

Stefano Mariani *BSc+MSc, PhD.*

Professor of Marine Biodiversity

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EDUCATION AND PREVIOUS POSTS

2019-to-date: Professor of Marine Biodiversity, *Liverpool John Moores University*, UK.
2013-2018: Professor of Conservation Genetics, *University of Salford*, UK.
2011-2013: Reader in Wildlife Biology, *University of Salford*, UK.
2005-2011: Lecturer in Fish Population Biology, *University College Dublin*, Ireland.
2002-2004: Post-Doctoral Researcher, *The University of Hull*, UK.
2001: PhD in Animal Biology, University of Rome "La Sapienza".
1997: BSc+MSc degree, University of Rome "Tor Vergata", 110/110 *summa cum laude*.
1990: High School Classical Studies, *Liceo Classico Virgilio*, Rome, Italy.

LANGUAGES: Excellent English. Italian mother-tongue. Good Spanish (written & spoken).

MAIN INTERESTS

Marine Biodiversity, Environmental DNA, Population and Conservation Genetics, Fisheries, Seafood, Sustainability Science, Life Histories.

HIGHLIGHTS

FUNDING:

Over **£4M** of competitive, extra-mural research funding obtained as a P.I., from national and international bodies, between 2006 and 2023 (including NERC, EU H2020, EU FP7, EU Atlantic Area, Defra, Pew Charitable Trusts, Icelandic Marine Institute, Canadian Petroleum Association).

RESEARCH OUTPUT:

Over **140** Web-of-Science listed papers published or in press, most of which (**93**) as either first or senior author, and generating **>7600 citations (H-index= 47)**. Including prestigious outlets such as *Current Biology*, *Science Advances*, *Conservation Letters*, *Molecular Ecology*, *Proc. Roy. Soc. B*, *Fish and Fisheries*, *Frontiers in Ecology & the Environment*, *Genome Research*, and *Science*.

STUDENT SUPERVISION:

Supervised to completion **22 PhD**, **12 Masters** and >100 undergraduate project students.

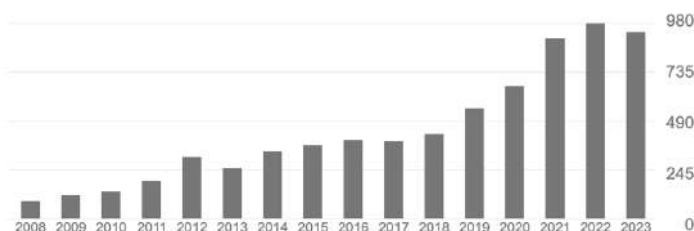
OUTREACH:

Research featured on national newspapers, radios and TV, including: ***The Guardian***, ***The Financial Times***, ***The New York Times***, ***El Pais***, ***La Repubblica***, ***BBC-radio-4 "Inside Science"*** (2018), ***CBC-radio-1 "Quirks & Quarks"*** (2019), ***Channel 4 (Dispatches***, January 2011; *Food Unwrapped*, June 2013), ***BBC (Fake Britain***, June 2012; *Food Inspectors*, 2014, *Rip Off Britain*, April 2018), and ***Discovery (Dark Waters***, 2019). Multiple articles for ***The Conversation***.

PUBLICATION OUTPUT

ARTICLES, PEER-REVIEWED [student co-authors are underlined] – H-index: **47** – i10-index: **115**.

Citation trend over full calendar years
between 2008 and 2023.
Year 2024 not shown as still ongoing.



Submitted:

- CAI W., MACDONALD B., KORABIK M., GRADIN I., NEAVE E.F., HARPER L.R., KENCHINGTON E., RIESGO A., WHORISKEY F.G., **MARIANI S.** (in review): "Biofouling sponges as natural eDNA samplers for marine biodiversity monitoring", Submitted to: [Science of the Total Environment](#).
- NEAVE E.F., DIMITRIADIS C., SHUM P., RIESGO A. & **MARIANI S.** (in review): "Refining a molecular tool kit to capture tropicalization in Mediterranean Marine Protected Areas", Submitted to: [Conservation Biology](#).
- CUNNINGTON A., SHUM P., NEAVE E.F., COLLINS R. & **MARIANI S.** (in review): "Temporal and spatial eDNA analysis of fish assemblages in post-industrial, urban coastal habitats", Submitted to: [Environmental DNA](#).
- ARIAS M.B. GALLEGO R., DíEZ-VIVES C., NEAVE E.F., CAI W., CÁRDENAS P., STEFFEN K., TABOADA S., VILLAMOR A., DREWERY J., KENCHINGTON E., **MARIANI S.**, RIESGO A. (in revision): "North Atlantic deep-sea benthic biodiversity unveiled through sponge natural sampler DNA", Submitted to: [Communications Biology](#).
- MAIELLO G., CARIANI A., CARPENTIERI P., CARUGATI L., CICALA D., FERRARI A., FOLLESA M.C., LIGAS A., SARTOR P., SBRANA A., SHUM, P., STEFANI M., TALARICO L., **MARIANI S.***, RUSSO T.* (in revision): "Fishing in the gene-pool: implementing trawl-associated eDNA metaprobe for large scale monitoring of fish assemblages", Submitted to: [Reviews in Fish Biology & Fisheries](#). (*: equal contribution).
- GIBSON T.I., BAILLIE C., COLLINS R.A., WANGENSTEEN O.S., ELLISON A., HEDDELL-COWIE M., WESTOBY H., BYATT B., LAWSON-HANDLEY L., SOTO A., CREER S., GENNER M.J. & **MARIANI S.** (in revision): "Environmental DNA reveals ecologically relevant spatial and temporal variation in fish assemblages between estuaries and seasons", Submitted to: [Ecological Indicators](#).

Published or In Press:

1. CUNNINGTON A., SHUM P., WILDING C.S., **MARIANI S.** (2024): "Exploring intertidal sea anemones (*Actinia equina*) as natural eDNA samplers for coastal biodiversity assessment", Submitted to: [Marine Ecology Progress Series](#), in press.
2. SHUM P., CUSA M., PRASETYO A.P., **MARIANI S.** (2024): "Nanopore sequencing facilitates screening of diversity and provenance of seafood and marine wildlife", [Food Control](#), **161**: 110382. DOI: 10.1016/j.foodcont.2024.110382.
3. JEUNEN G.J., LAMARE M., DEVINE J., **MARIANI S.**, MILLS S., TREECE J., FERREIRA S. & GEMMELL N.J. (2024): "Characterizing Antarctic fish assemblages using eDNA obtained from marine sponge bycatch specimens", [Reviews in Fish Biology & Fisheries](#), **34**: 221–238. DOI: 10.1007/s11160-023-09805-3.
4. CICALA D., MAIELLO G., FIORENTINO F., GAROFALO G., MASSI D., SBRANA A., **MARIANI S.**, D'ALESSANDRO S., STEFANI M., PERRODIN L., RUSSO T. (2024): "Spatial analysis of demersal food webs through integration of eDNA metabarcoding with fishing activities", [Frontiers in Marine Science](#), **10**: 1209093. DOI: 10.3389/fmars.2023.1209093.
5. JEUNEN G.J., LAMARE M., CUMMINGS V., TREECE J., FERREIRA S., MASSUGER J., PRYOR-RODGERS L., TAIT L., LUST B., WILKINSON S., **MARIANI S.**, MILLS S., GEMMELL N. (2024): "Aquatic and marine sponge eDNA surveys recover distinct eukaryote assemblages – a case study along the Ross Sea coastline", [Environmental DNA](#), **5**: 1780-1792. DOI: 10.1002/edn3.500.
6. PRASETYO A.P., MURRAY J.M., AGUNG F., SALES N.G., MCDEVITT A.D. & **MARIANI S.** (2023): "Shark-dust: application of high-throughput DNA sequencing of processing residues for trade monitoring of threatened sharks and rays", [Conservation Letters](#), **16**: e12971. DOI: 10.1111/conl.12971.
7. NEAVE E.F., CAI W., ARIAS M.B., HARPER L.H., RIESGO A. & **MARIANI S.** (2023): "Trapped DNA fragments in archived marine sponges unveil north Atlantic deep-sea fish diversity", [Proceedings of the Royal Society B](#), **290**: 20230771. DOI: 10.1098/rspb.2023.0771.
8. GIBSON T.I., CARVALHO G.R., ELLISON A., GARGIULO E., HATTON-ELLIS T., LAWSON-HANDLEY L., **MARIANI S.**, COLLINS R.A., SELLERS G., DISTASO M.A., ZAMPIERI C., CREER S. (2023): "Environmental DNA metabarcoding for fish diversity assessment in a macrotidal estuary: a comparison with established fish survey methods", [Estuarine, Coastal, Shelf Science](#), **294**: 108522. DOI: 10.1016/j.ecss.2023.108522.

