

Prof. Antonio Terlizzi, PhD

Curriculum Vitae et Studiorum

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• **EDUCATION**

2003 - PhD Basic Ecology (University of Lecce, Italy)

1992 - Msc Marine Biology (University of Napoli 'Federico II', Italy)

• **CURRENT POSITION**

Full Professor in Zoology and Marine Biology, University of Trieste. Responsible of the Zoology and Marine Biology Lab at the Department Life Sciences (DSV) (aterlizzi@units.it).

Research fellow at the Stazione Zoologica Anton Dohrn, Naples (antonio.terlizzi@szn.it)

• **PREVIOUS POSITIONS AND ACADEMIC QUALIFICATIONS**

2013 – **Italian National Scientific qualification** (ASN) as full professor in Ecology (SSD BIO/07, Ecologia)

2012 – **Italian National Scientific qualification** (ASN) as full professor in Zoology (SSD BIO/05, Zoologia)

2010-2016 - **Associate Professor** at the University of Salento, Lecce, Italy

2004-2010 - **Senior lecturer** at the University of Salento, Lecce, Italy

2001-2004 - **Lecturer in Zoology** at the University of Salento, Lecce, Italy

1998-2001 - **Research assistant** at the University of Salento, Lecce, Italy

1995-1998 - **Research assistant** at the Stazione Zoologica Anton Dohrn, Napoli

1994-1995 - **Research Grant** at the National Council of Research (CNR), Genoa, Italy

• **FELLOWSHIPS AND AWARDS**

1993 - "Taramelli" National Award for the best marine biology thesis in Italy for the academic years 89/90 and 90/91 announced by the University "La Sapienza" of Rome

• **BIOSKETCH**

The core of my research activity is marine diversity at different levels of biological hierarchy and the quantification of spatial and distributional patterns of species, species assemblages and habitats, mostly in relation to human impacts and mitigation interventions. I have worked in the intertidal and subtidal rocky habitats, mangroves, seagrasses, deep sea and submerged marine caves. The study of marine fouling allowed me to clarify the biological mechanisms determining sexual anomalies in prosobranch molluscs and how such anomalies can be used as a large-scale biomonitoring tool of marine pesticide pollution. I also contributed, with important applied implications, to describe the role played by the nature and complexity of the substrate in determining patterns of invertebrate settlement and recruitment, as well as temporal evolution of sessile assemblages. The grazing activity by echinoids as a potential tool for controlling fouling in aquaculture is also a research topic I developed.

In benthic environments my research activity concerned the biodiversity of interstitial, vagile and sessile fauna and was focused on how the quantification of changes in spatio-temporal patterns of species assemblages can be adopted in rigorous procedures of experimental monitoring of ecosystem health. Some of the most widespread procedures of experimental design and data

analyses in environmental impact assessment have been elaborated and improved by me and, for the first time, extended from the univariate to the multivariate context.

The sources of disturbances I considered are destructive fishing, sewage discharges, harbours and marinas, marine cage aquaculture, offshore gas platforms, human trampling and invasive species. I also contributed to highlight how the institution of Marine Protected Areas can act on benthic biodiversity and how mitigation interventions can influence ecosystem properties of recovery from perturbation events. A crucial point of my activity is to bring together complex experimental designs and an adequate taxonomic definition of the response variables. In this framework an important component of my study was to focus on the applicability of synthetic indices of biodiversity, on the importance of taxonomy in environmental impact studies and on the choice of appropriate indicators and of the sufficient level of taxonomy in procedures of routine monitoring of spatial and temporal patterns of alpha and beta levels of biodiversity.

More recently, I have been strongly concerned with the definition of a subtle, poorly explored forms of marine pollution, namely the entry of natural substances produced by invasive alien species and the subsequent potential impacts on marine trophic webs.

I am actively involved, often as project/task leader, in national (e.g., National Coordinator for PRIN 2009 and PRIN 2012) and international research programs (e.g. Life+ SharkLife, FP7 PERSEUS, FP7 CoCoNet, Life CleanSea) and consultancies (e.g. ENI, Italian and French Marine Protected Areas) for environmental impact assessment and monitoring.

I am an associate member of the CoNISMa, an Italian Consortium of 32 Universities that promotes research and scientific activities and their applications in the field of Marine Sciences.

