

Dr. Ana Cabrerizo



Personal Information

ana.cabrerizo@idaea.csic.es

anacabrerizopastor@hotmail.com

Education

2007-2012: Ph.D in Analytical and Environmental Chemistry. University of Barcelona; Spain. Grade Excellent *cum laude* and European mention. Research done at the Institute Environmental Assessment and Water Research (Spanish Research Council, IDAEA-CSIC) in Barcelona (Spain) under Dr. Jordi Dachs and Damià Barceló supervision.

2005-2007: Master in Hydrogeology and Hydrogeochemistry. Autonomia University of Madrid. Research done at the Institute Environmental Assessment and Water Research (Spanish Research Council, IDAEA-CSIC) in Barcelona under Dr. Jordi Dachs and Dr. Damià Barceló supervision.

2004-2005: Master in Environmental Science and Technology. Autonomous University of Madrid (Madrid, Spain) and Vrije University of Brussels (Brussels, Belgium) as an Erasmus student

2000-2004: Bachelor in Environmental Sciences. Autonomia University of Madrid; Madrid, Spain

Professional Experience

2018- Beatriu de Pinos postdoctoral researcher at the Institute of Environmental Assessment and Water research (IDAEA) from the Spanish Research Council (CSIC) in Barcelona

2015-2018 Post-Doctoral Marie Curie Researcher at the Canadian Centre for Inland Waters (Aquatic Contaminants Research Division). Environment Canada, Burlington, ON Canada and at IDAEA-CSIC.

2013-2015 Post-doctoral Researcher Associated (GH30)/Project Officer at the European Commission (Joint Research Centre). Air and Climate Unit. Institute for Environment and Sustainability (IES). Ispra, Italy.

2012-2013 Post-doctoral Researcher Associated in the Department of Environmental Chemistry of the Institute of Environmental Assessment and Water research (IDAEA) from the Spanish Research Council (CSIC) in Barcelona.

2003-2004: Fellowship in the Department of agricultural chemistry of the Autonomia University of Madrid (Spain)

2003-2004: Technician at the wastewater treatment plant of Soria (Spain)

Grants and Fellowships

2018-2020 Beatriu de Pinos Postdoctoral Fellowship

2015-2018 Postdoctoral Marie Curie (International Outgoing Marie Curie Fellowship)

2013-2015 Postdoctoral Fellowship (European Commission-Grantholder Cat. 30)

2012-Accommodation grant to assist to International Polar Year Conference 2012 From Knowledge to Action Conference, Montreal, Canada, April 2012.

2007-2012 FPU fellowship (PhD grant) from the Spanish Ministry of Science and Education

- **2010** Grant for stay 3 months at Lancaster Environmental Centre from the Spanish Ministry of Science and Education
- **2009** Grant for stay 4 months at Lancaster Environmental Centre from the Spanish Ministry of Science and Education
- **2008** Grant for stay 3 months at Lancaster Environmental Centre from the Spanish Ministry of Science and Education

2006-2007 Pre-doctoral fellowship associated to European AQUATERRA project

2005-2006 Master fellowship associated to European AQUATERRA project

2004-2005 Erasmus fellowship at Vrije Universiteit Brussel, Brussels (Belgium)

2003-2004 Collaboration fellowship for undergraduate students. Autonomous University of Madrid, Madrid (Spain). Spanish Ministry of Science, Culture and Sport

Competitive Projects Awards as IP

2015-2018 International Outgoing Marie Curie Fellowship (FP7-PEOPLE-2013-IOF): Impact of global change on the remobilization and Bioaccumulation of organic Pollutants in polar aquatic food webs (BioPOLlAr) (2015-2018): Proposal No 628303. Funded by European Commission. 244.333,30€. Project Leader: **Ana Cabrerizo**

2017-2018 Impact of climate change on the mobilization and bioaccumulation of persistent organic pollutants in arctic freshwater systems. Funded by the Northern Contaminant Program. Government of Canada: 21500\$. Project Leader: **Ana Cabrerizo**

2015-2016 Impact of climate change on the mobilization and bioaccumulation of persistent organic pollutants in arctic freshwater systems. Funded by the Northern Contaminant Program. Government of Canada: 28935\$. Project Leader: **Ana Cabrerizo**

