



In Memoriam, Professor Patrice Francour (13 April 1960–13 October 2019)

Paolo Guidetti, Mireille Harmelin-Vivien, Virginie Raybaud, Wojciech Piasecki

► To cite this version:

Paolo Guidetti, Mireille Harmelin-Vivien, Virginie Raybaud, Wojciech Piasecki. In Memoriam, Professor Patrice Francour (13 April 1960–13 October 2019). *ACta Ichthyologica et Piscatoria*, 2020, 50 (2), pp.237-245. 10.3750/AIEP/02977 . hal-02964963

HAL Id: hal-02964963

<https://amu.hal.science/hal-02964963>

Submitted on 13 Oct 2020

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Distributed under a Creative Commons Attribution - NonCommercial - NoDerivatives | 4.0 International License

**IN MEMORIAM,
PROFESSOR PATRICE FRANCOUR
(13 APRIL 1960–13 OCTOBER 2019)**

by

Paolo GUIDETTI^{*1}, Mireille HARMELIN-VIVIEN², Virginie RAYBAUD¹,
and Wojciech PIASECKI³

¹*Université Côte d'Azur, CNRS, ECOSEAS, Nice, France*

²*Aix-Marseille University, Université de Toulon, CNRS, IRD, MOI, Marseille, France*

³*Faculty of Food Sciences and Fisheries, West Pomeranian University of Technology in Szczecin, Poland*

It is with shock and great sadness that we heard of the sudden passing of our distinguished colleague and friend, Professor Patrice Francour (Fig. 1), at the age of 59, from pancreatic cancer against which he courageously fought till the end. During his whole life, he worked to protect the seas and the oceans, especially the Mediterranean Sea, which was so dear to him.



Fig. 1. Patrice Francour at Carry-Le-Rouet (France) in the occasion of the General Assembly of GEM (Groupe d'Etude du Mérou) in 2010; © J.G. Harmelin

Born in Paris in 1960, Patrice Francour studied marine biology and ecology at Paris VI University. For his master's degree internship (DEA) in 1984, he went to Marseille to study the fauna of the *Posidonia oceanica* meadows with Prof. C.F. Boudouresque's team. A few years later (1990), he completed his PhD at the Banyuls-sur-Mer Marine Station, under the dual auspices of Paris VI University and Aix-Marseille II University. His PhD thesis was centered on the study of the dynamics of the *Posidonia oceanica* ecosystem in the Port-Cros National Park. He focused his research on quantifying the biomass variations of the different compartments of this ecosystem in order to develop the modeling of its trophic functioning. Subsequently (1994–1995), he worked as a postdoctoral researcher at the Portobello Marine Laboratory, in New Zealand, collaborating with Prof. E. Harvey and his associates.

Patrice Francour worked as an active and much appreciated member at the *GIS Posidonie* in Marseille, until he was first recruited as an Assistant Professor at the University of Nice Sophia Antipolis in 1998 in the Coastal Marine Environment Laboratory, headed by Prof. A. Meinesz. At that time, in addition to teaching ecology at the University, he was also the director of the Natural Sciences Department, Nice IUFM, as he was deeply committed to the training of natural sciences secondary school teachers. After his HDR (habilitation to supervise research) in 1999, he was nominated Full Professor at the University of Nice Sophia Antipolis in 2002. From 2008 to 2015, he was the Director of the ECOMERS Laboratory (a lab specialized in Marine Ecology and Ecotoxicology), then Deputy Director since 2016. He was one of the contributors to the development of this laboratory, now renamed as UMR ECOSEAS (Ecology and Conservation Science for sustainable sEAS), specialized in Marine Socio-Ecology.