I have been member of the EU FP6 network of excellence MARBEF (Marine Biodiversity and Ecosystem Functioning) and I actively collaborate in the EU EUROMARINE and MARS networks. I have been member of the IUCN's World Commission on Protected Areas - Marine (WCPA - MMED) and I represent the CoNISMa in the EMBRC (the EU Marine Biological Resource Center). I have active collaboration with the Hopkins Marine Station, University of Stanford (USA), University of Oslo (Norway) and New Zealand Institute for Advanced Study (NZIAS), University of Auckland.

Since 2001 I gave undergraduate and PhD courses in Zoology, Applied Zoology and Experimental Marine Ecology at the University of Salento, Lecce, Italy. Since 2017 I'm responsible of the courses in General Zoology and Marine Biology at the University of Trieste.

Since 2002 I have tutored 49 Master students, 9 PhD and 4 post doc at the University of Salento, Lecce Italy. I also co-tutored 1 Master student from CNRS-EPHE CRIOBE, France and 3 PhD from University of Coimbra, Portugal, University of the Basque Country, Spain and Universidad de Córdoba, Spain). In 2013 I have been an ordinary member of the committee for the evaluation of a PhD thesis at the University of Oslo (NW). Since 2017 I'm the vice-coordinator of the PhD in "Environment and Life" at the University of Trieste where I'm tutoring 3 PhD students

Since 2001 I have been invited to give scientific seminars in various Italian Universities (e.g. Bologna, Palermo, Naples, Trieste) and research Institutions (e.g. CNR). Invited seminars were also given during research staying at the University of Auckland (NZ) and University of Oslo (NW).

I have organized 4 international courses of statistics, for the Design and Analyses of Biological Experiments and Multivariate Methods for Ecologists:

1999 – Lecce: *Design and analysis of biological experiments* (Faculty: AJ Underwood, MG Chapman);

2000 – Lecce: *Design and analysis of biological experiments: an advanced Course* (Faculty: AJ Underwood, MG Chapman);

2003 – Lecce: *Detecting multivariate changes in biological assemblages: experimental design and data analysis* (Faculty: KR Clarke, PJ Somerfield, L Benedetti-Cecchi, MJ Anderson).

2019 – Trieste: Primer v.7 and PERMANOVA+ Courses (Faculty: P Somerfield, MJ Anderson)

I am actively involved in editorial activity of 31 ISI journals as a component of the board of referee, and I am a component of the editorial board of *The European Zoological Journal*.

I am also involved as reviewer for National (MIUR - Ministry of University and Scientific and Technological Research) and International Research Proposal (Florida State University, CNRS, Agency for Science, Technology and Research – Singapore, FCT, Portugal).

From 2011 to 2014 I have been an Elected member of the Fauna Commission and, from 2014 to 2017, elected member of the Didactic Commission of the Italian Zoological Union (UZI). From 2012 to 2017 I have been an Elected member of the Benthic Committee of the Italian Society of Marine Biology (SIBM) and, in the SIBM, I'm presently elected member of the Main Board. I'm currently an elected member of the Departments' council of the Stazione Zoologica Anton Dohrn, Naples.

From 2012 to 2016 I was assigned by the Rector of the University of Salento, to the University committee for the Research. Since 2016 I lead the Marine Biology lab at the Dept. of Life Sciences, University of Trieste, where I also act as delegate of the Director for research and coordinate the PhD program in Environment and Life.

In 2015 and in 2020 I have been selected by the *The Italian National Agency for the Evaluation of Universities and Research Institutes (ANVUR)* as a member of *Groups of Experts of Evaluation (GEV 5 - Biology)* in the national research assessment exercise (Valutazione della Qualità della Ricerca, VQR 2011-2014, 2014-2019).