9. MAIELLO G., TALARICO L., BRODIE C., CARPENTIERI P., SBRANA A., SHUM P., **MARIANI S.***, RUSSO T.* (2023): "Net gain: low-cost, trawl-associated eDNA samplers upscale ecological assessment of marine demersal communities", *Environmental DNA*, DOI: 10.1002/edn3.389 (*: equal contribution).
10. PRASETYO A.P., CUSA M., MURRAY J.M., AGUNG F., MUTTAQIN E., **MARIANI S.***, McDEVITT A.D.* (2023): "Universal closed-tube barcoding for monitoring the shark and ray trade in megadiverse conservation hotspots", *iScience*, **26**: 107065 (*: equal contribution).
11. GONZÁLEZ-DELGADO S., WANGENSTEEN O.S., SANGILA C., HERNÁNDEZ C.A., ALFONSO B., SOTO A.Z., PÉREZ-ORTELA R., **MARIANI S.**, HERNÁNDEZ J.C. (2023): "High taxonomic diversity and miniaturisation in benthic communities under persistent natural CO₂ disturbance", *Proceedings of the Royal Society B*, **290**: 20222417.
12. MCGILL L., McDEVITT A.D., HELLEMANS B., NEAT F., KNUTSEN H., **MARIANI S.**, CHRISTIANSEN H., JOHANSEN T., VOLCKAERT F.A.M., COSCIA I. (2023): "Population structure and connectivity in the genus *Molva* in the Northeast Atlantic", *ICES Journal of Marine Science*, DOI: 10.1093/icesjms/fsad040.
13. DIMITRIADIS C., NEAVE E.F., SHUM P., **MARIANI S.**, M. D'AMEN, E. AZZURRO E., (2023): "First records of *Sphyaena chrysotaenia* (Klunzinger, 1884) and *Diadema setosum* (Leske, 1778) in the Marine Protected Area of Zakynthos Island (Ionian Sea, Greece)", *Acta Adriatica*, **64**. DOI: 10.32582/aa.64.1.3.
14. AGLIERI G., QUATTROCCHI F., **MARIANI S.**, BAILLIE C., SPATAFORA D., DI FRANCO A., TURCO G., TOLONE M., DI GERLANDO R., MILAZZO M. (2023): "Fish eDNA detections in ports mirror fishing fleet activities and highlight the spread of non-indigenous species in the Mediterranean Sea", *Marine Pollution Bulletin*, **189**: 114792. DOI: 10.1016/j.marpolbul.2023.114792.
15. ALBONETTI L., MAIELLO G., CARIANI A., CARPENTIERI P., FERRARI A., SBRANA A., SHUM P., TALARICO L., RUSSO T., **MARIANI S.** (2023): "DNA metabarcoding of trawling bycatch reveals diversity and distribution patterns of sharks and rays in the central Tyrrhenian Sea", *ICES Journal of Marine Science*, **80**: 664–674. DOI: 10.1093/icesjms/fsad022.
16. HARPER L.H., NEAVE E.N., SELLERS G., CUNNINGTON A., ARIAS M.B., CRAGGS J., MACDONALD B., RIESGO A., **MARIANI S.** (2023): "Optimised DNA isolation from marine sponges for natural sampler DNA (nsDNA) metabarcoding", *Environmental DNA*, DOI: 10.1002/edn3.392.
17. CAI W., HARPER L.R., NEAVE E.F., SHUM P., CRAGGS J., ARIAS M.B., RIESGO A. & **MARIANI S.** (2022): "Environmental DNA persistence and fish detection in captive sponges", *Molecular Ecology Resources*, **22**: 2956-2966.
18. COLLINS R.A., BAILLIE C., HALLIDAY N., RAINBIRD S.; SIMS D., **MARIANI S.***, GENNER M.J.* (2022): "Reproduction influences seasonal eDNA variation in a temperate marine fish community", *Limnology & Oceanography Letters*, **7**: 443-449 (*: equal contribution).
19. SIEGENTHALER A., WANGENSTEEN O.S., BENVENUTO C., LOLLOBRIGIDI R. & **MARIANI S.** (2022): "Niche separation between the two dominant crustacean predators in European estuarine soft-bottom habitats". *Ecological Indicators*, **138**: 108839.
20. LIU, Z.F., COLLINS R.A., BAILLIE C., RAINBIRD S., GRIFFITHS A.M., SIMS D.W., **MARIANI S.**, GENNER M.J. (2022): "Environmental DNA captures elasmobranch diversity in a temperate marine ecosystem". *Environmental DNA*, **4**: 1024-1038.
21. CAVEDON M., VONHOLDT B., HEBBLEWHITE M., HEGEL T., HEPPENHEIMER E., HERVIEUX D., **MARIANI S.**, SCHWANTJE H., STEENWEG R., THEORET J., WATTERS M., MUSIANI M. (2022): "Genomic legacy of migration in endangered caribou". *PLoS Genetics*, **18**: e1009974.
22. MAIELLO G., TALARICO L., CARPENTIERI P., DE ANGELIS F., FRANCESCHINI S., HARPER L., NEAVE E., RICKARDS O., SBRANA A., SHUM P., VELTRE V. & RUSSO T.*, **MARIANI S.*** (2022): "Little samplers, big fleet: eDNA metabarcoding from commercial trawlers enhances ocean monitoring". *Fisheries Research*, **249**: 106259 (*: equal contribution).
23. CUSA M., ST.JOHN-GLEW K., TRUEMAN C., **MARIANI S.**, BUCKLEY L., NEAT F., LONGO C. (2022): "A roadmap to seafood provenance determination using DNA and stable isotope signatures". *Reviews in Fish Biology & Fisheries*, **32**: 597-621.
24. **MARIANI S.**, HARPER L.H., COLLINS R., BAILLIE C., WANGENSTEEN O., McDEVITT A.M., HEDDELL-COWIE M., GENNER M.J. (2021): "Estuarine molecular by-catch as a landscape-wide biomonitoring tool". *Biological Conservation*, **261**: 109287.
25. PRASETYO A.P., McDEVITT A.D., MURRAY J.M., BARRY J., AGUNG F., MUTTAQIN E. & **MARIANI S.** (2021): "Shark and ray trade in and out of Indonesia: addressing knowledge gaps on the path to sustainability". *Marine Policy*, **133**: 104714.
26. COLLINS R.A., Trauzzi G., Maltby K.M., Gibson T.I., Ratcliffe F.C., Hallam J., Rainbird S., MacLaine J., Henderson P.A., SIMS D.W., **MARIANI S.**, & GENNER M.J. (2021) "Meta-Fish-Lib: A generalised, dynamic DNA reference library pipeline for metabarcoding of fishes". *Journal of Fish Biology*, DOI:10.1111/jfb.14852.

