



**Lidia Fernández Rojo**

Generated from: Editor CVN de FECYT

Date of document: 24/01/2019

**v 1.4.0**

f609fc69f3770f3742c4e1c77e1108fb

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>



## 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.

I am an experienced researcher in biogeochemistry and environmental engineering. I got my Bachelor's Degree in Environmental Sciences from the University of Barcelona (Spain) in 2013. Just before I did a 4-month internship in Geosciences Environnement Toulouse (France) to do the end-of-degree project on oil pollution of the Amazonian watersheds. Afterwards, I moved to Toulouse (France) to study a Master's Degree in Hydrochemistry at the University Paul Sabatier-Toulouse III. I graduated in 2014 with a master thesis on toxicity of the silver nanoparticles on benthic microorganisms. Subsequently, I started my PhD on Water Sciences at the University of Montpellier (France). The objective of my PhD thesis was to better understand the environmental and operational factors controlling the efficiency of arsenic removal in arsenic-rich acid mine drainage bioremediation treatments. I obtained my PhD in November 2017. Since April 2018, I work as a postdoctoral researcher at the Hydrogeochemistry Group of the Institute of Environmental Assessment and Water Research (IDAEA-CSIC) (Spain), where I perform laboratory experiments and I develop numerical modeling on geological carbon storage area.

During my 5-year researcher career I have published 8 articles in ISI indexed journals (7 in the Q1), one book chapter and one conference paper. I have submitted works to 14 national or international conferences. The oral presentation that I gave in the 2016 Annual Conference of the International Mining Water Association was awarded best student presentation. Additionally, I am involved in peer-review process of high-impact journals.

Apart from research, I am interested in science communication and dissemination: I published two popular science articles and I regularly participate to the seminars organized by the CSIC-UPC Hydrogeology Group. Furthermore, I have been involved in teaching tasks: I gave more than 125 teaching hours during my PhD at the University of Montpellier, in the Earth Sciences Bachelor's Degree and the Water Sciences Master's Degree. Along this time, I participated in the supervision of master thesis of undergraduated students.



## 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.

Total publications in ISI journals: 8 (Q1 publications: 7)

Book chapters: 1

Conference papers: 1

Articles in technical and popular science journals without review: 2

Google Scholar Citations: 58

h-index: 5

i10-index : 2



## Lidia Fernández Rojo

Surname(s): **Fernández Rojo**  
 Name: **Lidia**  
 DNI: **46365315Y**  
 ORCID: **0000-0003-4269-3039**  
 Date of birth: **12/02/1990**  
 Gender: **Female**  
 Nationality: **Spain**  
 Country of birth: **Spain**  
 Aut. region/reg. of birth: **Catalonia**  
 Contact province: **Barcelona**  
 City of birth: **Barcelona**  
 Contact address: **Calle Muntaner 138**  
 Rest of contact address: **4 A**  
 Postcode: **08036**  
 Contact country: **Spain**  
 Contact aut. region/reg.: **Catalonia**  
 Contact city: **Barcelona**  
 Land line phone: **(+34) 934511958**  
 Email: **lidia.fernandez.rojo@outlook.com**  
 Mobile phone: **(0034) 696824871**

### Current professional situation

**Employing entity:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA  
**Type of entity:** State agency

**Professional category:** Postdoctoral researcher

**Start date:** 01/04/2018

**Type of contract:** Temporary employment contract

**Performed tasks:** Cement-rock interaction in geological carbon (CO<sub>2</sub>) storage sites: performance of flow-through experiments under supercritical CO<sub>2</sub> conditions, characterization of the chemical and mineralogical changes in cement and in the reservoir and cap rocks, interpretation of the results through reactive transport modeling

**Identify key words:** Geochemistry; Environmental science; Civil engineering; Pórtland cement

### Previous positions and activities

	Employing entity	Professional category	Start date
1	University of Montpellier, HydroSciences Montpellier	Higher degree	01/10/2014
2	University Paul Sabatier-Toulouse III, EcoLab	Middle degree	03/02/2014
3	Géosciences Environnement Toulouse	Middle degree	20/02/2013



