

INFORMAZIONI PERSONALI

Nome: Emanuela

Cognome: Frapiccini

Data di Nascita: omissis **Luogo di**

Nascita: omissis(MC), Italy

Nazionalità: Italiana

ESPERIENZE PROFESSIONALI

- Ricercatore III livello a Tempo indeterminato presso il CNR-IRBIM (Dicembre 2018 – in corso)
- Ricercatore III livello a Tempo determinato presso il CNR-ISMAR (2017–2018)
- Assegno di Ricerca presso il CNR-ISMAR (2012–2017)
- Borsa di studio presso il CNR-ISMAR (2009–2012)

ISTRUZIONE E FORMAZIONE

- Dottorato di ricerca in Scienze della Vita e dell'Ambiente, XXXIII ciclo, Università Politecnica delle Marche (2017–2020)
- Master Universitario (II livello) in Management coastal aquatic areas and resources, Univeristà di Camerino (2016–2017)
- Laurea Specialistica in Biologia Marina e Oceanografia, Università Politecnica delle Marche (2009)

PRINCIPALI ATTIVITA'

Si occupa dello studio dei processi biogeochimici, della caratterizzazione e dell'accumulo di contaminanti organici e inorganici, in particolare gli idrocarburi e i metalli, presenti in varie matrici ambientali (sedimenti marini, colonna d'acqua, organismi marini). La sua ricerca è principalmente svolta nel Mar Adriatico, sia in ambienti marini costieri che di mare aperto. Svolge attività di laboratorio per l'estrazione e l'analisi chimica in UHPLC-FLD-DAD di idrocarburi. Partecipa a crociere oceanografiche di progetti nazionali e internazionali, per il campionamento e la gestione dei sedimenti marini e degli organismi marini, e per il prelievo dei parametri chimico-fisici della colonna d'acqua. Tutor aziendale di studenti universitari (circa 4 all'anno) e co-relatore di studenti universitari (circa 1 all'anno). Ha preso parte a gruppi di lavoro per la "Divulgazione Scientifica" delle attività del CNR-IRBIM Ancona e allo staff tecnico scientifico degli eventi "Tipicità in Blu" ed "Ocean Hackaton".

MEMBRO DI PROGETTI

- "MSFD, WP 5" Marine Strategy Framework Directive: Chemical contaminants in fish and shellfish, Ministry of Environmental fund (2015–2017);
- "ACCORDO OPERATIVO 2016 tra Consiglio Nazionale delle Ricerche – Istituto di Scienze Marine (ISMAR CNR) e Ministero dello Sviluppo Economico, Direzione Generale per la Sicurezza anche ambientale delle attività minerarie ed energetiche – Ufficio Nazionale Minerario per gli Idrocarburi e le Georisorse, (DGS-UNMIG)" (2016-2017);
- "BALMAS", Ballast water management system for Adriatic Sea protection, Italian partnership coordinator, European Strategic Project: INTERREG-IPA-CBC, (2013–2016);
- "PERSEUS", WP5, Policy-oriented marine Environmental Research for the Southern European Seas, FP7-UE (2012-2015).
- "LTER"-Italy (Long-Term Ecosystem Research) Project (2009–2018);
- "ADRICOSM-STAR", Adricosm integrated river basin and coastal zone management system: Montenegro coastal area and Bojana river catchment, Ministry of Environmental fund (2009–2010);
- "ADRICOSM-STAR II", Adricosm integrated river basin and coastal zone management system: Montenegro coastal area and Bojana river catchment, (2013–2015);
- "SOLEMON", Solea Monitoring, (2015–2019);

- “Servizi di monitoraggio ambientale piattaforme estrattive di gas metano di Eni SpA nel Mare Adriatico” (2009–2012)
- “MED-POL: MED iterranean POLLution program” UNEP-MAP (2009–2011)
- “ECOSEE/A Guardians of the Sea SI2.680401” (2014–2015)

ATTIVITA' DI REFERAGGIO

ISI Journals: *Molecules*, *Environmental Pollution*, *Ecotoxicology and Environmental Safety*, *Transactions of the American Fisheries Society*.

COOPERAZIONI SCIENTIFICHE

- NORCE, Norwegian Research Centre AS, Mekjarvik 12, 4072 Randaberg Norway

PUBBLICAZIONI:

- Basili M, Campanelli A, **Frapiccini E**, Luna GM, Quero GM (2021) Occurrence and distribution of microbial pollutants in coastal areas of the Adriatic Sea influenced by river discharge, *Environmental Pollution*, 285, 117672, <https://doi.org/10.1016/j.envpol.2021.117672>.
- Martinelli M, Gomiero A, Guicciardi S, **Frapiccini E**, Strafella P, Angelini S, Domenichetti F, Belardinelli A, Colella S (2021) Preliminary results on the occurrence and anatomical distribution of microplastics in wild populations of *Nephrops norvegicus* from the Adriatic Sea, *Environmental Pollution*, 278, 116872, <https://doi.org/10.1016/j.envpol.2021.116872>.
- Spagnoli F, De Marco R, Dinelli E, **Frapiccini E**, Frontalini F, Giordano P (2021) Sources and Metal Pollution of Sediments from a Coastal Area of the Central Western Adriatic Sea (Southern Marche Region, Italy). *Appl. Sci.* 11, 1118. <https://doi.org/10.3390/app11031118>
- Caroselli E, **Frapiccini E**, Franzellitti S, Palazzo Q, Prada F, Betti M, Goffredo S, Marini M (2020) Accumulation of PAHs in the tissues and algal symbionts of a common Mediterranean coral: Skeletal storage relates to population age structure. *Science of the Total Environment* 743, 140781.
- Rovere M, Mercorella A, **Frapiccini E**, Funari V, Spagnoli F, Pellegrini C, Bonetti AS, Veneruso T, Tassetti AN, Dell'Orso M, Mastroianni M, Giuliani G, De Marco R, Fabi G, Ciccone F, Antoncecchi I. (2020) Geochemical and geophysical monitoring of hydrocarbon seepage in the Adriatic Sea. *Sensor* 20, 1504.
- Frapiccini E**, Panfili M, Guicciardi S, Santojanni A, Marini M, Truzzi C, Annibaldi A (2020) Effect of biological factors and seasonality on the level of polycyclic aromatic hydrocarbons in red mullet (*Mullus barbatus*). *Environmental Pollution* 258, 113742.
- Frapiccini E**. et al. (2020) Microplastics and Polycyclic Aromatic Hydrocarbons Occurrence in a Demersal Fish (*Solea solea*) in the Adriatic Sea. In: Cocca M. et al. (eds) *Proceedings of the 2nd International Conference on Microplastic Pollution in the Mediterranean Sea. ICMPMS 2019*. Springer Water. Springer, Cham. https://doi.org/10.1007/978-3-030-45909-3_35
- Rovere M, Mercorella A, Spagnoli F, **Frapiccini E**, Funari V, Pellegrini C, Bonetti A, Dell'Orso M, Mastroianni M, Veneruso T, Ciccone F, Antoncecchi I, Tassetti A.N, Giuliani G, De Marco R, Fabi G (2019) Cost-effective and relocatable monitoring of hydrocarbon seepage in offshore environments. 2019 IMEKO TC19 International Workshop on Metrology for the Sea: Learning to Measure Sea Health Parameters, MetroSea2019, conference-paper EID: 2-s2.0-85081066092
- Rovere M, Mercorella A, Spagnoli F, Funari V, **Frapiccini E**, Pellegrini C, Ciccone F, Antoncecchi I, Bonetti AS, Dell'Orso M, Tassetti N, Giuliano G, De Marco R, Fabi G (2019). Cost-effective and relocatable monitoring of natural hydrocarbon seepages in the Italian offshore. In: *La geologia marina in Italia*. doi: 10.3301/ABSGI.2019.02
- Droghini E, Annibaldi A, Prezioso E, Tramontana M, **Frapiccini E**, De Marco M, Illuminati S, Truzzi C, Spagnoli F (2019) Mercury content in Central and Southern Adriatic Sea sediments in relation to seafloor geochemistry and sedimentology. *Molecules* 24, 4467

- Baldrighi E, Semprucci F, Franzo A, Cvitkovic I, Bogner D, Despalatovic M, Berto D, Formalewicz MM, Scarpato A, **Frapiccini E**, Marini M, Grego M (2019) Meiofaunal communities in four Adriatic ports: Baseline data for risk assessment in ballast water management. *Marine Pollution Bulletin* 147, 171.
- Frapiccini E**, Annibaldi A, Betti M, Polidori P, Truzzi C, Marini M (2018) Polycyclic aromatic hydrocarbon (PAH) accumulation in different common sole (*Solea solea*) tissues from the North Adriatic Sea peculiar impacted area. *Marine Pollution Bulletin* 137, 61.
- Cocci P, Mosconi G, Bracchetti L, Nalocca JM, **Frapiccini E**, Marini M, Caprioli G, Sagratini G, Palermo FA (2018) Investigating the potential impact of polycyclic aromatic hydrocarbons (PAHs) and polychlorinated biphenyls (PCBs) on gene biomarker expression and global DNA methylation in loggerhead sea turtles (*Caretta caretta*) from the Adriatic Sea. *Science of the Total Environment* 619-620, 49.
- Frapiccini E**, Scarcella G, Guicciardi S, Betti M, Marini M (2017) Comparison of Lindane and Carbaryl pesticide bioaccumulation in the Common Sole (*Solea solea*). *Bulletin of Environmental Contamination and Toxicology* 98, 656.
- Cocci P, Capriotti M, Mosconi G, Campanelli A, **Frapiccini E**, Marini M, Caprioli G, Sagratini G, Aretusi G, Palermo FA (2017) Alterations of gene expression indicating effects on estrogen signaling and lipid homeostasis in seabream hepatocytes exposed to extracts of seawater sampled from a coastal area of the central Adriatic Sea (Italy). *Marine Environmental Research* 123, 25.
- Campanelli A, Betti M, Caccamo G, **Frapiccini E**, Grilli F, Paschini E, Penna P, Marini M (2017). La struttura oceanografica della regione Adriatico Ionica. In: *Il mare Adriatico e le sue risorse*. ISBN: 978-88-95346-92-2
- Frapiccini E**, Prokofyeva E, Bondarenko A, Ruello ML, Marini M (2016) In-situ assessment of PAHs in contaminated Sea Sediments. *Communication* 10.20944/preprints 201611.0127.v1.
- Frapiccini E**, Marini M (2015) Polycyclic Aromatic Hydrocarbon degradation and sorption parameters in coastal and open-sea sediment. *Water, Air and Soil Pollution* 226, 246.
- Prokofyeva E, **Frapiccini E**, Marini M, Bondarenko A, Ruello ML (2014) Prediction of persistent organic pollutants biodegradation in contaminated marine sediments using passive sampling probes. *Journal of Environments* 1,2:60.
- Marini M, **Frapiccini E** (2014) Do lagoon area sediments act as traps for polycyclic aromatic hydrocarbons? *Chemosphere* 111, 80.
- Marini M, **Frapiccini E** (2013) Persistence of polycyclic aromatic hydrocarbons in sediments in the deeper area of the Northern Adriatic Sea (Mediterranean Sea). *Chemosphere* 90, 1839.