



# RESPONSE

# JPIOCEANS

## Communication and Dissemination Science-based knowledge in the public domain

Federica Mongera, Carola Mazzoli, Melissa Orsini, Veronica Vivani, Giulia Lucia, Michela Panni, Deborah Cesaroni, Lucia Pittura, Alessandro Nardi, Marica Mezzelani, Giuseppe d'Errico, Marta Di Carlo, Daniele Fattorini, Maura Benedetti, Stefania Gorbi, Francesco Regoli

Polytechnic University of Marche

### Scientific Dissemination and Awareness



Sharper Night



**PLASTIC WATER**  
Documentary on plastics pollution impacts

**PLASTIC WATER**  
Ciò che getti in mare ti ritorna in bocca  
Documentario

Ridotto delle Muse - ore 21:00  
Giovedì 29 settembre



**Moby Litter 2020-2022**

**MOBY LITTER**  
THE FUTURE WE DON'T WANT



**Greenpeace Campaign 2019-2022**



**"Plastic culture: art, design, environment"**

Exhibition 20th May – 31st September 2022 and workshop "Collect, sieve and recycle" at Tactile Museo Omero (Ancona) aimed to investigate and explain plastic pollution, impacts and solutions through tactile experiences



**School Educational Activities**

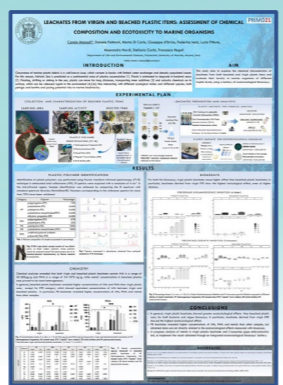
### International Symposium and Conferences

Nardi *et al.* (2022). "FROM SEA SURFACE TO SEDIMENT AND BIOTA: MICROPLASTICS ARE UBIQUITOUS IN THE MARINE ECOSYSTEM"



Nardi *et al.* (2022). "CELLULAR DISTURBANCE AND EFFECTS ON THERMAL STRESS RESPONSE IN MUSSELS EXPOSED TO SYNTHETIC AND NATURAL MICROFIBERS"

Mazzoli *et al.* (2022). POSTER "LEACHATES FROM VIRGIN AND BEACHED PLASTIC ITEMS: ASSESSMENT OF CHEMICAL COMPOSITION AND ECOTOXICITY TO MARINE ORGANISMS" granted as "Best Student Poster Presentation" award



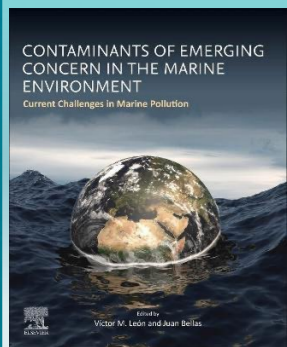
Pittura *et al.* (2022) "A MATTER OF SIZE: TOWARD AN EFFECT-BASED APPROACH FOR MICROPLASTICS RISK ASSESSMENT"

Prof. Francesco Regoli gave a talk as Invited Speaker, entitled "TOWARDS A RISK-BASED ASSESSMENT OF MICROPLASTIC POLLUTION IN MARINE ECOSYSTEMS".



Dr. Carola Mazzoli gave a talk entitled "TOXICITY OF VIRGIN PLASTICS' ITEMS COMPARED TO THOSE BEACHED ALONG THE COASTAL ENVIRONMENTS" and presenting the poster "PRELIMINARY INVESTIGATION ON THE TOXICITY OF RECYCLED PLASTIC MATERIALS AND POTENTIAL RISKS FOR THE MARINE ENVIRONMENT".

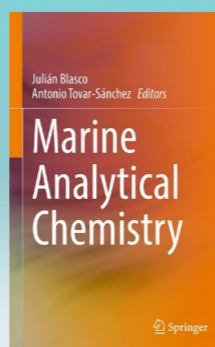
### Scientific Publications



Contaminants of Emerging Concern in the Marine Environment  
Current Challenges in Marine Pollution  
2023, Pages 311-348

Chapter 8 - Microplastics and nanoplastics in the marine environment

Lucia Pittura<sup>1</sup>, Stefania Gorbi<sup>1</sup>, Víctor M. León<sup>2</sup>, Juan Bellas<sup>3</sup>, Juan Antonio Campillo González<sup>2</sup>, Marina Albertosa<sup>2</sup>, Francesco Regoli<sup>1</sup>



Microplastics and Nanoplastics

8

Lucia Pittura, Stefania Gorbi, Carola Mazzoli, Alessandro Nardi, Maura Benedetti, and Francesco Regoli

Chapter | First Online: 03 November 2022  
239 Accesses



Do microplastic contaminated seafood consumption pose a potential risk to human health?

S.A. Vital<sup>1</sup>, C. Cardoso<sup>1</sup>, C. Avio<sup>1</sup>, L. Pittura<sup>1</sup>, F. Regoli<sup>1</sup>, M.J. Bebianno<sup>1\*</sup>

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Microplastics in seawater and marine organisms: Site-specific variations over two-year study in Giglio Island (North Tyrrhenian Sea)

Lucia Pittura<sup>1,2</sup>, Francesca Garaventa<sup>1</sup>, Elisa Costa<sup>3</sup>, Roberta Minetti<sup>1</sup>, Alessandro Nardi<sup>1</sup>, Lucia Ventura<sup>1</sup>, Silvia Morgana<sup>1</sup>, Marco Capello<sup>1</sup>, Giuseppe Unguerese<sup>1</sup>, Francesco Regoli<sup>1</sup>, Stefania Gorbi<sup>1</sup>

<sup>1</sup>Department of Life and Environmental Sciences, Polytechnic University of Marche, Ancona, Italy

<sup>2</sup>Center for the Study of Anthropogenic Impact and Sustainability in Marine Ecosystems, Italian National Research Council, Rome, Italy

<sup>3</sup>Department of Life, Environment and Geosciences, University of Göttingen, Göttingen, Germany



Cellular disturbance and thermal stress response in mussels exposed to synthetic and natural microfibers

Lucia Pittura<sup>1</sup>, Alessandro Nardi<sup>1</sup>, Mariacristina Cocca<sup>1</sup>, Francesca De Falco<sup>1</sup>, Giuseppe d'Errico<sup>1</sup>, Carola Mazzoli<sup>1</sup>, Federica Mongera<sup>1</sup>, Maura Benedetti<sup>1</sup>, Stefania Gorbi<sup>1</sup>, Maurizio Avella<sup>1</sup> and Francesco Regoli<sup>1</sup>

<sup>1</sup>Department of Science della Vita e dell'Ambiente, Università Politecnica delle Marche, Ancona, Italy

<sup>2</sup>Istituto per i Polimeri Compositi e Biomateriali (IPCBI), Consiglio Nazionale delle Ricerche (CNR), Pisa, Italy

### Scientific reports



**GREENPEACE**



"DIFENDIAMO IL MARE"  
Campagna 2020 promossa da Greenpeace Italia

"MICROPLASTICHE E MICROFIBRE IN PESCI E INVERTEBRATI CAMPIONATI NEL TIRRENO CENTRO-SETTENTRIONALE"

Report Finale giugno 2021

Plastic Litter in the Adriatic Basin

Carola Mazzoli PhD Student  
Stefania Gorbi PhD, Associated Professor

Department of Life and Environmental Science



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