- 1** **Employing entity:** University of Montpellier, HydroSciences Montpellier  
**Professional category:** Higher degree  
**Start-End date:** 01/10/2014 - 18/12/2017      **Duration:** 3 years - 3 months
- 2** **Employing entity:** University Paul Sabatier-Toulouse III, EcoLab  
**Professional category:** Middle degree  
**Start-End date:** 03/02/2014 - 20/06/2014      **Duration:** 5 months
- 3** **Employing entity:** Géosciences Environnement Toulouse      **Type of entity:** University Research Institute  
**Professional category:** Middle degree  
**Start-End date:** 20/02/2013 - 15/06/2013      **Duration:** 4 months



## Education

### University education

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

**1 University degree:** Higher degree

**Name of qualification:** Hydrology, Hydrochemistry, Soil and Environment Master's Degree

**Degree awarding entity:** University Paul Sabatier-Toulouse III

**Date of qualification:** 03/12/2014

**2 University degree:** Middle degree

**Name of qualification:** Environmental Sciences Bachelor's Degree

**Degree awarding entity:** University of Barcelona

**Date of qualification:** 23/07/2013

#### Doctorates

**Doctorate programme:** Water Sciences Doctorate Degree

**Degree awarding entity:** University of Montpellier

**Date of degree:** 27/11/2017

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A2	A2	A2	A1	A1
English	C2	C2	C2	C1	C1
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C2

## Teaching experience

### General teaching experience

**1 Name of the course:** GIS Training

**Type of subject:** Obligatory

**University degree:** Water Sciences Master's Degree

**Start date:** 01/09/2016

**End date:** 31/08/2017

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 12,5

**Entity:** University of Montpellier



**Subject language:** French

**2 Type of teaching:** Official teaching

**Name of the course:** Discovery of Earth and Water Sciences

**Type of subject:** Core

**University degree:** Earth Science Bachelor's Degree

**Start date:** 01/09/2015

**End date:** 31/08/2017

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 45

**Entity:** University of Montpellier

**City of entity:** Montpellier, France

**Subject language:** French

**3 Type of teaching:** Official teaching

**Name of the course:** Hydrogeology

**Type of subject:** Obligatory

**University degree:** Earth Sciences Bachelor's Degree

**Start date:** 01/09/2015

**End date:** 31/08/2017

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 34

**Entity:** University of Montpellier

**City of entity:** Montpellier, France

**Subject language:** French

**4 Type of teaching:** Official teaching

**Name of the course:** Water Quality and Microbiology

**Type of subject:** Obligatory

**University degree:** Water Sciences Master's Degree

**Start date:** 01/09/2015

**End date:** 31/08/2017

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 29

**Entity:** University of Montpellier

**City of entity:** Montpellier, France

**Subject language:** French

**5 Name of the course:** Ecotoxicology 2

**Type of subject:** Obligatory

**University degree:** Ecology and Organisms Biology Bachelor's Degree

**Start date:** 01/09/2015

**End date:** 30/08/2016

**Type of hours/ ECTS credits:** Hours

**Hours/ECTS credits:** 8

**Entity:** University of Montpellier

**Subject language:** French



## Experience supervising doctoral thesis and/or final year projects

- 1 Project title:** Taxonomic and metabolic characterization of microbial communities involved in the remediation of arsenic-rich Acid Mine Drainage  
**Type of project:** End of course project  
**Entity:** University of Montpellier  
**Student:** Laroche, E.  
**Date of reading:** 30/06/2016
- 2 Project title:** Influence of the nature of acid mine drainage, oxygenation and water depth on the structure of bacterial communities in a biofilm  
**Type of project:** End of course project  
**Entity:** University of Montpellier  
**Student:** Laroche, E.  
**Date of reading:** 30/06/2015