As a specialist in fish communities in rocky areas and seagrass beds (*Posidonia oceanica*), his work mainly

* pao.lo.guidetti@unice.fr



Fig. 2. Patrice Francour talking with a student before grouper monitoring carried by GEM in Monaco, in October 2006; © J.G. Harmelin

took place in marine protected areas (especially Port-Cros National Park, Scandola Marine Reserve, Cap Roux-Saint Raphael Fishery Reserve, Larvotto Marine Reserve in Monaco Principality). His research in fundamental marine ecology was chiefly aimed at understanding the structure and dynamics of fish assemblages, the role of biodiversity in ecosystem functioning, and the importance of habitat structure. He also contributed to numerous innovative approaches in applied marine ecology research. He significantly contributed to improving the available knowledge on the effects of protection measures on fish communities, the role of management in Mediterranean marine protected areas, the sustainable exploitation of coastal marine resources by small-scale fisheries, and the use of artificial reefs for the restoration of local fishing resources.

On the strength of his expertise and competences, he was involved in the scientific committees of several marine parks. As a participant and executive board member of the GEM grouper research association (*Groupe d'Etude du Mérou*) (Fig. 2), Patrice Francour had a passionate interest in the groupers, these large peaceful fishes, curious and attracted by divers, but severely impacted by humans, quite often locally extirpated because of the impact of recreational and professional fishers. With other scientists, he was committed to the preservation of the emblematic and over-exploited dusky grouper *Epinephelus marginatus* along the French coasts (Figs. 3–4). As a fish expert, he regularly published new or updated records of fish species reported from France or the Mediterranean basin (Gobiidae, Kyphosidae, Siganidae, Fistulariidae, Oplegnathidae). One part of this activity was devoted to the spread of non-indigenous species of fish in the north-

western Mediterranean. He made a major contribution to the development of expertise to assist marine protected area managers and staff members in assessing the effects of multiple human activities (fishing, anchoring, etc.). Recently, he was also involved in citizen science to encourage members of the public to participate in field monitoring of fish populations.

During his scientific career, Patrice Francour authored or co-authored more than 90 publications (in international journals; see the complete list in Annex 1) and 9 book chapters on echinoderms, fishes, seagrasses, artificial reefs, and fish invasions in the Mediterranean Sea. He supervised more than fifteen PhD students and a large number of master's degree students. In addition to his teaching activities in biology and ecology, he also undertook a wide range of scientific expert reports for various universities and scientific agencies in France and abroad. In particular, since 2006, he was an active and highly appreciated member of the IUCN Grouper and Wrasse Specialist Group, then too since 2012 of the Snapper, Seabream, and Grunt Specialist Group. He was working recently with IUCN colleagues on the preparation of fish species assessments for the IUCN Red List of threatened marine fishes, on both grouper and wrasse and certain other specific fish family groups, and on Mediterranean and Eastern Atlantic marine fishes in general.

One of the additional academic activities of Patrice was his involvement in scientific journals and funding agencies, as a reviewer, expert, board member, or editor. He was a reviewer for *Acta Ichthyologica et Piscatoria*, *Aquatic Conservation*, *Aquatic Invasions*, *Aquatic Living Resources*, *Biological Conservation*, *Environmental Conservation*, *Fisheries Research*, *Journal of Environmental Management*, *Journal of Fish Biology*, *Journal of the Marine Biological Association of the United Kingdom*, *Marine Biodiversity Records*, *Marine Biology*, *Marine Ecology Progress Series*, *Marine Environmental Research*, *Marine and Freshwater Research*, *PloS One*, and *Scientia Marina*. As a renown expert, in addition to the journals, he helped many funding agencies to evaluate applications: Fonds (National) de la Recherche Scientifique (F.R.S.-FNRS) (Belgium); Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER) (France); Agence Nationale de la Recherche (ANR) (France); Association Nationale Recherche Technologie – Conventions Industrielles de Formation par la Recherche (ANRT-CIFRE) (France); Commission Nationale Flotte Côtière (CNFC); Institut de Recherche pour le Développement (IRD), France; Private Foundations (France); Israeli Ministry of Science and Technology; and the American University of Beirut. His expertise in marine biology, ecology, and ichthyology had been acknowledged by journals that invited him to their editorial boards: *Mésogée* (2004–2019), *Marine Life* (2005–2019), *Pelagos* (2006–2019), and *Acta Ichthyologica et Piscatoria* (2009–2010). Patrice was also an Associate Editor at *Acta Ichthyologica et Piscatoria* (2010–2019) and *Scientific World Journal* (2013–2019). It would be difficult to estimate the total number of

reviews and expert opinions done by Patrice. Only for a single journal, such as *Acta Ichthyologica et Piscatoria* he provided at least 24 reviews. He devoted ten years of his life to *Acta Ichthyologica et Piscatoria* as an Associate Editor. During that time, he supervised 85 manuscripts. His

recommendations directed to the editor-in-chief helped to improve the final papers. Patrice's high professional reputation helped him to find suitable reviewers without a delay with only very few experts declined such invitations (finding reviewers becomes a very serious problem in



