** Buque investigación oceanográfica Hespérides
Start-End date: 18/01/2011 - 10/02/2011 **Duration:** 24 days
Goals of the stay: Participación en campaña Oceanográfica
Provable tasks: Trabajo experimental de campo
- 2 Entity:** Buque investigación oceanográfica Le Suroit
Start-End date: 1995 - 1995 **Duration:** 20 days
Goals of the stay: Participación en campaña Oceanográfica
Provable tasks: Trabajo experimental de campo



- 3** **Entity:** Buque investigación oceanográfica Thethis I y George Petit
Start-End date: 1995 - 1995 **Duration:** 20 days
Goals of the stay: Participación en campaña Oceanográfica
Provable tasks: Trabajo experimental de campo
- 4** **Entity:** Buque investigación oceanográfica Thetis II
Start-End date: 1995 - 1995 **Duration:** 20 days
Goals of the stay: Participación en campaña Oceanográfica
Provable tasks: Trabajo experimental de campo
- 5** **Entity:** Buque investigación oceanográfica Thetis II
Start-End date: 1994 - 1994 **Duration:** 10 days
Goals of the stay: Participación en campaña Oceanográfica
Provable tasks: Trabajo experimental de campo

Obtained grants and scholarships

- 1** **Name of the grant:** Acciones de Formación de personal investigador. Ayudas para el intercambio de personal investigador entre industrias y centros públicos de investigación
City awarding entity:
Aims: Post-doctoral
Awarding entity: Ministerio de Educación y Cultura **Type of entity:** Ministerio
Amount of the grant: 2.040.000 €
Conferral date: 1997 **Duration:** 1 year
End date: 1998
Entity where activity was carried out: Faes Farma, S.A.
- 2** **Name of the grant:** Beca Predoctoral para la Formación Investigadores
City awarding entity:
Aims: Pre-doctoral
Awarding entity: Gobierno Vasco **Type of entity:** -
Amount of the grant: 4.080.000 €
Conferral date: 01/10/1988 **Duration:** 4 years
End date: 30/09/1992
Entity where activity was carried out: Universidad del País Vasco
Faculty, institute or centre: Facultad de Ciencia y Tecnología
- 3** **Name of the grant:** Beca Elcano perfeccionamiento idioma
City awarding entity:
Aims: Perfeccionamiento inglés
Awarding entity: Programa Elcano.Universidad del País Vasco. The British Council
Amount of the grant: 50.000 €
Conferral date: 1990 **Duration:** 15 days
End date: 1990
Entity where activity was carried out: ELF The Edinburgh Language Foundation



Scientific societies and professional associations

- 1 Name of the society:** Grupo especializado en Microbiología del Medio Acuático
Start date: 1999
- 2 Name of the society:** Sociedad Española de Microbiología
Start date: 1999

Prizes, mentions and distinctions

- 1 Description:** Premio a la mejor comunicación en la especialidad de Ecología Microbiana del Congreso Nacional SEM Microbiología del Medio Acuático,
Awarding entity: Sociedad Española de Microbiología y Grupo de Microbiología del Medio Acuático
City awarding entity: Elche
Conferral date: 2014
Type of entity: Associations and Groups
- 2 Description:** Diploma de Excelencia en actividad docente (Docentiaz)
Awarding entity: Universidad del País Vasco
Conferral date: 2012
Type of entity: University
- 3 Description:** Premio Accésit al mejor trabajo de la sesión “Ecología y Fisiología Microbiana” de la VIII Reunión de Microbiología del Medio Acuático, Vigo 2010
Awarding entity: Sociedad Española de Microbiología y Grupo de Microbiología del Medio Acuático
Conferral date: 2010
Type of entity: Associations and Groups
- 4 Description:** Premio Extraordinario de Doctorado
Awarding entity: Universidad del País Vasco
Conferral date: 1998
Type of entity: University

Other distinctions (professional or business career)

Description: Técnica superior en Microbiología
Awarding entity: Faes Farma, S.A.
Conferral date: 1998
Type of entity: Business



Periods of research activity

Nº of recognized periods: 3

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

Date of recognition: 2015

Obtained accreditations/recognitions

- 1** **Description:** Complementos Retributivos Adicionales : nivel B3
Accrediting entity: Consejo Social de la Universidad del País Vasco **Type of entity:** University
Date of recognition: 2016
- 2** **Description:** Quinquenios
Accrediting entity: Universidad del País Vasco **Type of entity:** University
Nº of recognized periods: 3
Date of reception: 2012 **Date of recognition:** 2012
- 3** **Description:** Evaluación Excelente en actividad docente (Programa Docentiaz)
Accrediting entity: Universidad del País Vasco **Type of entity:** University
Date of recognition: 2011
- 4** **Description:** Habilitación Nacional para Profesor Titular de Universidad
Accrediting entity: Consejo de coordinación Universitaria **Type of entity:** State agency
Date of recognition: 2007
- 5** **Description:** Acreditación para profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** -
Date of recognition: 2003