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Born in Cagliari (November 26, 1967), Vice-President of the Italian Association of Oceanography and Limnology (2012-2013), member of the Core Group on Sediment Dynamics & Geohazards, as part of Sub-Sea & The Deep Seafloor Frontier “(DS3F), Coordination Support Action funded under the 7th Framework Programme of the European Communities (2010-2012), Vice-coordinator of the first-and second-level On Line Masters in Marine Biology provided by the Polytechnic University of Marche (from 2013), Member of the Board of Tutors of the PhD School in Science (Curriculum in Marine Biology and Ecology) Polytechnic University of Marche (since 2009), Associate Professor of Ecology at Faculty of Science of the Polytechnic University of Marche (from 2008), Member of the Didactic Commission for the Degree in Civil Protection and Environmental Control at the Faculty of Science, Polytechnic University of Marche (since 2008), Secretary of the Italian Association of Oceanology and Limnology (2007-2011), Delegate of the Italian Association of Oceanography and Limnology at the European Federation of Marine Science and Technology Societies (2006-2007), Member of the Technical Board of the ECOGOVERNANCE project, funded by the European Community under the IPA-Adriatic Scheme (2006), Member of the Didactic Commission for the Biological Sciences degree at the Faculty of Science of the Polytechnic University of Marche (2004-2008), Researcher in Ecology at the Department of Marine Sciences, Faculty of Science, University of Ancona (now Polytechnic University of Marche) (2000-2008), Award of the Faculty of Sciences University of Ancona for the original contribution to knowledge of the processes of accumulation and diagenesis of organic matter in deep sea sediments in relation to climate change (Trends in Ecology and Evolution, 2001, 16: 511-516), Scientific Tutor of the “Marine Environment Plan” nominated by the Technical Committee for Depressed Areas of the Ministry of University and Scientific and Technological Research of Italy (2000-2005), Research Fellow in Marine Ecology at the Faculty of Sciences, University of Ancona (1998-2000), Fellow of CoNISMa (National Interuniversity Consortium for Marine Sciences, Rome, Italy), Ph.D. in Marine Environmental Science (1997, University of Genoa), Fellow of the Credito Industriale Sardo (1993), Qualification as Biologist (1992, University of Cagliari), Degree in Biology Cum Laude (1991, University of Cagliari).

Since 1994, AP has participated in several national research programs funded by local and national institutions (eg, Italian Institute of Environmental Research; Italian Antarctic Research Programme, Italian Agency for the protection of the Environment) and numerous EU-funded research projects (eg HERMIONE, HERMES, MEDVEG, INTERPOL, BENGAL, CINCS).

Member of the Italian Association of Oceanography and Limnology (AIOL), the Italian Society of Ecology (S.It.E.), the Italian Society of Marine Biology (SIBM) and the American Society of Limnology and Oceanography (ASLO).

Member of the Editorial Board of the international journals: ISRN Oceanography (Hindawi), ISRN Ecology (Hindawi), Advances in Limnology and Oceanography (Taylor & Francis, UK) and Assitant Editor of the journal Chemistry & Ecology (Taylor & Francis, UK). AP has acted as reviewer for more than 40 international journal in the field of marine biology, ecology, oceanography and geochemistry.

AP has carried out his research in several marine ecosystems, from transitional aquatic ecosystems to the hadal depths. His specific studies have dealt with the trophodynamic relationships within the microbial loop (including prokaryotes and meiofauna) and ascertaining how these relationships vary in response to anthropogenic or natural disturbance, including climate change.

A.P. has authored about 90 articles in scientific journals with Impact Factor (total IF2012 >250) and more than 100 amongst communications to congresses, posters, and chapters on methodological and scientific monographs. AP scores a Hirsch factor of 22, and almost 1500 citations (source SCOPUS).

Selected Publications (2007-2013)