## Scientific and technological experience

### Scientific or technological activities

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

- 1 Name of the project:** PCROCKSS - Interaction of Portland cement- rock in acidic media: geological sequestration of CO<sub>2</sub> and waste management of sulfide mines (CGL2017-82331-R)  
**Entity where project took place:** INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA  
**Type of entity:** State agency  
**City of entity:** Barcelona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Josep M. Soler; Jordi Cama  
**Nº of researchers:** 3  
**Type of participation:** Team member  
**Start-End date:** 01/01/2018 - 31/12/2020  
**Total amount:** 108.900 €  
**Applicant's contribution:** My work focus on the geological carbon storage part of the project. I am in charge of the study of the CO<sub>2</sub>-rich brine interaction with ordinary portland cement and sedimentary reservoir and cap rocks. I conduct laboratory experiments, I determine the water chemistry and the mineralogy of the altered solid samples, and I perform reactive transport modeling of the experiments to reproduce and interpret the experimental data.
- 2 Name of the project:** Ing-ECOST-DMA - Eco-engineery applied to integrated management of As-rich tailings and acid mine drainage ( ANR-13-ECOT- 0009)  
**Entity where project took place:** HydroSciences Montpellier / Institut de Minéralogie, de Physique des Matériaux et de Cosmochimie / Bureau de Recherche Géologiques et Minières  
**Type of entity:** Public Research Body  
**City of entity:** Montpellier, France





**Name principal investigator (PI, Co-PI....):** Corinne Casiot; Marina Héry; Guillaume Morin; Catherine Joulian; Fabienne Battaglia-Brunet; Odile Bruneel; Françoise Elbaz-Poulichet; Marc Parmentier; Françoise Bodenan; Georges Ona-Nguema

**N° of researchers:** 14

**Funding entity or bodies:**

Agence Nationale de la Recherche

**Type of entity:** State agency

**City funding entity:** France

**Type of participation:** Team member

**Start-End date:** 01/01/2014 - 30/06/2017

**Total amount:** 803.839 €

**Applicant's contribution:** This project funded my PhD research whose objective was to better understand the environmental and operational factors controlling the efficiency of arsenic removal processes in acid mine drainage treatments. I performed laboratory and field experiments in aerobic bioreactors dealing with arsenic-rich acid mine drainage. As a result of my project contribution, I published three papers as first-author and four papers as co-author in indexed ISI journals.

## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1** Laroche, E.; Casiot, C.; Fernandez-Rojo, L.; Tardy, V.; Bruneel, O.; Desoeuvre, A.; Battaglia-Brunet, F.; Joulian, C.; Héry, M. Dynamics of Bacterial Communities Mediating the Treatment of an As-Rich Acid Mine Drainage in a Field Pilot. *Frontiers in Microbiology*. 9 - 3169, pp. 1 - 13. *Frontiers*, 21/12/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 2** Fernandez-Rojo, L.; Casiot, C.; Laroche, E.; Tardy, V.; Bruneel, O.; Delpoux, S.; Desoeuvre, A.; Grapin, G.; Savignac, J.; Boisson, J.; Morin, G.; Battaglia-Brunet, F.; Joulian, C.; Héry, M. A field-pilot for passive bioremediation of As-rich acid mine drainage. *Journal of Environmental Management*. 232, pp. 910 - 918. Elsevier, 24/11/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 3** Fernandez-Rojo, L.; Casiot, C.; Tardy, V.; Laroche, E.; Le Pape, P.; Morin, G.; Joulian, C.; Battaglia-Brunet, F.; Braungardt, C.; Desoeuvre, A.; Delpoux, S.; Boisson, J.; Héry, M. Hydraulic retention time drives bacterial community in an As-rich acid mine drainage (AMD) biotreatment process. *Applied microbiology and Biotechnology*. 102 - 22, pp. 9803 - 9813. Springer Berlin Heidelberg, 28/08/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 4** Tardy, V.; Casiot, C.; Fernandez-Rojo, L.; Resongles, E.; Desoeuvre, A.; Joulian, C.; Battaglia-Brunet, F.; Héry, M. Temperature and nutrients as drivers of microbially mediated arsenic oxidation and removal from Acid Mine Drainage. *Applied Microbiology and Biotechnology*. 102 - 5, pp. 2413 - 2424. Springer Berlin Heidelberg, 01/03/2018.  
**Type of production:** Scientific paper **Format:** Journal
- 5** Fernandez-Rojo, L.; Héry, M.; Le Pape, P.; Braungardt, C.; Desoeuvre, A.; Torres, E.; Tardy, V.; Resongles, E.; Laroche, E.; Delpoux, S.; Joulian, C.; Battaglia-Brunet, F.; Boisson, J.; Grapin, G.; Morin, G.; Casiot, C. Biological attenuation of arsenic and iron in a continuous flow bioreactor treating Acid Mine Drainage (AMD). *Water Research*. 123, pp. 594 - 606. Elsevier, 22/06/2017.  
**Type of production:** Scientific paper **Format:** Journal