27. D'ALESSANDRO S. & **MARIANI S.** (2021): "Sifting environmental DNA metabarcoding datasets for rapid reconstruction of marine food webs". *Fish and Fisheries*, **22**: 822-833.
28. **MARIANI S.**, FERNANDEZ C., BAILLIE C., MAGALON H., JAQUEMET S. (2021): "Elasmobranch diversity, abundance and phenology around a tropical oceanic island inferred by eDNA metabarcoding". *Conservation Science & Practice*, **3**(6): e407.
29. CUSA M., FALCAO L., DE JESUS J., BIOLATTI C., BLONDEEL L., BRACKEN F.S.A., DEVRIESE L., GARCÉS-PASTOR S., MINOUDI S., GUBILI C., ACUTIS P.L. & **MARIANI S.** (2021): "Fish out of water: consumers' unfamiliarity with the appearance of commercial fish species". *Sustainability Science*, **16**: 1313–1322.
30. AGLIERI G., BAILLIE C., **MARIANI S.**, TURCO G., CATTANO C., SPATAFORA D., DI FRANCO A., CALÒ A., DI LORENZO M., GUIDETTI P., MILAZZO M. (2021): "Environmental DNA captures functional diversity in coastal fish communities". *Molecular Ecology*, **30**: 3127-3139
31. NAAUM A., CUSA M., SINGH M., BLEICHER Z., ELLIOTT C., GOODHEAD I.B., HANNER R.H., HELYAR S.J., **MARIANI S.**, RICE J.E., WANGH L.J., SANCHEZ J.A. (2021): "FASTFISH-ID: Rapid fish species authentication via universal closed-tube barcoding". *Food Research International*, **141**: 110035.
32. RUSSO T., TALARICO L., MAIELLO G., BAILLIE C., COLOSIMO G., D'ANDREA L., DI MAIO F., FIORENTINO F., FRANCESCHINI S., GAROFALO G., SCANNELLA D., CATAUDELLA S. & **MARIANI S.** (2021): "All is fish that comes to the net: metabarcoding for rapid fisheries catch assessment". *Ecological Applications*, **31**: e02273.
33. SALES N.G., WANGENSTEEN O.S., CARVALHO D.C., DEINER K., PRAEBEL K., COSCIA I., MCDEVITT A. & **MARIANI S.** (2021): "Space-time dynamics in monitoring neotropical fish communities using eDNA metabarcoding". *Science of the Total Environment*, **754**: 142096.
34. PAMPOULIE C., GÍSLASON D., ÓLAFSDÓTTIR G., CHOSSON V., HALLDÓRSSON S.D., **MARIANI S.**, ELVARSSON B.T., RASMUSSEN M.H., IVERSEN M.R., DANIELSDÓTTIR A.K., VÍKINGSSON G.A. (2020): "Evidence of unidirectional hybridization and second-generation adult hybrid between the two largest animals on earth". *Evolutionary Applications*, **14**: 314-321.
35. MADUNA S.N., HULL K.L., FARRELL E.D., BOOMER J.J., VERÍSSIMO A., MARINO I.A.M., MAZZOLDI C., ZANE L., WINTNER S.P., CHESALIN M.V., DA SILVA C., GUBILI C., **MARIANI S.**, BESTER-VAN DER MERWE A.E. (2020): "Historical biogeography of smoothhound sharks (genus *Mustelus*) of Southern Africa reveals multiple dispersal events from the Northern Hemisphere". *Systematics & Biodiversity*, **18**: 633-645.
36. CALOSSO M.C., CLAYDON J.A.B., **MARIANI S.**, CAWTHORN D.M. (2020): "Global footprint of seafood mislabeling on a small island nation". *Biological Conservation*, **245**: 108557.
37. SALES N.G., MCKENZIE M., DRAKE J., HARPER L., BROWETT S., COSCIA I., WANGENSTEEN O.S., BAILLIE C., BRYCE E., DAWSON D., OCHU E., HÄNFLING B., LAWSON-HANDLEY L., **MARIANI S.**, LAMBIN X., SUTHERLAND, C., MCDEVITT A. (2020): "Landscape-level monitoring of terrestrial and semi-aquatic communities using eDNA from lotic ecosystems". *Journal of Applied Ecology*, **57**: 707-716.
38. BAKKER J., WANGENSTEEN O.S., BAILLIE C., BUDDO D., CHAPMAN D.D., GALLAGHER A.J., GUTTRIDGE T.L., HERTLER H. & **MARIANI S.** (2019): "Biodiversity assessment of tropical shelf eukaryotic communities via pelagic eDNA metabarcoding". *Ecology & Evolution*, **9**: 14341-14355.
39. BAILLIE C., WELICKY R.L., HADFIELD K.A., SMIT N.J., **MARIANI S.** & BECK R.M.D. (2019): "Hooked on you: shape of attachment structures in cymothoid isopods reflects parasitic strategy". *BMC Evolutionary Biology*, **19**: 207.
40. COLLINS R.A., BAKKER J., WANGENSTEEN O.S., SOTO A.Z., CORRIGAN L., SIMS D.W., GENNER M.J. & **MARIANI S.** (2019): "Non-specific amplification compromises environmental DNA metabarcoding with COI". *Methods in Ecology & Evolution*, **10**: 1985-2001.
41. **MARIANI S.**, BAILLIE C., COLOSIMO G., RIESGO A. (2019): "Sponges as natural environmental DNA samplers". *Current Biology*, **29**: R401-R402.
42. CARDINALE M., **MARIANI S.**, HJELM J. (2019): "Comments on 'Local cod (*Gadus morhua*) revealed by egg surveys and population genetic analysis after longstanding depletion on the Swedish Skagerrak Coast' by Svedäng et al.". *ICES Journal of Marine Science*, **76**: 1209-1211.
43. SALES N.G., WANGENSTEEN O.S., CARVALHO D.C. & **MARIANI S.** (2019): "Influence of Preservation Methods, Sample Medium and Sampling Time on eDNA Recovery in a Neotropical River". *Environmental DNA*, **1**: 119-130.
44. SIEGENTHALER A., WANGENSTEEN O.S., SOTO A., BENVENUTO C., CORRIGAN L. & **MARIANI S.** (2019): "Metabarcoding of shrimp stomach content: harnessing a natural sampler for fish biodiversity monitoring". *Molecular Ecology Resources*, **19**: 206-220.
45. HULL K., ASBURY T.A., DA SILVA C., DICKEN M., VERÍSSIMO A., FARRELL E.D., **MARIANI S.**, MAZZOLDI C., MARINO I.A.M., ZANE L., MADUNA S.N. & BESTER-VAN DER MERWE A.E. (2019): "Strong genetic isolation despite wide distribution in a commercially exploited coastal shark". *Conservation Genetics*, **838**: 121–137.
46. CAVEDON M., GUBILI C., HEPPENHEIMER E., VONHOLDT B., **MARIANI S.**, HEBBLEWHITE M., HEGEL T., HERVIEUX D., SERROUYA R., STEENWEG R., NICKEL B., WECKWORTH B.V. & MUSIANI M. (2019): "Genomics,

- environment and balancing selection in behaviorally bimodal populations: the caribou case". *Molecular Ecology*, **28**: 232-249.
47. SIEGENTHALER A., WANGENSTEEN O.S., BENVENUTO C., CAMPOS J. & **MARIANI S.** (2019): "DNA metabarcoding unveils multi-scale trophic variation in a widespread coastal opportunist". *Molecular Ecology*, **28**: 232-249.
 48. MASCOLINO S., **MARIANI S.**, BENVENUTO C. (2019): "Behavioural responses in a congested sea: an observational study on a coastal nest-guarding fish". *European Zoological Journal*, **86**: 504-518.
 49. GARCES-PASTOR S., WANGENSTEEN O.S., PÉREZ-HAASE A., PÉLACHS A., PÉREZ-OBÍOL R., CAÑELLAS-BOLTÀ N., **MARIANI S.**, VEGAS-VILARRÚBIA T. (2019): "DNA metabarcoding reveals modern and past eukaryotic communities in a high-mountain peat bog system". *Journal of Paleolimnology*, **62**: 425-441.
 50. McDEVITT A.D., BROWETT S.S., SALES N.G., SPARNENN A., **MARIANI S.** WANGENSTEEN O.S., COSCIA I., BENVENUTO C. (2019): "Environmental DNA metabarcoding as an effective and rapid tool for fish monitoring in canals". *Journal of Fish Biology*, **95**: 679-682.
 51. WAPLES R.S., **MARIANI S.**, BENVENUTO C. (2018): "Consequences of Sex Change for Effective Population Size". *Proceedings of the Royal Society B*, **285**: 20181702.
 52. COLLINS R.A., WANGENSTEEN O.S., O'GORMAN E., **MARIANI S.**, SIMS D.W. & GENNER M.J. (2018): "Persistence of environmental DNA in marine systems". *Communications Biology*, **1**: 185.
 53. WECKWORTH B.V., HEBBLEWHITE M., **MARIANI S.** & MUSIANI M. (2018): "Lines on a map: designatable units, meta-population dynamics and recovery of woodland caribou in Canada". *Ecosphere*, **9**: e02323.
 54. SALES N.G., **MARIANI S.**, PESSALI T.C., SALVADOR G.N., CARVALHO D.C. (2018): "Hidden diversity hampers conservation efforts in a highly impacted neotropical river system". *Frontiers in Genetics*, **9**: 271.
 55. CAWTHORN D.M., BAILLIE C., & **MARIANI S.** (2018): "Generic names and mislabelling conceal high species diversity in global fisheries markets". *Conservation Letters*, **11**: e12573.
 56. BOUSSARIE G., BAKKER J., WANGENSTEEN O.S., **MARIANI S.**, BONNIN L., JUHEL J.B., KISZKA J.J., KULBICKI M., MANEL S., ROBBINS W.D., VIGLIOLA L., MOUILLOT D. (2018): "Environmental DNA illuminates the dark diversity of sharks". *Science Advances*, **4**: 5, eaap9661.
 57. COSCIA I., CASTILHO R., MASSA-GALLUCCI A., SACCHI C., CUNHA R.L., STEFANNI S., HELYAR S.J., KNUTSEN H., & **MARIANI S.** (2018): "Genetic homogeneity in the deep grenadier *Macrourus berglax* across the North Atlantic Ocean". *Deep Sea Research I*, **132**: 60–67.
 58. DI MURI C., VANDAMME S., PEACE C., BARNES W. & **MARIANI S.** (2018): "Biodiversity defrosted: unveiling non-compliant fish trade in ethnic food stores". *Biological Conservation*, **217**: 419–427.
 59. SOTELO C.G., VELASCO A., PEREZ-MARTIN R.I., KAPPEL K., SCHRÖDER U., VERREZ-BAGNIS V., JÉRÔME M., MENDES R., SILVA H., **MARIANI S.**, GRIFFITHS A.M. (2018): "Tuna labels matter in Europe: Mislabelling rates in different tuna products". *PLoS ONE*, **13**: e0196641.
 60. BAKKER J., WANGENSTEEN O.S., CHAPMAN D.D., BOUSSARIE G., BUDDO D., GUTTRIDGE T.L., HERTLER H., MOUILLOT D., VIGLIOLA L. & **MARIANI S.** (2017): "Environmental DNA reveals tropical shark diversity and abundance in contrasting levels of anthropogenic impact". *Scientific Reports*, **7**: 16886.
 61. LEONE A., URSO I., DAMALAS D., MARTINSOHN J., ZANZI A., **MARIANI S.** AND 12 MORE (2017): "Genetic differentiation and phylogeography of Mediterranean-North Eastern Atlantic blue shark (*Prionace glauca*, L. 1758) using mitochondrial DNA: panmixia or complex stock structure?". *PeerJ*, **5**: e4112.
 62. OBREGON C., GODLEY B.J., LYNDON A.R., BARKER J., CHRISTIANSEN H., KURLAND S., PICCOLO J.J., POTTS R., SHORT R., TEBB A., **MARIANI S.** (2017): "Valuing and understanding fish populations in the Anthropocene: key questions to address". *Journal of Fish Biology*, **92**: 828-845.
 63. CAWTHORN D.M. & **MARIANI S.** (2017): "Global trade statistics lack granularity to inform traceability and management of diverse and high-value fishes". *Scientific Reports*, **7**: 12852.
 64. SHUM P., MOORE L., PAMPOULIE C., DI MURI C., VANDAMME S. & **MARIANI S.** (2017): "Harnessing mtDNA variation to resolve ambiguity in 'Redfish' sold in Europe". *PeerJ*, **5**: e3746.
 65. BENVENUTO C., COSCIA I., C., CHOPELET J., SALA-BOZANO M. & **MARIANI S.** (2017): "Ecological and evolutionary consequences of alternative sex change pathways in fish". *Scientific Reports*, **7**: 9084.
 66. **MARIANI S.**, CAWTHORN D.M., HANNER R. (2017): "Mislabelling fish does not promote sustainability". *Conservation Letters*, **10**: 781-782.
 67. GUBILI C., **MARIANI S.**, WECKWORTH B.V., GALPERN P., McDEVITT A.D., HEBBLEWHITE M., NICKEL B. & MUSIANI M. (2017): "Anthropogenic and environmental drivers of caribou population isolation in the Canadian Rockies". *Evolutionary Applications*, **10**: 199-211.
 68. COSCIA I., CHOPELET J., WAPLES R.S., MANN B. & **MARIANI S.** (2016): "Sex change and effective population size: implications for population genetic studies in marine fish". *Heredity*, **117**: 251-258.