Fig. 3. Patrice Francour diving on the wreck *Donator* at Porquerolles (France) in July 2018; © Jerome Espla



Fig. 4. Patrice Francour counting groupers in Port-Cros National Parc 2009; © J.M. Cottalorda

academic publishing nowadays). He was very active in the developments of the journal always finding time to respond to inquiries of the editor-in-chief, suggesting best solutions, welcoming new members of the board, etc. Patrice was a great friend and colleague and he stood on his editorial post till the very end...

From New Zealand to the Mediterranean Sea, Patrice especially enjoyed fieldwork, diving with colleagues, observing fishes in nature, studying fish communities, tracking non-indigenous species...while passing pleasant moments in good company. He especially liked challenges.

One event in particular in Patrice's life deserves to be highlighted. In 1988, Patrice Francour narrowly escaped death during a field-trip devoted to the conservation of the monk seal in Mauritania. He was the only survivor of a group of five, when their jeep hit a mine. He showed great courage in recovering from his injuries but remained profoundly affected by this tragedy. If in that tragic event death let him escape, this has unfortunately not been the case with his recent illness. The void he has left to family, friends, and colleagues will remain unbridgeable.

But above all, we wish to remember him as he was. Patrice Francour was a researcher motivated by a deeply passionate interest in marine life, he was an excellent

underwater diver and photographer, sometimes tempted to dive a little too deep for his diving buddies, attracted by some small cryptic goby, one of his last passions! He dived underwater intensively throughout his life, and again plunged below the surface of the sea for the last time in July 2019, just before the worsening of his illness and his last journey.

Colleagues and friends, researchers, and divers, students and collaborators will greatly miss him, but we know for certain that anyone who knew him will keep alive the memory of the good times spent together. Our deepest thoughts and sympathy are with his family.

Vale, ciao, salut Patrice and rest in peace in the divers' paradise with your beloved grouper.

Epilogue: this text, with marginal modifications and few citations that have been added here, has been the object of a previously published obituary (Harmelin-Vivien et al. 2020) dedicated to Prof. Patrice Francour.

REFERENCE

Harmelin-Vivien M., Guidetti P., Raybaud V. 2020. *In memoriam* Professor Patrice Francour (April 13, 1960–October 13, 2019). *Cybium* 44 (1): 3–4. DOI: [10.26028/cybium/2020-441-012](https://doi.org/10.26028/cybium/2020-441-012)

Appendix 1

Bibliography of Patrice Francour updated on 05 April 2020 (international papers only*)