2011-2012 Antarctic Butterfly Project. Financed by Acciona. Involved in the design of a passive sampler for ambient air monitoring in Antarctica. Project Leader: **Ana Cabrerizo** (IDAEA-CSIC)

Active Participation in European and International Research Projects

2017-2018 SENTINEL: La Antártida como centinela del cambio climático. Proyecto Financiado por el Plan Nacional. Ministerio de Ciencia e Innovación. (IDAEA-CSIC). Project Leader: Jordi Dachs (IDAEA-CSIC)

2016-2018 REMARCA: Remobilization of reservoirs of organic pollutants from the Arctic and Antarctica. Proyecto Financiado por el Plan Nacional. Ministerio de Ciencia e Innovación. (Project Leader: Jordi Dachs (IDAEA-CSIC)

2016-2017 Temporal trends of persistent organic pollutants and mercury in landlocked char in high Arctic lakes. Funded by the Northern Contaminant Program. Government of Canada: 36550\$. Project Leader: Derek Muir (Environment Canada)

2015-2016 Temporal trends of persistent organic pollutants and mercury in landlocked char in high Arctic lakes. Funded by the Northern Contaminant Program. Project Leader: Derek Muir (Environment Canada)

2015-2016 Community based seawater monitoring for organic contaminants and mercury in the Canadian Arctic. Funded by the Northern Contaminant Program. Project Leader: Derek Muir (Environment Canada)

2013-2015 DENMAQ Project: Assessment of air quality and population exposure. Testing new monitoring techniques for toxic organic pollutants. New strategies and methods for measurements in the field of air pollution monitoring, standardisation, calibration and validation in support of industrial policy for environmental monitoring. Project Leader: Pascual Perez Ballesta. European Commission, Joint Research Centre. Institute for Environment and Sustainability (IES). Air and Climate Unit. Ispra (Italy).

2009-2011 ATOS project (Atmospheric inputs of organic carbon and pollutants to the Polar ocean: rates, significance and outlooks). Spanish Ministry of Science and Innovation. Project leader: Jordi Dachs (IDAEA-CSIC)

- 2006-2009** Understanding river-soil-sediment-groundwater interactions for support of management of water bodies (AQUATERRA). European Project. Project leader: Damià Barceló (IDAEA-CSIC)
- 2007-2008** Oceanic eddies and atmospheric deposition in Canary Islands Canarias (RODA). Spanish Ministry of Science and Innovation. Project Leader: Jordi Dachs (IDAEA-CSIC).
- 2004-2005** Macrophytes and nutrients dynamics in the upper reaches of the Schelde (MANUDYN). Financed by Belgium Science Policy (EV/33). Project leader: Willy Baeyens (Vrije University of Brussels).