Publications and metrics

Antonio Terlizzi is author/co-author of **145** publications, of which **12** peer-reviewed book chapters, **1** monograph, **113** papers on ISI journals with IF and a total IF=**312,7**. *Google Scholar* (<http://scholar.google.it/citations>) (accessed Oct, 2020) reports a total of **5581** citations of his papers (**2500** since 2015), with an *H-index*=**43** and a *i10index*=**100**. Such scores placed him in the list of the Top Italian Scientists in Natural and Environmental Sciences (<http://www.topitalianscientists.org>)

National and international peer-reviewed book chapters

1. Frascchetti S, **Terlizzi A** (2001). *Analisi dei dati ecologici e impatto ambientale*. In: Danovaro, R. (ed.) *Recupero ambientale Tecnologie, Bioremediation e Biotecnologie* UTET, 120-133
2. Benedetti-Cecchi L, Frascchetti S, **Terlizzi A** (2003). *Analisi sperimentale di ipotesi*. In: Cicogna F, Bianchi CN, Ferrari G, Forti P (eds) *Grotte Marine: Cinquant'anni di ricerche in Italia*. Ministero dell'Ambiente e della Tutela del Territorio, 347-351
3. Bianchi CN, Pronzato R, Cattaneo-Vietti R, Benedetti-Cecchi L, Morri C, Pansini M, Chemello R, Milazzo M, Frascchetti S, **Terlizzi A**, Peirano A, Salvati E, Benzoni F, Calcinaï B, Cerrano C, Bavestrello G (2003). *I fondi duri*. In: Gambi MC, Dappiano M (eds), *Manuale di metodologie di campionamento e studio del benthos marino Mediterraneo. Biologia Marina Mediterranea* 10 (Suppl. 1): 199-232
4. Benedetti-Cecchi L, Airoidi L, Frascchetti S, **Terlizzi A** (2003). *Metodi sperimentali per la valutazione di influenze antropiche su popolamenti ed ambienti marini costieri* In: Gambi MC, Dappiano M (eds), *Manuale di metodologie di campionamento e studio del benthos marino Mediterraneo. Biologia Marina Mediterranea* 10 (Suppl. 1): 485-508
5. Bianchi CN, Pronzato R, Cattaneo-Vietti R, Benedetti-Cecchi L, Morri C, Pansini M, Chemello R, Milazzo M, Frascchetti S, **Terlizzi A**, Peirano A, Salvati E, Benzoni F, Calcinaï B, Cerrano C, Bavestrello G (2004). *Hard bottoms*. In: Gambi MC, Dappiano M (eds), *Mediterranean marine benthos: a manual of methods for its sampling and study. Biologia Marina Mediterranea* 11 (Suppl. 1): 185-215
6. Benedetti-Cecchi L, Airoidi L, Frascchetti S, **Terlizzi A** (2004). *Experimental methods for the assessment of anthropogenic impact on assemblages and coastal marine environments*. In: Gambi MC, Dappiano M (eds), *Mediterranean marine benthos: a manual of methods for its sampling and study. Biologia Marina Mediterranea* 11 (Suppl. 1): 457-479
7. **Terlizzi A**, Schiel DR (2009). Diversity patterns along environmental gradients. In: Wahl M (ed). *Marine Hard Bottom Communities*. Springer Verlag, Berlin Heidelberg, Germany. pp. 101-112.
8. **Terlizzi A**, Faimali M (2010). *Biofouling Processes in Industry - Fouling on artificial substrata*. In: Dürr S, Thomason JC (eds). *Biofouling*. Blackwell Publishing. pp. 170-184.
9. Butler AJ, Canning-Clode J, Coutts ADM, Cowie PR, Dobretsov S, Dürr S, Faimali M, Lewis JA, Page HM, Pratten J, Ready D, Rittschof D, Spratt DA, **Terlizzi A**, Thomason JC (2010). *Techniques for the quantification of biofouling*. In: Dürr S, Thomason JC (eds). *Biofouling*. Blackwell Publishing. pp. 319-332.
10. **Terlizzi A**, Tedesco P, Patarnello P (2012) *Spread of Pathogens from Marine Cage Aquaculture - A Potential Threat for Wild Fish Assemblages Under Protection Regimes?* In Carvalho ED, David GS, Silva RJ (eds.) *Health and Environment in Aquaculture*. InTech: 403-414 ISBN: 978-953-51-0497-1
11. Piccardo M, Fellingine S, **Terlizzi A** (2018) *Preliminary assessment of microplastic accumulation in wild Mediterranean species*. In: Cocca et al. (eds.), *Proceedings of the International Conference on Microplastic Pollution in the Mediterranean Sea*, Springer Water, https://doi.org/10.1007/978-3-319-71279-6_16

