



Rebeca López Serna

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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.

Some details not covered on the CVN sections

Academic background

Ph.D. Environmental chemistry

2008 – 2013 Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC), Barcelona (Spain)

- Dissertation: “Analysis and fate of pharmaceutical residues in ground, surface and sewage waters”

- PhD program: Analytical chemistry applied to the environment and pollution. **Quality Mention**

- Instrumental analytical techniques: **Online SPE; Online TurboFlow®; HPLC/UHPLC – MS/MS**

- Supervisors: Dr. Damià Barceló – Mira Petrović

- Grade and honorable mentions awarded : **Excellent cum laude; International Mention**

- Funding organization: **FPI grant**, Spanish Ministry of Science and Innovation (**MICINN**)

Visiting researcher

2012 University of Bath (**UK**)

- Topic: Enantiomeric analysis of pharmaceuticals and transformation products in the Guadalquivir River basin (South Spain)

- Instrumental analytical techniques: **Enantiomeric UHPLC – MS/MS**

- Supervisor: Barbara Kasprzyk-Hordern

M.S. Analytical chemistry applied to the environment and pollution; Advanced chemistry

2008 – 2010 University of Barcelona (UB) (Spain)

- Thesis: Pharmaceutical fate determination in tertiary treated wastewater reuse on a Mediterranean river (Llobregat, NE Spain)

- Supervisors: Dr. Damià Barceló – Mira Petrović

- Grade awarded: **Excellent**

Publications in preparation for peer reviewed journals

· Lopez-Serna R, Phu N, Oki LR, Wu L: Slow sand filtration as a successful treatment for the removal of compounds of emerging concern – A pilot scale study. (**In prep**)



Additional info

Training Courses

- Analytical methods by Online SPE-UHPLC-MS/MS. Data processing for target and un-target analysis based on All-in-one and Chemspider libraries and databases – Sciex. 400 hours. Valladolid, 2018
- Statistics applied to chemistry and experimental design – Stata y Statgraphics – Spanish National Research Council (CSIC). 50 hours. 2013



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.

RESEARCH

Selected National and International postdoctoral stays in renowned research centers

- Present: **Doctor assistant professor** at University of Valladolid (UVa)
- 2019-2020: **Senior postdoctoral scholar** at Institute of Sustainable Processes (ISP)
- 2017-2019: Postdoctoral scholar **Juan de la Cierva Incorporación (JdCI)** at University of Valladolid (UVa)
- 2018: Swedish University of Agricultural Sciences (SLU), **Sweden**
- 2015-2017: Fundación General de la universidad de Valladolid (FUNGE)
- 2013-2015: University of California Riverside (UCR), **United States**

Selected International predoctoral stays in renowned research centers

- 2012: University of Bath, **United Kingdom**
- 2004: Wageningen University & Research (WUR), **The Netherlands**

Statistics by Scopus

- **Total citations: 1185**
- **Average (Citations / Year): 118**
- **Average (Citations / Publication): 70**

- Publications in the first decile (D1): 8
- Publications in the first quartile (Q1): 18

- **H index: 13**
- Total publications: 22 (**4 as corresponding author**)
- JCR articles: 18 (**4 as corresponding author**)
- Books: 1 (**as corresponding author**)
- Book chapters: 3



TEACHING

ANECA certifications

- **I3 certification**
- **Doctor contracted professor**
- Doctor assistant professor
- Private university professor

Doctoral Thesis supervised in the last 10 years

- Currently - Nereida Pérez Lemus - Institute of Sustainable Processes (ISP), Spain)

Master's Thesis supervised in the last 10 years

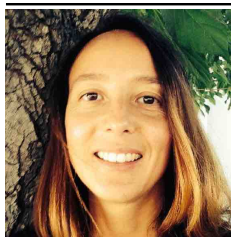
- Currently - Ariadna Pilar Calvo Tejo - Institute of Sustainable Processes (ISP), Spain)
- 2020 - Aida López Manrique - Institute of Sustainable Processes (ISP), Spain)
- 2019 - Manuel Argüeso Mata - Institute of Sustainable Processes (ISP), Spain)
- 2018 - Nereida Pérez Lemus - University of Valladolid (UVa), Spain
- 2016 - David Fernando Marín de Jesús - University of Valladolid (UVa), Spain
- 2016 - Nancy Phu - University of California Riverside (UCR), USA

Bachelor's Thesis supervised in the last 10 years

- Currently - Cristina Portela Monge - Institute of Sustainable Processes (ISP), Spain)
- Currently - Miguel Ángel de la Serna Calleja - Institute of Sustainable Processes (ISP), Spain)
- 2020 – Irene García García - Institute of Sustainable Processes (ISP), Spain
- 2019 – Andrea Bezos Bahillo - Institute of Sustainable Processes (ISP), Spain

Doctor assistant professor

Associate professor



Rebeca López Serna

Surname(s): **López Serna**
Name: **Rebeca**
ORCID: **0000-0003-3927-057X**
ResearcherID: **I-6957-2015**

Current professional situation

Employing entity: University of Valladolid (UVa)

Department: Faculty of Science

Professional category: Doctor assistant professor

Educational Management (Yes/No): Yes

City employing entity: Valladolid, Spain

Start date: 20/10/2020

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 230103 - Chromatographic analysis; 230110 - Mass spectroscopy

Performed tasks: - Teaching B.S. Chemistry - Supervision of B.S, M.S. and PhD students - Research: Contaminants of Emerging Concern in Environmental Matrices

Identify key words: Gas chromatography (fid, ecd, ms, etc); Liquid chromatography (uv, luminiscence, ms, electrochemical, etc); Industrial chemistry

Previous positions and activities

	Employing entity	Professional category	Start date
1	Institute of Sustainable Processes (ISP)	Senior Postdoctoral scholar	05/07/2019
2	University of Valladolid (UVa)	Postdoctoral scholar Juan de la Cierva Incorporación (JdCI)	27/06/2017
3	Swedish University of Agricultural Sciences (SLU) (Sweden)	Visiting researcher	01/06/2018
4	General Foundation of the university of Valladolid (FUNGE)	Postdoctoral scholar	01/11/2015
5	University of California Riverside (UCR) (United States)	Postdoctoral scholar	02/12/2013
6	Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC)	Predocctoral researcher	01/09/2008
7	University of Bath (UK)	Visiting researcher	01/02/2012
8	GlaxoSmithKline (GSK)	Researcher	02/07/2007
9	Biomar Microbial Technologies	Head of laboratory	04/06/2007
10	Embutidos Fermín, S.L.	Quality manager	23/01/2007
11	University of Valladolid (UVa)	Research scientist	16/03/2006
12	Repsol YPF, S.A.	Specialist – R&D	16/03/2005

	Employing entity	Professional category	Start date
13	Agrotechnology and Food Innovations (A&F) – Wageningen University & Research (WUR) (The Netherlands)	Research Scientist - Leonardo da Vinci fellow	04/01/2005
14	Agricultural Technological Institute of Castilla y León (ITACyL)	Chemical-Physical and Instrumental Analyst - Intern	10/11/2003

1 Employing entity: Institute of Sustainable Processes (ISP)

City employing entity: Valladolid, Spain

Professional category: Senior Postdoctoral scholar

Educational Management (Yes/No): Yes

Start-End date: 05/07/2019 - 19/10/2020

Duration: 1 year - 3 months - 15 days

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 230103 - Chromatographic analysis; 230110 - Mass spectroscopy

Performed tasks: Topic: Development of methodologies for the analysis of Contaminants of Emerging Concern (CECs) in environmental matrices such as sewage water, pig slurry, sewage sludge, biomass and added value products, and its application to target and untarget analysis during depuration treatments under investigation - Supervision of B.S, M.S. and doctoral thesis - Instrumental analytical techniques: Online-SPME; GC-MS, Online-SPE; UHPLC-MSMS; UHPLC-HRMS - Supervisor: Pedro A. García-Encina

Identify key words: Gas chromatography (fid, ecd, ms, etc); Liquid chromatography (uv, luminiscence, ms, electrochemical, etc); Industrial chemistry

2 Employing entity: University of Valladolid (UVA)

City employing entity: Valladolid, Spain

Professional category: Postdoctoral scholar Juan de la Cierva Incorporación (JdCI)

Educational Management (Yes/No): Yes

Start-End date: 27/06/2017 - 26/06/2019

Duration: 2 years

Type of contract: Temporary employment contract

Dedication regime: Full time

Primary (UNESCO code): 230103 - Chromatographic analysis; 230110 - Mass spectroscopy

Performed tasks: -? Topic: Development of methodologies for the analysis of Contaminants of Emerging Concern (CECs) in environmental matrices such as sewage water, pig slurry, sewage sludge and biomass and its application to target and untarget analysis during depuration treatments under investigation -? Supervision of B.S, M.S. and doctoral thesis; Supervision of intern students - ? Instrumental analytical techniques: Online-SPME; GC-MS, Online-SPE; UHPLC-MSMS; UHPLC-HRMS -? Supervisor: Raúl Muñoz

Identify key words: Gas chromatography (fid, ecd, ms, etc); Liquid chromatography (uv, luminiscence, ms, electrochemical, etc); Industrial chemistry