Publications

Peer-review publications

1. **Cabrerizo, A**, Muir, D, De Silva, A, Wang, X, Lamoreux, S, Lafreniere, M. Legacy and emerging pollutants in Arctic soil and vegetation. Sorption and sources. *Environmental Science and Technology*, **2018**. DOI: 10.1021/acs.est.8b05011
2. Casal, P; **Cabrerizo, A**; Vila-Costa, M; Pizarro, M; Jiménez, B; Dachs, J. Pivotal role of snow deposition and melting driving fluxes of polycyclic aromatic hydrocarbons at coastal Livingston Island (Antarctica). *Environmental Science and Technology*, **2018**, 52 (21), 12327-12337, DOI: 10.1021/acs.est.8b03640
3. Ma, Y, Adelman, D. A, Bauerfeind, E, Cabrerizo, A, McDonough, C. A, Muir, D, Soltwedel, T, Sun, C, Wagner, C, Sunderland, E. M, and Lohmann, R. Using passive samplers to determine concentrations and water mass transport of legacy POPs in the Arctic Ocean. Accepted in *en Geophysical Research Letters*, **2018**
4. **Cabrerizo, A**, Muir, D, Köck, G, Iqaluk, D, Wang, X. Climatic Influence on Temporal Trends of Polychlorinated Biphenyls and Organochlorine Pesticides in Landlocked Arctic Char from Lakes in the Canadian Arctic. *Environmental Science and Technology*, **2018**, 52 (18) 10380-10390. DOI:10.1021/acs.est.8b01860. Paper selected as a cover feature (V 52 Issue 17, Sept 2018).
5. McDonough, C. A.; De Silva, A. O.; Sun, C.; **Cabrerizo, A**.; Adelman, D.; Soltwedel, T.; Bauerfeind, E.; Muir, D. C. G.; Lohmann, R., Dissolved Organophosphate Esters and Polybrominated Diphenyl Ethers in Remote Marine Environments: Arctic Surface Water Distributions and Net Transport through Fram Strait. *Environmental Science and Technology* **2018**, 52 (11), 6208-6216
6. Okere, U. V.; **Cabrerizo, A**.; Dachs, J.; Ogbonnaya, U. O.; Jones, K. C.; Semple, K. T., Effects of pre-exposure on the indigenous biodegradation of 14C-phenanthrene in Antarctic soils. *International Biodeterioration and Biodegradation* **2017**, 125, 189-199
7. **Cabrerizo, A**, Larramendi, R, Albar, J, Dachs, J. Persistent Organic Pollutants in the Atmosphere of the Antarctic Plateau. *Atmospheric Environment*, **148**, 104-108, **2017**.
8. **A. Cabrerizo**, Pablo Tejedo, J. Dachs, J. Benayas. Anthropogenic and Biogenic Hydrocarbons in Soils and Vegetation from the South Shetland Islands (Antarctica). *Science of the Total Environment* 569-570:1500-9, **2016**.
9. **R. A. Field, A. Cabrerizo, P. Pérez-Ballesta**. Diffusive sampling of air pollutants in US basins with oil and gas development. Conference paper. DOI: 10.2495/AIR160141. **2016**
10. P. Pérez Ballesta, E. Grandesso, R.A. Field, **A. Cabrerizo**. Validation and modelling of a novel diffusive sampler for determining concentrations of volatile organic compounds in air. *Analytica Chimica Acta*, **908**, 102-112,

