

Curriculum vitae

Ethel Eljarrat Esebag

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1. PERSONAL INFORMATION.

Surnames: Eljarrat Esebag

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2. ACADEMIC TRAINING.

Bachelor's degree	Center	Date
Chemical Sciences	University of Barcelona	1992
Doctorate	Center	Date
Chemical Sciences	University of Barcelona	1999

3. CURRENT PROFESSIONAL STATUS.

Category: Titular Scientist (*Taking of Possession: 20 June, 2008*)

Organization: CSIC

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4. PUBLICATIONS

4.1. ORIGINAL RESEARCH PAPERS, PUBLISHED IN SCIENTIFIC JOURNALS INCLUDED IN THE SCI.

1. J.Casanovas, R.Muro, E.Eljarrat, J.Caixach and J.Rivera, **PCDF and PCDD levels in different types of environmental samples in Spain.** *Fresenius J. Anal. Chem.*, **1994**, 348, 167-170.
(Impact Index = **0.975**; Cited **12** times)
2. E.Eljarrat, J.Casanovas, R.Muro, X.Huguet, J.Caixach and J.Rivera, **Determination of chlorinated dioxins and furans by high resolution gas chromatography coupled to mass spectrometry: comparative study of LRMS and HRMS.** *Química Analítica*, **1995**, 14, 89-95.
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3. I.Espadaler, M.C.Sistach, M.Cortina, E. Eljarrat, R. Alcaraz, J. Cabañas and J. Rivera, **Organic and inorganic components of manuscript inks.** *An. Quím.*, **1995**, 91, 359-364.
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4. B.Jimenez, E.Eljarrat, L.M.Hernández, J.Rivera and M.J.González, **Polychlorinated dibenzo-*p*-dioxins and dibenzofurans in soils near a clinical waste incinerator in Madrid, Spain.**

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5. B.Jimenez, L.M.Hernández, E.Eljarrat, J.Rivera and M.J.González, **Estimated intake of PCDDs, PCDFs and co-planar PCBs in individuals from Madrid (Spain) eating an average diet.** *Chemosphere*, 1996, 33, 1465-1474.
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(Impact Index = **1.145**; Cited **16** times)
8. L.Ramos, E.Eljarrat, L.M. Hernández, L.Alonso, J. Rivera and M.J. González. **Levels of PDDs and PCDFs in farm cow's milk located near potential contaminant sources in Asturias (Spain). Comparison with levels found in control, rural farms and commercial parteurized cow's milks.** *Chemosphere*, 1997, 35, 2167-2179.
[doi:SO045-6535\(97\)00295-6](https://doi.org/10.1016/S0045-6535(97)00295-6)
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9. I.Espadaler, E.Eljarrat, J. Caixach, J. Rivera, I. Martí and F. Ventura. **Assessment of polychlorinated naphthalenes in aquifer samples for drinking water purposes.** *Rapid Communication in Mass Spectrometry*, 1997, 11, 410-414.
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12. E.Eljarrat, J.Caixach and J.Rivera. **Microwave vs. Soxhlet for the extraction of PCDDs and PCDFs from sewage sludge samples.** *Chemosphere*, 1998, 36, 2359-2366.
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33. E. Eljarrat, S. Lacorte, D. Barceló. **Optimization of congener-specific analysis of 40 polybrominated diphenyl ethers by gas chromatography/mass spectrometry.** *Journal of Mass Spectrometry*, **2002**, 37, 76-84.
[DOI: 10.1002/jms.262](https://doi.org/10.1002/jms.262)
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Index H of Hirsch = 50

Total number of Citations = 7687

4.2. SCIENTIFIC EDITORIAL ACTIVITY

1. Book **EDITOR: Brominated Flame Retardants (BFRs)**. (E.Eljarrat, D.Barceló, eds.), series The Handbook of Environmental Chemistry, Volume 16, Springer-Verlag Berlin Heidelberg 2011.
(Since its publication in April 2011 until December 2017, there have been a total of **14,143** downloads in SpringerLink, the online platform. This means that it is one of the eBooks (Springer e-book collection) most downloaded in the years 2012, 2013, 2014 and 2015)
2. Book **EDITOR: Emerging Organic Contaminants in Sludges. Analysis, fate and treatment with fungi** (T.Vicent, G.Caminal, E.Eljarrat, D.Barceló eds.), series The Handbook of Environmental Chemistry, Volume 24, Springer-Verlag Berlin Heidelberg, 2013.
(Since its publication in February 2013 to December 2017, there have been a total of **8,497** downloads in SpringerLink, the online platform. It is one of the eBooks (Springer e-books collection) most downloaded in 2013 and 2014)