1. Schickele A., Leroy B., Beaugrand G., Goberville E., Hattab T., Francour P., Raybaud V. 2020. Modelling European small pelagic fish distribution: Methodological insights. *Ecological Modelling* 416: e108902. DOI: [10.1016/j.ecolmodel.2019.108902](https://doi.org/10.1016/j.ecolmodel.2019.108902)
2. Sadovy de Mitcheson Y.J., Linardich C., Barreiros J.P., Ralph G.M., Aguilar-Perera A., Afonso P., Erisman B.E., Pollard D.A., Fennessy S.T., Bertoncini A.A., Rekha J., Nair R.J., Rhodes K.L., Francour P., Brûlé T., Samoilys M.A., Ferreira B.P., Craig M.T. 2020. Valuable but vulnerable: Over-fishing and under-management continue to threaten groupers so what now? *Marine Policy* 116: e103909. DOI: [10.1016/j.marpol.2020.103909](https://doi.org/10.1016/j.marpol.2020.103909)
3. Giakoumi S., Katsanevakis S., Albano P.G., Azzurro E., Cardoso A.C., Cebrian E., Deidun A., Edelist D., Francour P., Jimenez C., Mačić V., Occhipinti-Ambrogi A., Rilov G., Sghaier Y.R., 2019. Management priorities for marine invasive species. *Science of the Total Environment* 688: 976–982. DOI: [10.1016/j.scitotenv.2019.06.282](https://doi.org/10.1016/j.scitotenv.2019.06.282)
4. Giakoumi S., Pey A., Thiriet P., Francour P., Guidetti P. 2019. Patterns of predation on native and invasive alien fish in Mediterranean protected and unprotected areas. *Marine Environmental Research* 150: e104792. DOI: [10.1016/j.marenvres.2019.104792](https://doi.org/10.1016/j.marenvres.2019.104792)
5. Cuadros A., Moranta J., Cardona L., Thiriet P., Francour P., Vidal E., Sintes J., Cheminée A. 2019. Juvenile fish in *Cystoseira* forests: Influence of habitat complexity and depth on fish behaviour and assemblage composition. *Mediterranean Marine Science* 20 (2): 380–392. DOI: [10.12681/mms.18857](https://doi.org/10.12681/mms.18857)
6. Giakoumi S., Pey A., Di Franco A., Francour P., Kizilkaya Z., Arda Y., Raybaud V., Guidetti P. 2018. Exploring the relationships between marine protected areas and invasive fish in the world's most invaded sea. *Ecological Applications* 29 (1): e01809.
7. Ben Lamine E., Di Franco A., Romdhane M.S., Francour P. 2018. Comparing commercial, recreational and illegal coastal fisheries catches and their economic values: A survey from the southern Mediterranean Sea. *Fisheries Management and Ecology* 25 (6): 456–463. DOI: [10.1111/fme.12321](https://doi.org/10.1111/fme.12321)
8. Riera E., Lamy D., Goulard C., Francour P., Hubas C. 2018. Biofilm monitoring as a tool to assess the efficiency of artificial reefs as substrates: Toward 3D printed reefs. *Ecological Engineering* 120: 230–237. DOI: [10.1016/j.ecoleng.2018.06.005](https://doi.org/10.1016/j.ecoleng.2018.06.005)
9. Taneez M., Hurel C., Mady F., Francour P. 2018. Capping of marine sediments with valuable industrial by-products: Evaluation of inorganic pollutants immobilization. *Environmental Pollution* 239: 714–721. DOI: [10.1016/j.envpol.2018.04.089](https://doi.org/10.1016/j.envpol.2018.04.089)
10. Ben Lamine E., Di Franco A., Romdhane M.S., Francour P. 2018. Can citizen science contribute to fish assemblages monitoring in understudied areas? The case study of Tunisian marine protected areas. *Estuarine, Coastal and Shelf Science* 200: 420–427. DOI: [10.1016/j.ecss.2017.11.031](https://doi.org/10.1016/j.ecss.2017.11.031)

* All publications are listed on ResearchGate https://www.researchgate.net/profile/Patrice_Francour