2016

11. Sanchís, J, **Cabrerizo, A**, Galbán-Malagón, C, Barceló, D, Farre, M and Dachs, J. Unexpected occurrence of volatile dimethylsiloxanes in Antarctic soils, vegetation, phytoplankton and krill. *Environ. Sci. Technol.* DOI: 10.1021/es503697t, **2015**.
12. **Cabrerizo, A**, Galbán-Malagón, C, Del Vento, S, Dachs, J. Sources and fate of polycyclic aromatic hydrocarbons in the Antarctic and Southern Ocean atmosphere. *Global Biogeochemical Cycles*, DOI 10.1002/2014GB004910, **2014**.
13. Galbán-Malagón, C, Del Vento, S, **Cabrerizo, A**, Dachs, J. Factors affecting the atmospheric occurrence and deposition of polychlorinated biphenyls in the Southern Ocean. *Atmos. Chem. Phys* 11, 12799-12811, **2013**.
14. Galbán-Malagón, C, **Cabrerizo, A**, **Caballero, Dachs, J**. Atmospheric Occurrence and Deposition of Hexachlorobenzene and Hexachlorocyclohexanes in the Southern Ocean and Antarctic Peninsula. *Atmos. Environ*, 80, 41-49, **2013**.
15. **Cabrerizo, A**; Dachs, J.; Barceló, D.; Jones, K. C. Climatic and biogeochemical controls on the remobilization and reservoirs of persistent organic pollutants in Antarctica. *Environ. Sci. Technol.*, **2013**, 47 (9), pp 4299–4306.
16. **Cabrerizo, A**; Dachs, J.; Barceló, D.; Jones, K. C. Influence of Organic Matter Content and Human activities on the Occurrence of Organic Pollutants in Antarctic Soils, Lichens, Grass and Mosses. *Environ. Sci. Technol.*, **2012**, 46 (3), pp 1396–1405.
17. Okere, U, **Cabrerizo, A**, Dachs, J, Jones K, Semple, K. Biodegradation of phenanthrene by indigenous microorganisms in soils from Livingstone Island, Antarctica. *Fems Microbiology Letters* **2012**, 329, (1), 69-77.
18. **Cabrerizo, A**; Dachs, J.; Moeckel, C.; Ojeda, M.-J.; **Caballero, G**; **Barceló, D**; Jones, K. C., Ubiquitous Net Volatilization of Polycyclic Aromatic Hydrocarbons from Soils and Parameters Influencing Their Soil–Air Partitioning, *Environ. Sci. Technol.*, **2011**, 45, (11), 4740-4747.
19. **Cabrerizo, A**; **Dachs, J**; Moeckel, C.; Ojeda, M.-J.; **Caballero, G**; **Barceló, D**; Jones, K. C., Factors Influencing the Soil–Air Partitioning and the Strength of Soils as a Secondary Source of Polychlorinated Biphenyls to the Atmosphere, *Environ. Sci. Technol.*, **2011**, 45, (11), 4785-4792.
20. **Cabrerizo, A**; Dachs, J.; Jones, K. C, **Barceló, D**. Soil-Air Exchange Controls on Background Atmospheric Concentrations of Organochlorine Pesticides. *Atmos. Chem. Phys.*, **2011**, 11, 12799-12811.
21. Nizzetto, L.; Macleod, M.; Borgå, K.; **Cabrerizo, A**; Dachs, J.; Guardo, A. D.; Ghirardello, D.; Hansen, K. M.; Jarvis, A.; Lindroth, A.; Ludwig, B.; Monteith, D.; Perlinger, J. A.; Scheringer, M.; Schwendenmann, L.; Semple, K. T.; Wick, L. Y.; Zhang, G.; Jones, K. C., Past, Present, and Future Controls on Levels of Persistent Organic Pollutants in the Global Environment. *Environ. Sci. Technol* **2010**, 44, (17), 6526-653.
22. **Cabrerizo, A**; Dachs, J.; **Barceló, D**. Development of a Soil Fugacity Sampler for Determination of Air/Soil Partitioning of Persistent Organic Pollutants under Field Controlled Conditions, *Environ. Sci. Technol.*, **2009**, 43, (21), 8257-8263.
23. Wild, E, **Cabrerizo, A**, Dachs, J, Jones K. C. Clustering of Nonpolar Organic Compounds in Lipid Media: Evidence and Implications. *Journal of Physical Chemistry A* **2008**, 112 (46)11699-11703.

Book Chapters

24. **Cabrerizo, A**, Dachs, J, **Barceló, D**. Soil-air exchange controls on background atmospheric concentrations of polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs) and polycyclic aromatic hydrocarbons (PAHs): a case study from temperate regions. Book Chapter on Occurrence, Fate and Impact of Atmospheric Pollutants on Environmental and Human Health. Chapter 2, pp 19-38. ACS Symposium Series, Vol.1149, Nov 2013.

JRC Technical Reports

25. P. Pérez Ballesta, R. A Field, **A. Cabrerizo**. Diffuse sampling measurements of volatile organic compounds and polycyclic aromatic hydrocarbons in three US basins with oil and gas development. JRC Technical Report. June 2015

26. **A.Cabrerizo** and P. Pérez Ballesta. Standard Operational Procedures for the preparation, sampling and analysis of PAHs and HCB with PODs samplers. JRC Technical Report. In preparation 2016
27. **A.Cabrerizo**, P. Gómez-Cortés and P. Pérez Ballesta. Standard Operational Procedures for the preparation, sampling and analysis of NO₂ with PODs samplers. JRC Technical Report. June 2015
28. **A.Cabrerizo**, L. Spinelli, M. Gerboles, N. Jensen. Feasibility study for the use of on-line mass spectrometry in test control chambers at ambient air levels: volatile PAHs and organic compounds. JRC Technical Report. European Commission. Ispra, Italy, December 2014

Other publications

29. **A. Cabrerizo**, Isabel Herráez. Remineralización de aguas potables de consumo público. Estación de tratamiento de agua potable de Soria. pp. 28-37. In Retema Medio Ambiente (Nº 102 September-October 2004).
30. **A. Cabrerizo**, Isabel Herráez. Estudio de las técnicas para remineralizar el agua. pp. 48-53. In Tecnología del agua. (Nº 254 November 2004)