3 Employing entity: Swedish University of Agricultural Sciences (SLU) (Sweden)

Department: Organic Environmental Chemistry

City employing entity: Uppsala, Sweden

Professional category: Visiting researcher

Educational Management (Yes/No): No

Start-End date: 01/06/2018 - 31/08/2018

Duration: 3 months

Type of contract: Grant-assisted student (pre or post-doctoral, others)

Dedication regime: Full time

Performed tasks: -? Project: "Target and un-target analysis of veterinary drugs in pig slurry" -? Instrumental analytical techniques: UHPLC – MS/MS, UHPLC – HRMS -? Supervisor: Karin Wiberg

Field of management activity: University

- 4** **Employing entity:** General Foundation of the university of Valladolid (FUNGE) **Type of entity:** Foundation
City employing entity: Valladolid, Spain
Professional category: Postdoctoral scholar **Educational Management (Yes/No):** Yes
Start-End date: 01/11/2015 - 19/02/2017 **Duration:** 1 year - 3 months - 19 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 230103 - Chromatographic analysis; 230110 - Mass spectroscopy
Performed tasks: -? Topic: Development of methodologies for the analysis of Contaminants of Emerging Concern (CECs) in sewage water and sludge, and its application to their degradation assessment during depuration treatments under investigation -? Supervision of M.S. thesis - ? Instrumental analytical techniques: Online-SPME; GC-MS
Identify key words: Mass spectrometry; Gas chromatography (fid, ecd, ms, etc); Industrial chemistry
Field of management activity: Public Research Body
- 5** **Employing entity:** University of California Riverside (UCR) (United States) **Type of entity:** University
Department: Department of Environmental Sciences
City employing entity: Riverside, CA, United States of America
Professional category: Postdoctoral scholar **Educational Management (Yes/No):** Yes
Start-End date: 02/12/2013 - 01/06/2015 **Duration:** 1 year - 6 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Topic: Development and application of methodologies for the analysis of eco-pesticides and contaminants of emerging concern in environmental matrices (water, soil, sediment, food, etc.) -? Ongoing research project: Assessment of Slow Sand Filtration (SSF) as an inexpensive treatment to remove micro-pollutants from sewage water -? Supervision of M.S. student thesis -? Instrumental analytical techniques: GC-MS; Ion chromatography; C/N Analysis -? Supervisor: Laosheng Wu
Field of management activity: University
- 6** **Employing entity:** Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC) **Type of entity:** Public Research Body
Department: Environmental Chemistry, Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC)
City employing entity: Barcelona, Spain
Professional category: Predoctoral researcher **Educational Management (Yes/No):** No
Start-End date: 01/09/2008 - 30/11/2013 **Duration:** 5 years - 3 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Performed tasks: -? Dissertation: "Analysis and fate of pharmaceutical residues in ground, surface and sewage waters" -? PhD program: Analytical chemistry applied to the environment and pollution. Honorable mention towards Excellence -? Instrumental analytical techniques: Online SPE; Online TurboFlow®; HPLC/UHPLC – MS/MS -? Supervisors: Dr. Damià Barceló – Mira Petrovi? -? Grade and honorable mentions awarded: Excellent cum laude; International Honorable Mention -? Funding organization: FPI pre-doctoral grant, Spanish department of Science and Innovation (MICINN)
Field of management activity: Public Research Body
- 7** **Employing entity:** University of Bath (UK) **Type of entity:** University
Department: Chemistry
City employing entity: Bath, United Kingdom



Professional category: Visiting researcher **Educational Management (Yes/No):** No
Start-End date: 01/02/2012 - 31/05/2012 **Duration:** 4 months
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time

Performed tasks: -? Project: "Enantiomeric analysis of pharmaceuticals and transformation products in the Guadalquivir River basin (South Spain)" -? Instrumental analytical techniques: UHPLC – MS/MS -? Supervisor: Barbara Kasprzyk-Hordern

Field of management activity: University

- 8** **Employing entity:** GlaxoSmithKline (GSK) **Type of entity:** Business
Department: Computational, Analytical and Structural Chemistry, Diseases of the Developing World (GSK DDW)
City employing entity: Tres Cantos, Community of Madrid, Spain
Professional category: Researcher **Educational Management (Yes/No):** No
Start-End date: 02/07/2007 - 01/07/2008 **Duration:** 1 year
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Development of analytical methodology for chemical entities emerging during the drug discovery of new treatments for malaria and tuberculosis, in pharmaceutical formulations and biological fluids -? Instrumental analytical techniques: HPLC/UHPLC – UV, MS/MS; RMN
- 9** **Employing entity:** Biomar Microbial Technologies
City employing entity: León, Castile and León, Spain
Professional category: Head of laboratory **Educational Management (Yes/No):** No
Start-End date: 04/06/2007 - 30/06/2007 **Duration:** 27 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Management of pilot plant for the extraction of compounds produced by marine micro-organisms, bacteria, fungi and micro-algae, for their subsequent assessment as candidate compounds with therapeutic properties or tentative interest in agro-food and/or bio-energy industries -? Instrumental analytical techniques: HPLC – UV
Field of management activity: Pharmaceutical industry
- 10** **Employing entity:** Embutidos Fermín, S.L. **Type of entity:** Business
City employing entity: La Alberca, Castile and León, Spain
Professional category: Quality manager **Educational Management (Yes/No):** No
Start-End date: 23/01/2007 - 01/06/2007 **Duration:** 4 months - 9 days
Type of contract: Temporary
Dedication regime: Full time
Performed tasks: -? Implementation and assessment of quality and environmental management systems, following regulations ISO 9001 and ISO 14001
Field of management activity: Pork meat industry
- 11** **Employing entity:** University of Valladolid (UVa) **Type of entity:** University
Department: Enology, School of Agricultural Engineering
City employing entity: Palencia, Castile and León, Spain
Professional category: Research scientist **Educational Management (Yes/No):** No
Start-End date: 16/03/2006 - 31/12/2006 **Duration:** 9 months - 16 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Study of the evolution of enological parameters in wines under different aging techniques -? Instrumental analytical techniques: HPLC-UV; GC-FID



Field of management activity: University

- 12** **Employing entity:** Repsol YPF, S.A. **Type of entity:** Business
Department: Technical assistance to lubricant oils, Repsol YPF Lubricant oils and specialties
City employing entity: Móstoles, Community of Madrid, Spain
Professional category: Specialist – R&D **Educational Management (Yes/No):** No
Start-End date: 16/03/2005 - 15/03/2006 **Duration:** 1 year
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Optimization of analytical methodology for the quality control of industrial and automotive lubricating oil -? Instrumental analytical techniques: Linear sweep voltammetry; Ferrography
Field of management activity: Energy and oil industry
- 13** **Employing entity:** Agrotechnology and Food Innovations (A&F) – Wageningen University & Research (WUR) (The Netherlands)
Department: Fiber and paper technology
City employing entity: Wageningen, Holland
Professional category: Research Scientist - Leonardo da Vinci fellow **Educational Management (Yes/No):** No
Start-End date: 04/01/2005 - 15/03/2005 **Duration:** 2 months - 11 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Pilot scale project for the production of bio-hydrogen from Miscanthus (biomass)
Field of management activity: Public Research Body
- 14** **Employing entity:** Agricultural Technological Institute of Castilla y León (ITACyL)
Department: Physical-chemical and instrumental, Technological center for dairy products
City employing entity: Palencia, Castile and León, Spain
Professional category: Chemical-Physical and Instrumental Analyst - Intern **Educational Management (Yes/No):** No
Start-End date: 10/11/2003 - 16/01/2004 **Duration:** 2 months - 6 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Performed tasks: -? Analytical method development for quality, safety and fraud control in dairy products -? Instrumental analytical techniques and regulations: HPLC- UV; GC-FID; ISO 17025
Field of management activity: Spanish Autonomous Region



Education

University education

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

- 1 University degree:** Higher degree
Name of qualification: M.S. Advanced Chemistry
City degree awarding entity: Barcelona, Spain
Degree awarding entity: University of Barcelona (UB) **Type of entity:** University
Date of qualification: 30/06/2009
Average mark: Excellent
Standardised degree: Yes
- 2 University degree:** Higher degree
Name of qualification: Postgrade Environmental Chemistry in the Industry
City degree awarding entity: Tres Cantos, Community of Madrid, Spain
Degree awarding entity: Autonomous University of Madrid (UAM) **Type of entity:** University
Date of qualification: 30/06/2008
- 3 University degree:** Higher degree
Name of qualification: B.S. Chemistry
City degree awarding entity: Valladolid, Spain
Degree awarding entity: University of Valladolid (UVa)
Date of qualification: 27/09/2004
Standardised degree: Yes

Doctorates

Doctorate programme: Environmental Analytical Chemistry
Degree awarding entity: University of Barcelona (UB) **Type of entity:** University
City degree awarding entity: Barcelona, Spain
Date of degree: 17/09/2013
DEA awarding entity: University of Barcelona (UB)
Date DEA was awarded: 17/09/2009
European doctorate: Yes **Date of certificate:** 27/09/2013
Thesis title: Analysis and fate of pharmaceutical residues in ground, surface and sewage waters
Thesis director: Damià Barceló Cullerés
Thesis co-director: Mira Petrovic
Obtained qualification: Excellent Cum Laude
Recognition of quality: Yes
Standardised degree: Yes



