

## CV Paluselli Andrea

### EDUCATION and EXPERIENCE

- May 2018 – September 2019      **Post Doc** at Incheon National University (South Korea), Department of Marine Science. Microplastics and plastic additives characterization in seawater and freshwater, marine sediment, agricultural soil and WWTPs. Supervisor: Prof. S.K. KIM.
- November 2013 – February 2018      **PhD** in chemical oceanography at Aix-Marseille University (Marseille, France) - Mediterranean Institute of Oceanography (MIO). Defense date: 15/02/2018. Thesis title: “*Analysis, occurrence, release and degradation of phthalate esters (PAEs) in Mediterranean coastal Sea*”. Supervisor: Dr. R. Sempéré and Dr F. Galgani
- March 2013 – July 2013      **Training** at the Woods Hole Oceanographic Institution (Massachusetts, USA) – Department of Marine Chemistry and Geochemistry. Project in order to characterize the sugar component of high molecular weight dissolved organic matter (HMW-DOM) through HPLC and NMR. Supervisor Dr. D. J. Repeta
- February 2012 – March 2013      **Training** at Italian National Research Council (CNR) - Biophysics Institute (Pisa, Italy). Project: Dynamics of dissolved organic matter (DOM) in Mediterranean Sea. Supervisor: Dr. C. Santinelli
- October 2010 – September 2013      **Master's Degree** in Marine Biology (University of Pisa, Italy) Final grade: 110/110. Thesis title: “*Dynamics of dissolved organic matter (DOM) in the Gulf of Naples during summer 2012*”. Supervisor: Dr C. Santinelli
- August 2011      **Summer training** at NECTON, Marine Research Society (Eolian Islands, Italy). Courses and monitoring of marine mammals. Supervisor: Dr A. Celona
- October 2006 – July 2010      **Bachelor's Degree** in Biological Science, bioecological curriculum (Sapienza University of Rome, Italy). Final grade 101/110. Thesis title: “*The immortal jellyfish: evidence of reverse development*”. Supervisor: Prof. M. Oliverio

### PUBLICATIONS

- **Paluselli, A.**, Kim, SK. Horizontal and Vertical Distribution of phthalates ester (PAEs) in seawater and sediment of East China Sea and Korean South Sea: Traces of plastic debris? Marine Pollution Bulletin 2020, DOI: 10.1016/j.marpolbul.2019.110831

- **Paluselli, A.**, Fauvelle, V., Galgani, F., Sempere, R. Phthalate release and degradation from plastic fragments in seawater. *Environmental Science and Technology* 2019, DOI: 10.1021/acs.est.8b05083.
- **Paluselli, A.**, Fauvelle, V., Schmidt, N., Galgani, F., Net, S., Sempere, R. Distribution of phthalates in Marseille Bay (NW Mediterranean Sea). *Science of The Total Environment* 2018, DOI: 10.1016/j.scitotenv.2017.11.306.
- **Paluselli, A.**, Aminot, Y., Galgani, F., Net, S., Sempere, R. Occurrence of phthalate acid esters (PAEs) in the northwestern Mediterranean Sea and the Rhone River. *Progress In Oceanography* 2018, DOI: 10.1016/j.pocean.2017.06.002.
- Schmidt, N., Thibault, D., Galgani, F., **Paluselli, A.**, Sempéré, R. Occurrence of microplastics in surface waters of the Gulf of Lion (NW Mediterranean Sea). *Progress In Oceanography* 2018. DOI: 10.1016/j.pocean.2017.11.010.
- Net, S., Sempere, R., Delmont, A., **Paluselli, A.**, Ouddane, B. Occurrence, Fate, Behavior and Ecotoxicological State of Phthalates in Different Environmental Matrices. *Environmental Science and Technology* 2015, 49(7). DOI: 10.1021/es505233b.
- Net, S., Delmont, A., Sempere, R., **Paluselli, A.**, Ouddane, B. Reliable quantification of phthalates in environmental matrices (air, water, sludge, sediment and soil): A review. *Science of The Total Environment* 2015, DOI: 10.1016/j.scitotenv.2015.02.013.
- Castro-Jimenez, X., Barhoumi, B., **Paluselli, A.**, Tedetti, M., Jimenez, B., Munoz-Arnaz, J., Wortham, H., Driss, M., Sempere, R. Occurrence, loading and exposure of atmospheric particle-bound POPs at the African and European edges of the western Mediterranean Sea. *Environmental Science and Technology* 2017, DOI: 10.1021/acs.est.7b04614.