12. Benedetti-Cecchi L, Airoidi L, Bulleri F, Fraschetti S, **Terlizzi A** (2019) *Interactions in intertidal and subtidal habitats of the Mediterranean Sea*. In: Hawkins et al. (eds.) *Chapter 8: Interactions in the Marine Benthos – Global Patterns and Processes*. Cambridge

Monographs

1. Scuderi D, **Terlizzi A** (2012) *Manuale di Malacologia dell'Alto Jonio*. Edizioni Grifo, 188 pp, ISBN 9788896801956

ISI Journals with IF

1. **Terlizzi A**, Geraci S, Minganti V (1998). Tributyltin (TBT) pollution in the coastal waters of Italy as indicated by Imposex in *Hexaplex trunculus* (Gastropoda, Muricidae). *Marine Pollution Bulletin* 36: 749-752
2. **Terlizzi A**, Geraci S, Gibbs PE (1999) Tributyltin (TBT)-induced imposex in the Neogastropod *Hexaplex trunculus* in Italian coastal waters: morphological aspects and ecological implications. *The Italian Journal of Zoology* 66: 141-146
3. **Terlizzi A**, Conte E, Giangrande A (2000). Settlement pattern of two Spirorbidae (Polychaeta) species in the harbour of Ischia (Gulf of Naples, Mediterranean Sea). *The Italian Journal of Zoology* 67: 303-306
4. **Terlizzi A**, Conte E, Zupo V, Mazzella L (2000). Biological succession on silicone fouling-release surfaces: long-term exposure tests in the harbour of Ischia, Italy. *Biofouling* 15: 327-342
5. Swain G, Anil AC, Baier RE, Chia F, Conte E, Cook A, Hadfield M, Haslbeck E, Holm E, Kavanagh C, Kohrs D, Kovach B, Lee C, Mazzella L, Meyer AE, Qian PY, Sawant SS, Schultz M, Sigurdsson J, Smith C, Soo L, **Terlizzi A**, Wagh AB, Zimmerman R, Zupo V (2000). Biofouling and Barnacle Adhesion Data for Fouling-Release Coatings Subjected to Static Immersion at Seven Marine Sites. *Biofouling* 16: 331-344
6. Fraschetti S, Bianchi CN, **Terlizzi A**, Fanelli G, Morri C, Boero F (2001). Spatial variability and human disturbance in shallow subtidal hard substrate assemblages: a regional approach. *Marine Ecology-Progress Series* 212: 1-12
7. **Terlizzi A**, Fraschetti S, Gianguzza P, Faimali M, Boero F (2001). Environmental impact of antifouling technologies: state of art and perspectives. *Aquatic Conservation: Marine and Freshwater Ecosystems* 11: 311-317
8. Guidetti P, Fanelli G, Fraschetti S, **Terlizzi A**, Boero F (2002). Coastal fish indicate human-induced changes in the Mediterranean littoral. *Marine Environmental Research* 53: 77-94
9. **Terlizzi A**, Fraschetti S, Guidetti P, Boero F (2002). The effects of sewage discharge on shallow hard bottom sessile assemblage. *Marine Pollution Bulletin* 44: 542-548
10. Fraschetti S, Giangrande A, **Terlizzi A**, Miglietta MP, Della Tommasa L, Boero F (2002). Spatio-temporal variation of hydroids and polychaetes associated to *Cystoseira amentacea* (Fucales, Phaeophyceae). *Marine Biology* 140: 949-957
11. Giangrande A, Fraschetti S, **Terlizzi A** (2002). Local recruitment differences in *Platyneris dumerilii* (Polychaeta: Nereididae) and their consequences for population structure. *The Italian Journal of Zoology* 69: 133-139
12. Russo GF, Fraschetti S, **Terlizzi A** (2002). Population ecology and production of *Bittium latreillii* (Gastropoda, Cerithidae) in a *Posidonia oceanica* seagrass bed. *The Italian Journal of Zoology* 69: 215-222
13. Fraschetti S, **Terlizzi A**, Micheli F, Benedetti-Cecchi L, Boero F (2002). Marine Protected Areas in the Mediterranean: objectives effectiveness and monitoring. *Marine Ecology* 23 (suppl. 1): 190-200
14. Guidetti P, **Terlizzi A**, Fraschetti S, Boero F (2002). Spatio-temporal variability in fish assemblages associated with coralligenous formations in south-eastern Apulia (SE Italy). *The Italian Journal of Zoology* 69: 325-331