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	C2	C2	C1	C1	C1
Spanish	C2	C2	C2	C2	C2

Teaching experience

General teaching experience

- 1 Type of teaching:** Official teaching
Name of the course: 45946 Química Experimental I
Professional category: Doctor assistant professor
Type of subject: Core
University degree: B.S. Degree in Chemistry
Course given: 2nd year
End date: 14/02/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 45
Entity: University of Valladolid (UVa)
Department: Analytical chemistry
City of entity: Valladolid, Spain
- 2 Type of teaching:** Official teaching
Name of the course: 45970 Química Analítica Aplicada
Professional category: Doctor assistant professor
Type of subject: Core
University degree: B.S. Degree in Chemistry
Course given: 4th year
End date: 14/02/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 25
Entity: University of Valladolid (UVa)
Department: Analytical chemistry
City of entity: Valladolid, Spain
- 3 Type of teaching:** Official teaching
Name of the course: 45978 Química Analítica IV
Professional category: Doctor assistant professor
Type of subject: Core
University degree: B.S. Degree in Chemistry
Course given: 4th year
End date: 14/02/2021
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 21
Entity: University of Valladolid (UVa)



Department: Analytical chemistry
City of entity: Valladolid, Spain

4 **Type of teaching:** Official teaching
Name of the course: 45942 Operaciones básicas de laboratorio II
Professional category: Associated professor
Type of subject: Core
University degree: B.S. Degree in Chemistry
Course given: 1st year
End date: 26/06/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 55
Entity: University of Valladolid (UVa)
Department: Analytical chemistry
City of entity: Valladolid, Spain

5 **Type of teaching:** Official teaching
Name of the course: 45956 QUÍMICA EXPERIMENTAL III
Professional category: Associated professor
Type of subject: Obligatory
University degree: B.S. Degree in Chemistry
Course given: 3rd year
End date: 26/06/2020
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 20
Entity: University of Valladolid (UVa)
Department: Analytical chemistry
City of entity: Valladolid, Spain

6 **Type of teaching:** Official teaching
Name of the course: 45946 QUÍMICA EXPERIMENTAL I
Professional category: Associated professor
Type of subject: Obligatory
University degree: B.S. Degree in Chemistry
Course given: 2nd year
End date: 20/12/2019
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 30
Entity: University of Valladolid (UVa)
Department: Analytical chemistry
City of entity: Valladolid, Spain

7 **Type of teaching:** Official teaching
Name of the course: 45956 QUÍMICA EXPERIMENTAL III
Type of subject: Obligatory
University degree: B.S. Degree in Chemistry
Course given: 3rd year
End date: 28/06/2019
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: University of Valladolid (UVa)



Department: Analytical chemistry
City of entity: Valladolid, Spain

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Development of analytical methodology for the analysis of CECs in added value products from photobioreactors treating pig farm wastewater
Type of project: Master Science (M.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Spain
Student: Ariadna Pilar Calvo Tejo
Date of reading: 12/07/2021
- 2** **Project title:** Analytical comparison of conventional and fast methodologies for the analysis of CECs wastewater
Type of project: Bachelor's Degree (B.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Spain
Student: Miguel Ángel de la Serna Calleja
Date of reading: 26/02/2021
- 3** **Project title:** Development of methodology for the analysis of CECs in raw pig slurry
Type of project: Bachelor's Degree (B.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Spain
Student: Cristina Portela Monge
Date of reading: 25/02/2021
- 4** **Project title:** Personal care products (PPCPs) behaviour during thermal hydrolysis processes
Type of project: Doctoral thesis
Co-director of thesis: Enrique Barrado; Sara Isabel Pérez Elvira
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Castile and León, Spain
Student: Nereida Pérez Lemus
Date of reading: 18/12/2020
- 5** **Project title:** Efficiency of microalgae-bacteria consortia based photobiotreatment for the elimination of veterinary drugs in pig slurry
Type of project: Master Science (M.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Spain
Student: Aida López Manrique
Obtained qualification: Grade of B
Date of reading: 10/07/2020



- 6** **Project title:** Analytical methodology for the determination of veterinary drug residues in pig slurry
Type of project: Bachelor's Degree (B.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Castile and León, Spain
Student: Irene García García
Obtained qualification: Grade of A - Outstanding
Date of reading: 07/07/2020
- 7** **Project title:** Sample preparation by QuEChERS for the determination of veterinary drugs in microalgae-bacteria consortia from photobioreactors fed by pig slurry
Type of project: Bachelor's Degree (B.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Castile and León, Spain
Student: Andrea Bezos Bahillo
Obtained qualification: Grade of B
Date of reading: 12/12/2019
- 8** **Project title:** Sample preparation for the determination of veterinary drugs in the solid fraction of pig slurry
Type of project: Master Science (M.S.)
Co-director of thesis: Juan José Jiménez Sevilla
Entity: Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Castile and León, Spain
Student: Manuel Argüeso Mata
Obtained qualification: Grade of B
Date of reading: 25/07/2019
- 9** **Project title:** Analysis of emerging contaminants in effluents from Valladolid (Spain) waste water treatment plant
Type of project: Master Science (M.S.)
Co-director of thesis: Enrique Barrado; Sara Isabel Pérez Elvira
Entity: University of Valladolid (UVa) (Spain) **Type of entity:** University
City of entity: Valladolid, Castile and León, Spain
Student: Nereida Pérez Lemus
Date of reading: 09/07/2018
- 10** **Project title:** Study of PPCPs biodegradability in a completely mixed aerobic activated sludge reactor
Type of project: Master Science (M.S.)
Co-director of thesis: Rubén Irusta Mata; Pedro Antonio García Encina
Entity: University of Valladolid (UVa) (Spain) **Type of entity:** University
City of entity: Valladolid, Castile and León, Spain
Student: David Fernando Marín de Jesús
Date of reading: 12/09/2016
- 11** **Project title:** Assessment of slow sand filtration to remove emerging contaminants in recycled water
Type of project: Master Science (M.S.)
Co-director of thesis: Laosheng Wu
Entity: University of California Riverside (UCR) (United States) **Type of entity:** University
City of entity: Riverside, CA, United States of America
Student: Nancy Phu



Date of reading: 21/03/2016

Student tutorials

Name of the programme: Tutoría no universitaria de Prácticas académicas curriculares y extracurriculares de estudiantes universitarios - Prácticas en empresa

Entity: Institute of Sustainable Processes (ISP)

City of entity: Valladolid, Spain

Number of recognized hours/ECTS credits: 750

Number of tutored students: 5

Teaching experience in courses and seminars for university teacher training

Type of event: Seminar

Name of the event: Introduction to the capabilities of the LTI LC/MS/MS section

City organizing entity: Valladolid, Spain

Organising entity: Sciex - Instrumental techniques laboratory (LTI), University of Valladolid (UVa)

Teaching date: 07/06/2019

Awards received for innovation in the field teaching

- 1 Name of the prize:** I3 certification
Awarding entity: Ministerio de Ciencia e Innovación. **Type of entity:** Ministerio de Universidades
Universidades
City awarding entity: Madrid, Spain
Proposed by: Experimental Sciences Committee
Conferral date: 19/05/2020
- 2 Name of the prize:** Doctor assistant professor
Awarding entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)
City awarding entity: Madrid, Spain
Proposed by: Experimental Sciences Committee
Conferral date: 15/03/2017
- 3 Name of the prize:** Doctor contracted professor
Awarding entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)
City awarding entity: Madrid, Spain
Proposed by: Experimental Sciences Committee
Conferral date: 15/03/2017
- 4 Name of the prize:** Private university professor
Awarding entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)
City awarding entity: Madrid, Spain
Proposed by: Experimental Sciences Committee
Conferral date: 15/03/2017



Healthcare experience

Healthcare innovation projects

Name of the project: Development of new pharmaceuticals for the treatment of malaria and tuberculosis in developing countries

Type of project: Clinical

Entity where project took place: GlaxoSmithKline (GSK)

Type of entity: R&D Centre

Start date: 02/07/2007

Duration: 1 year

Scientific and technological experience

Scientific or technological activities

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

- Name of the project:** Seguimiento del nuevo virus SARS-CoV-2 en EDARs de Castilla y León y desarrollo de una plataforma on-line de alerta temprana de la infección basada en datos de aguas residuales

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Institute of Sustainable Processes (ISP)

City of entity: Valladolid, Castile and León, Spain

Name principal investigator (PI, Co-PI...): Pedro A. García Encina

Nº of researchers: 20

Funding entity or bodies:
Regional Government of Castilla y Leon co-funded by FEDER

Type of participation: Team member

Name of the programme: Program for the support of research projects

Code according to the funding entity: VA266P20

Start-End date: 01/01/2021 - 31/12/2023

Total amount: 264.000 €
- Name of the project:** Assessment of the environmental behavior of emerging contaminants during wastewater and solid waste treatment and valorization processes

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)

City of entity: Valladolid, Castile and León, Spain

Name principal investigator (PI, Co-PI...): Pedro A. García Encina; Rebeca López Serna

Nº of researchers: 50

Funding entity or bodies:
Regional Government of Castilla y Leon co-funded by FEDER



Type of participation: Team member

Name of the programme: Infrastructures in network of Castilla y León (INFRARED)

Code according to the funding entity: UVA03

Start-End date: 01/02/2018 - 31/12/2022

Total amount: 499.900 €

3 Name of the project: Research activities in the Institute of Sustainable Processes (ISP)

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Institute of Sustainable Processes (ISP)

City of entity: Valladolid, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Pedro A. García Encina

Nº of researchers: 70

Funding entity or bodies:

Regional Government of Castilla y Leon co-funded by FEDER

Type of participation: Team member

Name of the programme: Strategic plans and programs

Code according to the funding entity: CLU-2017-09

Start-End date: 14/09/2018 - 31/12/2021

Total amount: 850.000 €

4 Name of the project: Optimization of photosynthetic biological processes for urban wastewater reuse

Geographical area: National

Degree of contribution: Scientific coordinator

Entity where project took place: Institute of Sustainable Processes (ISP)

City of entity: Valladolid, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Raúl Muñoz Torre; Rebeca López Serna

Nº of researchers: 10

Funding entity or bodies:

Elecnor S.A.