4.4. BOOKS, MONOGRAPHS AND COLLECTIVE VOLUMES.

1. I.Espadaler, E.Eljarrat, M.Cortina, A.Cortés, M.Ordeig, J.Rivera, **Aplicación de HRGC/HRMS y HPLC/F al análisis de contaminantes orgánicos en lodos de depuradora de aguas residuales** (pp 135-160), edited by: *Residus i medi ambient*, Universitat Politècnica de Catalunya, 1995.
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- CSIC **Press Release: Detectan elevados niveles de retardantes de llama en peces de río**, 9 October 2017.
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5. PROJECTS AND PROGRAMS, CONTRACTS OR AGREEMENTS.

5.1. RESEARCH PROJECTS as COORDINATOR

1. FINANCING ENTITY: Fundación BBVA

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

Project Coordinator: Dr. E. Eljarrat

TITLE: Evaluación del impacto ambiental de los retardantes de llama bromados en ecosistemas acuáticos de América Latina (BROMACUA).

DURATION FROM: July 2009

UNTIL: June 2012

PROJECT BUDGET: 199.300 euros

5.2. RESEARCH PROJECTS and COLLABORATION AGREEMENTS as PRINCIPAL INVESTIGATOR

1. FINANCING ENTITY: Ministerio de Ciencia e Innovación

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Desarrollo de métodos de identificación y evaluación de la fracción biodisponible para nuevas familias de contaminantes organohalogenados (Ref. 200880I096).

DURATION FROM: October 2008

UNTIL: December 2009

PROJECT BUDGET: 30.000 euros

2. FINANCING ENTITY: Ministerio de Medio Ambiente, y Medio Rural y Marino.

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación del impacto sobre la fauna del Parque Nacional de Doñana asociado al uso de nuevos contaminantes retardantes de llama (IMPAR) (Ref. 106/2010).

DURATION FROM: December 2010

UNTIL: December 2013

PROJECT BUDGET: 85.675 euros

3. FINANCING ENTITY: Universidad del Valle, Cali, Colombia

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación de riesgo por bifenilos policlorados y retardantes de llama en la salud de las poblaciones aledañas al río Cauca.

DURATION FROM: July 2012

UNTIL: March 2013

PROJECT BUDGET: 6.000 euros

4. FINANCING ENTITY: Loro Parque Fundación

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Estudio de los contaminantes retardantes de llama en la red trófica del Golfo de Cádiz: Implicaciones para la conservación (FLAME).

DURATION FROM: December 2014

UNTIL: November 2015

PROJECT BUDGET: 13.600 euros

5. FINANCING ENTITY: Universidad de Concepción, Chile

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación y análisis de productos antiparasitarios en el ambiente marino.

DURATION FROM: July 2015

UNTIL: July 2016

PROJECT BUDGET: 6.000 euros

6. FINANCING ENTITY: Universidad de Concepción, Chile

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación y análisis de productos antiparasitarios en el ambiente marino.

DURATION FROM: October 2015

UNTIL: October 2016

PROJECT BUDGET: 9.600 euros

7. FINANCING ENTITY: Laboratoire d'Océanographie Microbienne – CNRS, Francia

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación y análisis de piretroides en el ambiente marino.

DURATION FROM: November 2015

UNTIL: July 2017

PROJECT BUDGET: 2.000 euros

8. FINANCING ENTITY: CONICET - CSIC

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Evaluación de insecticidas piretroides en sistemas estuarinos de la región pampeana bonaerense.

DURATION FROM: January 2016

UNTIL: December 2017

9. FINANCING ENTITY: Institut National de Recherche et de Sécurité – INRS, Francia

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat

TITLE: Análisis enantiomérico de insecticidas piretroides.

DURATION FROM: June 2016

UNTIL: July 2016

PROJECT BUDGET: 900 euros

10. FINANCING ENTITY: European Commission
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat WP Leader: Dr. E. Eljarrat (WP2)
TITLE: Synergising International research Studies into the environmental Fate and Behaviour of Toxic Organic Chemicals in the Waste Stream (INTERWASTE) (H2020-MSCA-RISE/0253).
DURATION FROM: January 2017 UNTIL: December 2020
PROJECT BUDGET: 58.500 euros

11. FINANCING ENTITY: Ministerio de Economía y Competitividad
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat
TITLE: Desarrollo de metodologías analíticas para la determinación de plaguicidas en aguas y suelos y su aplicación en la evaluación de nuevos procesos de bioremediación ambiental (BECAS) (CTM2016-75587-C2-2-R).
DURATION FROM: 30 December 2016 UNTIL: 29 December 2019
PROJECT BUDGET: 121.000 euros

