

Paolo Sordino

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Current Position: ricercatore II° livello, Scientist

Current Affiliation:

Biology and Evolution of Marine Organisms, Stazione Zoologica Anton Dohrn, Napoli (Italy)

Education/Training/Experience

Institute and Location	Degree / Function	Year	Field of Study
Department of Zoology, University of Naples "Federico II", Italy	Master (Laurea)	1981-1986	Ecology and taxonomy of Annelid Polychaetes
BioService srl, Naples, Italy	Employee	1987-1989	Ecology and taxonomy of Annelid Polychaetes
Laboratory of Benthos Ecology, Stazione Zoologica Anton Dohrn, Ischia, Naples, Italy	Research Fellow	1990	Ecology and reproduction biology of Polychaetes
Hopkins Marine Station, Stanford University, Monterey, Ca, USA	Research Fellow	1991-1992	Fish biogeography and phylogeny
EMBL, Heidelberg, Germany	Research Fellow	1993	Fish embryology
University of Geneva, Geneva, Switzerland	PhD	1994-1996	Developmental genetics of fishes
Randall Institute, King's College, London, UK	Postdoc	1997	Developmental genetics of fishes
Department of Anatomy, University College London, UK	Postdoc	1998-2000	Developmental genetics of fishes

Appointments and awards

2016 – present: review editor of *Frontiers in Ecology and Evolution*.

2014 – present: member of the SZN Scientific Dissemination commission.

2010 – present: committee member of the Italian PhD in "Life Sciences" of the Università della Calabria.

2009 – present: committee member of the Italian PhD in “Model organisms in veterinary and biomedical research” (SZN-University of Naples Federico II).

2013 – present: member of the Editorial Board of ISRN Developmental Biology.

2008 – 2011: Member of the SZN PhD and Seminars commissions.

2008 – 2011: SZN scientific advisor of GEAR (Genomics for Applied Research), a consortium of local scientific institutes for integrating activities.

2008 – 2011: SZN coordinator of the “Natural products in drug discovery” programme.

Other

Local coordinator - participant in five EU-funded projects and ten Italian projects

Students' Supervision

PhD supervisor of fourteen Ph.D. students (internal supervisor, dir. of studies, external) and six Postdoctoral researchers (past and present)

Publications

Author of 46 publications on ISI-journals (h index: 21) and 1 book chapter

List of publications of the last 10 years (2005-present):

Peer-reviewed publications:

- Nittoli V, Sepe RM, Coppola U, D'Agostino Y, De Felice E, Palladino A, Vassalli QA, Locascio A, Ristoratore F, Spagnuolo A, D'Aniello S, Sordino P, in press. A comprehensive analysis of neurotrophins and neurotrophin tyrosine kinase receptors expression during development of zebrafish. *J Comp Neurol*.
- Mascolo C, Ceruso M, Sordino P, Palma G, Anastasio A, Pepe T, 2017. Mitogenome analysis of five Sparidae species: preliminary results. *Ital J Food Safety*, 6: 75-78.
- Valero-Gracia A, Marino R, Crocetta F, Nittoli V, Tiozzo S, Sordino P, 2016. Comparative localization of serotonin-like immunoreactive cells in Thaliacea informs tunicate phylogeny. *Front Zool*, 13: 45.
- Martella A, Sepe RM, Silvestri C, Zang J, Fasano G, Carnevali O, De Girolamo P, Neuhauss SCF, Sordino P, Di Marzo V, 2016. Important role of endocannabinoid signaling in the development of functional vision and locomotion in zebrafish. *FASEB J*, 30: 4275-4288.
- D'Agostino Y, Locascio A, Ristoratore F, Spagnuolo A, Sordino P, Borra M, D'Aniello S, 2016. A rapid and cheap methodology for CRISPR/Cas9 zebrafish mutant screening. *Mol Biotech*, 58: 73-78.
- Fortunato AE, Sordino P, Andreakis N, 2016. Evolution of the SOUL heme-binding protein superfamily across Eukarya. *J Mol Evol*, 82: 279-290.