69. MASCOLINO S., BENVENUTO C., GUBILI C., SACCHI C., BOUFANA B. & **MARIANI S. (2016)**: "The ART of mating: alternative reproductive tactics and mating success in a nest-guarding fish". *Journal of Fish Biology*, **89**: 2643-2657.
70. GUBILI C., MACLEOD K., PERRY W., HANEL P., BATZAKASC I., FARRELL E.D., LYNHAMMARE A., MANCUSI C., **MARIANI S.**, MENEZES G.M., NEAT F., SCARCELLA G., GRIFFITHS A.M. (2016): "Connectivity in the deep: Phylogeography of the velvet belly lanternshark". *Deep Sea Research I*, **115**: 233-239.
71. BRÉCHON A., HANNER R. & **MARIANI S. (2016)**: "A systematic analysis across North Atlantic countries unveils subtleties in cod product labelling". *Marine Policy*, **69**: 124-133.
72. VANDAMME S., GRIFFITHS A.M., TAYLOR S.A., DI MURI C., HANKARD E., TOWNE J.A., WATSON M. & **MARIANI S. (2016)**: "Sushi-bar-coding in the UK: another kettle of fish". *PeerJ*, **4**: e1891.
73. BALL R.E., SERRA-PEREIRA B., ELLIS J., GENNER M., IGLESIAS S., JOHNSON A.F. JONES C.S., LESLIE R., LEWIS J., **MARIANI S.**, MENEZES G., NEAT F., NOBLE L.R., SIMS D.W., GRIFFITHS A.M. (2016): "Resolving taxonomic uncertainty in vulnerable elasmobranchs: are the Madeira skate (*Raja maderensis*) and the thornback ray (*Raja clavata*) distinct species?". *Conservation Genetics*, **17**: 565-576.
74. **MARIANI S.**, GRIFFITHS A.M., VELASCO A., KAPPEL K., & THE LABELFISH CONSORTIUM (2015): "Low mislabeling rates indicate marked improvements in European seafood market operations". *Frontiers in Ecology & the Environment*, **13**: 536-540.
75. STEFANNI S., CASTILHO R., SALA-BOZANO M., ROBALO J., FRANCISCO S., SANTOS R.S., MARQUES N., BRITO A., ALMADA V. & **MARIANI S. (2015)**: "Establishment of a coastal fish in the Azores: recent colonisation or sudden expansion of an ancient relict population?". *Heredity*, **115**: 527-537.
76. SHUM P., PAMPOULIE C., KRINSTINSSON K., & **MARIANI S. (2015)**: "Three-dimensional post-glacial expansion and diversification of an exploited oceanic fish". *Molecular Ecology*, **24**: 3652–3667.
77. PEDRESCHI D., **MARIANI S.**, COUGHLAN J., VOIGT C., O'GRADY M., CAFFREY J., KELLY-QUINN M. (2015): "Trophic flexibility and diet of pike (*Esox lucius* L.) Reveals delayed ontogenetic switch to piscivory". *Journal of Fish Biology*, **87**: 876-894.
78. PEDRESCHI D., & **MARIANI S (2015)**: Towards a Balanced View of Pike in Ireland: a Reply to Ensing, 2014. *Journal of Biogeography*, **42**: 607-609.
79. **MARIANI S.**, ELLIS J., O'REILLY A., BRECHON A.L., SACCHI C. & MILLER D.D. (2014): "Mass media influence and the regulation of illegal practices in the seafood market". *Conservation Letters*, **7**: 478–483.
80. PAWLUK R.J., CIAMPOLI M. & **MARIANI S. (2014)**: "Host size constrains growth patterns in both female and male mouth-dwelling isopod, *Ceratothoa italica*". *Marine & Freshwater Research*, **66**: 381-384.
81. SHUM P., PAMPOULIE C., SACCHI C. & **MARIANI S. (2014)**: "Divergence by Depth in an Oceanic Fish". *PeerJ*, **2**: e525.
82. LONGMORE C., TRUEMAN C.N., NEAT F., JORDE P.E., KNUTSEN H., STEFANNI S., CATARINO D., MILTON J.A. & **MARIANI S. (2014)**: "Oceanic scale connectivity and life cycle reconstruction in a deep-sea fish". *Canadian Journal of Fisheries & Aquatic Sciences*, **71**: 1312-1323.
83. GRIFFITHS A.M., SOTELO C.G., MENDES R., PEREZ-MARTIN R.I., SCHRÖDER U., SHORTEN M., SILVA H.A., VERREZ-BAGNIS V. & **MARIANI S. (2014)**: "Current methods for seafood authenticity testing in Europe: is there a need for harmonisation?". *Food Control*, **45**: 95-100.
84. FARRELL E., O'SULLIVAN N., SACCHI C. & **MARIANI S. (2014)**: "Multiple paternity and sperm storage in the starry smooth-hound shark *Mustelus asterias* (Carcharhiniformes: Triakidae)". *Biological Journal of the Linnean Society*, **111**: 119–125.
85. PEDRESCHI D., KELLY-QUINN M., CAFFREY J., O'GRADY M. & **MARIANI S. (2014)**: "Genetic structure of pike (*Esox lucius* L.) reveals a complex and previously unrecognised colonisation history of Ireland ". *Journal of Biogeography*, **41**: 548–560.
86. WECKWORTH B.V., MUSIANI M., DE CESARE N.J., MCDEVITT A.D., HEBBLEWHITE M. & **MARIANI S. (2013)**: "Preferred habitat and effective population size drive the landscape genetics of an endangered species". *Proceedings of the Royal Society B*, **280**: 20131756.
87. COSCIA I., MCDEVITT A.D., KING J.J., ROCHE W.K., MCLOUGHLIN C. & **MARIANI S. (2013)**: "A species-to-be? The genetic status and colonization history of the critically endangered Killarney shad". *Molecular Phylogenetics & Evolution*, **69**: 1190-1195.
88. GRIFFITHS A.M., MILLER D.D., EGAN A., FOX J., GREENFIELD A. & **MARIANI S. (2013)**: "DNA barcoding unveils skate (Chondrichthyes: Rajidae) species diversity in 'ray' products sold across Ireland and the UK". *PeerJ*, **1**: e129.
89. **MARIANI S.**, SALA-BOZANO M., CHOPELET J., BENVENUTO C. (2013): "Spatial and temporal patterns of size-at-sex-change in two exploited coastal fish". *Environmental Biology of Fishes*, **96**: 535–541.
90. CUNHA R.L., MADEIRA C., COSCIA I., **MARIANI S.**, STEFANNI S. & CASTILHO R. (2012): "Ancient divergence in the trans-oceanic deep-sea shark *Centroscyrnus crepidater*". *PLoS One*, **7**(11): e49196.