12. FINANCING ENTITY: European Commission
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat Member of the Intellectual Property Advisory Committee
TITLE: Nutritious, safe and sustainable seafood for consumers of tomorrow (SEAFOODTOMORROW) (H2020-Project ID: 773400).
DURATION FROM: November 2017 UNTIL: October 2020
PROJECT BUDGET: 145.037,5 euros

13. FINANCING ENTITY: Bibiana Jara Vergara - CONICYT
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat
TITLE: Análisis de insecticidas piretroides en el marco del Contrato CONICYT 21150103.
DURATION FROM: July 2018 UNTIL: December 2018
PROJECT BUDGET: 2.000 euros

14. FINANCING ENTITY: Facultad de Biología, Universidad de Barcelona
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. E.Eljarrat
TÍTULO: Análisis de composición de microplásticos en peces marinos, en el marco del proyecto MEDSEALITTER – Ref. 1134.
DURATION FROM: Noviembre 2018 UNTIL: Agosto 2019
PROJECT BUDGET: 6.000 euros

5.3. RESEARCH PROJECTS and COLLABORATION AGREEMENTS as PROJECT MANAGER

1. FINANCING ENTITY: Commission of the European Communities
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló. Project manager: Dr. E. Eljarrat
TITLE: Fate and toxicity of allelochemicals (natural plant toxins) in relation to environment and consumer (FATEALLCHEM) (QLK5-CT-2001-01967).
DURATION FROM: September 2001 UNTIL: August 2004
PROJECT BUDGET: 218.786 €

2. FINANCING ENTITY: Confederación Hidrográfica del Ebro

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló Project manager: Dr. E. Eljarrat
TITLE: Actualización de la situación piscícola en el río Cinca a su paso por Monzón.
DURATION FROM: October 2002 UNTIL: October 2003
PROJECT BUDGET: 24.119 €

3. FINANCING ENTITY: Commission of the European Communities
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló. Project manager: Dr. E. Eljarrat
TITLE: Standardised aquatic monitoring of priority pollutants by passive sampling (STAMPS) (EVK1-CT2002-00119)
DURATION FROM: January 2003 UNTIL: March 2006
PROJECT BUDGET: 175.362 €

4. FINANCING ENTITY: Commission of the European Communities (6 Framework Programme)
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló. Project manager: Dr. E. Eljarrat
TITLE: Horizontal standards on organic micro-pollutants for implementation of EU Directives on sludge, soil and treated bio-waste (HORIZONTAL-ORG) (SSPI-CT-2003 502411)
DURATION FROM: October 2003 UNTIL: March 2007
PROJECT BUDGET: 146.510 €

5. FINANCING ENTITY: Commission of the European Communities (6 Framework Programme)
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló Project manager: Dr. E. Eljarrat
TITLE: Source control of priority substances in Europe (SOCOPSE) (GOCE 037038)
DURATION FROM: September 2006 UNTIL: August 2009
PROJECT BUDGET: 139.275 €

6. FINANCING ENTITY: Autoridad Portuaria de Sevilla
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló Project manager: Dr. E. Eljarrat
TITLE: Estudio para diagnosticar y pronosticar las consecuencias de las acciones humanas en el estuario del Guadalquivir
DURATION FROM: 2007 UNTIL: 2009

7. FINANCING ENTITY: Agència Catalana de l' Aigua – Universitat Rovira i Virgili
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló Project manager: Dr. E. Eljarrat
TITLE: Aplicació de noves tècniques de gestió i utilització de captadors passius per a la determinació de microcontaminants a l'aigua.
DURATION FROM: 2008 UNTIL: 2009

8. FINANCING ENTITY: Ministerio de Medio Ambiente y Medio Rural y Marino
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló Project manager: Dr. E. Eljarrat
TITLE: Presencia de contaminantes orgánicos prioritarios y emergentes en lodos de EDAR y su biodegradación por hongos (Ref. 010/PC08/3-04.1).
DURATION FROM: October 2008 UNTIL: December 2010
PROJECT BUDGET: 369.334 euros

5.4. Participation in RESEARCH PROJECTS and COLLABORATION AGREEMENTS

1. FINANCING ENTITY: Ministerio de Sanidad y Consumo
EXECUTION CENTER: Centro de Investigación y Desarrollo e Instituto de Química Orgánica, CSIC
PRINCIPAL INVESTIGATOR: Dr. M.J.González y Dr. J.Rivera
TITLE: Determinación de PCDDs y PCDFs en productos lácteos españoles.
DURATION FROM: May 1992 UNTIL: May 1993
PROJECT BUDGET: 20.000.000 ptas