Participation in International Scientific Conferences

1. **Cabrerizo, A**, Muir, D; Köck, G; Iqaluk, D; Wang, X; Kirk, J; Lamoreux, S; Lafreniere, M. temporal trends of polychlorinated biphenyls (PCBs) and organochlorine pesticides in landlocked char from lakes in the Canadian High Arctic. Oral in POLAR 2018, Davos, June 2018.
2. **Cabrerizo, A**; Muir, D; DeSilva, A; Lamoreux, S; Lafreniere, M. Influence of permafrost disturbances and climate change on temporal series of Polychlorinated Biphenyls (PCBs), organochlorine pesticides and perfluoroalkyl substances in Arctic Char. Oral in 13th ArcticNET Annual Meeting, Quebec, Canada. December 2017.
3. **Cabrerizo, A**; Muir, D; Köck, G; Iqaluk, D; Wang, X; Kirk, J; Lamoreux, S; Lafreniere, M. Climatic Influence on temporal trends of polychlorinated biphenyls (PCBs) and organochlorine pesticides in landlocked char from lakes in the Canadian High Arctic. Oral in SETAC North America 38th Annual Meeting, Minneapolis (EEUU), November 2017.
4. Kirk, J; Muir, D; De Silva, A; Wang, X; Morris, A; Lohmann, R; **Cabrerizo, A**; Amarualik, P. Community based Arctic seawater monitoring for organic contaminants and mercury. Poster in SETAC North America 38th Annual Meeting, Minneapolis (EEUU), November 2017.
5. Muir, D; Wang, X; **Cabrerizo, A**; Kirk, J; Iqaluk, D; Robert, K; DeSilva, A; Lamoreux, S; Lafreniere, S. Increasing Mercury and Other Elements in Arctic Char from a Lake Undergoing Climate-driven Changes. Poster in SETAC North America 38th Annual Meeting, Minneapolis (EEUU), November 2017.
6. **Cabrerizo, A**; De Silva, A; Teixeira, C; Spencer, C; Lamoreux, S; Lafreniere M; Muir, D. Organic pollutants in snow and snowmelt and its influence on High Arctic Lakes and Rivers. Poster in SETAC North America 38th Annual Meeting, Minneapolis (EEUU), November 2017.
7. Muir, D; Koeck, G; Barst, B; Kirk, J; **Cabrerizo, A**; Wang, X; Iqaluk, D. Contaminants in Landlocked char from lakes near Resolute Bay. Poster en 2017 Northern Contaminants Program (NCP) Results Workshop. Yellowknife (Canada), September 2017.
8. **Cabrerizo, A**; Muir, A; De Silva, A; Iqaluk, D; Wang, X; Lamoreux, S; Lafreniere, M. Influence of Permafrost Disturbances and Climate Change on Temporal series of Polychlorinated Biphenyls (PCBs), Organochlorine Pesticides and Perfluoroalkyl Substances in Arctic Char. Poster en 2017 Northern Contaminants Program (NCP) Results Workshop. Yellowknife (Canada), Septiembre 2017.
9. **Cabrerizo, A**; Muir, D; Köck, G; Iqaluk, D; Wang, X; Lamoreux, S; Lafreniere, M. Climatic Influence on temporal trends of polychlorinated biphenyls (PCBs) and organochlorine pesticides in landlocked char from lakes in the Canadian High Arctic Ponencia Oral en 37th International Symposium on Halogenated Persistent Organic Pollutants, DIOXIN 2017. Vancouver (Canada), August 2017.