1. Cavallo D., **Pusceddu A.**, Danovaro R., Giangrande A. 2007. Particulate organic matter uptake rates of two benthic filter-feeders (*Sabella spallanzanii* and *Branchiommma luctuosum*) candidates for the clarification of aquaculture wastewaters. *Marine Pollution Bulletin* 54: 602-625
2. Danovaro R., **Pusceddu A.** 2007. Biodiversity and ecosystem functioning in coastal lagoons: does microbial diversity play any role? *Estuarine Coastal and Shelf Science* 75: 4-12
3. **Pusceddu A.**, Frascchetti S., Mirto S., Holmer M., Danovaro R. 2007. Effects of intensive mariculture on sediment biochemistry. *Ecological Applications* 17: 1366-1378
4. Bongiorno L., Armeni M., Corinaldesi C., Dell'Anno A., **Pusceddu A.**, Danovaro R. 2007. Viruses, prokaryotes and biochemical composition of organic matter in different types of mucilage aggregates. *Aquatic Microbial Ecology* 49:15-23
5. Danovaro R., **Pusceddu A.** 2007. Ecomanagement of biodiversity and ecosystem functioning in the Mediterranean Sea: concerns and strategies. *Chemistry and Ecology*, 23: 347-360
6. **Pusceddu A.**, Gambi C., Manini E., Danovaro R. 2007. Trophic state, ecosystem efficiency and biodiversity of transitional aquatic ecosystems: analysis of environmental quality based on different benthic indicators. *Chemistry and Ecology* 23: 1-11
7. Danovaro R., Bongiorno L., Corinaldesi C., Giovannelli D., Damiani E., Astolfi P., Greci L., **Pusceddu A.** 2008. Sunscreens Cause Coral Bleaching by Promoting Viral Infections. *Environmental Health Perspectives*, 116, 1-7
8. Dell'Anno A., **Pusceddu A.**, Langone L., Danovaro R. 2008. Early diagenesis of organic matter in coastal sediments influenced by riverine inputs. *Chemistry and Ecology* 24: 75-85
9. Bianchelli S., Gambi C., **Pusceddu A.**, Danovaro R. 2008. Trophic conditions of sediments in a deep-sea canyon in the Adriatic Sea. *Chemistry and Ecology*, 24 (Suppl. 1): 101-109
10. Covazzi Harriague A., Petrillo M., Della Croce N., Panciroli H., **Pusceddu A.**, Pelosi G., Danovaro R., Albertelli G. 2008. Intertidal benthic communities of two Chilean coastal islands (Santa María and Mocha, Southeastern Pacific). *Chemistry and Ecology* 24(Suppl. 1): 119-128
11. Holmer M., Frederiksen M., **Pusceddu A.**, Danovaro R., Mirto S., Perez M., Marbà N., Duarte C.M., Diaz-Almela E., Tsapakis M., Karakassis Y. 2008. Effects of fish-farm waste on *Posidonia oceanica* meadows: synthesis and provision of management tools. *Marine Pollution Bulletin* 56: 1618-1629
12. Sarà G., **Pusceddu A.** 2008. Scope for Growth of *Mytilus galloprovincialis* (Lmk., 1819) in oligotrophic coastal waters (southern Tyrrhenian Sea, Italy). *Marine Biology* 156:117-126
13. **Pusceddu A.**, Dell'Anno A., Fabiano M., Danovaro R. 2009. Quantity, biochemical composition and bioavailability of sediment organic matter as complementary signatures of benthic trophic status.

14. **Pusceddu A.**, Dell'Anno A, Vezzulli L, Fabiano M, Saggiomo V, Cozzi S, Catalano G, Guglielmo L. 2009. Microbial loop malfunctioning in the annual sea ice at terra Nova Bay: does sympagic algae play any role? *Polar Biology* 32: 337-346
15. Munari C., Mistri M., Manini E., **Pusceddu A.**, Danovaro R. 2009. Validation of a biotic index based on taxonomic sufficiency (BITS) in assessing the ecological status of Italian transitional waters. *Marine Ecology: an evolutionary perspective* 30: 255-268
16. Danovaro R., Corinaldesi C., Luna G.M., Magagnini M., Manini E., **Pusceddu A.** 2009. Prokaryote diversity and viral production in deep-sea sediments and seamounts systems. *Deep-Sea Research II* 56: 738-747
17. **Pusceddu A.**, Gambi C., Zeppilli D., Bianchelli S., Danovaro R. 2009. Organic matter composition, metazoan meiofauna, and nematode biodiversity in sediments of the deep Mediterranean Sea. *Deep Sea Research II* 56: 755-762
18. **Pusceddu A.**, Danovaro R. 2009. Exergy, ecosystem functioning and efficiency in a coastal lagoon: the role of auxiliary energy. *Estuarine Coastal and Shelf Science* 84: 227-236
19. Danovaro R., Fonda S., **Pusceddu A.** 2009. Climate change and the spreading of marine mucilage and pathogenic microbes in the Mediterranean Sea. *PLoS ONE* 4(9), e7006
20. Dell'Anno A., Beolchini F., Gabellini M., Rocchetti L., **Pusceddu A.**, Danovaro R. 2009. Bioremediation of petroleum hydrocarbons in anoxic marine sediments: implications on the speciation of heavy metals. *Marine Pollution Bulletin* 58, 1808-1814
21. Cerrano C., **Pusceddu A.**, Riva A., Schiaparelli S., Gambi C., Danovaro R. 2010. Effects of gorgonian forests and *Savalia savaglia* (Cnidaria, Zoanthidea) on the trophic state and biodiversity of the surrounding soft bottoms. *Biodiversity and Conservation* 19, 153-167
22. Mirto S., Bianchelli S, Krzelj M., Gambi C., **Pusceddu A.**, Scopa M., Holmer M., Danovaro R. 2010. Meiofauna response to fish farming in seagrass and soft-bottom sediments of the Mediterranean Sea. *Marine Environmental Research* 69: 38-47
23. **Pusceddu A.**, Bianchelli S., Sanchez Vidal A., Canals M., Durrieu De Madron X., Heussner S., Lykousis V., de Stigter H., Trincardi F., Danovaro R. 2010. Organic matter in sediments of canyons and open slopes in the Eastern Atlantic and Mediterranean continental margins. *Deep-Sea Research I* 57(3): 441-457
24. Gastoni A., Bianchelli S., Cau A., **Pusceddu A.** 2010. Biochemical composition of a mesobathyal decapod (*Polycheles typhlops*, Heller 1862). *Chemistry and Ecology* 26: 73-79
25. Balsamo M., Albertelli G., Ceccherelli V.U., Coccioni R., Colangelo M., Curini-Galletti M., Danovaro R., D'Addabbo R., Leonardis C., Fabiano M., Frontalini F., Gallo M., Gambi C., Guidi L., Moreno M., **Pusceddu A.**, Sandulli R., Semprucci F., Todaro A., Tongiorgi P. 2010. Meiofauna of the Adriatic Sea: current state of knowledge. *Chemistry and Ecology* 26 (Suppl. 1): 45-63
26. Danovaro R., Gambi C., Dell'Anno A., **Pusceddu A.**, Heiner I., Kristensen R.M. (2010) The first metazoan living in permanently anoxic marine sediments. *BMC Biology* 8: 30
27. Bongiorno L., Mea M., Gambi C., **Pusceddu A.**, Taviani M., Danovaro R. 2010. Deep-water corals promote higher diversity in deep-sea meiofaunal assemblages along continental margins. *Biological Conservation* 143, 1687-1700