2. FINANCING ENTITY: Dirección General de Política Ambiental del MOPTMA
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Determinación de dibenzo-para-dioxinas policloradas y dibenzo furanos policlorados en diferentes tipos de muestras.
DURATION FROM: June 1993 UNTIL: June 1994
FROM: October 1994 UNTIL: October 1995
FROM: September 1997 UNTIL: September 1998

3. FINANCING ENTITY: Commission of the European Communities
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Desarrollo de una metodología europea para la medida de emisiones de PCDFs/PCDDs en chimeneas. Desarrollo de la Directiva de la Unión Europea. (CEN/TC 264/WG 1)
DURATION FROM: October 1993 UNTIL: November 1994

4. FINANCING ENTITY: Ministerio de Sanidad y Consumo
EXECUTION CENTER: Centro de Investigación y Desarrollo e Instituto de Química Orgánica, CSIC
PRINCIPAL INVESTIGATOR: Dr. M.J.González y Dr. J.Rivera
TITLE: Determinación de PCDDs, PCDFs y PCBs en pescados, mariscos y carnes consumidos en la CAM.
DURATION FROM: November 1993 UNTIL: December 1994
PROJECT BUDGET: 20.000.000 ptas

5. FINANCING ENTITY: CICYT
EXECUTION CENTER: Instituto de Productos Lácteos (Asturias), Instituto de Química Orgánica y Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. L.Alonso
TITLE: Estudio físico-químico sobre la calidad de la leche del Principado de Asturias.
DURATION FROM: January 1995 UNTIL: December 1995

6. FINANCING ENTITY: Universidad Politécnica de Catalunya
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Estudio de la calidad ambiental de dioxinas y furanos en relación con la incineradora de Son Reus.
DURATION FROM: June 1995 UNTIL: December 1995

7. FINANCING ENTITY: Fundación AGBAR
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Contaminantes orgánicos en aguas del río Llobregat, en aguas subterráneas, en la planta de Sant Joan Despí y aguas de red de distribución.
DURATION FROM: January 1996 UNTIL: December 1996
PROJECT BUDGET: 12.000.000 ptas

8. FINANCING ENTITY: Centro de Estudios y Experimentación de Obras Públicas.
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Estudios e investigación de apoyo en materia de contaminación ambiental por dioxinas y furanos.
DURATION FROM: January 1996 UNTIL: January 1997

9. FINANCING ENTITY: Ministerio de Sanidad y Consumo
EXECUTION CENTER: Centro de Investigación y Desarrollo e Instituto de Química Orgánica, CSIC
PRINCIPAL INVESTIGATOR: Dr. M.J.González y Dr. J.Rivera
TITLE: Determinación de PCDDs, PCDFs y PCBs en diversos alimentos consumidos en la CAM.
DURATION FROM: November 1995 UNTIL: December 1996
FROM: October 1998 UNTIL: December 1998

10. FINANCING ENTITY: Commission of the European Communities
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Preparation and certification of a sewage sludge from waste water treatment plants for measurements of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs). (SMT4-CT96-2091)
DURATION FROM: October 1996 UNTIL: October 1999

11. FINANCING ENTITY: CICYT
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Desarrollo de un procedimiento para la destrucción de dioxinas y furanos. Aplicación de cenizas de incineradora y fangos de depuración de aguas. (AMB97-0716)
DURATION FROM: October 1997 UNTIL: October 2000

12. FINANCING ENTITY: Fundación Universidad-Empresa de las Islas Baleares.
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Estudios de dioxinas en muestras ambientales.
DURATION FROM: February 1999 UNTIL: January 2000

13. FINANCING ENTITY: Agència Catalana de l'Aigua
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Caixach
TITLE: Programa de vigilancia de los contaminantes orgánicos. Medidas analíticas de los contaminantes en los sedimentos litorales y en los organismos marinos.
DURATION FROM: January 2000 UNTIL: December 2000

14. FINANCING ENTITY: Departament de Sanitat i Seguretat Social (Generalitat de Catalunya)
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. J.Rivera
TITLE: Programa de vigilancia y evaluación de la seguridad de los alimentos en Catalunya.
DURATION FROM: October 2000 UNTIL: February 2001

15. FINANCING ENTITY: Ministerio de Educación y Ciencia (MEC)
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Trazabilidad de nuevos contaminantes orgánicos en aguas y lodos en plantas depuradoras y su impacto ambiental en zonas fluviales, costeras y portuarias (TRACOAL) (PPQ 2001-1805-CO3).
DURATION FROM: December 2001 UNTIL: November 2004

PROJECT BUDGET: 69.116 €

16. FINANCING ENTITY: Commission of the European Communities

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Integrated Soil and Water Protection (SOWA) (EVK1-CT2002-80022).