10. Muir, D and **Cabrerizo, A.** Impact of a warming climate on trends of new and legacy contaminants: Evidence from the three polar regions. Conferencia Plenaria en the 3rd International Conference on Environmental Pollution and Research. School of Environment, Jinan University. March 2017.
11. Muir, D.C.G., X. Wang, **A. Cabrerizo**, J. Kirk, D. Iqaluk, K. Roberts, S.F. Lamoureux, M.J. Lafrenière. Trends of Mercury and other elements in Arctic Char in East and West Lake Cape Bounty Arctic Watershed Observatory, Melville Island, Nunavut. Poster Presented at the ArcticNet Annual Scientific Meeting, Winnipeg. December 2016.
12. Muir, D.C.G., X. Wang, J. Kirk, A. Sett, A. Gleason, **A. Cabrerizo**, D. Iqaluk, K. Roberts, S.F. Lamoureux, M.J. Lafrenière. Increasing mercury, cesium and rubidium in Arctic Char in a lake influenced by permafrost disturbance and climate change. Platform presented at the Society of Environmental Toxicology & Chemistry World Congress, November 6 – 10, 2016, Orlando (FL), USA.
13. **Cabrerizo, A.**, A. DeSilva, D.C. Muir, C. Spencer, S. Lamoureux, M. Lafrenière. Transport and bioaccumulation of perfluorinated Compounds in an Arctic lake catchment influenced by permafrost disturbance and climate change. Poster presented at the Society of Environmental Toxicology & Chemistry World Congress, November 6 – 10, 2016, Orlando (FL), USA.
14. **A. Cabrerizo**, P. Casal, P. Ballesta, D. Muir, J. Dachs. Optimization and use of a novel diffusive sampler for determining atmospheric polycyclic aromatic hydrocarbons and Hexachlorobenzene in the Arctic. Poster Presentation. ArcticNet Meeting. December 2015. Vancouver, Canada.
15. D. Muir, X. Wang, A. Sett, **A. Cabrerizo**, J. Kirk, D. Iqaluk, K. Roberts, S.F. Lamoureux, M.J. Lafrenière. Time Trends of Mercury in Arctic Char in East and West Lake, Cape Bounty Arctic Watershed Observatory, Melville Island, Nunavut. Poster presentation. ArcticNet Meeting. December 2015. Vancouver, Canada.
16. **A. Cabrerizo**, P. Cortes, P. Casal, G. Caballero, J. Dachs. Optimization of an innovative air sampling method for determining organochlorine pesticides and polycyclic aromatic hydrocarbons. Poster presentation at Dioxin 2014 Meeting, Madrid, September 2014.
17. J. Dachs, **A. Cabrerizo**, C. Galbán Malagón, N. Berrojalviz. Fugacity versus non-fugacity driven processes as controls of local, regional and global dynamic of organic pollutants. Oral presentation at Dioxin 2014 Meeting, Madrid, September 2014.
18. **A. Cabrerizo**, R. Larramendi, J-P Albar, J. Dachs. Legacy Persistent Organic Pollutants have reached the Remoteness Place on Earth: The Antarctic Plateau. Poster presentation at Dioxin 2014 Meeting, Madrid, September 2014.
19. **A. Cabrerizo**, G. Caballero, R. Larramendi, J-P Albar, J. Dachs. Legacy Persistent Organic Pollutants have reached the Remoteness Place on Earth: The Antarctic Plateau. Oral presentation at Society of Environmental Toxicology and Chemistry (SETAC), Basel, May 2014.
20. J. Dachs, **A. Cabrerizo**. Climatic and biogeochemical controls on the remobilization and reservoirs of persistent organic pollutants in Antarctica. XIth SCAR Biology Symposium, Barcelona, Spain, July 2013
21. **A. Cabrerizo**, J. Dachs, D. Barceló, K .C. Jones. Biogeochemical controls on the remobilization and reservoirs of polychlorinated biphenyls (PCBs) in Antarctica. Platform presentation at Society of Environmental Toxicology and Chemistry (SETAC), Glasgow, UK, May 2013.
22. **A. Cabrerizo**, J. Dachs, D. Barceló, K .C. Jones. Occurrence of brominated flame retardants (PBDEs) in Antarctic soils, mosses and lichens at background areas of the Antarctica Peninsula. Poster presentation at Society of Environmental Toxicology and Chemistry (SETAC), Glasgow, UK, May 2013.
23. M. Farre, J. Sanchis, C. Galban-Malagon, **A. Cabrerizo**, J. Dachs. Determination of methyl siloxanes in soils and biota samples from the Antarctic region. Society of Environmental Toxicology and Chemistry (SETAC), Glasgow, UK, May 2013.
24. J. Dachs, **A. Cabrerizo**, D. Barceló. Re-visiting the modelling of soil-air partitioning, fugacities in soil, and soil-air exchange of persistent organic pollutants. Society of Environmental Toxicology and Chemistry (SETAC) World, Berlin, Germany, May 2012.
25. **A. Cabrerizo**, J. Dachs, K .C. Jones, D. Barcelò. Exchange and partitioning of POPs between the atmosphere-vegetation-soil compartments. Poster Presentation at Society of Environmental Toxicology and Chemistry (SETAC) World, Berlin, Germany, May 2012.
26. **A. Cabrerizo**, J. Dachs, D. Barcelò, K .C. Jones. Revolatilization of Legacy Persistent Organic Pollutants from Soil and Snow in the Antarctica Peninsula is governed by Ambient temperatures and ecosystem biochemistry. Platform presentation at IPY