- 6** Le Pape, P.; Battaglia-Brunet, F.; Parmentier, C.; Joulian, C.; Gassaud, C.; Fernandez-Rojo, L.; Guignier, J-M.; Ikogou, M.; Stetten, L.; Olivi, L.; Casiot, C.; Morin, G. Complete removal of arsenic and zinc from a heavily contaminated Acid Mine Drainage via an indigenous SRB consortium. *Journal of Hazardous Materials*. 321, pp. 764 - 772. Elsevier, 28/09/2016.  
**Type of production:** Scientific paper **Format:** Journal
- 7** Resongles, E.; Le Pape, P.; Fernandez-Rojo, L.; Morin, G.; Delpoux, S.; Brest, J.; Guo, S.; Casiot, C. Routine determination of inorganic arsenic speciation in precipitates from acid mine drainage using orthophosphoric acid extraction followed by HPLC-ICP-MS. *Analytical Methods*. 8, pp. 7420 - 7426. The Royal Society of Chemistry, 03/09/2016.  
**Type of production:** Scientific paper **Format:** Journal
- 8** González, A. G.; Fernandez-Rojo, L.; Leflaive, J.; Pokrovsky, O. S.; Rols, J-L. Response of three biofilm-forming benthic microorganisms to Ag nanoparticles and Ag<sup>+</sup>: the diatom *Nitzschia palea*, the green alga *Uronema confervicolum* and the cyanobacteria *Leptolyngbya* sp. *Environmental Science and Pollution Research*. 23 - 21, pp. 22136 - 22150. Springer-Verlag Berlin Heidelberg 2016, 20/08/2016.  
**Type of production:** Scientific paper **Format:** Journal
- 9** Fernandez-Rojo, L.; Héry, M.; Casiot, C. Los drenajes ácidos de minas. Herencia de una contaminación histórica. *Okeanos*. 7, pp. 30 - 33. 2018.  
**Type of production:** Popular science article **Format:** Journal
- 10** Fernandez-Rojo, L.; González, A.G. Las Nanopartículas de plata (AgNPs) y sus efectos en el medio acuático. *Okeanos*. 2, pp. 13 - 16. Mercurio Editorial, 2016.  
**Type of production:** Popular science article **Format:** Journal
- 11** Bruneel, O.; Héry, M.; Laroche, E.; Dahmani, I.; Fernandez-Rojo, L.; Casiot, C. Microbial transformations of Arsenic: From metabolism to bioremediation. *Metal-Microbe interactions and bioremediation: Principle and applications for toxic metals*. pp. 521 - 541. CRC Press, 2017.  
**Type of production:** Book chapter **Format:** Book