28. Amaro T., Bianchelli S., Billett D.S.M., Cunha M.R., **Pusceddu A.**, Danovaro R. 2010. The trophic biology of the holothurian *Molpadia musculus*: implications for organic matter cycling and ecosystem functioning in a deep submarine canyon. *Biogeosciences* 7, 2419–2432
29. Luna G., Danovaro R., Vignaroli C., **Pusceddu A.**, Nicoletti L., Gabellini M., Pruzzo C., Biavasco F. 2010. Extra-intestinal *Escherichia coli* carrying virulence genes in coastal marine sediments. *Applied Environmental Microbiology* 76, 5659–5668
30. Nardelli M.P., Jorissen F.J., **Pusceddu A.**, Morigi C., Dell'Anno A., Danovaro R., De Stigter H.C., Negri A. 2010. Living benthic foraminiferal assemblages along a latitudinal transect at 1000m depth off the Portuguese margin. *Micropaleontology* 56:323-344
31. **Pusceddu A.**, Mea M., Gambi C., Bianchelli S., Canals M., Sanchez-Vidal A., Calafat A., Heussner S., Durrieu De Madron X., Avril J., Thomsen L., Garcia R., Danovaro R. (2010) Ecosystem effects of dense water formation on deep Mediterranean ecosystems: an overview. *Advances in Oceanography and Limnology* 1: 67-84.
32. Duros P., Fontanier C., Metzger E., Jorissen F.J., **Pusceddu A.**, Cesbron F., S. Bianchelli, Danovaro A., de Stigter H.C. 2011. Live (stained) benthic foraminifera in the Whittard Canyon, Celtic margin (NE Atlantic). *Deep Sea Research I*, 58:128-146
33. Bo M., Bertolino M., Borghini M., Castellano M., Covazzi Harriague A. , Di Camillo C.G., Gasparini G.P, Misic C., Povero P., **Pusceddu A.**, Schroeder K., Bavestrello G. Characteristics of the mesophotic megabenthic assemblages of the Vercelli Seamount (North Tyrrhenian Sea), *Plos One*, e16357
34. Sarà G., Lo Martire M., Sanfilippo M., Pulicanò G., Cortese G., Mazzola A., Manganaro A., **Pusceddu A.** 2011. Impacts of marine aquaculture at large spatial scales: evidences from N and P catchment loading and phytoplankton biomass. *Marine Environmental Research*, 71: 317-324
35. **Pusceddu A.**, Bianchelli S., Gambi C., Danovaro R. (2011) Assessment of benthic trophic status of marine coastal ecosystems: significance of meiofaunal rare taxa. *Estuarine and Coastal Shelf Science*, 93: 420-430
36. van Oevelen D., Soetaert, K., García Novoa R., de Stigter H., da Cunha M., **Pusceddu A.**, Danovaro R. 2011. Canyon conditions impact carbon flows in food webs of three sections of the Nazaré canyon. *Deep-Sea Research II*, 58(23-24): 2461-2476
37. Bongiorno L., Giovannelli D., Rinkevich B., **Pusceddu A.**, Chou L.M., Danovaro R. 2011. First step in the restoration of a highly degraded coral reef (Singapore) by in situ coral intensive farming. *Aquaculture*, 322-323: 191-200
38. **Pusceddu A.**, Della Patrona L., Beliaeff B. 2011. Trophic status of earthen ponds used for semi-intensive shrimp (*Litopenaeus stylirostris*, Stimpson, 1874) farming in New Caledonia (Pacific Ocean). *Marine Environmental Research*, 72: 160-171
39. Phipps M., Jorissen M., **Pusceddu A.**, Bianchelli S., De Stigter H. 2012. Live benthic foraminiferal faunas along a bathymetrical transect (282-4987 m) on the Portuguese Margin (NE Atlantic). *Journal of Foraminiferal Research*, 42: 66-81
40. Sabbatini A., Bonatto S., Bianchelli S., **Pusceddu A.**, Danovaro R., Negri A. 2012. Foraminiferal assemblages and trophic state in coastal sediments of the Adriatic Sea. *Journal of Marine Systems* 105-108: 163-174.
41. Bo M. , Canese S., Spaggiari C., **Pusceddu A.**, Bertolino M., Angiolillo M., Giusti M., Loreto M.F.,