91. MILLER D.M., & MARIANI S. (2012): "Irish fish, Irish people: roles and responsibilities for an emptying ocean". *Environment, Development & Sustainability*, **15**: 529-546.
92. KOCHMANN J., CARLSSON J., CROWE T.P. & MARIANI S. (2012): "Genetic evidence for the uncoupling of local aquaculture activities and a population of an invasive species – a case study of Pacific oyster (*Crassostrea gigas*)". *Journal of Heredity*, **103**: 661-671.
93. WECKWORTH B.V., MUSIANI M., MCDEVITT A.D., HEBBLEWHITE M. & MARIANI S. (2012): "Reconstruction of caribou evolutionary history in Western North America and its implications for conservation". *Molecular Ecology*, **21**: 3610–3624.
94. COSCIA I., VOGIATZI E., KOTOULAS G., TSIGENOPOULOS C. & MARIANI S. (2012): "Exploring neutral and adaptive genetic variation in expanding populations of gilthead sea bream, *Sparus aurata*, in the North East Atlantic". *Heredity*, **108**: 537–546.
95. MARIANI S. (2012): "Seafood genetic identification: aiming our pipettes at the right targets". *Frontiers in Ecology and the Environment*, **10**: 10.
96. MARIANI S., PEIJNENBURG K.T.C.A., WEETMAN D. (2012): "Independence of neutral and adaptive divergence in a low dispersal marine mollusc". *Marine Ecology Progress Series*, **446**: 173–187.
97. MILLER D.M., JESSEL A. & MARIANI S. (2012): "Seafood mislabelling: comparisons of two westerns European case studies assist in defining influencing factors, mechanisms and motives". *Fish and Fisheries*, **13**: 345–358.
98. SALA-BOZANO M., VAN OOSTERHOUT C. & MARIANI S. (2012): "Impact of a mouth parasite in a marine fish differs between geographic areas". *Biological Journal of the Linnean Society*, **105**: 842–852.
99. MILLER D.M., CLARKE M. & MARIANI S. (2012) "Mismatch between living resources and market trends: a western European case study". *Fisheries Research*, **121-122**: 104–114.
100. RUSSO T., PULCINI D., COSTANTINI D., PEDRESCHI D., PALAMARA E., BOGLIONE C., CATAUDELLA S., SCARDI M. & MARIANI S. (2012) "Right' or 'Wrong'? Insights into the ecology of sidedness in European flounder, *Platichthys flesus*". *Journal of Morphology*, **273**: 337–346.
101. COSCIA I., DESMARAIS E., GUINAND B. & MARIANI S. (2012): Phylogeography of European sea bass in the north-east Atlantic: a correction and reanalysis of the mitochondrial DNA data from Coscia & Mariani (2011). *Biological Journal of the Linnean Society*, **106**: 455–458.
102. BEKKEVOLD D., CLAUSEN L.A.W., MARIANI S., ANDRÉ C., HATFIELD E.M.C., TORSTENSEN E., RYMAN N., CARVALHO G.R., RUZZANTE D.E. (2011): "Distributions of Atlantic herring populations in a mixed feeding area, determined with genetic mixed-stock analysis". *Marine Ecology Progress Series*, **442**: 187–199.
103. LONGMORE C., TRUEMAN C.N., NEAT F., O'GORMAN E., MILTON J.A. & MARIANI S. (2011): "Otolith geochemistry indicates life-long spatial population structuring in a deep sea fish, *Coryphaenoides rupestris*". *Marine Ecology Progress Series*, **435**: 209–224.
104. COSCIA I. & MARIANI S. (2011): "Phylogeography and population structure of European sea bass in the northeast Atlantic". *Biological Journal of the Linnean Society*, **104**: 364–377.
105. MARIANI S., BOGGAN C. & BALATA D. (2011): "Food resource use in sympatric juvenile plaice and flounder in estuarine habitats". *Marine Ecology*, **32** (S1): 96–101.
106. CADRIN S.X., MARIANI S., PAMPOULIE P., BERNREUTHER M., DANIELSDÓTTIR A.K., JOHANSEN T., KERR L., NEDREAAS K., REINERT J., SABORIDO-REY F., SIGURDSSON T., STRANSKY C. (2011) "Counter-comment on: Cadrin et al. (2010) 'Population structure of beaked redfish, *Sebastes mentella*: evidence of divergence associated with different habitats'. ICES Journal of Marine Science, 67: 1617–1630." *ICES Journal of Marine Science*, **68**: 2016–2018.
107. HAYDEN B., MASSA-GALLUCCI A., CAFFREY J., HARROD C., MARIANI S., O'GRADY M., KELLY-QUINN M. (2011): "Trophic dynamics within a hybrid zone – interactions between an abundant cyprinid hybrid and sympatric parental species". *Freshwater Biology*, **56**: 1723–1735.
108. SALA-BOZANO M. & MARIANI S. (2011): "Life-history variation in a marine teleost across a heterogeneous seascape". *Estuarine, Coastal, Shelf Science*, **92**: 555–563.
109. HAYDEN B., COSCIA I. & MARIANI S. (2011): "Low cytochrome-b variation in bream, *Abramis brama* L.". *Journal of Fish Biology*, **78**: 1579–1587.
110. ANDRE C., LARSSON L., LAIKRE L., BEKKEVOLD D., BRIGHAM J., CARVALHO G.R. DAHLGREN T.G., HUTCHINSON W.F., MARIANI S., MUDDE K., RUZZANTE D.E., RYMAN N. (2011): "Detecting population structure in a high gene-flow species, Atlantic herring (*Clupea harengus*): direct, simultaneous evaluation of neutral versus putatively selected loci". *Heredity*, **106**: 270–280.
111. HELYAR S., COSCIA I., SALA-BOZANO M. & MARIANI S. (2011): "New microsatellite loci for the long-nose velvet dogfish *Centroselachus crepidater* (Squaliformes: Somniosidae) and other deep sea sharks". *Conservation Genetics Resources*, **3**: 173-176.

112. MILLER D.M. & MARIANI S. (2010): "Smoke, mirrors and mislabelled cod: poor transparency in the European seafood industry". *Frontiers in Ecology and the Environment*, **8**: 517-521.
113. HAYDEN B., PULCINI D., KELLY-QUINN M., O'GRADY M., CAFFREY J., MCGRATH A. & MARIANI S. (2010): "Hybridisation between two cyprinid fishes in a novel habitat: genetics, morphology and life-history traits". *BMC Evolutionary Biology*, **10**: 169.
114. HAYDEN S., B., BEKAERT M., CRIDER T.A., MARIANI S., MURPHY W.J. & TEELING E.C. (2010): "Ecological adaptation determines functional mammalian olfactory subgenomes". *Genome Research*. **20**: 1–9.
115. FARRELL E., MARIANI S. & CLARKE M.W. (2010): "Reproductive biology of the starry smooth-hound shark (*Mustelus asterias*): geographic variation and implications for sustainable exploitation". *Journal of Fish Biology*, **77**: 1505–1525.
116. TOSCANO B.J., PULCINI D., HAYDEN B., RUSSO T., KELLY-QUINN M. & MARIANI S. (2010): "An ecomorphological framework for the coexistence of two cyprinid fish and their hybrids in a novel environment". *Biological Journal of the Linnean Society*. **99**: 768–783.
117. MASSA-GALLUCCI A., COSCIA I., O'GRADY M., KELLY-QUINN M. & MARIANI S. (2010): "Patterns of genetic structuring in a brown trout (*Salmo trutta* L) metapopulation". *Conservation Genetics*. **11**: 1689–1699.
118. COSCIA I., ROUNTREE V., KING J.J., ROCHE W.K. & MARIANI S. (2010): "A highly permeable species boundary between two anadromous fish". *Journal of Fish Biology*, **77**: 137–1149.
119. CADRIN S.X., BERNREUTHER M., DANIELSDÓTTIR A.K., HJÖRLEIFSSON E., JOHANSEN T., KERR L., KRISTINSSON K., MARIANI S., NEDREAAS K., PAMPOULIE P., PLANQUE B., REINERT J., SABORIDO-REY F., SIGURDSSON T., STRANSKY C. (2010) "Population Structure of beaked redfish, *Sebastes mentella*: evidence of divergence associated with different habitats" *ICES Journal of Marine Science*, **67**: 1617–1630.
120. FARRELL E., MARIANI S. & CLARKE M.W. (2010): "Age and growth estimates for the starry smooth-hound shark (*Mustelus asterias*) in the Northeast Atlantic Ocean". *ICES Journal of Marine Science*. **67**: 931-939.
121. LONGMORE C., FOGARTY K., NEAT F., BROPHY D., TRUEMAN C., MILTON A. & MARIANI S. (2010): "A comparison of otolith microchemistry and otolith shape analysis for the study of spatial variation in a deep-sea teleost, *Coryphaenoides rupestris*". *Environmental Biology of Fishes*, **89**: 591–605.
122. HELYAR S., SACCHI C., COUGHLAN J. & MARIANI S. (2010): "Novel microsatellite loci for a deep sea fish (*Macrourus berglax*) and their amplification in other grenadiers (Gadiformes: Macrouridae)". *Conservation Genetics Resources*, **2**: 1-4.
123. SALA-BOZANO M., KETMAIER V. & MARIANI S. (2009): "Contrasting Signals from Multiple Markers Illuminate Population Connectivity in a Marine Fish". *Molecular Ecology*. **18**: 4811–4826.
124. CHOPELET J., WAPLES R.S. & MARIANI S. (2009): "Sex change and the genetic structure of marine fish populations". *Fish and Fisheries*, **10**: 329–343.
125. BALATA D. & MARIANI S. (2009): "Culling Whales: Ethically and Ecologically Wrong". *Science*, **324**: 464.
126. MCDEVITT A.D.*, MARIANI S.*, HEBBLEWHITE M., DECESARE N.J., MORGANTINI L., SEIP D., WECKWORTH B.V. & MUSIANI M. (2009): "Survival in the Rockies of an endangered hybrid swarm from diverged caribou (*Rangifer tarandus*) lineages". *Molecular Ecology*, **18**: 665–679. *contributed equally
127. RUSSO T., MARIANI S., BALDI P., PARISI A., MAGNIFICO G., CATAUDELLA S. (2009): "Progress in modelling herring populations: individual-based models of growth". *ICES Journal of Marine Science*, **66**: 1718–1725.
128. CHOPELET J., HELYAR S., MANN B. & MARIANI S. (2009): "Novel polymorphic microsatellite loci for the protogynous hermaphrodite slinger sea bream (*Chrysoblephus puniceus*, Sparidae)". *Molecular Ecology Resources*, **9**: 1223-1226.
129. SALA-BOZANO M., TSALAVOUTA M. & MARIANI S. (2009): "Isolation and characterisation of new polymorphic microsatellite markers for the striped sea bream (*Lithognathus mormyrus*)". *Conservation Genetics*, **10**: 1507-1509.
130. RUSSO T., BALDI P., PARISI A., MAGNIFICO G., MARIANI S., CATAUDELLA S. (2009): "Lévy processes and stochastic von Bertalanffy models of growth, with application to fish population analysis". *Journal of Theoretical Biology*, **258**: 521–529.
131. FARRELL E., CLARKE M.W. & MARIANI S. (2009): "A simple genetic identification method for the conservation of North-East Atlantic smooth-hounds (*Mustelus spp.*)". *ICES Journal of Marine Science*. **66**: 561-565.
132. RUSSO T., PULCINI D., O'LEARY A., CATAUDELLA S. & MARIANI S. (2008): "Relationship between body shape and trophic niche segregation in two closely-related sympatric fishes". *Journal of Fish Biology*, **73**: 809–828.
133. KETMAIER V., JOYCE D.A., HORTON T. & MARIANI S. (2008): "A molecular phylogenetic framework for the evolution of parasitic strategies in cymothoid isopods". *Journal of Zoological Systematics & Evolutionary Research*, **41**: 19–23.