- 2012 From Knowledge to Action Conference, Montreal, Canada, April 2012.
27. **A. Cabrerizo**, J. Dachs, D. Barceló, K. C. Jones. Influence of organic matter and human activities on the occurrence of organic pollutants in Antarctic soils, lichens, grass and mosses in the session. Poster presentation at IPY 2012 From Knowledge to Action Conference, Montreal, Canada, April 2012.
 28. C.J. Galbán-Malagón, **A. Cabrerizo**, N. Berrojalbiz, M.J. Ojeda, J. Dachs. Air-water Exchange and Phytoplankton Accumulation of Persistent Organic Pollutants in the Greenland Current and Arctic Ocean. Poster Presentation at IPY 2012 From Knowledge to Action Conference, Montreal, Canada, April 2012.
 29. **A. Cabrerizo**, C.J. Galbán-Malagón, J. Dachs. Persistent Organic Pollutants in the Antarctic Ecosystem. **Invited Speaker** at Acciona WindPower Antarctica Symposium. Madrid, Spain, March 2012.
 30. **A. Cabrerizo**, J. Dachs, C. Moeckel, M.J. Ojeda, G. Caballero, D. Barceló, K.C. Jones. Background atmospheric concentrations of PAHs are controlled by ubiquitous emissions from soils. Platform Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 21st Annual Meeting. Milan (Italy), May 2011
 31. **A. Cabrerizo**, J. Dachs, H. Garrido, M.J. Ojeda, D. Barceló, K.C. Jones. Influence of the long-range transport of POPs in the Antarctic ecosystem Platform Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 21st Annual Meeting. Milan (Italy), May 2011
 32. J. Dachs, N. Berrojalbiz, C. Galbán, P. Echeveste, S. Agustí, C. Encinar, J. Zúñiga, **A. Cabrerizo**. Organic pollutants, bacteria, primary producers and global change. Are we tracking the problem adequately? Society of Environmental Toxicology and Chemistry (SETAC) Europe 21st Annual Meeting. Milan (Italy), May 2011
 33. **A. Cabrerizo**, C. Moeckel, J. Dachs, K.C. Jones, D. Barceló. Exchange and dynamics of organochlorine pesticides between soil and the atmosphere. Platform Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 20th Annual Meeting. Sevilla, Spain, May, 2010
 34. **A. Cabrerizo**, C. Moeckel, K.C. Jones, J. Dachs, D. Barceló. Uptake and exchange of POPs between the atmosphere-vegetation-soil compartments. Poster Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 20th Annual Meeting. Sevilla, Spain, May, 2010
 35. **A. Cabrerizo**, J. Dachs, D. Barceló. Development of a soil fugacity sampler for determination of air-soil partitioning of persistent organic pollutants. Poster Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 19th Annual Meeting. Göteborg, Sweden, May 2009.
 36. **A. Cabrerizo**, J. Dachs, D. Barceló. Air-Soil exchange and partitioning of PCBs and PAHs along the Ebro river basin (Spain). Poster Presentation at Society of Environmental Toxicology and Chemistry (SETAC) Europe 19th Annual Meeting. Göteborg, Sweden, May 2009.
 37. **A. Cabrerizo**, J. Dachs, D. Barceló. Field measurements of air-soil exchange gradients of persistent organic pollutants. **Invited speaker** at ESF LESC/PESC Exploratory Workshop: Exploring the Interactions between Carbon and organic chemical cycling in terrestrial ecosystems. Lancaster University, Lancaster, UK, June 2009.
 38. **A. Cabrerizo**, C. Galbán, N. Berrojalbiz, J. Dachs, A. Prieto, O. Zuloaga, A. Usobiaga. Determination of low levels of PAHs, PCBs and OCPs by means of SBSE-TD-GC-MS in snow and seawater from the Antarctica. European Conference on Analytical Chemistry (EUROANALYSIS XV). Innsbruck, Austria, September 2009.
 39. **A. Cabrerizo**, J. Dachs, D. Barceló. Air-Soil Exchange of Persistent Organic Pollutants in the Ebro River Basin (NE Spain). Platform presentation at Aquaterra Knowman Course in organic pollutants. Tubingen, Germany, March, 2008.
 40. **A. Cabrerizo**, J. Dachs, D. Barceló. Air-Soil Exchange of persistent organic pollutant in the catchment area of the Ebro River. Platform presentation at 1st Thematic Workshop: Monitoring and assessment of river pollutants: a step towards the implementation of risk based management plans. Lisbon, Portugal, 2007.
 41. N. Brion, **A. Cabrerizo**, L. D. Brabandere, F. Dehair. Relative role of macrophytes, phytoplankton and sediments in the uptake and release of inorganic nitrogen in a small river. International Symposium on Aquatic Vascular Plants: 25 Years After. Universidad Vrije Bruselas, Brusselas, Belgica, January 2006.