Type of participation: Principal investigator

Name of the programme: Art. 83 - Organic Law of Universities

Start-End date: 01/09/2020 - 31/08/2021

Total amount: 40.638 €

5 Name of the project: BIOPURAL - Modelización y valorización secuencial de biomasa algal crecida en plantas de tratamiento de purines

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)

City of entity: Valladolid, Castile and León, Spain

Name principal investigator (PI, Co-PI....): Silvia Bolado Rodríguez

Nº of researchers: 50

Funding entity or bodies:

Regional Government of Castilla y Leon

Type of participation: Team member

Name of the programme: Grants for the support of GIRs from public universities in Castilla y León

Code according to the funding entity: VA080G18

Start-End date: 01/06/2018 - 31/12/2020



Total amount: 20 €

- 6** **Name of the project:** BIOFRACTAL - Caracterización y valorización fraccionada de biomasa algal crecida en plantas de tratamiento de purines
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)
City of entity: Valladolid, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Silvia Bolado Rodríguez
Nº of researchers: 50
Funding entity or bodies:
Spanish Ministry of Economy, Industry and Competitiveness (MICINN)
Type of participation: Team member
Name of the programme: National Plan for Scientific and Technical Research and Innovation - Proyectos EXCELENCIA y Proyectos RETOS
Code according to the funding entity: CTQ2017-84006-C3-1-R
Start-End date: 01/01/2018 - 31/12/2020
Total amount: 115.000 €
- 7** **Name of the project:** HITELO - Thermal hydrolysis of sewage sludge: Efficient integration of water, energy and agriculture
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)
City of entity: Valladolid, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Sara Isabel Pérez Elvira
Nº of researchers: 20
Funding entity or bodies:
Spanish Ministry of Economy, Industry and Competitiveness (MINECO)
Type of participation: Team member
Name of the programme: National Plan for Scientific and Technical Research and Innovation - Proyectos EXCELENCIA y Proyectos RETOS
Code according to the funding entity: CTM2015-70722-R
Start-End date: 01/01/2016 - 31/12/2019
Total amount: 244.420 €
- 8** **Name of the project:** INCOVER - Innovative eco-technologies for resource recovery from wastewater
Geographical area: European Union
Degree of contribution: Researcher
Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)
City of entity: Valladolid, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Raúl Muñoz
Nº of researchers: 255
Funding entity or bodies:
European Union
Type of participation: Team member
Name of the programme: H2020-EU.3.5.4.



Code according to the funding entity: 689242
Start-End date: 01/06/2016 - 31/07/2019
Total amount: 8.432.456,43 €

- 9** **Name of the project:** JdCI - Juan de la Cierva Incorporación
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: University of Valladolid (UVa)
City of entity: Valladolid, Spain
Name principal investigator (PI, Co-PI....): Sara Isabel Pérez Elvira
Nº of researchers: 10
Funding entity or bodies:
Spanish Ministry of Economy, Industry and Competitiveness (MINECO)
Type of participation: Principal investigator
Name of the programme: Spanish State Plan for Scientific and Technical Research and Innovation 2013-2016
Code according to the funding entity: JCI-2015-23304
Start-End date: 27/06/2017 - 26/06/2019
Total amount: 64.000 €

- 10** **Name of the project:** Study of micropollutants removal in wastewater treatment systems and its effect over microbial populations in biological systems
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Chemical Engineering and Environmental Technology - University of Valladolid (UVa)
City of entity: Valladolid, Castile and León, Spain
Name principal investigator (PI, Co-PI....): Pedro A. García Encina
Nº of researchers: 20
Funding entity or bodies:
Regional Government of Castilla y Leon co-funded by FEDER
Type of participation: Team member
Name of the programme: Program for the support of research projects
Code according to the funding entity: VA067U16
Start-End date: 01/03/2016 - 30/06/2018
Total amount: 120.000 €

- 11** **Name of the project:** SCARCE - Assessing and predicting effects on water quantity and quality in Iberian rivers caused by global change
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC)
Type of entity: Public Research Body
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Damià Barceló Cullerés
Nº of researchers: 50
Funding entity or bodies:
Spanish Ministry of Economy and Competitiveness (MINECO)
Type of participation: Team member



Name of the programme: Consolider-Ingenio
Code according to the funding entity: CSD 2009-00065
Start-End date: 17/12/2009 - 16/12/2014

- 12 Name of the project:** Stereoselective degradation of chiral drugs during wastewater treatment
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Universidad de Bath (UK)
City of entity: Bath, United Kingdom
Name principal investigator (PI, Co-PI....): Barbara Kasprzyk-Hordern
Type of participation: Team member
Name of the programme: UK Engineering and Physical Sciences Research Council
Code according to the funding entity: EP/I038608/1
Start-End date: 01/02/2012 - 31/01/2014
Total amount: 106.687 €
- 13 Name of the project:** CEMAGUA - Study of presence and fate of contaminants of emerging concern in ground- and surface water, and development of analytical tools for their environmental monitoring
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC) **Type of entity:** Public Research Body
City of entity: Barcelona, Catalonia, Spain
Name principal investigator (PI, Co-PI....): Damià Barceló Cullerés
Nº of researchers: 50
Funding entity or bodies: Spanish Ministry of Science and Innovation (MICINN)
Type of participation: Team member
Name of the programme: Plan Nacional de Investigación Científica, Desarrollo e Innovación Tecnológica
Code according to the funding entity: CGL2007-64551
Start-End date: 01/09/2008 - 31/08/2012
- 14 Name of the project:** Additional Sponsorship - University of Bath
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: Universidad de Bath (UK)
City of entity: Bath, United Kingdom
Name principal investigator (PI, Co-PI....): Jane I Millar; Barbara Kasprzyk-Hordern
Type of participation: Team member
Name of the programme: UK Engineering and Physical Sciences Research Council
Code according to the funding entity: EP/J501402/1
Start-End date: 01/07/2011 - 30/06/2012
Total amount: 787.685 €
- 15 Name of the project:** CITIUS
Geographical area: National
Degree of contribution: Researcher
Entity where project took place: GlaxoSmithKline **Type of entity:** R&D Centre (GSK)
City of entity: Tres Cantos, Community of Madrid, Spain



Name principal investigator (PI, Co-PI...): José Luis Lavandera Díaz

Nº of researchers: 100

Funding entity or bodies:

University-Enterprise Foundation (FUE)

Type of participation: Team member

Name of the programme: CITIUS - Initiation to the Industry for graduates

Start-End date: 02/07/2007 - 01/07/2008

Dedication regime: Full time

16 Name of the project: Internationalization of enterprises

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Embutidos Fermín, **Type of entity:** Business S.L.