134. CRAIG G., PAYNTER D., COSCIA I. & **MARIANI S.** (2008): "Settlement of gilt-head sea bream (*Sparus aurata* L.) in a Southern Irish Sea coastal habitat". *Journal of Fish Biology*, **72**: 287–291.
135. JOVANOVIĆ B., LONGMORE C., O'LEARY A. & **MARIANI S.** (2007): "Fish community structure and distribution in a macro-tidal inshore habitat in the Irish Sea". *Estuarine, Coastal & Shelf Science*, **75**: 135–142.
136. MUSIANI M., LEONARD J.A., DEAN CLUFF H., GATES C.C., **MARIANI S.**, PAQUET P.C., VILÀ C. & WAYNE R.K. (2007): "Differentiation of tundra and boreal coniferous forest wolves: genetics, coat color and foraging ecology". *Molecular Ecology*, **16**: 4149–4170.
137. BEKKEVOLD D., CLAUSEN L.A.W., **MARIANI S.**, ANDRE C., CHRISTENSEN T.B., MOSEGAARD H. (2007): "Divergent origins of sympatric herring population components determined using genetic mixture analysis". *Marine Ecology Progress Series*, **337**: 187–196.
138. WEETMAN D., RUGGIERO A., **MARIANI S.**, SHAW P.W., LAWLER A.R., HAUSER L. (2007): "Hierarchical population genetic structure in the commercially exploited shrimp *Crangon crangon* identified by AFLP analysis". *Marine Biology*, **151**: 565–575.
139. RUZZANTE D.E., **MARIANI S.**, BEKKEVOLD D., ANDRE C., MOSEGAARD H., CLAUSEN L.A.W., DAHLGREN T.G., HUTCHINSON W.F., HATFIELD E.M.C., TORSTENSEN E., BRIGHAM J., SIMMONDS E.J., LAIKRE L., LARSSON L., STET R.J.M., RYMAN N., CARVALHO G.R. (2006): "Biocomplexity in a highly migratory marine pelagic fish, Atlantic herring". *Proceedings of the Royal Society B*, **273**: 1459–1464.
140. **MARIANI S.** (2006): "Life-history- and ecosystem-driven variation in composition and residence pattern of seabream species (Perciformes: Sparidae) in two Mediterranean coastal lagoons", *Marine Pollution Bulletin*, **53**: 120–127.
141. **MARIANI S.**, HUTCHINSON W.F., HATFIELD E.M.C., RUZZANTE D.E., SIMMONDS E.J., DAHLGREN T.G., ANDRE C., BRIGHAM J., TORSTENSEN E., CARVALHO G.R. (2005): "North Sea herring population structure as revealed by microsatellite analysis", *Marine Ecology Progress Series*, **303**: 245–257.
142. TANCIONI L., **MARIANI S.**, MACCARONI A., MARIANI A., MASSA F., SCARDI M. & CATAUDELLA S. (2003): "Locality-specific variation in the feeding of *Sparus aurata* L.: evidence from two Mediterranean lagoon systems", *Estuarine, Coastal & Shelf Science*, **57**: 469–474.
143. **MARIANI S.**, KETMAIER V. & DE MATTHAEIS E. (2002): "Genetic structuring and gene flow in *Cerastoderma glaucum* (Bivalvia: Cardiidae): evidence from allozyme variation at different geographic scales", *Marine Biology*, **140**: 687–697.
144. **MARIANI S.**, MACCARONI A., MASSA F., RAMPACCI M. & TANCIONI L. (2002): "Lack of consistency between the trophic interrelationships of five sparid species in two adjacent central Mediterranean coastal lagoons", *Journal of Fish Biology*, **61**: S 138–147.
145. **MARIANI S.**, PICCARI F. & DE MATTHAEIS E. (2002): "Shell morphology in *Cerastoderma* spp. (Bivalvia: Cardiidae) and its significance for adaptation to tidal and non-tidal coastal habitats", *Journal of the Marine Biological Association of the UK*, **82**: 483–490.
146. **MARIANI S.** (2001): "Cleaning behaviour in *Diplodus* spp.: chance or choice? A hint for future investigations", *Journal of the Marine Biological Association of the UK*, **81**: 715–716.
147. **MARIANI S.** (2001): "Can spatial distribution of ichthyofauna describe marine influence on coastal lagoons? A Central Mediterranean case study", *Estuarine, Coastal, Shelf Science*, **52**: 261–267.

BOOKS & BOOK CHAPTERS:

- LE PORT A., BAKKER J., COOPER M.K., HUERLIMANN R. & **MARIANI S.** (2019) "Environmental DNA (eDNA): a valuable tool for ecological inference and management of sharks and their relatives". In *Shark Research: Emerging Technologies and Applications for the Field and Laboratory* (Carrier J.C., Heithaus M.R. & Simpfendorfer C.A., Eds.), CRC Press, Boca Raton, FL, 392pp.
- NAAUM A.M., WARNER K., **MARIANI S.**, HANNER R.H., DRAKE-CAROLIN C. (2016): "Seafood Mislabeling Incidence and Impacts". In *Seafood Authenticity and Traceability: A DNA-based Perspective* (Naaum A.M. & Hanner R.H., Eds.), Elsevier/AP Inc., San Diego.
- CADRIN S.X., KERR L.A., **MARIANI S.**, Eds. (2013): *Stock Identification Methods: Applications in Fisheries Science*. Elsevier/Academic Press, San Diego, CA, 592pp.
- MARIANI S.**, BEKKEVOLD D. (2013) "The Nuclear Genome: Neutral and Adaptive Markers in Fisheries Science". In *Stock Identification Methods* (S.X. Cadrin, L.A. Kerr & S. Mariani, Eds.), Elsevier/AP Inc., San Diego, CA.
- CADRIN S.X., KERR L.A., **MARIANI S.** (2013) "Stock Identification Methods: An Overview". In *Stock Identification Methods* (S.X. Cadrin, L.A. Kerr & S. Mariani, Eds.), Elsevier/AP Inc., San Diego, CA.
- CADRIN S.X., KERR L.A., **MARIANI S.** (2013) "Interdisciplinary stock identification for fishery management and conservation biology". In *Stock Identification Methods* (S.X. Cadrin, L.A. Kerr & S. Mariani, Eds.), Elsevier/AP Inc., San Diego.

THESES:

MARIANI S. (2001): "A multidisciplinary approach to the study of the lagoon cockle *Cerastoderma glaucum* Poiret, 1789. Genetic structure, morphological aspects". Ph.D. Thesis, Dept. of Animal and Human Biology, University of Rome "La Sapienza" (in English).

MARIANI S. (1997): "A contribution to the study of trophic ecology of Sparids (Pisces: Perciformes), in the coastal lagoons of Fogliano and Caprolace (Circeo National Park).", M.Sc. Thesis, University of Rome "Tor Vergata" (in Italian).