Expertise/Skills

- Environmental fate studies of organic and inorganic pollutants in terrestrial polar ecosystems (distribution, processes and sources identification)

- Assessments of European air pollution status, trends and impacts on human health and the environment
- Environmental analysis and monitoring of organic contaminants (experimental campaigns planning and execution in temperate and polar environments, sampling technique development)
- Sampling development techniques
- Writing and peer-reviewing of scientific manuscripts and technical documents
- Participation in European projects and collaborations with international institutions. Writing of peer-reviewed publications, technical reports and presentation of results in international meetings
- Guest editor in Environmental Pollution
- Reviewer of 7 international journals
- Member of ACAP and AMAP expert group

Instrumental Analysis expertise

- GC/MS and GC/MS-MS: for the determination of organic compounds (PCBs, PAHs, alkanes, BFRs...)
- GC/EDC: for the determination of organohalogenated compounds (PCBs, DDTs, HCHs...)
- GC/MS-TDU: for determination of PAHs, VOC, PCBs...
- PTR-MS: for determination of VOCs..
- HPLC: for determination of PAHs and NO₂
- LC/MS-MS: for determination of PFASs and OPES

Languages

- Spanish-native language
- English-fluent writing and spoken. Level C2. Certificated by the European Commission
- Italian-basic level. Level B2. Certificated by the European Commission
- French -basic level.
- Catalan -basic level

Inter-personal

- Excellent organizational and work planning skills (establishing goals, monitoring work, respect of deadlines)
- Leading capacity, discipline and flexible
- Team player

Additional education (Short Courses)

- Non Parametric Statistical Tests. European Commission (18-19th May 2015)
- Statistical Methods in Matlab. European Commission (19-20th June 2014)
- Matlab Fundamentals. European Commission (25-27th March 2014)
- STATA (Statistical software) (20h). Spanish Research Council. May 2012
- Access 2010 on line (40h). Spanish Research Council. April 2011
- Agilent Technologies. Environmental Solutions. March 2011
- Advance power point on line (30h). Spanish Research Council. June 2011
- 5th Thermo Scientific High Resolution GC/MS meeting on POPs. April 2010
- Advance excel 2007 on line (60h). Spanish Research Council. November 2010
- Safe working practices with hazardous chemicals. Spanish Research Council. November 2007

Computer Skills

Windows, Office (Word, Excel, Access, Power Point), SPSS, Matlab

Hobbies

- Mountaineering and hiking
- Travelling
- Music and reading

Driving License

- B1 since 2001