City of entity: La Alberca, Castile and León, Spain

Name principal investigator (PI, Co-PI...): Santiago Martín Gómez

Nº of researchers: 100

Funding entity or bodies:

Regional Government of Castilla y Leon co-funded by European Social Fund (ESF)

Type of participation: Team member

Name of the programme: ADE (Agencia de Inversiones y Servicios)

Code according to the funding entity: IN-SA/005/01/01/SA

Start-End date: 23/01/2007 - 01/06/2007

Dedication regime: Full time

17 Name of the project: Application of an electronic panel to the characterization of wines under alternative aging systems to the oak barrels

Degree of contribution: Researcher

Entity where project took place: University of Valladolid (UVa) **Type of entity:** University

City of entity: Palencia, Castile and León, Spain

Nº of researchers: 25

Funding entity or bodies:

University of Valladolid (UVa)

City funding entity: Spain

Type of participation: Team member

Name of the programme: University of Valladolid (UVa) budget

Code according to the funding entity: 18IKLP 541A302 692 04

Start-End date: 16/03/2006 - 31/12/2006

Dedication regime: Full time

18 Name of the project: SEPI

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Repsol YPF, S.A. **Type of entity:** R&D Centre

City of entity: Móstoles, Community of Madrid, Spain

Nº of researchers: 100

Funding entity or bodies:

Spanish Ministry of Taxes and Public Administrations



Type of participation: Team member

Name of the programme: Sociedad Estatal de Participaciones Industriales (SEPI)

Start-End date: 16/03/2005 - 15/03/2006

Duration: 1 year

Dedication regime: Full time

19 Name of the project: ARGO PROJECT

Geographical area: European Union

Degree of contribution: Researcher

Entity where project took place: Agrotechnology & Food Innovations (A&F) - Wageningen University & Research (WUR) (The Netherlands)

City of entity: Wageningen, Holland

N° of researchers: 100

Funding entity or bodies:

Spanish Ministry of Education and Sciences (MEC) co-funded by European Commission (EC)

Type of participation: Team member

Name of the programme: Leonardo Da Vinci II

Code according to the funding entity: 1999/382/EC

Start-End date: 04/01/2005 - 15/03/2005

Dedication regime: Full time

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

Name of the project: VBC 90017 mobility at different soil textures, initial soil moistures and irrigation regimes - A lab scale study

Type of project: Research and development, including transfer

Entity where project took place: University of California Riverside (UCR)

Degree of contribution: Researcher

Entity where project took place: University of California Riverside (UCR)

Type of entity: University

City of entity: Riverside, CA, United States of America

Name principal investigator (PI, Co-PI....): Rebeca López Serna; Frederick Frank Ernst; Laosheng Wu; Benjamin Belkind

N° of researchers: 4

Funding entity or bodies:

Valent Biosciences Corporation (VBC) (United States)

Type of project: Cooperation

Start date: 01/05/2014

Duration: 1 year

Total amount: 10.000 €

Relevant results: 1) Development of analytical methodology for the analysis of Cinnamaldehyde (CAD) and Diallyl Disulfide (DAD) in soil. 2) Determination of their rate of mobility during irrigation of soils under different conditions



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1 Manuel Argüeso-Mata; Silvia Bolado; Juan J Jiménez; Rebeca López-Serna. Determination of antibiotics and other veterinary drugs in the solid phase of pig manure. *Chemosphere*. 2021.

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

Corresponding author: Yes

Impact source: SCOPUS **Category:** D1 (First decile)

Impact index in year of publication: 5.778 **Journal in the top 25%:** Yes

Position of publication: 8 **No. of journals in the cat.:** 132

Relevant results: Under review
- 2 Rebeca López-Serna; Silvia Bolado; Rubén Irusta; Juan J Jiménez. Evaluation of the QuEChERS sample preparation to determine veterinary drugs in microalgae biomass from photobioreactors by liquid chromatography-tandem mass spectrometry. Comparison with an ultrasound-assisted solid-liquid extraction followed by solid-phase extraction. *Microchemical journal*. 2021.

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

Impact source: SCOPUS **Category:** Q1

Impact index in year of publication: 4.7 **Journal in the top 25%:** Yes

Position of publication: 19 **No. of journals in the cat.:** 86

Relevant results: Under review
- 3 Grazielle Ruas; Rebeca López-Serna; Priscila Guenka Scarcelli; Mayara Leite Serejo; Marc Árpád Boncz; Raúl Muñoz. Influence of the hydraulic retention time on the removal of emerging contaminants in an anoxic-aerobic algal-bacterial photobioreactor coupled with anaerobic digestion and biogas upgrading. *Bioresource Technology*. 2021.

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

Impact source: SCOPUS **Category:** D1 (First decile)

Impact index in year of publication: 7.539 **Journal in the top 25%:** Yes

Position of publication: 4 **No. of journals in the cat.:** 132

Relevant results: Submitted
- 4 Lucas Vassalle; Rebeca López-Serna; Estel Rueda-Hernández; Rubén Díez-Montero; Antonio Ortiz-Ruiz; M. Jesús García-Galán. Removal of antibiotics by microalgae treatment systems at full-scale. *Water Research*. 2021.

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

Impact source: SCOPUS **Category:** D1 (First decile)

Impact index in year of publication: 9.130 **Journal in the top 25%:** Yes

Position of publication: 1 **No. of journals in the cat.:** 310

Relevant results: Submitted
- 5 Mónica Salamanca; Rebeca López-Serna; Laura Palacio; Antonio Hernández; Pedro Prádanos; Mar Peña. Study of the rejection of contaminants of emerging concern by a biomimetic aquaporin hollow fiber forward osmosis membrane. *Journal of Water Process Engineering*. 40 - 101914, 2021.

Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 4.8
Position of publication: 24

Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 163

- 6** Nereida Pérez-Lemus; Rebeca López-Serna; Sara-Isabel Pérez-Elvira; Enrique Barrado. Sample pre-treatment and analytical methodology for the simultaneous determination of pharmaceuticals and personal care products in sewage sludge. *Chemosphere*. 258 - 127273, 2020.

Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 5.778
Position of publication: 8

Format: Journal
Category: D1 (First decile)
Journal in the top 25%: Yes
No. of journals in the cat.: 132

- 7** Rebeca López-Serna; Dimas García; Silvia Bolado; Juan J Jiménez; Foon Y Lai; Oksana Golovko; Pablo Gago-Ferrero; Lutz Ahrens; Karin Wiberg; Raúl Muñoz. Photobioreactors based on Microalgae-Bacteria and Purple Phototrophic Bacteria Consortia: A promising technology to reduce the load of veterinary drugs from piggery wastewater. *Science of the Total Environment*. 692, pp. 259 - 266. 2019.

Type of production: Scientific paper
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 5.92
Position of publication: 5
Source of citations: SCOPUS

Format: Journal
Category: D1 (First decile)
Journal in the top 25%: Yes
No. of journals in the cat.: 118
Citations: 8

- 8** Rebeca López-Serna; Esther Posadas; Pedro Antonio García-Encina; Raúl Muñoz. Removal of contaminants of emerging concern from urban wastewater in novel algal-bacterial photobioreactors. *Science of the Total Environment*. 662, pp. 32 - 40. 2019.

Type of production: Scientific paper
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 5.92
Position of publication: 5
Source of citations: SCOPUS

Format: Journal
Category: D1 (First decile)
Journal in the top 25%: Yes
No. of journals in the cat.: 118
Citations: 23

- 9** Rebeca López-Serna; David Marín-de-Jesús; Rubén Irusta-Mata; Pedro Antonio García-Encina; Raquel Lebrero; María Fdez-Polanco María; Raúl Muñoz. Multiresidue analytical method for pharmaceuticals and personal care products in sewage and sewage sludge by online direct immersion SPME on-fiber derivatization – GCMS. *Talanta*. 186, pp. 506 - 512. 2018.

Type of production: Scientific paper
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 4.72
Position of publication: 14
Source of citations: SCOPUS

Format: Journal
Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 109
Citations: 15

- 10** Rebeca López-Serna; Frederick Ernst; Laosheng Wu. Analysis of cinnamaldehyde and diallyl disulfide as ecopesticides in soils of different textures—a laboratory-scale mobility study. *Journal of Soils and Sediments*. 16 - 2, pp. 566 - 580. 2016.



Type of production: Scientific paper
Corresponding author: Yes
Impact source: SCOPUS
Impact index in year of publication: 2.44
Position of publication: 5
Source of citations: SCOPUS

Format: Journal
Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 70
Citations: 1

- 11** Evroula Hapeshi; Meritxell Gros; Rebeca López-Serna; M. Rosa Boleda; Fransesc Ventura; Mira Petrovi?; Damià Barceló. Licit and Illicit Drugs in Urban Wastewater in Cyprus. CLEAN – Soil, Air, Water. 43 - 9, pp. 1272 - 1278. 2015.

Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 1.77
Position of publication: 37
Source of citations: SCOPUS

Format: Journal
Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 185
Citations: 7

- 12** Anna Jurado; Rebeca Lopez-Serna; Enric Vazquez-Sune; Jesus Carrera; Estanislao Pujades; Mira Petrovic; Damià Barcelo. Occurrence of carbamazepine and five metabolites in an urban aquifer. Chemosphere. 115, pp. 47 - 53. 2014. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 3.760
Position of publication: 45
Source of citations: SCOPUS

Format: Journal
Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 365
Citations: 34

- 13** Rebeca Lopez-Serna; Barbara Kasprzyk-Hordern; Mira Petrovic; Damià Barcelo. Multi-residue enantiomeric analysis of pharmaceuticals and their active metabolites in the Guadalquivir River basin (South Spain) by chiral liquid chromatography coupled with tandem mass spectrometry. Analytical and Bioanalytical Chemistry. 405 - 18, pp. 5859 - 5873. 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 3.55
Position of publication: 17
Source of citations: SCOPUS

Format: Journal
Category: Q1
Journal in the top 25%: Yes
No. of journals in the cat.: 92
Citations: 65

- 14** Damià Barcelo; Anna Jurado; Rebeca Lopez-Serna; Enric Vazquez; Jesus Carrera; Estanislao Pujades; Mira Petrovic. Occurrence and fate of carbamezapine and five metabolites in an urban aquifer under different redox conditions. Abstracts of Papers of the American Chemical Society. 246, 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

- 15** Rebeca Lopez-Serna; Anna Jurado; Enric Vazquez-Sune; Jesus Carrera; Mira Petrovic; Damià Barcelo. Occurrence of 95 pharmaceuticals and transformation products in urban groundwaters underlying the metropolis of Barcelona, Spain. Environmental Pollution. 174, pp. 305 - 315.