15. **Terlizzi A**, Scuderi D, Frascchetti S, Guidetti P, Boero F (2003). Molluscs on subtidal cliffs: patterns of spatial distribution. *Journal of Marine Biological Association of the United Kingdom* 83: 165-172
16. **Terlizzi A**, Bevilacqua S, Frascchetti S, Boero F (2003). Taxonomic sufficiency and the increasing insufficiency of taxonomic expertise. *Marine Pollution Bulletin* 46: 556-560
17. Frascchetti S, Giangrande A, **Terlizzi A**, Boero F (2003). Pre- and post-settlement events in hard- and soft-bottom community dynamics. *Oceanologica Acta* 25: 285-296
18. Guidetti P, **Terlizzi A**, Frascchetti S, Boero F (2003). Changes in Mediterranean rocky-reef fish assemblages exposed to sewage pollution. *Marine Ecology-Progress Series* 253: 269-278
19. Giangrande A, Delos AL, Frascchetti S, Musco L, Licciano M, **Terlizzi A** (2003). Polychaete assemblages of rocky shore along the South Adriatic coast (Mediterranean Sea): pattern of spatial distribution. *Marine Biology* 143: 1109-1116
20. Guidetti P, Frascchetti S, **Terlizzi A**, Boero F (2003). Distribution patterns of sea urchin and barren in shallow Mediterranean rocky reefs impacted by the illegal fishery of the rock-boring mollusc *Lithophaga lithophaga*. *Marine Biology* 143: 1135-1142
21. **Terlizzi A**, Delos AL, Garaventa F, Faimali M, Geraci S (2004). Limited effectiveness of Marine Protected Areas: imposex in *Hexaplex trunculus* (Gastropoda, Muricidae) populations from Italian marine reserves. *Marine Pollution Bulletin* 48: 186-190
22. Guidetti P, **Terlizzi A**, Boero F (2004). Effects of the edible sea urchin, *Paracentrotus lividus*, fishery along the Apulian rocky coast (SE Italy, Mediterranean Sea). *Fisheries Research* 66: 287-297
23. Boero F, Belmonte G, Bussotti S, Fanelli G, Frascchetti S, Giangrande A, Gravili C, Guidetti P, Pati A, Piraino S, Rubino F, Saracino OD, Schmich J, **Terlizzi A**, Geraci S (2004). From biodiversity and ecosystem functioning to the roots of ecological complexity. *Ecological Complexity* 2: 101-109
24. Faimali M, Garaventa F, **Terlizzi A**, Chiantore M, Cattaneo-Vietti R (2004). The interplay of substrate nature and biofilm formation in regulating *Balanus amphitrite* Darwin, 1854 larval settlement. *Journal of Experimental Marine Biology and Ecology* 306: 37-50
25. Guidetti P, Frascchetti S, **Terlizzi A**, Boero F (2004). Desertification caused by *Lithophaga lithophaga* (Mollusca) fishery along Apulian rocky coasts (SE Italy, Mediterranean Sea): effects on littoral fish assemblages. *Conservation Biology* 18: 1417-1423
26. Frascchetti S, **Terlizzi A**, Bussotti S, Guarnieri G, D'Ambrosio P, Boero F (2005). Conservation of Mediterranean seascapes: analyses of existing protection schemes. *Marine Environmental Research* 59: 309-332
27. **Terlizzi A**, Benedetti-Cecchi L, Bevilacqua S, Frascchetti S, Guidetti P, Anderson MJ (2005). Multivariate and univariate asymmetrical analyses in environmental impact assessment: a case study of Mediterranean subtidal sessile assemblages. *Marine Ecology-Progress Series* 289: 27-42
28. Frascchetti S, **Terlizzi A**, Benedetti-Cecchi L (2005). Patterns of distribution of rocky marine assemblages: evidence of relevant scales of variation. *Marine Ecology-Progress Series* 296: 13-29
29. **Terlizzi A**, Scuderi D, Frascchetti S, Anderson MJ (2005). Quantifying effects of pollution on biodiversity: a case study of highly-diverse molluscan assemblages in the Mediterranean. *Marine Biology* 148: 293-305
30. Garaventa F, Pellizzato F, Faimali M, **Terlizzi A**, Medakovic D, Geraci S, Pavoni B (2006). Imposex in *Hexaplex trunculus* at some sites of the north Mediterranean coast as a baseline for future evaluation of the effectiveness of the total ban of organotin based antifouling paints. *Hydrobiologia* 555: 281-287
31. Frascchetti S, Gambi C, Giangrande A, Musco L, **Terlizzi A**, Danovaro R (2006). Structural and functional response of meiofauna rocky assemblages to sewage pollution. *Marine Pollution Bulletin* 52: 540-548
32. Garaventa F, Faimali M, **Terlizzi A** (2006). Imposex in Pre-pollution times. Is TBT to blame? *Marine Pollution Bulletin* 52: 703-704