11. Ben Lamine E., Guidetti P., Romdhane M.S., Francour P. 2018. Fish assemblages along the coasts of Tunisia: A baseline study to assess the effectiveness of future Marine Protected Areas. Mediterranean Marine Science 19 (1): 11–20. DOI: 10.12681/mms.14206
12. Mouine-Oueslati N., Ines C., Ahlem R., Ktari M.-H., Francour P. 2017. First biological data on the well established Lessepsian migrant *Fistularia commersonii* (Fistulariidae) in the Gulf of Tunis (Central Mediterranean). Russian Journal of Marine Biology 43 (6): 503–506. DOI: 10.1134/S1063074017060062
13. Béarez P., Pruvost P., Feunteun E., Iglesias S., Francour P., Causse R., De Mazieres J., Tercerie S., Bailly N. 2017. Checklist of the marine fishes from metropolitan France. Cybium 41 (4): 351–371. DOI: 10.26028/cybium/2017-414-006
14. Cheminée A., Pastor J., Bianchimani O., Thiriet P., Sala E., Cottalorda J.-M., Dominici J.-M., Lejeune P., Francour P. 2017. Juvenile fish assemblages in temperate rocky reefs are shaped by the presence of macro-algae canopy and its three-dimensional structure. Scientific Reports 7: e14638. DOI: 10.1038/s41598-017-15291-y
15. Vandenbussche P.S.P., Spennato G., Francour P., Pierson P.M. 2018. Validation of a simple and well-suited chemical cleaning method for fish otoliths. Acta Zoologica 99 (3): 258–262. DOI: 10.1111/azo.12209
16. Prato G., Thiriet P., Di Franco A., Francour P. 2017. Enhancing fish underwater visual census to move forward assessment of fish assemblages: An application in three Mediterranean marine protected areas. PLoS ONE 12 (6): e0178511. DOI: 10.1371/journal.pone.0178511
17. Rouane-Hacene O., Boutiba Z., Benissa M., Belhaouari B., Francour P., Guibbolini-Sabatier M.E., Risso-De Faverney C. 2018. Seasonal assessment of biological indices, bioaccumulation, and bioavailability of heavy metals in sea urchins *Paracentrotus lividus* from Algerian west coast, applied to environmental monitoring. Environmental Science and Pollution Research 25: 11238–11251. DOI: 10.1007/s11356-017-8946-0
18. Tiquio M.G.J., Hurel C., Marmier N., Taneez M., Andral B., Jordan N., Francour P. 2017. Sediment-bound trace metals in Golfe-Juan Bay, northwestern Mediterranean: Distribution, availability and toxicity. Marine Pollution Bulletin 118 (1–2): 427–436. DOI: 10.1016/j.marpolbul.2017.02.065
19. Tiquio M.G.J., Marmier N., Francour P. 2017. Management frameworks for coastal and marine pollution in the European and south east Asian regions. Ocean and Coastal Management 135: 65–78. DOI: 10.1016/j.ocemoaman.2016.11.003
20. Piasecki W., Głabiński Z., Francour P., Koper P., Saba G., García A.M., Ünal V., Karachle P.K., Lepetit A., Tservenis R., Kızılıkaya Z., Stergiou K.I. 2016. Pescatourism—A European review and perspective. Acta Ichthyologica et Piscatoria 46 (4): 325–350. DOI: 10.3750/AIP2016.46.4.06