DURATION FROM: January 2003

UNTIL: December 2005

PROJECT BUDGET: 19.563 €

17. FINANCING ENTITY: Commission of the European Communities (6 Framework Programme)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Integrated modelling of the river-sediment-soil-groundwater system; advanced tools for the management of catchment areas and river basins in the context of global change (AQUATERRA) (PL 505428)

DURATION FROM: June 2004

UNTIL: May 2009

PROJECT BUDGET: 650.000 €

18. FINANCING ENTITY: CICYT

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Estudio integrado de eliminación, vigilancia avanzada e impacto ambiental de contaminantes emergentes en la depuración de aguas residuales urbanas e industriales (EVITA) (CTM2004-06265-C03-01/TECNO).

DURATION FROM: December 2004

UNTIL: November 2007

PROJECT BUDGET: 75.800 €

19. FINANCING ENTITY: Commission of the European Communities (6 Framework Programme)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Models for assessing and forecasting the impact of environmental key pollutants on marine and freshwater ecosystems and biodiversity (MODEL KEY) (GOCE 511237)

DURATION FROM: February 2005

UNTIL: January 2010

PROJECT BUDGET: 382.036 €

20. FINANCING ENTITY: Commission of the European Communities (6 Framework Programme)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Network of reference laboratories for monitoring of emerging environmental pollutants (NORMAN) (GOCE 018486)

DURATION FROM: September 2005

UNTIL: August 2008

PROJECT BUDGET: 126.360 €

21. FINANCING ENTITY: CICYT

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Estudio de la presencia y destino de contaminantes emergentes en aguas subterráneas y superficiales y desarrollo de herramientas analíticas para su control medioambiental (CEMAGUA) (CGL2007-64551/HID).

DURATION FROM: October 2007

UNTIL: September 2012

PROJECT BUDGET: 435.600 €

22. FINANCING ENTITY: Sociedad General de Aguas de Barcelona - MEC
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Desarrollos tecnológicos hacia el ciclo urbano del agua autosostenible (SOSTAGUA) – Proyecto CENIT.
DURATION FROM: January 2007 UNTIL: December 2010
PROJECT BUDGET: 300.000 €

23. FINANCING ENTITY: Commission of the European Communities (7 Framework Programme)
EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Contaminants in food and feed: inexpensive detection for control of exposure (CONFIDENCE) (Contract No. 211326).
DURATION FROM: May 2008 UNTIL: April 2012
PROJECT BUDGET: 289.313 €

24. FINANCING ENTITY: Generalitat de Catalunya-Departament d'Innovació, Universitats i Empresa (DIUE)
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Suport als grups de recerca (SGR-DGR (2009-SGR00965)
DURATION FROM: 2009 UNTIL: 2013
PROJECT BUDGET: 46.800 euros

25. FINANCING ENTITY: Spanish Ministry of Science and Innovation
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Evaluación y predicción de los efectos del cambio global en la cantidad y la calidad del agua en ríos ibéricos (SCARCE) (Consolider-Ingenio 2010 CSD2009-00065).
DURATION FROM: December 2009 UNTIL: December 2014
PROJECT BUDGET: 4.715.722 euros

26. FINANCING ENTITY: Ministerio de Economía y Competitividad
EXECUTION CENTER: IDAEA, CSIC
PRINCIPAL INVESTIGATOR: Dr. D.Barceló
TITLE: Nanomateriales orgánicos en el medio ambiente: caracterización, análisis, efecto troyano y riesgos (NANOTROJAN).
DURATION FROM: 2012 UNTIL: 2014
PROJECT BUDGET: 274.670 euros

27. FINANCING ENTITY: Ministerio de Medio Ambiente, y Medio Rural y Marino.
EXECUTION CENTER: Instituto de Investigación en Recursos Cinegeticos (IREC), CSIC
PRINCIPAL INVESTIGATOR: Dr. R. Mateo
TITLE: Evaluación del impacto ambiental de la contaminación química en la avifauna de las Tablas de Daimiel (Ref. 755/2012).
DURATION FROM: December 2012 UNTIL: December 2015
PROJECT BUDGET: 85.042,50 euros

28. FINANCING ENTITY: Commission of the European Communities (7 Framework Programme)
EXECUTION CENTER: Institut Català de Recerca de l'Aigua (ICRA)
PRINCIPAL INVESTIGATOR: Dr. Damià Barceló

TITLE: Priority environmental contaminants in seafood: safety assessment, impact and public perception (ECSafeSeaFOOD).