### Works submitted to national or international conferences

- 1** **Title of the work:** Dynamique spatio-temporelle des communautés bactériennes d'un bioréacteur traitant un drainage minier acide riche en arsenic in situ  
**Name of the conference:** Journées Recherche-Industrie, MANAGEMENT DES RESSOURCES MICROBIENNES  
**City of event:** Narbonne, France  
**Date of event:** 29/05/2018  
**End date:** 31/05/2018  
Laroche E.; Casiot C.; Fernandez-Rojo L.; Tardy V.; Desoeuvre A.; Grapin G.; Savignac J.; Boisson J.; Battaglia-Brunet F.; Joulian C.; Héry M.
- 2** **Title of the work:** Dynamics of bacterial communities in a field-scale pilot treating As-rich acid mine drainage  
**Name of the conference:** Ecotoxicomic  
**Type of participation:** Participatory - oral communication  
**City of event:** Lyon, France  
**Date of event:** 21/11/2017  
**End date:** 24/11/2017

**Type of entity:** Associations and Groups



**Organising entity:** Réseau Thématique  
Pluridisciplinaire et du Réseau Francophone  
d'Écotoxicologie Microbienne

**City organizing entity:** France

**With external admission assessment committee:** Yes

Laroche, E.; Casiot, C.; Fernandez-Rojo, L.; Tardy, V.; Desoeuvre, A.; Grapin, G.; Savignac, J.; Boisson, J.; Battaglia-Brunet, F.; Joulian, C.; Héry, M. "Dynamics of bacterial communities in a field-scale pilot treating As-rich acid mine drainage".

**3 Title of the work:** Traitement d'un drainage minier acide riche en arsenic et zinc en bioréacteurs à lit fixe

**Name of the conference:** Colloque AFEM

**Type of participation:** Participatory - oral communication

**City of event:** Camaret-sur-Mer,

**Date of event:** 19/10/2017

**Organising entity:** Association Francophone d'Ecologie Microbienne

**City organizing entity:** France

Battaglia-Brunet, F.; Casiot, C.; Fernandez-Rojo, L.; Héry, M.; Joulian, C. "Traitement d'un drainage minier acide riche en arsenic et zinc en bioréacteurs à lit fixe".

**4 Title of the work:** Monitoring of biological oxidation and removal of arsenic and iron in a field bioreactor treating As-rich acid mine drainage

**Name of the conference:** Goldschmidt

**Type of event:** Conference

**Geographical area:** Internacional

**Type of participation:** Participatory - poster

**Reasons for participation:** Representing

**Corresponding author:** Yes

**City of event:** Paris, France

**Date of event:** 13/08/2017

**End date:** 18/08/2017

**Organising entity:** European Association of  
Geochemistry/Geochemical Society

**Type of entity:** Associations and Groups

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

Fernandez-Rojo, L.; Héry, M.; Laroche, E.; Tardy, V.; Bruneel, O.; Delpoux, S.; Desoeuvre, A.; Grapin, G.; Savignac, J.; Boisson, J.; Morin, G.; Casiot, C. "Monitoring of biological oxidation and removal of arsenic and iron in a field bioreactor treating As-rich acid mine drainage".

**5 Title of the work:** Iron and arsenic removal rates in a continuous flow reactor treating As-rich acid mine drainage (AMD)-Award: best student presentation

**Name of the conference:** International Mining Water Association-Annual Conference 2016

**Type of event:** Conference

**Geographical area:** Internacional

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** Leipzig, Germany

**Date of event:** 11/07/2016

**End date:** 15/07/2016

**Organising entity:** International Mining Water  
Association

**Type of entity:** Associations and Groups

**City organizing entity:** Technische Universität Bergakademie Freiberg, Germany

**Publication in conference proceedings:** Yes

**With external admission assessment committee:**  
Yes

**Type of contribution:** Scientific paper



Fernandez-Rojo, L.; Casiot, C.; Desoeuvre, A.; Braungardt, C.; Torres, E.; Le Pape, P.; Morin, G.; Tardy, V.; Resongles, E.; Delpoux, S.; Boisson, J.; Grapin, G.; Héry, M. "Iron and arsenic removal rates in a continuous flow reactor treating As-rich acid mine drainage (AMD)". En: Mining Meets Water – Conflicts and Solutions. pp. 869 - 875. (Germany): Carsten Drebenstedt, Michael Paul (Eds.), 2016. ISBN 978-3-86012-533-5