- Pappalardo A, Porreca I, Caputi L, De Felice E, Schulte-Merker S, Zannini M, Sordino P, 2015. Thyroid development in zebrafish lacking TAZ. *Mech Dev*, 138: 268-278.
- Affinito O, Andreakis N, Caputi L, Marino R, Pannone R, Sordino P, Procaccini G, 2015. High connectivity and directional gene flow in European Atlantic and Mediterranean populations of *Ciona intestinalis* sp. A. *Mar Ecol: Evol Persp*, 36: 1230-1243.
- Caputi L, Crocetta F, Toscano F, Sordino P, Cirino P, 2015. Long-term demographic and reproductive trends in *Ciona intestinalis* sp. A. *Mar Ecol: Evol Persp*, 36: 118-128.
- Crocetta F, Marino M, Cirino P, Macina A, Staiano L, Esposito R, Pezzotti R, Racioppi C, Toscano F, De Felice E, Locascio A, Ristoratore F, Spagnuolo A, Zanetti L, Branno M, Sordino P, 2015. Mutation studies in ascidians: a review. *Genesis*, 53: 160-169.
- Vassalli QA, Anishchenko E, Caputi L, Sordino P, D'Aniello S, Locascio A, 2015. Regulatory elements retained during chordate evolution: coming across ascidians. *Genesis*, 53: 160-169.
- Porreca I, D'Angelo F, Gentilcore D, Carchia E, Amoresano A, Affuso A, Ceccarelli M, De Luca P, Esposito L, Guadagno FM, Mallardo M, Nardone A, Maccarone S, Pane F, Scarfò M, Sordino P, De Felice M, Ambrosino C, 2014. Cross-species toxicogenomic analyses and phenotypic anchoring in response to groundwater low-level pollution. *BMC Genomics* 15: 1067.
- De Felice E, Porreca I, Alleva E, De Girolamo P, Ciriaco E, Germanà A, Sordino P, 2014. Localization of *BDNF* expression in the developing brain of zebrafish. *J Anat*, 224: 564-574.
- Arienzo M, Toscano F, Di Fraia M, Caputi L, Sordino P, Guida M, Aliberti F, Ferrara L, 2014. An assessment of contamination of the Fusaro Lagoon (Campania Province, southern Italy) by trace metals. *Environ Monitor Assess* 186: 5731–5747.
- Sorrenti G, Bagnoli A, Miraglia V, Crocetta F, Vitiello V, Ristoratore F, Cirino P, Sansone G, Sordino P, 2014. Investigating sperm cryopreservation in a model tunicate, *Ciona intestinalis* sp. A. *Cryobiology* 68: 43-49.
- Cima F, Caicci F, Sordino P, 2014. The haemocytes of the salp *Thalia democratica* (Tunicata, Thaliacea): an ultrastructural and histochemical study in the oozoid. *Acta Zool*, 95: 375-391.
- Ferriero R, Manco G, Lamantea E, Nusco E, Ferrante MI, Sordino P, Stacpoole PW, Lee B, Zeviani M, Brunetti-Pierri N, 2013. Phenylbutyrate therapy for pyruvate dehydrogenase complex deficiency and lactic acidosis. *Science Transl Med*, 5 (175): 175ra31.
- Thessalou M, Aydogan Ö, Bekas P, Bilge G, Boyaci YÖ, Brunelli E, Circosta V, Crocetta F, Durucan F, Erdem M, Ergolavou A, Filiz H, Fois F, Gouva E, Kapiris K, Katsanevakis S, Kljajić Z, Konstantinidis E, Konstantinou G, Koutsogiannopoulos D, Lamon S, Mačić V, Mazzette R, Meloni D, Mureddu A, Paschos I, Perdikaris C, Piras F, Poursanidis D, Ramos-Esplá AA, Rosso A, Sordino P, Sperone E, Sterioti A, Taşkin E, Toscano F, Tripepi S, Tsiakkuros S, Zenetos A, 2012. New Mediterranean Biodiversity Records. *Medit Mar Sci*, 13/2: 312-327.
- Porreca I, De Felice E, Fagman H, Di Lauro R, Sordino P, 2012. Zebrafish *bcl2l* is a survival factor in thyroid development. *Dev Biol*, 366: 142-152.

- Procaccini G, Affinito O, Toscano F, Sordino P, 2011. A new animal model for merging ecology and evolution. In: *Evolutionary Biology – Concepts, Biodiversity, Macroevolution and Genome Evolution*, Springer. Part 2:91-106.
- Fortunato AE, Langellotto F, Sordino P, 2011. Identification and expression of *soul/p22HBP* genes in zebrafish. *Gene Expr Patterns*, 11(5-6):360-9.
- Andreakis N, D'Aniello S, Albalat R, Patti FP, Garcia-Fernández J, Procaccini G, Sordino P, Palumbo A, 2011. Evolution of the nitric oxide synthase family in metazoans. *Mol Biol Evol*, 28(1):163-79.
- Lucini C, Facello B, Maruccio L, Langellotto F, Sordino P, Castaldo L, 2010. Glial cell line-derived neurotrophic factor receptor alpha-1 in the brain of adult zebrafish. *J Anat*, 217: 174-185.
- Sordino P, Andreakis N, Brown ER, Leccia NI, Squarzoni P, Tarallo R, Alfano C, Caputi L, D'Ambrosio P, Daniele P, D'Aniello E, D'Aniello S, Maiella S, Miraglia V, Russo MT, Sorrenti G, Branno M, Cariello L, Cirino P, Locascio A, Spagnuolo A, Zanetti L, Ristatore F, 2008. Natural variation of model mutant phenotypes in *Ciona intestinalis*. *PLoS ONE* 3: e2344.
- Del Giacco L, Pistocchi A, Cotelli F, Fortunato AE, Sordino P, 2008. A peek inside the neurosecretory brain through Orthopedia lenses. *Dev Dyn* 237: 2295-2303.
- Caputi L, Borra M, Biffali E, Sordino, 2008. SNP and Hox gene mapping in *Ciona intestinalis*. *BMC Genomics* 9: 39.
- Iannelli F, Pesole G, Sordino P, Gissi C, 2007. Mitogenomics reveals two cryptic species in *Ciona intestinalis*. *Trends Genet* 23: 419-422.
- Caputi L, Andreakis N, Mastrototaro F, Cirino P, Vassillo M, Sordino P, 2007. Cryptic speciation in a model invertebrate chordate. *Proc Natl Acad Sci USA*, 104: 9364-9369.
- Andreakis N, Caputi L, Sordino P, 2007. Characterization of highly polymorphic nuclear microsatellite loci from the ascidian *Ciona intestinalis*. *Mol Ecol Notes* 7: 610-612.