DURATION FROM: February 2013

UNTIL: January 2017

PROJECT BUDGET: 274.067 euros

29. FINANCING ENTITY: MINECO/MCTI/CAPES/CNPq/FAPs, Programa Ciência sem Fronteiras (Brazil)

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. Damià Barceló

TITLE: Qualidade da água e de alimentos: estudos analíticos avançados para investigação de resíduos de fármacos, agrotóxicos bem como seus respectivos metabólitos e produtos de degradação em amostras ambientais e em alimentos (Nº 61/2011).

DURATION FROM: 2013

UNTIL: 2016

PROJECT BUDGET: 150.000 euros

30. FINANCING ENTITY: Commission of the European Communities (7 Framework Programme)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Real time monitoring of SEA contaminants by an autonomous Lab-on-a-chip biosensor (SEA-on-a-CHIP).

DURATION FROM: December 2013

UNTIL: May 2017

PROJECT BUDGET: 594.670 euros

31. FINANCING ENTITY: Generalitat de Catalunya-Departament d'Innovació, Universitats i Empresa (DIUE)

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. M.López de Alda

TITLE: Suport als grups de recerca (2014 SGR 418)

DURATION FROM: 2014

UNTIL: 2016

PROJECT BUDGET: 27.000 euros

32. FINANCING ENTITY: Commission of the European Communities (7 Framework Programme)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. D.Barceló

TITLE: Managing the effects of multiple stressors on aquatic ecosystems under water scarcity (GLOBAQUA).

DURATION FROM: Febrero 2014

UNTIL: Enero 2019

PROJECT BUDGET: 7.590.588 euros

33. FINANCING ENTITY: Agència Catalana de l'Aigua

EXECUTION CENTER: CSIC-IDAEA, ICM-CSIC e ICRA

PRINCIPAL INVESTIGATOR: Dr. D. Barceló

TITLE: Projecte Directiva Marc – Adquisició de coneixement sobre les obligacions derivades de la Directiva Marc de l'Aigua.

DURATION FROM: May 2017

UNTIL: April 2018

PROJECT BUDGET: 333.626 euros (85.000 euros al CSIC)

34. FINANCING ENTITY: Generalitat de Catalunya-Departament d'Innovació, Universitats i Empresa (DIUE)

EXECUTION CENTER: IDAEA, CSIC

PRINCIPAL INVESTIGATOR: Dr. M.López de Alda

TITLE: Suport als grups de recerca (2017 SGR 1404)

DURATION FROM: 2017
PROJECT BUDGET: 44.480 euros

UNTIL: 2019

5.5. CERTIFICATION AND INTERLABORATORY EXERCISES

1. ORGANIZER: SM&T (Standards, Measurements and Testing)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Certification of PCDD and PCDF in fly ash (CRM 490). (MAT1-CT93017)

DURATION: 1994

2. ORGANIZER: Instituto de Química Orgánica de la Universidad de Tübingen

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Proficiency Testing of Dioxin Laboratories; determination of PCDD/PCDF in Sewage Sludge

DURATION: 1994

3. ORGANIZER: SM&T (Standards, Measurements and Testing)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Certification of milkpowder reference material for the dioxin content (CRM 607). (MAT1-CT93044)

DURATION: 1994

4. ORGANIZER: SM&T (Standards, Measurements and Testing)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Certification of two soil candidate reference materials (CRM 529 and 530) for their content of PCDD and PCDF. (MAT1-CT93045)

DURATION: 1995

5. ORGANIZER: WHO, European Center of Environment and Health, Bilthoven, Holanda

EXECUTION CENTER: Centro de Investigación y Desarrollo e Instituto de Química Orgánica, CSIC

PRINCIPAL INVESTIGATOR: Dr. M.J.González

TITLE: Interlaboratory quality assessment of levels of PCBs, PCDDs and PCDFs in human milk and blood plasma. Fourth round of WHO-coordinated study.