2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: D1 (First decile)

Impact index in year of publication: 3.902

Journal in the top 25%: Yes

Position of publication: 8

No. of journals in the cat.: 109

Source of citations: SCOPUS

Citations: 220

- 16** Rebeca Lopez-Serna; Cristina Postigo; Juan Blanco; Sandra Perez; Antoni Ginebreda; Miren Lopez de Alda; Mira Petrovic; Antoni Munne; Damia Barcelo. Assessing the effects of tertiary treated wastewater reuse on the presence emerging contaminants in a Mediterranean river (Llobregat, NE Spain). *Environmental Science and Pollution Research*. 19 - 4, pp. 1000 - 1012. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: Q1

Impact index in year of publication: 2.29

Journal in the top 25%: Yes

Position of publication: 21

No. of journals in the cat.: 87

Source of citations: SCOPUS

Citations: 40

- 17** Rebeca Lopez-Serna; Mira Petrovic; Damia Barcelo. Direct analysis of pharmaceuticals, their metabolites and transformation products in environmental waters using on-line TurboFlow (TM) chromatography-liquid chromatography-tandem mass spectrometry. *Journal of Chromatography A*. 1252, pp. 115 - 129. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: D1 (First decile)

Impact index in year of publication: 4.60

Journal in the top 25%: Yes

Position of publication: 8

No. of journals in the cat.: 87

Source of citations: SCOPUS

Citations: 61

- 18** Rebeca Lopez-Serna; Mira Petrovic; Damia Barcelo. Occurrence and distribution of multi-class pharmaceuticals and their active metabolites and transformation products in the Ebro River basin (NE Spain). *Science of the Total Environment*. 440, pp. 280 - 289. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: D1 (First decile)

Impact index in year of publication: 3.70

Journal in the top 25%: Yes

Position of publication: 7

No. of journals in the cat.: 84

Source of citations: SCOPUS

Citations: 142

- 19** Rebeca Lopez-Serna; Mira Petrovic; Damia Barcelo. Development of a fast instrumental method for the analysis of pharmaceuticals in environmental and wastewaters based on ultra high performance liquid chromatography (UHPLC)-tandem mass spectrometry (MS/MS). *Chemosphere*. 85 - 8, pp. 1390 - 1399. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal



Impact source: SCOPUS

Impact index in year of publication: 3.61

Position of publication: 37

Source of citations: SCOPUS

Category: Q1

Journal in the top 25%: Yes

No. of journals in the cat.: 336

Citations: 83

20

Bianca Ferreira da Silva; Aleksandra Jelic; Rebeca Lopez-Serna; Antonio A. Mozeto; Mira Petrovic; Damia Barcelo. Occurrence and distribution of pharmaceuticals in surface water, suspended solids and sediments of the Ebro river basin, Spain. Chemosphere. 85 - 8, pp. 1331 - 1339. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: Q1

Impact index in year of publication: 3.61

Journal in the top 25%: Yes

Position of publication: 37

No. of journals in the cat.: 336

Source of citations: SCOPUS

Citations: 238

21

Marianne Koeck-Schulmeyer; Antoni Ginebreda; Cristina Postigo; Rebeca Lopez-Serna; Sandra Perez; Rikke Brix; Marta Llorca; Miren Lopez de Aida; Mira Petrovic; Antoni Munne; Lluís Tirapu; Damia Barcelo. Wastewater reuse in Mediterranean semi-arid areas: The impact of discharges of tertiary treated sewage on the load of polar micro pollutants in the Llobregat river (NE Spain). Chemosphere. 82 - 5, pp. 670 - 678. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: Q1

Impact index in year of publication: 3.61

Journal in the top 25%: Yes

Position of publication: 37

No. of journals in the cat.: 336

Source of citations: SCOPUS

Citations: 63

22

Rebeca Lopez-Serna; Sandra Perez; Antoni Ginebreda; Mira Petrovic; Damia Barcelo. Fully automated determination of 74 pharmaceuticals in environmental and waste waters by online solid phase extraction-liquid chromatography-electrospray-tandem mass spectrometry. Talanta. 83 - 2, pp. 410 - 424. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0

Type of production: Scientific paper

Format: Journal

Impact source: SCOPUS

Category: D1 (First decile)

Impact index in year of publication: 3.91

Journal in the top 25%: Yes

Position of publication: 33

No. of journals in the cat.: 336

Source of citations: SCOPUS

Citations: 156

23

Rebeca López-Serna; Sandra Pérez; Mira Petrovic; Damià Barceló. UHPLC-MS for Multi-residue Screening of Pharmaceuticals in Environmental Samples. UHPLC in Life Sciences. pp. 337 - 353. The Royal Society of Chemistry, 2012.

Type of production: Book chapter

Format: Book

24

Sandra Pérez; María-Eugenia Rubiano; Antoni Ginebreda; Cristina Postigo; Rebeca López-Serna; Juan Blanco; Victoria Osorio; Miren López de Alda; Mira Petrovic; Jordi J Pastor; Lleonard Matia; Jordi Martín-Alonso; Antoni Munné; Joan Jofré; Francisco Lucena; Míriam Agulló-Barceló; Narcís Prat; Damià Barceló. Wastewater Reuse in the Llobregat: The Experience at the Prat de Llobregat Treatment Plant. The Llobregat. The Handbook of Environmental Chemistry. pp. 327 - 346. Springer, 2012.



Type of production: Book chapter
Source of citations: SCOPUS

Format: Book
Citations: 3

- 25** Sandra Pérez; Marianne Köck; Lei Tong; Antoni Ginebreda; Rebeca López-Serna; Cristina Postigo; Rikke Brix; Miren López de Alda; Mira Petrovic; Yanxin Wang; Damià Barceló. Wastewater Reuse in the Mediterranean Area of Catalonia, Spain: Case Study of Reuse of Tertiary Effluent from a Wastewater Treatment Plant at el Prat de Llobregat (Barcelona). Waste Water Treatment and Reuse in the Mediterranean Region. The Handbook of Environmental Chemistry. pp. 249 - 294. Springer, 2011.

Type of production: Book chapter
Source of citations: SCOPUS

Format: Book
Citations: 1

- 26** Rebeca López Serna; Damià Barceló; Mira Petrovi?. Presencia de fármacos en aguas medioambientales - Desarrollo analítico y determinación del origen y destino de 96 residuos farmacéuticos y sus productos de transformación (Presence of pharmaceuticals in environmental waters - Development of analytical methodology and determination of source and fate of 96 pharmaceutical residues and their active transformation products) (in Spanish). Publicia, 2014. ISBN 9783639558159

Type of production: Scientific book or monograph
Corresponding author: Yes

Format: Book

- 27** Nereida Pérez-Lemus; Rebeca López-Serna; Sara-Isabel Pérez-Elvira; Enrique Barrado. Analytical methodologies used for the determination of pharmaceuticals and personal care products (PPCPs) in sewage sludge: A critical Review. Analytica Chimica Acta. 1083, pp. 19 - 40. 2019.

Type of production: Review
Corresponding author: No

Format: Journal

Impact source: SCOPUS

Category: D1 (First decile)

Impact index in year of publication: 5.61

Journal in the top 25%: Yes

Position of publication: 4

No. of journals in the cat.: 69

Source of citations: SCOPUS

Citations: 26

Works submitted to national or international conferences

- 1** **Title of the work:** Photobioreactors based on Microalgae-Bacteria and Purple Phototrophic Bacteria Consortia: A promising eco-technology to reduce the load of veterinary drugs from piggery wastewater
Name of the conference: 2nd International conference on risk assessment of pharmaceuticals in the environment

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Barcelona, Spain

Date of event: 28/11/2019

End date: 29/11/2019

Organising entity: ICRAPHE

Rebeca López Serna; Dimas García; Silvia Bolado; Pedro A García-Encina; Juan J Jiménez; Foon Y Lai; Oksana Golovko; Pablo Gago-Ferrero; Lutz Ahrens; Karin Wiberg; Raúl Muñoz.

- 2** **Title of the work:** Transformation products of veterinary drugs in swine manure during photobiotreatments based on phototrophic microorganisms

Name of the conference: 2nd International conference on risk assessment of pharmaceuticals in the environment

Type of participation: Participatory - poster

Corresponding author: No



City of event: Barcelona, Spain

Date of event: 28/11/2019

End date: 29/11/2019

Organising entity: ICRAPHE

Rebeca López Serna; Dimas García; Pedro A García-Encina; Juan J Jiménez; Frank Menger; Foon Y Lai; Oksana Golovko; Pablo Gago-Ferrero; Lutz Ahrens; Karin Wiberg; Raúl Muñoz.