## CONGRESSES

- Sempéré R., Castro-Jimenez J., Galgani F., Fauvelle V., **Paluselli A.**, Panagiotopoulos C., Ourgaud M., Schmidt N., (2018). Plastics and additives in Mediterranean Sea. *Polymer and Ocean* 2018, Université de Montpellier (France).
- **Paluselli A.**, Galgani F., Sempéré R. (2015). Occurrence of phthalate esters in Mediterranean coastal Sea. Cassis (France).
- **Paluselli A.**, Galgani F., Sempéré R. (2015). Occurrence of phthalate esters in Rhone River estuary (Mediterranean coastal Sea). *International Estuarine Biogeochemistry Symposium*, Bordeaux (France).
- **Paluselli A.**, Gonnelli M., Santinelli C. (2013). Dissolved organic matter dynamics in the Gulf of Naples (Italy). *40th CIESM Congress proceedings*, Marseille (France).

## TEACHING AND OUTREACH

May 2015	Dissemination of scientific culture in secondary and high schools. Program Culture et patrimoine scientifique, Aix-Marseille Université.
May 2014	Dissemination of scientific culture in elementary and secondary schools. Program Culture et patrimoine scientifique, Aix-Marseille Université.

## FIELD EXPERIENCE

October 2018	Cruise "ISABU" on board of Korean r/v in Northwest Pacific Ocean, from October 15 <sup>th</sup> to April 30 <sup>th</sup> . I have collected and treated samples for analysis of DOC, POC and CDOM, Microplastics and zooplankton.
2018-2019	Seasonal sampling of microplastics at Korean WWTPs and Rivers.
2014-2015	Weekly sampling of marine aerosol for phthalates analysis at Endoume station (Marseille, France).
2013-2015	Monthly sampling of seawater for phthalates, microplastics DOC, POC, CDOM, nutrients and chlorophyll analysis at the Bay of Marseille, Rhone River (Arles), Rhone River plume and off shore (France).
2012-2013	Sampling along the Arno River and Tyrrhenian coastal area (Pisa, Italy).
July/August 2012	Oceanographic Cruise "GELATO2012" on board of Italian r/v at the Gulf of Naples (Italy), from July 24 <sup>th</sup> to August 2 <sup>nd</sup> . I have collected and treated samples for analysis of: DOC and CDOM; enzyme activity; flow cytometry; chlorophyll; Particulate Organic Matter; Nutrients, Oxygen.
March/April 2012	Cruise "WMED-BIOOPT2012" on board of Italian r/v in Sardinian Sea (Italy), from March 22 <sup>nd</sup> to April 11 <sup>th</sup> . I have collected and treated samples for analysis of: DOC and CDOM; enzyme activity; flow cytometry; chlorophyll; Particulate Organic Matter; Nutrients, Oxygen.

## LANGUAGES

Mother tongue	Italian
Other languages	English
	French

## LABORATORY SKILLS AND COMPETENCES and DATA ANALYSIS

Basic chemical and biological lab skills. Experience in solid phase extraction (SPE) and liquid liquid extraction (LLE) from liquid matrices and ultrasonic extraction. Experience in organic contaminants detection at trace levels in liquid and solid matrices and GC/MS, LC/MS, HPLC and HPLC/MS analysis. Experience with  $\mu$ FTIR for microplastics analysis. Experience in DOC analysis, absorption measurements, collection and processing of fluorescence spectra (emission, excitation, and matrix spectra). Water filtration and samples preparation for POC analysis and flow cytometry. The main programs I deal with for data analysis are: Ocean Data View, Sigma Plot, Matlab, Origin, Agilent Chemstation, Shimadzu GCSolution and MS Office.