DURATION: 1996

6. ORGANIZER: Instituto de Química Medioambiental de Umea

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Third round of the International Intercalibration on a sewage sludge / sediment samples

DURATION: 1997

7. ORGANIZER: Instituto de Química Medioambiental de Umea

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: 4th round of the International Intercalibration on a soil / sediment / sludge samples

DURATION: 1999

8. ORGANIZER: SM&T (Standards, Measurements and Testing)

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Preparation and certification of solutions and fly ash for measurements of PCDDs and PCDFs in emissions at 0.1 ng/Nm³ I-TEQ (CRM 615). (SMT4-CT95-1604)

DURATION: 2000

9. ORGANIZER: European Commission, DG Health and Consumer Protection, Ispra, Italia

EXECUTION CENTER: Centro de Investigación y Desarrollo, CSIC

PRINCIPAL INVESTIGATOR: Dr. J.Rivera

TITLE: Intercomparison study for the determination of polychlorinated biphenyls in animal feed.

DURATION: 2001

6. TEACHING ACTIVITY.

Member of the Academic Committee of the PhD Program “*Química Analítica i Medi Ambient*”, 2017-2018.

Participation in 50 courses organized by different Universities and Institutions.

7. DIRECTED DOCTORAL THESES.

1. TITLE: Análisis de retardantes de llama halogenados emergentes y su impacto en el medio ambiente y en humanos.

PHD STUDENT: Paula Guerra Gómez

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: April 2011.

QUALIFICATION: Cum Laude

2. TITLE: Contaminantes orgánicos emergentes em golfinhos Franciscana (*Pontoporia blainvillei*) da costa brasileira.

PHD STUDENT: Mariana Batha Alonso

PLACE OF PRESENTATION: Centro de Ciências da Saúde, Instituto de Biofísica Carlos Chagas Filho, Universidade Federal do Rio de Janeiro.

YEAR: October 2012.

QUALIFICATION: 10

(*Stays of the PhD Student in the IDAEA-CSIC since November 2009 until February 2010 and since February 2011 until January 2012*).

3. TITLE: Metodologías analíticas para el estudio de compuestos aleloquímicos en cultivos de trigo.

PHD STUDENT: Marta Villagrasa Giménez

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: December 2013.

QUALIFICATION: Cum Laude

4. TITLE: Evaluación del impacto ambiental asociado al uso de nuevos retardantes de llama.

PHD STUDENT: Enrique Barón González

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: November 2015.

QUALIFICATION: Cum Laude

5. TITLE: Análisis, biodisponibilidad y vigilancia de contaminantes orgánicos hidrofóbicos en el medio acuático.

PHD STUDENT: Agustina de la Cal Rodríguez

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: November 2015.

QUALIFICATION: Cum Laude

6. TITLE: Impact assessment of flame retardants in European river basins.

PHD STUDENT: Monica Giulivo

PLACE OF PRESENTATION: Università Cattolica del Sacro Cuore, Facoltà di Scienze agrarie, alimentari e ambientali, Piacenza (Italy).

YEAR: May 2017.

QUALIFICATION: Top rating (Excellent)

(Stay of the PhD Student at the IDAEA-CSIC since October 2015 until July 2016).

7. TITLE: Estudio de los insecticidas piretroides en muestras biológicas y humanas.

PHD STUDENT: Cayo Corcellas Carramiñana

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: September 2017.

QUALIFICATION: Cum Laude

8. TITLE: Contaminantes emergentes en medio marino: Estudio en biota y en consumo humano.

PHD STUDENT: Òscar Aznar Alemany

PLACE OF PRESENTATION: Universidad Politècnica de Barcelona.

YEAR: November 2017.

QUALIFICATION: Cum Laude

9. TITLE: Contribution à l'analyse des résidus des polluants organiques dans divers milieux.

PHD STUDENT: Sabrine Mekni

PLACE OF PRESENTATION: Faculté des Sciences de Bizerte, Túnez.

YEAR: in progress.

(Stay of the PhD Student at IDAEA-CSIC since June until July 2015, from May until August 2016 and from May until November 2017).

10. TITLE: Les Unionidés: bioécologie, phylogénie, approche de conservation et évaluation de la bioaccumulation par les métaux traces et les pesticides.

PHD STUDENT: Sayef Laamiri

PLACE OF PRESENTATION: Faculté des Sciences de Bizerte, Túnez.

YEAR: in progress.

(Stay of the PhD Student at the IDAEA-CSIC since October until December 2017 and from September until December 2018).

11. TITLE: Impacto de las basuras de plástico en los organismos marinos: evaluación de la bioacumulación de plastificantes organofosforados.

PHD STUDENT: Berta Sala Solà

PLACE OF PRESENTATION: Universidad de Barcelona, Facultad de Ciencias Químicas, Departamento de Química Analítica.

YEAR: in progress.

