

Maria Luisa Feo



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Research

- Development of new analytical methodologies for analysis of organic contaminants in the environment.
- Occurrence and fate of emerging contaminants in the environment.
- Remediation of marine sediments contaminated by organic contaminants.

Education

2011	Guest Fellow (3-months) at Department of Analytical Chemistry, Buffalo University, NY, USA.
2008	Guest Fellow at ISOBIO (3-months), UFZ, Leipzig, Germany.
2005-2008	PhD in Ecology and Management of Biological Resources. University of La Tuscia, Viterbo, Italy.
2003-2005	Research Assistant at IAMC CNR, Napoli, Italy.
2003-2004	Research Assistant at Stazione Zoologica Anton Dohrn, Naples, Italy.
2003	Diploma in Organic Chemistry at University of Naples Federico II, Naples, Italy.

Working Experience:

Current	Research Fellow at IAMC CNR, Capo Granitola, Italy.
2012-2014	Environmental Consultant. Bayer Environmental Science (in-house), Knoell Group. Lyon, France.
2008-2012	Post-Doctoral Scientist at IDAEA CSIC, Barcelona, Spain.

List of publications

1. M Bata Alonso, **ML Feo**, C Corcellas, P Gago-Ferrero, CP Bertozzi, JMarigo, L Flach, ACO Meirelles, VL Carvalho, AI Azevedo, JPM Torres, JLailson-Brito, O Malm, MS Diaz-Cruz, E Eljarrat*, D Barceló. Toxic heritage: Maternal transfer of pyrethroid insecticides and sunscreen in dolphins from Brazil. *Environmental Pollution* (2015), 207:391-402. Impact Factor (IF)= 4.839.
2. **ML Feo**, O Gonzalez, E Barón, M Casado, Piña B, S Esplugas, Eljarrat E, D Barceló. Advanced UV/H₂O₂ oxidation of deca-bromo diphenyl ether in sediments. *Science of Total Environment* (2014), 479-480:17-20. IF= 3.976.

3. **ML Feo**, E Barón, D S Aga, E Eljarrat, D Barceló. Development of a liquid chromatography-electrospray chemical ionization tandem mass spectrometry analytical method for analysis of eleven hydroxylated polybrominated diphenyl ethers. *Journal Chromatography A* (2013), 1301: 80-87. IF= 3.926.
4. **ML Feo**, M S Gross, B P McGarrigle, E Eljarrat , D Barcelo, J R Olson, DS Aga. Biotransformation of BDE-47 to Potentially Toxic Metabolites is Predominantly Mediated by Human CYP2B6. *Environmental Health and Perspective* (2013), 121: 440-446. IF= 8.44.
5. **ML Feo**, C Corcellas, C Barata, E Eljarrat, D Barceló. (2012). Chemical Availability of pyrethroid insecticides in sediments evaluated by Tenax extraction. *Science of Total Environment* (accepted). IF=3.28
6. **ML Feo**, M S Gross, B P McGarrigle, E Eljarrat , D Barcelo, J R Olson, DS Aga. Biotransformation of BDE-47 to Potentially Toxic Metabolites is Predominantly Mediated by Human CYP2B6. *Environmental Health and Perspective*(accepted). Impact Factor (IF)= 6.08.
7. C Barata, M Fernández-San Juan, **ML Feo**, E Eljarrat, D Barceló, JB Donald. Population growth rate responses of *Ceriodaphnia dubia* to ternary mixtures of specific acting chemicals: Pharmacological versus ecotoxicological modes of action. *Environmental Science and Technologies* (accepted). IF= 5.22
8. **M.L. Feo**, E. Barón, E. Eljarrat, D. Barceló. Dieldrin plus and related compounds in aquatic and terrestrial biota: A review. *Analytical Bioanalytical Chemistry* (in press). IF= 3.84
9. C. Corcellas, **M.L. Feo**, J. Torres, O. Malm, Ocampo-Duque, E. Eljarrat, D. Barceló. Pyrethroids: New contaminants in Human Breast Milk? (2012). *Environment International* 47, 17-22. IF= 5.29
10. M. B. Alonso, **M.L. Feo**, C. Corcellas, L. G. Vidal, C. P. Bertozzi, J. Marigo, E.R. Secchi, M. Bassoi, A. Azevedo, P.R. Dorneles, J.P.M. Torre, J. Lailson-Brito. O. Malm, E. Eljarrat, D. Barceló. (2012). Pyrethroids: A new threat to marine mammals? *Environment International* 47, 69-106. IF=5.29
11. Ruiz-Fernández A.C., Sprovieri M. , Frignani M., Sanchez-Cabeza J.A., **Feo M.L.**, Bellucci L.G., Pérez-Bernal L.H., Preda M., Machain-Castillo M.L. (2012). Reconstruction of hydrocarbon accumulation in sediments affected by the oil refinery industry: the case of Tehuantepec Gulf (Mexico). *Environmental Earth Science* p 1-16 (in press). IF= 1.026
12. **M. L. Feo**, E. Eljarrat, M. N. Manaca, J. O. Grimalt, C. Dobaño , D. Barceló, J. Sunyer, P. L. Alonso and C. Menendez. (2012). Human exposure to pyrethroids due to domestic applications for malaria prevention (Manhiça, Mozambique). *Environment International*, 8, 67-72. IF= 5.29
13. M.L. Feo, E. Eljarrat, D. Barceló. (2010). Performance of GC-MS-MS technique in analysis of pyrethroid insecticides in environmental and food samples. *Rapid Communication in Mass Spectrometry* 25, 869-876. IF=2.79
14. **M.L. Feo**, A. Ginebreda, E. Eljarrat, D. Barceló. (2010). Presence of pyrethroid pesticides in water and sediments of Ebro River Delta. *Journal of Hydrology* 393, 156-162. IF=2.51
15. A. C. Ruiz-Fernández, M. Sprovieri, R. Piazza, M. Frignani, J.A. Sanchez-Cabeza, **M. L. Feo**, L. G. Bellucci, M. Vecchiato, L. H. Pérez- Bernal, F. Páez-Osuna. (2010). 210Pb-derived history of PAHs and PCBs accumulation in sediments of a tropical inner Lagoon (Las Matas, Gulf of Mexico) near a major oil refinery. *Geochimica et Cosmochimica Acta* 82, 136-153. IF= 4.38
16. **M.L. Feo**, E. Eljarrat, D. Barceló. (2010). Determination of pyrethroid insecticides in environmental samples. *Trends in Analytical Chemistry* , 29, 692-705. IF=6.54
17. **M.L. Feo**, E. Eljarrat, D. Barceló. (2010). A rapid and sensitive analytical method for the determination of fourteen pyrethroids in water samples. *Journal Chromatography A* 1227, 2248-2253. IF= 4.10
18. **M.L. Feo**, E. Eljarrat, D. Barceló. (2009) Occurrence, fate and analysis of polychlorinated n-alkanes in the environment. *Trends in Analytical Chemistry*, 28, 6. IF=6.54
19. M. Sprovieri, **M.L. Feo**, L. Prevedello, D. Salvaggio Manta, S. Sammartino, S. Tamburino, E. Marsella. (2007). E. Heavy metals, polycyclic aromatic hydrocarbons and polychlorinated biphenyls in surface sediments of the Naples harbour (Southern Italy). *Chemosphere*, 67, 998-1009. IF= 3.25.