- 3 Title of the work:** Identification of biotransformation products of veterinary drugs present in piggery wastewater during treatment with photobioreactors based on microalgae-bacteria and purple phototrophic bacteria consortia

Name of the conference: 16th International Conference on Environmental Science and Technology (CEST2019)

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Rhodes, Greece

Date of event: 04/09/2019

End date: 07/09/2019

Organising entity: Conference on Environmental Science and Technology (CEST)

Rebeca López Serna; Dimas García; Silvia Bolado; Juan J Jiménez; Foon Y Lai; Oksana Golovko; Lutz Ahrens; Karin Wiberg; Pablo Gago-Ferrero; Raúl Muñoz.

- 4 Title of the work:** TRATAMIENTO DE LODOS DE DEPURADORA DE AGUAS RESIDUALES URBANAS PARA LA DETERMINACIÓN DE CONTAMINANTES EMERGENTES

Name of the conference: XXII Spanish society of analytical chemistry (SEQA)

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Valladolid, Spain

Date of event: 17/07/2019

End date: 19/07/2019

Organising entity: SEQA

Nereida Pérez-Lemus; Sara I Pérez-Elvira; Rebeca López-Serna; Enrique Barrado.

- 5 Title of the work:** Removal of 19 Veterinary Drugs during Piggery Wastewater Treatment in Photobioreactors based on Microalgae-bacteria and Purple Phototrophic Bacteria Consortia

Name of the conference: IWAAlgae 2019

Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Valladolid, Spain

Date of event: 01/07/2019

End date: 02/07/2019

Organising entity: IWA The international water association

Rebeca López Serna; Dimas García; Silvia Bolado; Pedro A García-Encina; Juan J Jiménez; Foon Y Lai; Oksana Golovko; Lutz Ahrens; Karin Wiberg; Raúl Muñoz.

- 6 Title of the work:** Eliminación de 19 fármacos veterinarios durante el tratamiento de purín porcino mediante fotobiorreactores basados en consorcios microalga-bacteria y bacterias fototróficas púrpuras

Name of the conference: 1º simposio Novedar

Type of participation: Participatory - poster

Corresponding author: Yes

City of event: Santiago de Compostela, Galicia, Spain

Date of event: 13/06/2019

End date: 14/06/2019

**Organising entity:** Novedar

Rebeca López Serna; Dimas García; Silvia Bolado; Juan José Jiménez; Foon Yin Lai; Oksana Golovko; Lutz Ahrens; Karin Wiberg; Raúl Muñoz.

- 7 Title of the work:** Anaerobic degradation of sulfamethoxazole using anthraquinone-2-sulfonate as redox mediator

Name of the conference: Biotec 2019

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Vigo, Galicia, Spain

Date of event: 10/06/2019

End date: 13/06/2019

Organising entity: Spanish society of biotechnology

Nicolás Bayón; Rebeca López-Serna; Rubén Irusta; Pedro A. García-Encina; Paulo Igor Milen Firmino.

- 8 Title of the work:** Tratamiento de contaminantes emergentes en sistemas de tratamiento de aguas residuales y lodos

Name of the conference: XIII Congreso español de tratamiento de aguas

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: León, Castile and León, Spain

Date of event: 18/06/2018

End date: 20/06/2018

Organising entity: Asociación de la Mesa Española de Tratamiento de Aguas (META)

Rebeca López Serna; Sara Pérez Elvira; Silvia Bolado; Rubén Irusta; Sheyla Ortiz; David Marín-de-Jesús; Sonia Martínez Paramo; Natalia Hernando; Dimas A. García Guzmán; Esther Posadas; Nereida Pérez Lemus; Alina Díaz Curbelo; Raúl Muñoz; Pedro García-Encina.

- 9 Title of the work:** DI-SPME - On-fiber Derivatization - GC-MS. An innovative green and cost-effective approach to determine CECs and TPs from a novel anoxic-aerobic photobioreactor

Name of the conference: SETAC Europe 28th Annual Meeting

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Rome, Italy

Date of event: 13/05/2018

End date: 17/05/2018

Organising entity: Society of Environmental Toxicology and Chemistry (SETAC)

Rebeca López Serna; Esther Posadas; Pedro García-Encina; Raúl Muñoz.

- 10 Title of the work:** Evaluating pilot scale slow sand filtration columns to effectively remove emerging contaminants

Name of the conference: 12th International Symposium on Persistent Toxic Substances (ISPTS)

Type of participation: Participatory - poster

Corresponding author: No

City of event: Riverside, California, United States of America

Date of event: 16/11/2015

End date: 20/11/2015

Organising entity: University of California Riverside (UCR) - Environmental Sciences

Nancy Phu; Rebeca López-Serna; Laosheng Wu.



- 11 Title of the work:** Assessment of slow sand filtration as a technique to polish reclaimed water in terms of micropollutants
Name of the conference: 248th ACS National Meeting
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: San Francisco, California, United States of America
Date of event: 10/08/2014
End date: 14/08/2014
Organising entity: American Chemical Society (ACS)
Rebeca López-Serna; Nancy Phu; Laosheng Wu.
- 12 Title of the work:** Occurrence and fate of carbamazepine and five metabolites in an urban aquifer under different redox conditions
Name of the conference: 246th ACS National Meeting and Exposition
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Indianapolis, Indiana, United States of America
Date of event: 08/09/2013
End date: 12/09/2013
Organising entity: American Chemical Society (ACS)
Damià Barceló; Anna Jurado; Rebeca López-Serna; Enric Vázquez; Jesús Carrera; Estanislao Pujades; Mira Petrovic.
- 13 Title of the work:** Organic Contaminants of Emerging Concern in Agricultural and Urban Groundwaters. Catalonia and Barcelona (Spain) case studies
Name of the conference: 3rd International Conference on Industrial and Hazardous Waste Management
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Chania, Crete, Greece
Date of event: 12/09/2012
End date: 14/09/2012
Organising entity: Technical University of Crete, Greece - University of Padua, Italy - Technical University of Hamburg, Germany - IWWG (International Waste Working Group)
Damià Barceló; Mira Petrovic; Cristina Postigo; Rebeca López-Serna; Marianne Köck-Schulmeyer; Nicola Mastroianni; Miren López de Alda; María Silvia Díaz-Cruz; María Jesús García-Galán; Antoni Ginebreda; Anna Jurado; Enric Vázquez-Suñé; Jesús Carrera.
- 14 Title of the work:** Enantiomeric profiling of chiral drugs in the environment with the usage of Chiral-LC-MS/MS
Name of the conference: 8th Annual LC/MS/MS workshop on Environmental Applications and Food Safety
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Barcelona, Catalonia, Spain
Date of event: 02/07/2012
End date: 04/07/2012
Organising entity: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC)
Barbara Kasprzyk-Hordern; John P Bagnall; David R Baker; Sian E Evans; Rebeca López-Serna; Anneke T Lubben.



- 15** **Title of the work:** On-line solutions for the preparation of water samples
Name of the conference: New frontiers in the water analysis
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Barcelona, Catalonia, Spain
Date of event: 10/05/2012
End date: 10/05/2012
Organising entity: Thermo Fisher Scientific
Marinella Farré; Rebeca López-Serna; Mira Petrovic; Damià Barceló.
- 16** **Title of the work:** Analysis and Occurrence of Pharmaceuticals, their metabolites and Trans-formation Products in the Ebro River Basin
Name of the conference: EuCheMS International conference on chemistry and the Environment (ICCE 2011)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Zurich, Switzerland
Date of event: 11/09/2011
End date: 15/09/2011
Organising entity: European Chemical Sciences
Rebeca López-Serna; Mira Petrovic; Damià Barceló.
- 17** **Title of the work:** LC-MS/MS Study of Distribution of Pharmaceuticals in Water, Suspended Solids and Sediments of the Ebro River
Name of the conference: 28th International Symposium on Chromatography
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Valencia, Valencian Community, Spain
Date of event: 12/09/2010
End date: 16/09/2010
Organising entity: Spanish Society of Chromatography and Related Techniques (SECyTA)
Bianca F Silva; Aleksandra Jelic; Rebeca López-Serna; Antonio A Mozeto; Mira Petrovic; Damià Barceló.
- 18** **Title of the work:** Linking effluent discharges, river flow and measured environment concentraions of emerging contaminants in the low Llobregat river (NE Spain)
Name of the conference: SETAC Europe 20th Annual Meeting (SETAC 2010)
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Sevilla, Andalusia, Spain
Date of event: 23/05/2010
End date: 27/05/2010
Organising entity: Society of Environmental Toxicology and Chemistry (SETAC)
Rebeca López-Serna; Mira Petrovic; Damià Barceló.
- 19** **Title of the work:** Wastewater reuse in Mediterranean semi-arid areas: the impact of discharges of tertiary treated sewage on the load of polar organic pollutants in the Llobregat river
Name of the conference: SETAC Europe 20th Annual Meeting (SETAC 2010)
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: Sevilla, Andalusia, Spain
Date of event: 23/05/2010



End date: 27/05/2010

Organising entity: Society of Environmental Toxicology and Chemistry (SETAC)

Antoni Ginebreda; Cristina Postigo; Rebeca López-Serna; Marianne Köck; Sandra Pérez; Rikke Brix; Marta Llorca; Miren López de Alda; Mira Petrovic; Antoni Munné; Lluís Tirapu; Damià Barceló.

