

Paolo Magni

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National habilitation as a full professor (ANVUR – A05/C1 – Ecology; period: 24/11/2014-24/11/2020):

<https://asn.cineca.it/ministero.php/public/esitoAbilitati/settore/05%252FC1/fascia/1>

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Present and past positions and degrees (selection)

2006-current: Researcher at the National Research Council of Italy (CNR-IAMC, Oristano), Oristano, Italy.

2004-2006: Lecturer (not-tenured) at Sassari University, Italy.

2001-2006: Researcher at the Foundation International Marine Centre (IMC), Oristano, Italy.

1999-2000: EU Post-doctoral fellow (S&T Fellowship to Japan), Kagawa University, Japan.

1998: Ph.D. in Marine Sciences, Ehime University, Japan.

1995-1998: Teaching and Research assistant, Kagawa University, Japan.

1992: Post-graduate fellow, Netherland Institute of Ecology (NIOZ), Yerseke, The Netherlands.

1992: National habilitation as a professional biologist, Genoa University, Italy.

1991: *Laurea* degree in Biological Sciences, Genoa University, Italy.

Main research interests

- Benthic ecology, with special reference to the effect of natural factors and anthropogenic pressures on benthic macroinvertebrate assemblages in coastal marine and lagoon systems.
- Development of indicators of ecological status and environmental status in application to the European Directives (WFD; 2006/60/EC and MSFD; 2008/56).
- Food webs studies ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$ analysis), including the effect of invasive species on benthic-pelagic coupling.
- Biogeochemical processes, including the effect bioturbation of benthic macroinvertebrate on oxygen and nutrient fluxes.
- Biodiversity and Ecosystem Services.

Present and past roles and projects (selection)

- 2015-current: Intergovernmental Science-Policy Platform for Biodiversity and Ecosystem Services (IPBES) (<http://www.ipbes.net/>). Role: Lead Author for the Regional Assessment on Biodiversity and Ecosystem Services for the Asia-Pacific.
- 2008-current: Benthos Ecology Working Group (ICES-BEWG). Role: Chair-invited member. (<http://www.ices.dk/community/groups/Pages/BEWG.aspx>).
- 2013-2017: VII^o FP EU project COMMON SENSE – Cost-Effective Sensors, Interoperable With International Existing Ocean Observing Systems, To Meet EU Policies Requirements (<http://www.commonsenseproject.eu/>). Role: Steering Committee member and scientific responsible for the CNR Consortium involving 3 Institutes: (ISMAR, IAMC, ICTP).
- 2012-2016: Flagship Project RITMARE – The Italian Research for the Sea – coordinated by the Italian National Research Council and funded by the Italian Ministry of Education, University and Research (<http://www.ritmare.it/>). Role: SP3-WP5 leader (Supporting Maritime Space Planning) and SP3-WP2-AZ1 member (Coastal ecosystem functioning).
- 2012-2015: VII^o FP EU project VECTORS – Vectors of Change in Oceans and Seas Marine Life, Impact on Economic Sectors (<http://www.marine-vectors.eu/>). Role: Workpackage co-leader (WP6 – Synthesis for policymakers and stakeholders), Steering committee member and Champion for Conservation.
- 2012-2015: EU COST ACTION ES1003 EMBOS – Development and implementation of a pan-European Marine Biodiversity Observatory System (<http://www.embos.eu/>). Functions: Management Committee member.
- 2012-2015: National Strategy for the Adaptation to Climate Change for Italy – Biodiversity and Coastal Ecosystems Working Group. Italian Ministry of the Environment. Role: Expert member.
- 2010-2012: Bilateral project Italy-China of the Italian Ministry of Foreign Affairs. Role: Project coordinator (http://www.esteri.it/mae/doc_politica_estera/cultura/cooperscientificatecnologica/programmi%20esecutivi/20091125_cina_executive_programme_st_china_2010-2012.pdf). Research Area: Energy and Environment.
- Past EU funded projects: SMAP III-IMAC, BIOCOSBE, MARBENA, MAMA, ARENA. Role: scientific responsible, Workpackage (and Steering Committee member) or Task leader.

ISI papers (2012-2016)