21. Di Franco A., Thiriet P., Di Carlo G., Dimitriadis C., Francour P., Gutiérrez N., Jeudy de Grissac A., Koutsoubas D., Milazzo M., Otero M., Piante C., Plass-Johnson J., Sainz-Trapaga S., Santarossa L., Tudela S., Guidetti P. 2016. Five key attributes can increase marine protected areas performance for small scale fisheries management. Scientific Reports 6: e38135. DOI: 10.1038/srep38135
22. Prato G., Barrier C., Francour P., Cappanera V., Markantonatou V., Guidetti P., Mangialajo L., Cattaneo-Vietti R., Gascuel D. 2016. Assessing the interacting impacts of artisanal and recreational fisheries in a small Marine Protected Area (Portofino, NW Mediterranean Sea). Ecosphere 7 (12): e01601. DOI: 10.1002/ecs2.1601
23. Thiriet P.D., Di Franco A., Cheminée A., Guidetti P., Bianchimani O., Basthard-Bogain S., Cottalorda J.M., Arceo H., Moranta J., Lejeune P., Francour P., Mangialajo L. 2016. Abundance and diversity of crypto- and necto-benthic coastal fish are higher in marine forests than in structurally less complex macroalgal assemblages. PLoS ONE 11 (10): e0164121. DOI: 10.1371/journal.pone.0164121
24. Romdhani A., Ktari M.-H., Dufour J.L., Mahe K., Francour P. 2016. Growth and age estimation of the greater forkbeard, *Phycis blennoides* (Actinopterygii: Gadiformes: Phycidae), from the Gulf of Tunis (central Mediterranean). Acta Ichthyologica et Piscatoria 46 (1): 25–32. DOI: 10.3750/AIP2016.46.1.03
25. Cheminée A., Merigot B., Vanderklift M.A., Francour P. 2016. Does habitat complexity influence fish recruitment? Mediterranean Marine Science 17 (1): 39–46. DOI: 10.12681/mms.1231
26. Rouane-Hacene O., Boutiba Z., Belhaouari B., Guibbolini-Sabatier M.E., Francour P., Risso-de Faverney C. 2015. Seasonal assessment of biological indices, bioaccumulation and bioavailability of heavy metals in mussels *Mytilus galloprovincialis* from Algerian west coast, applied to environmental monitoring. Oceanologia 57 (4): 362–374. DOI: 10.1016/j.oceano.2015.07.004
27. Bussotti S., Di Franco A., Francour P., Guidetti P. 2015. Fish assemblages of Mediterranean marine caves. PLoS ONE 10 (4): e0122632. DOI: 10.1371/journal.pone.0122632
28. Tessier A., Francour P., Charbonnel E., Dalias N., Bodilis P., Seaman W., Lenfant P. 2015. Assessment of French artificial reefs: Due to limitations of research, trends may be misleading. Hydrobiologia 753: 1–29. DOI: 10.1007/s10750-015-2213-5
29. Chater I., Romdhani A., Dufour J.L., Mahe K., Francour P., Chakroun-Marzouk N. 2015. Otolith growth and age estimation of bastard grunt, *Pomadasys incisus* (Actinopterygii: Perciformes: Haemulidae) in the Gulf of Tunis (Central Mediterranean). Acta Ichthyologica et Piscatoria 45 (1): 57–64. DOI: 10.3750/AIP2015.45.1.06