33. Bevilacqua S, **Terlizzi A**, Frascchetti S, Russo GF, Boero F (2006). Mitigating human disturbance: can protection influence trajectories of recovery in benthic assemblages? *Journal of Animal Ecology* 75: 908-920
34. Frascchetti S, **Terlizzi A**, Bevilacqua B, Boero F (2006). The distribution of hydroids (Cnidaria, Hydrozoa) from micro- to macro-scale: Spatial patterns on habitat-forming algae. *Journal of Experimental Marine Biology and Ecology* 339: 148-158
35. Bussotti S, **Terlizzi A**, Frascchetti S, Belmonte G, Boero F (2006). Spatial and temporal variability of sessile benthos in shallow Mediterranean marine caves. *Marine-Ecology Progress Series* 325: 109-119
36. **Terlizzi A**, Anderson MJ, Frascchetti S, Benedetti-Cecchi L (2007). Scales of spatial variation in Mediterranean subtidal sessile assemblages at different depths. *Marine-Ecology Progress Series* 332: 25-39
37. Cannicci S, Gomei M, Dahdouh-Guebas F, Rorandelli R, **Terlizzi A** (2007). Influence of seasonal abundance and food quality on the feeding habits of an opportunistic feeder, the intertidal crab *Pachygrapsus marmoratus*. *Marine Biology* 151: 1331-1342
38. Garaventa F, Centanni E, Pellizzato F, Faimali M, **Terlizzi A**, Pavoni B (2007). Imposex and accumulation of organotin compounds in populations of *Hexaplex trunculus* (Gastropoda, Muricidae) from the Lagoon of Venice (Italy) and Istrian Coast (Croatia). *Marine Pollution Bulletin* 54: 614-621
39. Rossi F, Forster R, Montserrat F, Ponti M, **Terlizzi A**, Ysebaert T, Middelburg JJ (2007). Human trampling as short-term disturbance on intertidal mudflats: effects on macrofauna biodiversity and population dynamics of bivalves. *Marine Biology* 151: 2077-2090
40. Di Carlo G, Badalamenti F, **Terlizzi A** (2007). Recruitment of *Posidonia oceanica* on rubble mounds: substratum effects on biomass partitioning and leaf morphology. *Aquatic Botany* 87: 97-103
41. Denitto F, **Terlizzi A**, Belmonte G (2007). Settlement and primary succession in a shallow submarine cave: spatial and temporal benthic assemblage distinctness. *Marine Ecology* 28 (suppl. 1): 35-46. doi:10.1111/j.1439-0485.2007.00172.x
42. Licciano M, **Terlizzi A**, Giangrande A, Cavallo RA, Stabili L (2007). Filter-feeder macroinvertebrates as key players in bacterioplankton biodiversity control: a case of study with *Sabella spallanzanii* (Polychaeta: Sabellidae). *Marine Environmental Research* 64: 504-513. DOI 10.1016/j.marenvres.2007.04.004
43. **Terlizzi A**, Bevilacqua S, Scuderi D, Fiorentino D, Guarnieri G, Giangrande A, Licciano M, Felling S, Frascchetti S (2008). Effects of offshore platforms on soft-bottom macro-benthic assemblages: a case study in a Mediterranean gas field. *Marine Pollution Bulletin* 56: 1303-1309. DOI 10.1016/j.marpolbul.2008.04.024
44. Frascchetti S, **Terlizzi A**, Boero F (2008). How many habitats are there in the sea (and where)? *Journal of Experimental Marine Biology and Ecology* 366: 109-115. DOI 10.1016/j.jembe.2008.07.015
45. Garaventa F, Centanni E, Fiorini S, Noventa S, **Terlizzi A**, Faimali M, Pavoni B (2008). New implications in the use of imposex as a suitable tool for Tributyltin contamination: experimental induction in *Hexaplex trunculus* (Gastropoda, Muricidae) with different stressors. *Cell Biology and Toxicology* 24: 563-571. DOI 10.1007/s10565-008-9065-y
46. Frascchetti S, D'Ambrosio P, Micheli F, Pizzolante F, Bussotti S, **Terlizzi A** (2009). Design of Marine Protected Areas in a human-dominated seascape. *Marine Ecology-Progress Series* 375: 13-24. DOI: 10.3354/meps07781
47. **Terlizzi A**, Anderson MJ, Bevilacqua S, Frascchetti S, Włodarska-Kowalczyk M, Ellingsen KE (2009). Beta diversity and taxonomic sufficiency: do higher-level taxa reflect heterogeneity in species composition? *Diversity and Distributions* 15: 450-458. DOI: 10.1111/j.1472-4642.2008.00551.x
48. Bevilacqua S, Frascchetti S, **Terlizzi A**, Boero F (2009). The use of taxonomic distinctness indices in assessing patterns of biodiversity in modular organisms. *Marine Ecology* 30: 151-163. DOI: 10.1111/j.1439-0485.2008.00270.x
49. Musco L, **Terlizzi A**, Licciano M, Giangrande A (2009). Taxonomic structure and the