- In press. Como, S., A. Floris, A. Pais, P. Rumolo, S. Saba, M. Sprovieri, **P. Magni**. Assessing the impact of the Asian mussel *Arcuatula senhousia* in the recently invaded Oristano Lagoon-Gulf System (Sardinia, Italy). *Estuarine, Coastal and Shelf Science*, DOI: 10.1016/j.ecss.2015.11.024.
- In press. Dal Bello and the EMBOS Consortium (2016). Consistent patterns of spatial variability between Atlantic and Mediterranean rocky shores. *Journal of the Marine Biological Association of the UK*, DOI: xx.
- In press. Hafsaoui, I., B. Draredja, R. Lasota S. Como, **P. Magni**. Population dynamics and secondary production of *Donax trunculus* (Mollusca, Bivalvia) in the Gulf of Annaba (Northeast Algeria). *Mediterranean Marine Science*, DOI: 10.12681/mms.1760.
- In press. Hummel, H. & the EMBOS Consortium. Geographic patterns of biodiversity in European coastal marine benthos. *Journal of the Marine Biological Association of the UK*, in press. DOI: 10.1017/S0025315416001119.
- In press. Kotta, J. & the EMBOS Consortium. Essence of the patterns of cover and richness of intertidal hard bottom communities: a pan-European study. *Journal of the Marine Biological Association of the UK*, DOI: 10.1017/S0025315416001351.
- In press. Puente, A. & the EMBOS Consortium. The role of physical variables in biodiversity patterns of intertidal macroalgae along European coasts. *Journal of the Marine Biological Association of the UK*, DOI: xx.
2016. Barton, J., M. Begoña González García, D. Hernández Santos, P. Fanjul-Bolado, A. Ribotti, M. McCaul, D. Diamond, **P. Magni** (2016). Screen-printed electrodes for environmental monitoring of heavy metal ions: a review. *Microchimica Acta*, 183: 503-517. DOI: 10.1007/s00604-015-1651-0.
2016. Como S., A. Pais, P. Rumolo, S. Saba, M. Sprovieri, **P. Magni** (2016). Effects of an invasive mussel, *Arcuatula senhousia*, on local benthic consumers: a laboratory ¹³C-labeling study. *Marine Biology* 163: 140. DOI: 10.1007/s00227-016-2912-0.
2016. Coppa S., G.A. De Lucia, G. Massaro, A. Camedda, S. Marra, **P. Magni**, A. Perilli, M. Di Bitetto, J.C. García-Gómez, F. Espinosa (2016). Is the establishment of MPAs enough to preserve endangered intertidal species? The case of *Patella ferruginea* in the Mal di Ventre Island (W Sardinia, Italy). *Aquatic Conservation: Marine and Freshwater Ecosystems*, 26: 623–688. DOI: 10.1002/aqc.2579.
2016. Tagliapietra D., Pessa G., Cornello M., Zitelli A., **P. Magni** (2016). Effects of the seagrass *Nanozostera noltii* on intertidal macrozoobenthic assemblages in a Mediterranean Lagoon. *Marine Environmental Research*, 114: 31–39. DOI: 10.1016/j.marenvres.2015.11.009.
2015. **Magni, P.**, B. Draredja, K. Melouah, S. Como (2015). Patterns of seasonal variation in lagoonal macrozoobenthic assemblages (Mellah lagoon, Algeria). *Marine Environmental Research*, 109: 168–176. DOI: 10.1016/j.marenvres.2015.07.005.
2014. Foti, A., G. Fenzi, F. Di Pippo, M.C. Gravina, **P. Magni** (2014). Testing the saprobity hypothesis in a Mediterranean lagoon: effects of confinement and organic enrichment on benthic communities. *Marine Environmental Research*, 99:85–94. DOI: 10.1016/j.marenvres.2014.04.004
2014. **Magni, P.**, S. Como, S. Montani, H. Tsutsumi (2014). Interlinked seasonal variation in biogenic nutrient fluxes and pore-water nutrient concentrations in intertidal sediments. *Marine Biology*, 161(12):2767-2779. DOI: 10.1007/s00227-014-2541-4.
2013. Coppa, S., G.A. de Lucia, **P. Magni**, P. Domenici, F. Antognarelli, A. Satta, A. Cucco (2013). Effect of hydrodynamics on shell orientation and population density of *Pinna nobilis* in the Gulf of Oristano (Sardinia, Italy). *Journal of Sea Research*, 76:201–210. DOI: 10.1016/j.seares.2012.09.007.
2013. Di Pippo, F., N.T.W. Ellwood, A. Gismondi, L. Bruno, F. Rossi, **P. Magni**, P. De Philippis (2013). Characterization of biofilm-forming cyanobacteria for exopolysaccharide production and potential biotechnological applications. *Journal of Applied Phycology*, 25: 1697–1708. DOI: 10.1007/s10811-013-0028-1.
2013. **Magni, P.**, S. Rajagopal, S. Como, J.M. Jansen, G. van der Velde, H. Hummel (2013). $\delta^{13}\text{C}$ and $\delta^{15}\text{N}$ variations in organic matter pools, *Mytilus* spp. and *Macoma balthica* along the European Atlantic coast. *Marine Biology* 160: 541–552. DOI: 10.1007/s00227-012-2110-7.
2012. Coppa S. G.A. De Lucia, G. Massaro, **P. Magni** (2012). Density and distribution of *Patella ferruginea* Gmelin, 1791 in a Marine Protected Area (western Sardinia, Italy): constraint analysis for population conservation. *Mediterranean Marine Science*, 13: 108-117. WOS:000306303500010.
2012. Cucco, A., M. Sinerchia, C. Le Francois, **P. Magni**, M. Ghezzi, G. Umgiesser, A. Perilli, P. Domenici (2012). Coupled empirical and numerical model of fish response to environmental changes. *Ecological Modelling*, 237-238: 132-141. DOI: 10.1016/j.ecolmodel.2012.04.019.
2012. Tagliapietra, D., M. Sigovini, **P. Magni** (2012). Saprobity: A unified view of benthic succession models for coastal lagoons. *Hydrobiologia*, 686: 15-28. DOI: 10.1007/s10750-012-1001-8.