- Salvati E., Greco S., Bavestrello G. 2012. Deep Coral Oases in the South Tyrrhenian Sea. *PLoS One* 7: e 49870
42. Della Patrona L., Beliaeff B., Bianchelli S., **Pusceddu A.** 2012. Meiofauna and protist response to shrimp farming in earthen ponds in New Caledonie. *Chemistry and Ecology* 6: 506-523.
 43. Covazzi Harriague A., Mistic C., Valentini I., Polidori E., Albertelli G., **Pusceddu A.** 2013. Meio- and macrofauna communities in three sandy beaches of the northern Adriatic Sea protected by artificial reefs. *Chemistry and Ecology*, 29181-195
 44. Luna G., Corinaldesi C., Dell'Anno A., **Pusceddu A.**, Danovaro R. 2012. Impact of aquaculture on benthic virus-prokaryote interactions in the Mediterranean Sea. *Water Research*, 47, 1156-1168
 45. Cerrano C., Cardini U., Bianchelli S., Corinaldesi C., **Pusceddu A.**, Danovaro R. 2013. Red coral extinction risk enhanced by ocean acidification. *Nature Scientific Reports* 3: 1457, 1-7.
 46. **Pusceddu A.**, Mea M., Canals M., Heussner S., Durrieu de Madron X., Sanchez-Vidal A., Bianchelli S., Corinaldesi C., Dell'Anno A., Thomsen L., Danovaro R. 2012. Deep-sea benthic ecosystem collapse and recovery after an intense Dense Shelf Water Cascading event. *Biogeosciences*, 10, 1-12
 47. Marincioni F., Appiotti F., **Pusceddu A.**, Byrne K. 2013. Enhancing resistance and resilience to disasters with microfinance: parallels with ecological trophic systems. *International Journal of Disaster Risk Reduction* 4:52-62
 48. Dell'Anno A., **Pusceddu A.**, Corinaldesi C., Canals M., Heussner S., Thomsen L., Danovaro R. 2012. Trophic state of benthic deep-sea ecosystems from two different continental margins off Iberia. *Biogeosciences* 10, 2945-2957
 49. Danovaro R., Carugati L., Corinaldesi C., Gambi C., Guilini K., **Pusceddu A.**, Vanreusel A. 2013. Multiple spatial scale analyses provide new clues on patterns and drivers of deep-sea nematode diversity. *Deep Sea Research II*, in press
 50. López Fernández P., Bianchelli S., **Pusceddu A.**, Calafat A., Sanchez-Vidal A., Danovaro R. 2013. Bioavailability of sinking organic matter in the Blanes canyon and the adjacent open slope (NW Mediterranean Sea). *Biogeosciences* in press
 51. López Fernández P., Bianchelli S., **Pusceddu A.**, Calafat A., Danovaro R., Canals M. 2013. Bioavailable compounds in sinking particulate organic matter, Blanes Canyon, NW Mediterranean Sea: effects of a large storm and sea surface biological processes. *Progress in Oceanography*, in press
 52. Bianchelli S., **Pusceddu A.**, Canese S., Greco S., Danovaro R. 2013. High meiofaunal and nematodes diversity around mesophotic coral oases in the Mediterranean Sea. *PLoS One*, in press