effectiveness of surrogates in environmental monitoring: a lesson from polychaetes. *Marine Ecology-Progress Series* 383: 199-210. DOI: 10.3354/meps07989

50. Guarnieri G, **Terlizzi A**, Bevilacqua S, Frascchetti S (2009). Local vs. Regional effects of substratum on early colonization stages of sessile assemblages. *Biofouling* 7: 593-604. DOI: 10.1080/08927010903013656
51. Bevilacqua S, Frascchetti S, Musco L, **Terlizzi A** (2009). Taxonomic sufficiency in the detection of natural and human-induced changes in marine assemblages: a comparison of habitats and taxonomic groups. *Marine Pollution Bulletin* 58: 1850-1859. DOI:10.1016/j.marpolbul.2009.07.018
52. Vandepitte L, Vanhoorne B, Kraberg A, Anisimova N, Antoniadou C, Araújo R, Bartsch I, Beker B, Benedetti-Cecchi L, Bertocci I, Cochrane S, Cooper K, Craeymeersch J, Christou E, Crisp DJ, Dahle S, de Boissier M, de Kluijver M, Denisenko S, De Vito D, Duineveld G, Escaravage V, Fleischer D, Frascchetti S, Giangrande A, Heip C, Kummel H, Janas U, Karez R, Kedra M, Kingston P, Kuhlenkamp R, Libes M, Martens P, Mees J, Mieszkowska N, Mudrak S, Munda I, Orfanidis S, Orlando-Bonaca M, Palerud R, Rachor E, Reichert K, Rumohr H, Schiedek D, Schubert P, Sisternans WCH, Sousa-Pinto I, Southward AJ, **Terlizzi A**, Tsiaga E, van Beusekom JEE, Vanden Berghe E, Warzocha J, Wasmund N, Weslawski JM, Widdicombe C, Wlodarska-Kowalczyk M, Zettler ML (2010). Data integration for European marine biodiversity research: creating a database on benthos and plankton to study large-scale patterns and long-term changes. *Hydrobiologia* 644: 1-13. DOI 10.1007/s10750-010-0108-z
53. Gravili C, Belmonte G, Cecere E, Denitto F, Giangrande A, Guidetti P, Longo C, Mastrototaro F, Moscatello S, Petrocelli A, Piraino S, **Terlizzi A**, Boero F (2010) Non-indigenous species (NIS) along the Apulian coasts, Italy. *Chemistry and Ecology* 26 (suppl.): 121-142. DOI: 10.1080/02757541003627654
54. **Terlizzi A**, De Falco G, Felling S, Fiorentino D, Gambi MC, Cancemi G (2010) Effects of marine cage aquaculture on macrofauna assemblages associated to *Posidonia oceanica* meadows. *Italian Journal of Zoology* 77: 362-371. DOI: 10.1080/11250000903464075
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