SELECTED INVITED SEMINARS & TALKS since 2009:

2024: Jul, 56th FSBI Symposium - Keynote, Bilbao, Spain: *'From Revolutionary to Complementary: a DNA Journey through the Seafood Trade'*.

2024: Feb, University of Liverpool, Dept. of Earth, Ocean & Ecological Sciences: *'The Way of Simplicity: making marine eDNA science user- and environmentally friendly'*.

2023: Sep, 6th International Conference on Progress in Marine Conservation (Stralsund, Germany): *'Using eDNA to capture elasmobranch diversity in temperate marine environments'*.

2023: Mar, Global Vision International: *'Applications and Opportunities of eDNA Science at Sea and the Quest for Simpler Data Capture Methods'*.

2022: Mar & Jul, WWF Sharks & Save Our Seas Foundation: *'Sharks, Rays, and their eDNA fragments: from hopeful gamble to game-changing scenarios'*.

2021: Nov, Society for Conservation Biology Fall Seminars: *'Many tiny fragments, everywhere: how DNA metabarcoding is boosting marine conservation'*.

2021: Jan, University of Rome 'Tor Vergata': *'Like tiny asteroids in an enormous universe: status and prospects of environmental DNA analysis at sea'*.

2020: Jun, Indonesian Ministry of Fisheries & Maritime Affairs: *'Seafood mislabelling: local impacts from global processes'*.

2020: Jan, Edge Hill University, Ormskirk: *'Natural Sampler DNA'*.

2019: May, Heriot-Watt University, Edinburgh: *'A DNA-empowered 'reverse look' at marine biodiversity monitoring: from markets, back to the oceans'*.

2018: December, Campden BRI Food Standards: *'Hidden Biodiversity Creeping Into the Seafood Market: Obstacles to Transparency & Improved Solutions'*.

2018: August, Gulf of Maine Research Institute: *'Sifting the oceans for traces of life: just a new expensive game?'*.

2018: August, OCEANA Head-Quarters, D.C.: *'From Ocean to plate, and back to the ocean... DNA barcoding and metabarcoding in marine conservation'*.

2018: February, University of Exeter: *'Fragments of Knowledge: a DNA-assisted approach to resolving biodiversity jigsaw puzzles'*.

2017: December, Naturalis / Leiden University: *'Seeking droplets of life in the big bad ocean: utopia or cornucopia?'*.

2017: February, CEFAS Lowestoft: *'Harnessing environmental DNA for marine exploration: strengths, limitations, and applications'*.

2017: January, Marine Stewardship Council, London: *'What's in a (fish) name?'*.

2016: March, University of Lincoln: *'From ocean to plate, then back to the ocean: DNA barcoding and metabarcoding to understand biodiversity'*.

2015: October, Pew Marine Fellows Symposium, Puerto Rico: Round-table: *'Genomics and Marine Conservation'*.

2015: June, Pew Charitable Trusts Headquarters, Washington D.C.: *'eDNA & Shark Conservation' and 'European Seafood Labels: a promising trend above a stirring underworld'*.

2015: February, University of Bristol: *'Big fish in a small pond: reconstructing pike colonisation routes to Ireland'*.

2014: November, The Pavilion, NEC Complex, Birmingham, UK: *'Food Fraud: Advances in combating food and beverage crime'*.

2013: October, Pew Marine Fellows Symposium, Malahide, Ireland; Round table: *'Tracking/traceability and DNA surveillance in fisheries and marine mammals'*.

2013: May, Aberystwyth University, UK: Marine Biological Association Symposium – Key-note: *'Challenges across the Atlantic: reconstructing population scenarios in two very different fish'*.

2012: December, University of Liverpool, UK: *'Unlocking the truth about a dwindling big-headed monster in a conquered land: the 'ferox' trout ecophenotype in Irish lakes'*.

- 2012: May**, University of Algarve, Faro, Portugal: *Independence of neutral and adaptive variation in populations of a coastal gastropod.*
- 2011: June**, Departamento de Oceanografia e Pescas, Horta, Azores, Portugal: *Sex-change in marine fish: evolutionary backdrop and practical consequences.*
- 2011: June**, University of Murcia, Spain: *Towards a simple, integrated approach for the identification of management units.*
- 2011: April**, Queen's University Belfast, UK: *Sex-change in marine fish: individuals, populations and the environmental context.*
- 2010: October**, University of Liverpool, UK: *Probing the unfathomable: what can we learn from deep sea population structure?*
- 2010: October**, Trinity College Dublin, Ireland: *Mismanagement, mislabelling and miscommunication: the seafood industry and the role of science.*
- 2009: March**, University College Cork, Ireland: *Hybridization and contrasting signals in molecular markers.*
- 2009: March**, University of Galway, Ireland: *Fish, parasites, sex and DNA: a journey through space and time.*

MAIN GRANTS AND AWARDS

ONLY REPORTING EXTRA-MURAL GRANTS >50,000€:

- 2022-2025: £ 1,335,000 – Lenfest Ocean Program – Pew Charitable Trusts / Gordon & Betty Moore Foundation**, for the project: *Environmental DNA as a diagnostic and dynamic monitoring tool in the Chumash Heritage National Marine Sanctuary: climate effects, the role of MPAs and a link to traditional knowledge.* (£ 240,000 as UK P.I.)
- 2020-2023: £ 736,900 – Natural Environment Research Council**, for the project: *SpongeDNA: Bolstering marine biodiversity exploration and monitoring through natural environmental DNA samplers.* (as P.I.)
- 2018-2021: £ 143,703 – Illegal Wildlife Trade Challenge Fund**, for the project: *Building capacity to reduce illegal trade of shark products in Indonesia.* (as Co-I, CEFAS Lead).
- 2018-2022: £ 89,000 – Natural Environment Research Council**, for the project: *StockDNA: Combining molecular and acoustic approaches to improve pelagic stock assessment.* (as P.I.)
- 2018-2021: € 346,884 – EU Interreg IVb Atlantic Area**, for the project: *SEA-TRACES: Smart Traceability and Labeling ToolBox for a Sustainable Seafood Production.* (as P.I.)
- 2016-2018: € 184,000 – EU-H2020 Marie Skłodowska Curie**, for the project: *SNAPTRACE: Fishing in the dark: evaluating the global trade of 'snappers'.* (as P.I.)
- 2016-2017: € 80,000 – EU-FP7 FoodIntegrity**, for the project: *F.I.S.HUB – Fish Identification Software Hub'.* (as Co-P.I.)
- 2015-2019: £ 1,200,000 – Natural Environment Research Council**, for the project: *SeaDNA - Assessing marine biodiversity and structure using environmental DNA: from groundtruthing to food web structure and stability.* (£ 363,240 as P.I.)
- 2014-2016: \$ 80,000 – Pew Charitable Trusts**, for the project: *Shark Biodiversity Assessment in Tropical Habitats: an Environmental DNA approach.* (as P.I.)
- 2012-2015: € 314,669 – EU Interreg IVb Atlantic Area**, for the project: *LABELFISH: Atlantic network on genetic control of fish and seafood labelling and traceability.* (as P.I.)
- 2012-2015: € 38,000 – DEFRA**, co-funding of: *LABELFISH: Atlantic network on genetic control of fish and seafood labelling and traceability.* (as P.I.)
- 2012-2015: £ 75,000 – Joint Icelandic Marine Research institute & University of Salford**, for the project: *Oceans in 3D: exploring adaptation to depth in Atlantic beaked redfish *Sebastes mentella*.* (as P.I.)
- 2009-2011: € 125,400 – PRTL Higher Education Authority**, for the project: *Patterns and drivers of seafood mislabelling in the European markets.* (as P.I.)
- 2010-2011: € 80,000 – Irish Research Council for Science Engineering & Technology**, for the project: *Genetic and environmental basis of sex-change plasticity in marine fish.* (as P.I.)

- 2010: € 72,000 – Irish Research Council for Science Engineering & Technology**, for the project: *Environmental drivers of behavioural, morphological and genetic variation in the damselfish, *Chromis chromis* L.. (as P.I.)*
- 2010: € 84,000 – Central Fisheries Board of Ireland**, for the project: *Genetic, ecological, life-history traits of lacustrine and riverine population of pike (*Esox lucius*) in Ireland. (as Co-P.I.)*
- 2008: € 90,000 – Irish Research Council for Science Engineering & Technology**, for the project: *Trends and trajectories of Ireland's sea food needs: towards the goal of sustainability (as P.I.)*
- 2007: € 194,080 – European Science Foundation ("EuroDEEP"/ EUROCORES)** for the integrated project: *DEECON – Unravelling population connectivity for sustainable fisheries in the Deep Sea. (as P.I.)*
- 2007: € 1,000,000 approx. – PTAC, Weyerhaeuser, Parks Canada and Shell Petroleum** for the project: *Conservation biology of caribou western Canada. (as Co-I.)*
- 2006-2009: € 160,645 – Science Foundation Ireland (SFI – RFP06)** for the project: *Population genetic consequences of sex change in marine fish. (as P.I.)*
- 2006: € 72,000 – Irish Research Council for Science Engineering & Technology**, for the project (EMBARC scheme): *The life-history and spatial population structure of the smooth-hound species, *Mustelus mustelus* and *M. asterias* in the North-east Atlantic Ocean (as P.I.)*
- 2006: € 157,637 – Irish Sea Fisheries Board (Bord Iascaigh Mhara)**, for the project: *Spatial stock structure of common whelk (*Buccinum undatum*) in Irish waters: potential for local adaptation and implications for management. (as P.I.)*
- 2005: € 57,150 – Irish Research Council for Science Engineering & Technology (EMBARC scheme)**, for the projects: *Exploring north-ward range expansion of coastal marine fishes using molecular markers, life-history traits, and archived specimens. (as P.I.)*
- 2005: € 57,150 – Irish Research Council for Science Engineering & Technology (EMBARC scheme)**, for the projects: *Coevolutionary hotspots in a coastal marine host-parasite interaction: population-level adaptive responses and phylogeographic history. (as P.I.)*