- 6** **Title of the work:** Environmental parameters as drivers of bacterial communities responsible for arsenic removal from acid mine drainage  
**Name of the conference:** International Mining Water Association-Annual Conference 2016  
**Geographical area:** Internacional  
**Type of participation:** 'Participatory - poster  
**City of event:** Leipzig, Germany  
**Date of event:** 11/07/2016  
**End date:** 15/07/2016  
**Organising entity:** International Mining Water Association  
**Type of entity:** Associations and Groups  
**City organizing entity:** Technische Universität Bergakademie Freiberg, Germany  
**Publication in conference proceedings:** Yes  
Tardy, V.; Casiot, C.; Fernandez-Rojo, L.; Resongles, E.; Desoeuvre, A.; Héry, M. "Environmental parameters as drivers of bacterial communities responsible for arsenic removal from acid mine drainage".
- 7** **Title of the work:** Vitesses d'oxydation et de précipitation biologiques du fer et de l'arsenic dans un réacteur à flux continu traitant un drainage minier acide  
**Name of the conference:** Journée des doctorants IM2E  
**Type of participation:** Participatory - oral communication  
**City of event:** Montpellier, France  
**Date of event:** 22/03/2016  
**End date:** 23/03/2016  
**Organising entity:** Institut Montpelliérain de l'Eau et de l'Environnement  
**City organizing entity:** Montpellier, France  
Fernandez-Rojo, L.; Casiot, C.; Desoeuvre, A.; Braungardt, C.; Torres, E.; Le Pape, P.; Morin, G.; Tardy, V.; Resongles, E.; Delpoux, S.; Boisson, J.; Grapin, G.; Héry, M. "Vitesses d'oxydation et de précipitation biologiques du fer et de l'arsenic dans un réacteur à flux continu traitant un drainage minier acide".
- 8** **Title of the work:** Influence des facteurs environnementaux sur les communautés bactériennes responsables de l'élimination du fer et de l'arsenic dans les Drainages Miniers Acides (DMA)  
**Name of the conference:** Ecotoxicomic  
**Type of participation:** Participatory - oral communication  
**City of event:** Rovaltain, France  
**Date of event:** 16/03/2016  
**End date:** 18/03/2016  
**Organising entity:** Réseau Thématique Pluridisciplinaire et du Réseau Francophone d'Écotoxicologie Microbienne  
**Type of entity:** Associations and Groups  
**City organizing entity:** France  
**With external admission assessment committee:** Yes  
Tardy, V.; Casiot, C.; Fernandez-Rojo, L.; Resongles, E.; Desoeuvre, A.; Héry, M. "Influence des facteurs environnementaux sur les communautés bactériennes responsables de l'élimination du fer et de l'arsenic dans les Drainages Miniers Acides (DMA)".
- 9** **Title of the work:** Interactions entre nanoparticules et biofilms phototrophes : réponses de l'échelle populationnelle à celle de la communauté  
**Name of the conference:** Workshop Ingénierie et Biofilms

**Type of participation:** 'Participatory - poster

**City of event:** Toulouse, France

**Date of event:** 25/06/2015

**City organizing entity:** France

González, A.G.; Fernandez-Rojo, L.; Leflaive, J.; Pokrovsky, O.S.; Rols, J-L. "Interactions entre nanoparticules et biofilms phototrophes : réponses de l'échelle populationnelle à celle de la communauté".