20 Title of the work: Online SPE-HPLC-MS/MS Method for the Analysis of 74 Pharmaceuticals in Environmental and Waste Water

Name of the conference: 6th Annual LC/MS/MS Workshop on Environmental Applications and Food Safety. Focus on Emerging substances

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Barcelona, Catalonia, Spain

Date of event: 25/02/2010

End date: 26/02/2010

Organising entity: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC)

Rebeca López-Serna; Mira Petrovic; Damià Barceló.

21 Title of the work: Fully Automated Online SPE-HPLC-MS/MS Method for Analysis of Pharmaceuticas in WasteWater

Name of the conference: Innova-Med Conference - Innovative processes and practices for wastewater treatment and re-use in the Mediterranean region

Type of participation: 'Participatory - poster

Corresponding author: Yes

City of event: Girona, Catalonia, Spain

Date of event: 08/10/2009

End date: 09/10/2009

Organising entity: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC) - Catalan Institute for Water Research (ICRA)

Rebeca López-Serna; Mira Petrovic; Damià Barceló.

22 Title of the work: Linking Effluent Discharges, River Flow and Measured Environmental Concentrations of Emerging Contaminants in the Low Llobregat River (NE Spain)

Name of the conference: Innova-Med Conference - Innovative processes and practices for wastewater treatment and re-use in the Mediterranean region

Type of participation: 'Participatory - poster

Corresponding author: No

City of event: Girona, Catalonia, Spain

Date of event: 08/10/2009

End date: 09/10/2009

Organising entity: Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC) - Catalan Institute for Water Research (ICRA)

City organizing entity: Girona, Catalonia, Spain

Damià Barceló; Miren López de Alda; Mira Petrovic; Antoni Ginebreda; Sandra Pérez; Cristina Postigo; Marianne Köck; Rebeca López-Serna; Rikke Brix; Antoni Munné; Lluís Tirapu.

23 Title of the work: Determination of multi-class pharmaceuticals in environmental and waste water by fully automated on-line solid-phase extraction-liquid chromatography-electrospray-tandem mass spectrometry

Name of the conference: IV Spanish Society of Mass Spectrometry (SEEM) Meeting

Type of participation: Participatory - oral communication

Corresponding author: Yes

City of event: Castellón de la Plana, Valencian Community, Spain



Date of event: 30/09/2009

End date: 02/10/2009

Organising entity: Spanish Society of Mass Spectrometry (SEEM)

Rebeca López-Serna; Mira Petrovic; Damià Barceló.

- 24** **Title of the work:** Pharmaceuticals in Groundwaters: Sources, Occurrence and Behavior
Name of the conference: Water Scarcity and management under Mediterranean climate
Type of participation: 'Participatory - poster
Corresponding author: Yes
City of event: Girona, Catalonia, Spain
Date of event: 24/11/2008
End date: 25/11/2008
Organising entity: Catalan Institute for Water Research (ICRA) - Catalan Water Agency (ACA)
Rebeca López-Serna; Mira Petrovic; Damià Barceló.

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

- 1** **Committee title:** Reviewers at Water and Environment Journal
Affiliation entity: Willey
City affiliation entity: Hoboken, NJ, United States of America
Start-End date: 17/04/2020 - 17/05/2020
- 2** **Committee title:** Scientific committee at Simposio Novedar
Affiliation entity: Red Novedar
City affiliation entity: Santiago de Compostela, Spain
Start-End date: 08/02/2019 - 14/06/2019
- 3** **Committee title:** Reviewers at Sustainable Chemistry and Pharmacy
Affiliation entity: Elsevier
City affiliation entity: Amsterdam, Holland
Start-End date: 01/10/2017 - 31/10/2017
- 4** **Committee title:** Argentinian Scientific and technologic research fund committee (FONCyT)
Affiliation entity: National Agency for the Scientific and Technologic Promotion – Argentinian Ministry of Science, Technology and Productive Innovation
City affiliation entity: Buenos Aires, Argentina
Start-End date: 23/10/2014 - 03/11/2014



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Institute of Sustainable Processes (ISP)
City of entity: Valladolid, Spain
Start-End date: 05/07/2019 - 30/11/2019 **Duration:** 4 months - 25 days
Goals of the stay: Post-doctoral
- 2** **Entity:** University of Valladolid (UVa)
City of entity: Valladolid, Spain
Start-End date: 27/06/2017 - 26/06/2019 **Duration:** 2 years
Name of programme: Juan de la Cierva Incorporación
Goals of the stay: Post-doctoral
- 3** **Entity:** Swedish University of Agricultural Sciences (SLU) (Sweden)
City of entity: Uppsala, Sweden
Start-End date: 01/06/2018 - 31/08/2018 **Duration:** 3 months
Goals of the stay: Guest
- 4** **Entity:** General Foundation of the university of Valladolid (FUNGE) **Type of entity:** Foundation
City of entity: Valladolid, Spain
Start-End date: 01/11/2015 - 19/02/2017 **Duration:** 1 year - 3 months - 19 days
Goals of the stay: Post-doctoral
Provable tasks: Publication of 1 SCI peer-reviewed scientific article
- 5** **Entity:** University of California Riverside (UCR) (United States)
City of entity: Riverside, CA, United States of America
Start-End date: 02/12/2013 - 01/06/2015 **Duration:** 1 year - 6 months
Goals of the stay: Post-doctoral
Provable tasks: Publication of 1 SCI peer-reviewed scientific article
- 6** **Entity:** Institute of Environmental Assessment and Water Research (IDAEA), Spanish National Research Council (CSIC) **Type of entity:** Public Research Body
Faculty, institute or centre: Environmental Chemistry
City of entity: Barcelona, Catalonia, Spain
Start-End date: 01/09/2008 - 30/11/2013 **Duration:** 5 years - 3 months
Goals of the stay: Doctorate
Provable tasks: PhD certification – Publication of 12 SCI peer-reviewed articles, 3 book chapters and 1 book
- 7** **Entity:** University of Bath
Faculty, institute or centre: Department of Chemistry
City of entity: Bath, United Kingdom
Start-End date: 01/02/2012 - 31/05/2012 **Duration:** 4 months
Goals of the stay: Guest



Provable tasks: Publication of 1 SCI peer-reviewed scientific article

- 8** **Entity:** GlaxoSmithKline (GSK) **Type of entity:** R&D Centre
City of entity: Tres Cantos, Community of Madrid, Spain
Start-End date: 02/07/2007 - 01/07/2008 **Duration:** 1 year
Goals of the stay: Contracted
Provable tasks: Participation in research projects for the development of new drugs for the treatment of malaria and tuberculosis in developing countries. Development and application of analytical methodology based on GC and LC coupled to detectors, such as DAD, FID, MS, MS/MS. Use and maintenance of NMR instruments
- 9** **Entity:** University of Valladolid (UVa) **Type of entity:** University
Faculty, institute or centre: School of Agricultural Engineering
City of entity: Palencia, Castile and León, Spain
Start-End date: 16/03/2006 - 31/12/2006 **Duration:** 9 months - 16 days
Goals of the stay: Contracted
Provable tasks: Participation in research projects assessing wine aging processes alternative to oak barrels. Development of analytical methodology based on GC and LC coupled to FID and DAD, respectively
- 10** **Entity:** Repsol YPF, S.A. **Type of entity:** Business
City of entity: Móstoles, Community of Madrid, Spain
Start-End date: 16/03/2005 - 15/03/2006 **Duration:** 1 year
Goals of the stay: Contracted
Provable tasks: Proyecto de I+D para el desarrollo de metodología para una mejor valoración del estado de uso de aceites lubricantes usados y así optimizar su vida útil.
- 11** **Entity:** Agrotechnology and Food Innovations (A&F) - Wageningen University & Research (WUR)
City of entity: Wageningen, Holland
Start-End date: 04/01/2005 - 15/03/2005 **Duration:** 2 months - 11 days
Goals of the stay: Contracted
Provable tasks: Optimization of Miscanthus (grass biomass) physical-chemical pretreatment for the production of bio-hydrogen at pilot scale
- 12** **Entity:** Agricultural Technological Institute of Castilla y León (ITACyL)
Faculty, institute or centre: Technological center for dairy products
City of entity: Palencia, Castile and León, Spain
Start-End date: 10/11/2003 - 16/01/2004 **Duration:** 2 months - 6 days
Goals of the stay: Contracted
Provable tasks: Physical-chemical and instrumental analysis of dairy products

Obtained accreditations/recognitions

- 1** **Description:** I3 certification
Accrediting entity: Ministerio de Ciencia e Innovación. Universidades **Type of entity:** Ministerio de Universidades
City accrediting entity: Madrid, Spain
Date of recognition: 19/05/2020
- 2** **Description:** Doctor assistant professor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)
City accrediting entity: Madrid, Spain



Date of recognition: 15/03/2017

3 Description: Doctor contracted professor

Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)

City accrediting entity: Madrid, Spain

Date of recognition: 15/03/2017

4 Description: Private university professor

Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación (ANECA)

City accrediting entity: Madrid, Spain

Date of recognition: 15/03/2017