TEACHING, SUPERVISING AND EXAMINING EXPERIENCE

1) TEACHING:

2005 to date: Lecturing and coordinating for the following modules (University College Dublin, University of Salford, and LJMU):

Applied Marine Biology (LJMU) • **Evolution & Inheritance** (LJMU) • **Wildlife Conservation** (LJMU) • **Marine Biology** (Salford), module coordinator • **Animal Evolution** (Salford), module coordinator • **Evolution, Adaptation & Development** (Salford) • **Tropical Ecology & Conservation** (Salford) • **Marine Ecology** (UCD) • **Animal & Plant Genetics** (UCD), module coordinator • **Wildlife & Fisheries** (UCD), module coordinator • **Marine Population Biology** (UCD), module coordinator • **Current Developments in Evolutionary Biology** (UCD, MSc level), module coordinator • **Evolutionary Biology** (UCD) • **Vertebrate Diversity** (UCD) • **Ecological Statistics** (UCD).

2009 to 2011: Coordinator of the UCD Taught Masters in Evolutionary Biology.

2) SUPERVISING:

Supervised to completion 22 PhD (plus 12 MSc, 100+ BSc Hons):

- **2023:** Christopher Brodie^{🇬🇧} (LJMU); Andhika Prasetyo^{🇮🇩} (Salford); Giulia Maiello^{🇮🇹} (Rome).
- **2022:** Tim Noyes^{🇬🇧} and Marine Cusa^{🇮🇹} (Salford)
- **2019:** Naiara Sales^{🇧🇷} and Charles Baillie^{🇬🇧} (Salford)
- **2018:** Abdul Abdulghani^{🇮🇷}, Andjin Siegenthaler^{🇨🇭} and Judith Bakker^{🇳🇱} (Salford)
- **2016:** Peter Shum^{🇮🇳} (Salford)
- **2015:** Sergio Mascolino^{🇮🇹} (UCD)
- **2013:** Debbi Pedreschi^{🇮🇹} (UCD)
- **2012:** Byron Weckworth^{🇺🇸} (Calgary)
- **2011:** Dana Miller^{🇨🇦} and Craig Longmore^{🇮🇪} (UCD)
- **2010:** Edward Farrell^{🇮🇪} and Julien Chopelet^{🇫🇷}, (UCD)
- **2009:** Brian Hayden^{🇮🇪}, Ilaria Coscia^{🇮🇹}, Maria Sala-Bozano^{🇪🇸} and Alexia Massa-Gallucci^{🇮🇹} (UCD)

Currently supervising: 6 PhDs:

- Alice Cunnington  (submitting, LJMU) – “Enhancing environmental monitoring in anthropogenically modified coastal habitats using eDNA and nsDNA metabarcoding”.
- Erika Neave  (submitting, LJMU) – “Future avenues for marine eDNA science: from natural samplers to citizen engagement”.
- Jody-Carynn Oliver  (year 2 – South African Institute for Aquatic Biodiversity) – “Molecular approaches for the monitoring and conservation of emblematic South-African marine fishes” (Co-Supervisor).
- Lucilia Lorusso  (year 2 – University of Bari) – “Innovative seafood authentication solutions towards market transparency and resource sustainability” (Co-Supervisor).
- Martina Spiga  (year 2 – University of Bologna) – “Elasmobranch biodiversity in a changing marine realm: new data and technologies sustaining species and habitat conservation” (Co-Supervisor).
- Lorenzo Zacchetti  (year 1 – University of Bologna) – “Novel trophic ecology approaches to evaluate demersal Adriatic ecosystems dynamics” (Co-Supervisor).

Mentored 15 Post-Doctoral Scholars:

- Giulia Maiello  (2023-present), currently employed on a Pew-Lenfest/Moore grant.
- Wang Cai  (2021-2023), now Research Fellow at the Chinese Academy of Sciences.
- Lynsey Harper  (2020-2021), now Senior Scientist at the Freshwater Biology Association.
- Peter Shum  (2020-2021), now Senior Research Officer at LJMU.
- Charles Baillie  (2017-2019), now Data Scientist at the Commonwealth Development Office.
- Donna Cawthorn  (2016-2018), now Food Innovation Team Leader, Queensland Government.
- Owen Wangenstein  (2015-2017), now Lecturer at the University of Barcelona.
- Sara Vandamme  (2014-2015), now Blue Growth Liaison Officer, Ghent University.
- Chrysoula Gubili  (2015), now Senior Researcher at the Fisheries Research Institute, Greece.
- Andrew Griffiths  (2012-2014), now Lecturer at the University of Exeter.
- Chiara Benvenuto  (2011-2012), now Reader at the University of Salford.
- Ilaria Coscia  (2010-2011), now Senior Scientist at the Irish Marine Institute.
- Sarah Helyar  (2007-2008), now Senior Lecturer at Queens University, Belfast.
- Allan McDevitt  (2008-2009), now Senior Lecturer at the Atlantic Technical University, Galway.
- Katja Peijnenburg  (2006-2007), now Group Leader at the Naturalis Museum, Leiden.

3) EXAMINING:

External PhD examiner: PhD theses (24) – **UK:** 2 University of Bangor; 2 University of Hull; 1 Imperial College London; 1 University of Glasgow; 1 University of Bristol; 1 University of Liverpool; 1 University of Manchester; 1 Queen Mary University of London; 1 University of Leeds; 1 University of Aberystwyth. 1 University of Salford. **Overseas:** 1 University of Queensland; 1 University of Tasmania; 1 University of Stellenbosch; 1 University of Copenhagen; 1 Danish Technical University; 2 University College Dublin; 1 National University of Ireland Galway; 1 Atlantic Technical University; 1 University of Rome “La Sapienza”; 1 University of Bologna; MSc theses (University of Manchester, University of Exeter, University of Hull).

External BSc programme examiner: 2022-2024: University of East Anglia, *Environmental Science*.

COMMITTEES & BOARDS

2016 to date: Associate Editor: *Reviews in Fish Biology & Fisheries*.

2015 – 2019: Pew Fellows Program in Marine Conservation Selection Panel.
<http://www.pewtrusts.org/en/projects/marine-fellows/about>.

2008 – 2013: Chair of the ICES Working Group on Stock Identification Methods (SIMWG)
<http://www.ices.dk/iceswork/workinggroups.asp>. Member of both ICES SIMWG and WGAGFA (Working Group on the Application of Genetics in Fisheries and Aquaculture).

2013-2015: Academic Editor: *PLoS One*.

Guest Associate Editor: 2011-2012: *Frontiers in Ecology and the Environment*. 2022-2023: *Environmental DNA*.

2007 to date: Evaluator for research proposals submitted to:

The Natural Environment Research Council (NERC) • The Biotechnology & Biological Sciences Research Council (BBSRC) • The U.S. NOAA-National Marine Fisheries Service • The Research

Council of Norway • Genome B.C. Canada • The Research Academy of France • The Academy of Finland • The Irish Research Council • The Flanders Research Council • The Icelandic Research Council • The European Science Foundation.

2002 to date: Reviewer for over 60 International Journals, including:

Science Advances • Current Biology • Proc. Nat. Acad. Sci. USA • Ecology Letters • Proc. Roy. Soc. B • Nature Sustainability • Conservation Biology • Molecular Ecology / Mol. Ecol. Resources • Methods in Ecology & Evolution • Fish and Fisheries • Journal of Applied Ecology • Evolutionary Applications • Biological Conservation • Heredity • Scientific Reports • Molecular Phylogenetics & Evolution • Environmental DNA • Frontiers in Microbiology • BMC Ecology & Evolution • Biology Letters • Journal of Heredity • Marine Ecology Progress Series • Biological Journal of the Linnean Society • Marine Biology • PeerJ • Canadian Journal of Fisheries and Aquatic Sciences • Food Control • ICES Journal of Marine Science • Journal of Fish Biology.

HOBBIES

- Tennis, Snorkelling, Fishing, Diving, Cooking, Drawing. I love fine arts and my native city, Rome. I like playing guitar and piano. I sang in various bands during my twenties and worked as an actor, during my University years, with the professional theatre company “*Colori Proibiti*”, based in Rome.
 - I have completed the 27th London Marathon in 2007, raising money for the Anthony Nolan Trust, to help children affected by leukaemia and in need of a bone marrow transplant.
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