30. Kara M.H., Ben Lamine E., Francour P. 2015. Range expansion of the invasive pufferfish, *Lagocephalus sceleratus* (Actinopterygii: Tetraodontiformes: Tetraodontidae) to the south-western Mediterranean. *Acta Ichthyologica et Piscatoria* 45 (1): 103–108. DOI: 10.3750/AIP2015.45.1.13
31. Parravicini V., Mangialajo L., Mousseau L., Peirano A., Morri C., Montefalcone M., Francour P., Kulbicki M., Bianchi C.N. 2015. Climate change and warm-water species at border ecosystems in the Mediterranean Sea. *Marine Ecology-An Evolutionary Perspective* 36 (4): 897–909. DOI: 10.1111/maec.12277
32. Prato G., Gascuel D., Valls A., Francour P. 2014. Balancing complexity and feasibility in Mediterranean coastal food-web models: Uncertainty and constraints. *Marine Ecology Progress Series* 512: 71–88. DOI: 10.3354/meps10988
33. Colléter M., Gascuel D., Albouy C., Francour P., Tito de Morais L., Valls A., Le Loc'h F. 2014. Fishing inside or outside? A case studies analysis of potential spillover effect from marine protected areas, using food web models. *Journal of Marine Systems* 139: 383–395. DOI: 10.1016/j.jmarsys.2014.07.023
34. Marengo M., Durieux E.D.H., Marchand B., Francour P. 2014. A review of biology, fisheries and population structure of *Dentex dentex*. *Reviews in Fish Biology and Fisheries* 24: 1065–1088. DOI: 10.1007/s11160-014-9363-9
35. Seytre C., Francour P. 2014. A long term survey of *Posidonia oceanica* fish assemblages in a Mediterranean marine protected area: Emphasis on stability and no-take area effectiveness. *Marine and Freshwater Research* 65 (3): 244–254. DOI: 10.1071/MF13080
36. Bodilis P., Louisy P., Draman M., Arceo H.O., Francour P. 2014. Can citizen science survey non-indigenous fish species in the Eastern Mediterranean Sea? *Environmental Management* 53: 172–180. DOI: 10.1007/s00267-013-0171-0
37. Asnaghi V., Mangialajo L., Gattuso J.-P., Francour P., Privitera D., Chiantore M. 2014. Effects of ocean acidification and diet on thickness and carbonate elemental composition of the test of juvenile sea urchins. *Marine Environmental Research* 93: 78–84. DOI: 10.1016/j.marenvres.2013.08.005
38. Gianni F., Bartolini F., Airolidi L., Ballesteros E., Francour P., Guidetti P., Meinesz A., Thibaut T., Mangialajo L. 2013. Conservation and restoration of marine forests in the Mediterranean Sea and the potential role of Marine Protected Areas. *Advances in Oceanography and Limnology* 4(2): 83–101. DOI: 10.1080/19475721.2013.845604
39. Prato G., Guidetti P., Bartolini F., Mangialajo L., Francour P. 2013. The importance of high-level predators in marine protected area management: Consequences of their decline and their potential recovery in the Mediterranean context. *Advances in Oceanography and Limnology* 4 (2): 176–193. DOI: 10.1080/19475721.2013.841754
40. Tessier A., Pastor J., Francour P., Saragoni G., Crec'hriou R., Lenfant P. 2013. Video transect as a complement to underwater visual census to study reserve effect on fish assemblages. *Aquatic Biology* 18 (3): 229–241. DOI: 10.3354/ab00506
41. Asnaghi V., Chiantore M., Mangialajo L., Gazeau F., Francour P., Alliouane S., Gattuso J.-P. 2013. Cascading effects of ocean acidification in a rocky subtidal community. *PLoS ONE* 8 (4): e61978. DOI: 10.1371/journal.pone.0061978
42. Seytre C., Vanderklift M., Bodilis P., Cottalorda J.-M., Gratiot J., Francour P. 2013. Assessment of commercial and recreational fishing effects on trophic interactions in the Cap Roux area (north-western Mediterranean). *Aquatic Conservation: Marine and Freshwater Ecosystems* 23 (2): 189–201. DOI: 10.1002/aqc.2309
43. Bodilis P., Crocetta F., Langeneck J., Francour P. 2013. The spread of an Atlantic fish species, *Pomadasys incisus* (Bowdich, 1825) (Osteichthyes: Haemulidae), within the Mediterranean Sea with new additional records from the French Mediterranean coast. *Italian Journal of Zoology* 80 (2): 273–278. DOI: 10.1080/11250003.2012.730555
44. Cheminée A., Sala E., Pastor J., Bodilis P., Thiriet T., Mangialajo L., Cottalorda J.-M., Francour P. 2013. Nursery value of *Cystoseira* forests for Mediterranean rocky reef fishes. *Journal of Experimental Marine Biology and Ecology* 442: 70–79. DOI: 10.1016/j.jembe.2013.02.003
45. Arceo H., Cazalet B., Aliño P.M., Mangialajo L., Francour P. 2013. Moving beyond a top-down fisheries management approach in the northwestern Mediterranean: Some lessons from the Philippines. *Marine Policy* 39: 29–42. DOI: 10.1016/j.marpol.2012.10.006
46. Bodilis P., Cheminée A., Miniconi R., Arceo H., Francour P. 2012. Occurrences of the Atlantic species, *Pisodonophis semicinctus* (Osteichthyes: Ophichthidae), along the Mediterranean coast. *Journal of Applied Ichthyology* 28 (4): 652–654. DOI: 10.1111/j.1439-0426.2012.02010.x
47. Valls A., Gascuel D., Guénette S., Francour P. 2012. Modeling trophic interactions to assess the potential effects of a marine protected area: Case study in the NW Mediterranean Sea. *Marine Ecology Progress Series* 456: 201–214. DOI: 10.3354/meps09701
48. Sartoretto S., Francour P. 2012. Bathymetric distribution and growth rates of *Eunicella verrucosa* (Cnidaria: Gorgoniidae) populations along the Marseilles coast (France). *Scientia Marina* 76 (2): 349–355. DOI: 10.3989/scimar.03262.16B
49. Mouine N., Francour P., Ktari M.H., Chakroun-Marzouk N. 2012. Reproductive biology of four *Diplodus* species *Diplodus vulgaris*, *D. annularis*, *D. sargus sargus* and *D. puntazzo* (Sparidae) in the Gulf of Tunis (central Mediterranean). *Journal of the Marine Biological Association of the United Kingdom* 92 (3): 623–631. DOI: 10.1017/S0025315411000798