8. CONGRESSES.

8.1. PARTICIPATION IN ORGANIZATIONAL COMMITTEES.

- Member of the Organizing Committee of the *First National Meeting on Dioxins, Furans and Related Persistent Organic Compounds*, held in Madrid, 18-19 October 2001.
- Member of the Organizing Committee of the Workshop "*Analysis, toxicity and biodegradation of organic pollutants in groundwater from contaminated land, landfills and sediments*", held in Barcelona, November 8-10, 2001, funded by the ESF (European Science Foundation).
- Chairman of the session "*Brominated Compounds - Fate and Transport*" at the *31st International Symposium on Halogenated Persistent Organic Pollutants (POPs) - DIOXIN 2011*, held in Brussels (Belgium), 21-25 August 2011.
- Chairman of the session "*Alternative Flame Retardants: Environmental exposure, fate and trends*" at the *SETAC Europe 23rd Annual Meeting*, held in Glasgow (Scotland), 12-16 May 2013.
- Organizer of the Workshop *Alternative Flame Retardants: Analysis, Occurrence and Exposure*, held in Barcelona, June 25, 2013, within the framework of the *International Conference on Chemistry and the Environment ICCE 2013*.
- Member of the Organizing Committee of the *34th International Symposium on Halogenated Persistent Organic Pollutants DIOXIN'2014*, held in Madrid, August 31 - September 5, 2014.
- Chairman of the session "*Pseudo-POPs: Non persistent but persistently in the environment*" in the *34th International Symposium on Halogenated Persistent Organic Pollutants - DIOXIN 2014*, held in Madrid, August 31 - September 5, 2014.
- Chairman of the session "*POPs and Pseudo-POPs: Environmental occurrence and exposure*" in the *SETAC Europe 25th Annual Meeting*, held in Barcelona, 3 - 7 May 2015.
- Member of the Scientific Committee of the *VIII Meeting of the Spanish Society of Mass Spectrometry (SEEM) and V National Meeting of Dioxins, Furans and other persistent organic compounds*, held in Barcelona, 15-16 June 2017.
- Chairman in the *V National Meeting of Dioxins, Furans and other persistent organic compounds*, held in Barcelona, 15-16 June 2017.

8.2. PLENARY CONFERENCES.

1. TITLE: Classical versus Emerging Flame Retardants.

AUTHORS: E. Eljarrat

ACT: 8th Network Conference on Persistent Organic Pollutants.

PLACE OF PRESENTATION: Birmingham, UK.

YEAR: 2014.

Participation as **EXPERT** in the topic "**Pollution by plastics**" in the debate table of the **Science in Parliament event**, Congress of Deputies, 6-7 November 2018, Madrid.

46 Invited Conferences; 68 Oral Presentations in Congresses; 125 Poster Presentations in Congresses.

9. AWARDS.

- 1st MS Award (Mass Spectrometry) awarded by the Grupo Espectroquímico de las Reales Sociedades Españolas de Química y Física, sponsored by Kontron Instruments-Finnigan Matt, within the framework of the 7^{as} Jornadas de Análisis Instrumental held in Madrid (April 1995), for the work entitled "*Caracterización de dioxinas, furanos y PCBs en fangos de depuradora y potabilizadora mediante Espectrometría de Masas de Alta Resolución (HRGC/HRMS)*", endowed with 400.000 ptas.
- Award winning Poster in the framework of the 19th International Symposium on Halogenated Environmental Organic Pollutants and POPs - "DIOXIN'99" held in Venice, Italy (September 1999), for the work entitled "*Levels of 2,3,7,8-substituted PCDD and PCDF in cetaceans from the Mediterranean sea*".
- 1st UNESCO Award: Best Poster Presentation, within the framework of the Thematic Workshop: Bridging Science, Water Management and Practical Experiences in Eutropean River Basins held in Budapest, Hungary (May 2008), for the work entitled "*Source control of priority substances in Europe: Llobregat and Ter rivers case study*".
- Student Bursary Award for DIOXIN 2008 held in Birmingham, UK (August 2008), for the work entitled "*Hexabromocyclododecane in human breast milk: levels and enantiomeric patterns*".
- 3rd prize for the best works of Mass Spectrometry, awarded by the Sociedad Española de Espectrometría de Masas (SEEM), sponsored by Thermo Scientific, within the framework of the 12^{as} Jornadas de Análisis Instrumental held in Barcelona (October 2008), by the work entitled "*Isomeric- and enantiomeric-specific determination of hexabromocyclododecane by LC-QqLIT-MS*", endowed with 1.000 euros.