- 10** **Title of the work:** Processus d'oxydation biologique et d'élimination du fer et de l'arsenic dans des eaux de Drainage Minier Acide (DMA) : expériences à l'échelle d'un pilote de laboratoire  
**Name of the conference:** Journée des doctorants IM2E  
**Type of participation:** 'Participatory - poster  
**City of event:** Montpellier, France  
**Date of event:** 20/03/2015  
**Organising entity:** Institut Montpelliérain de l'Eau et de l'Environnement  
**City organizing entity:** Montpellier, France  
**With external admission assessment committee:** Yes  
Fernandez-Rojo, L.; Torres, E.; Braungardt, C.; Desoeuvre, A.; Resongles, E.; Delpoux, S.; Héry, M.; Casiot, C. "Processus d'oxydation biologique et d'élimination du fer et de l'arsenic dans des eaux de Drainage Minier Acide (DMA) : expériences à l'échelle d'un pilote de laboratoire".
- 11** **Title of the work:** Microbial arsenic and iron oxidation in acid mine drainage: from natural attenuation to biological passive treatment process  
**Name of the conference:** Workshop Environmental Impacts of Mining and Smelting  
**Type of participation:** 'Participatory - poster  
**City of event:** Orsay, France  
**Date of event:** 08/01/2015  
**End date:** 09/01/2015  
**Organising entity:** Géosciences Paris Sud  
Casiot, C.; Torres, E.; Fernandez-Rojo, L.; Braungardt, C.; Elbaz-Poulichet, F.; Héry, M. "Microbial arsenic and iron oxidation in acid mine drainage: from natural attenuation to biological passive treatment process".
- 12** **Title of the work:** Toxicity of silver (ionic and nanoparticle) on phototrophic biofilm  
**Name of the conference:** 24ème Réunion des Sciences de la Terre  
**Type of participation:** Participatory - oral communication  
**City of event:** Pau, France  
**Date of event:** 27/10/2014  
**End date:** 31/10/2014  
**Organising entity:** Société Géologique de France  
**City organizing entity:** Pau, France  
González, A.G.; Mombo, S.; Fernandez-Rojo, L.; Leflaive, J.; Lamy, A.; Pokrovsky, O.S.; Rols, J-L. "Toxicity of silver (ionic and nanoparticle) on phototrophic biofilm".
- 13** **Title of the work:** Response of Phototrophic Biofilm to the presence of silver nanoparticles in natural waters  
**Name of the conference:** IV Congress of Marine Sciences  
**Type of participation:** Participatory - oral                      **Reasons for participation:** Upon invitation communication  
**City of event:** Las Palmas de Gran Canaria, Spain  
**Date of event:** 11/06/2014  
**End date:** 13/06/2014  
**Organising entity:** Universidad de Las Palmas de Gran Canaria  
**City organizing entity:** France



Mombo, S.; González, A.G.; Fernandez-Rojo, L.; Leflaive, J.; Lamy, A.; Pokrovsky, O.S.; Rols, J-L. "Response of Phototrophic Biofilm to the presence of silver nanoparticles in natural waters". En: Book of Abstracts submitted to the IV Congress of Marine Sciences. Las Palmas de Gran Canaria, June 11th to 13. ISBN 978-84-697-0471-4

**14 Title of the work:** L'argent ionique ou nano-particulaire est-il un biocide potentiel pour les micro-organismes benthiques, premier maillon de la chaîne trophique d'un cours d'eau ?

**Name of the conference:** Colloque Gagilau 2014: quels fleuves et estuaires pour demain ?

**Geographical area:** Internacional-países francófonos

**Type of participation:** 'Participatory - poster

**City of event:** Toulouse, France

**Date of event:** 14/05/2014

**End date:** 16/05/2014

**City organizing entity:** Toulouse, France

Fernandez-Rojo, L.; González, A.G.; Leflaive, J.; Pokrovsky, O.S.; Rols, J-L. "L'argent ionique ou nano-particulaire est-il un biocide potentiel pour les micro-organismes benthiques, premier maillon de la chaîne trophique d'un cours d'eau ?".

## Other achievements

### Stays in public or private R&D centres

**Entity:** Elettra Sincrotrone Trieste

**Type of entity:** R&D Centre

**Start-End date:** 20/09/2015 - 27/09/2015

**Goals of the stay:** Sample analysis

**Provable tasks:** X-ray Absorption Spectroscopy analysis