50. Forcioli D., Merle P.-L., Caligara C., Ciosi M., Muti C., Francour P., Cerrano C., Allemand D. 2011. Symbiont diversity is not involved in depth acclimation in the Mediterranean Sea whip *Eunicella singularis*. *Marine Ecology Progress Series* 439: 57–71. DOI: 10.3354/meps09314
51. Durrieu de Madron X., Guieu C., Sempéré R., Conan P., Cossa D., D'Ortenzio F., Estournel C., Gazeau F., Rabouille C., Stemmann L., Bonnet S., Diaz F., Koubbi P., Radakovitch O., Babin M., Baklouti M., Bancon-Montigny C., Belviso S., Bensoussan N., Bonsang B., Bouloubassi I., Brunet C., Cadiou J.-F., Carlotti F., Chami M., Charmasson S., Charrière B., Dachs J., Doxaran D., Dutay J.-C., Elbaz-Poulichet F., Eléaume M., Eyrolles F., Fernandez C., Fowler S., Francour P., Gaertner J.C., Galzin R., Gasparini S., Ghiglione J.-F., Gonzalez J.-L., Goyet C., Guidi L., Guizien K., Heimbürger L.-E., Jacquet S.H.M., Jeffrey W.H., Joux F., Le Hir P., Leblanc K., Lefèvre D., Lejeusne C., Lemé R., Loë-Pilot M.-D., Mallet M., Méjanelle L., Mélin F., Mellon C., Mérigot B., Merle P.-L., Migon C., Miller W.L., Mortier L., Mostajir B., Mousseau L., Moutin T., Para J., Pérez T., Petrenko A., Poggiale J.-C., Prieur L., Pujo-Pay M., Pulido-Villena E., Raimbault P., Rees A.P., Ridame C., Rontani J.-F., Ruiz Pino D., Sicre M.A., Taillandier V., Tamburini C., Tanaka T., Taupier-Letage I., Tedetti M., Testor P., Thébault H., Thouvenin B., Touratier F., Tronczynski J., Ulses C., Van Wambeke F., Vantrepotte V., Vaz S., Verney R. 2011. Marine ecosystems' responses to climatic and anthropogenic forcings in the Mediterranean. *Progress in Oceanography* 91 (2): 97–166. DOI: 10.1016/j.pocean.2011.02.003
52. Bodilis P., Seytre C., Charbonnel E., Francour P. 2011. Monitoring of the fish assemblages of the artificial reefs of Golfe Juan marine protected area (France, north-western Mediterranean). *Brazilian Journal of Oceanography* 59 (No. Spec. 1): 167–176. DOI: 10.1590/S1679-87592011000300018
53. Cheminée A., Francour P., Harmelin-Vivien M. 2011. Assessment of *Diplodus* spp. (Sparidae) nursery grounds along the rocky shore of Marseilles (France, NW Mediterranean). *Scientia Marina* 75 (1): 181–188. DOI: 10.3989/scimar.2011.75n1181
54. Pastor J., Francour P. 2010. Occurrence and distribution range of *Parablennius pilicornis* (Cuvier, 1829) (Actinopterygii: Perciformes: Blenniidae) along the French Mediterranean coast. *Acta Ichthyologica et Piscatoria* 40 (2): 179–185. DOI: 10.3750/AIP2010.40.2.11
55. Schembri P.J., Bodilis P., Evans J., Francour P. 2010. Occurrence of barred knifejaw, *Oplegnathus fasciatus* (Actinopterygii: Perciformes: Oplegnathidae), in Malta (central Mediterranean) with a discussion on possible modes of entry. *Acta Ichthyologica et Piscatoria* 40 (2): 101–104. DOI: 10.3750/AIP2010.40.2.01
56. Risso-de Faverney C., Guibbolini-Sabatier M.E., Francour P. 2010. An ecotoxicological approach with transplanted mussels (*Mytilus galloprovincialis*), for assessing the impact of tyre reefs immersed along the NW Mediterranean Sea. *Marine Environmental Research* 70 (1): 87–94. DOI: 10.1016/j.marenres.2010.03.007
57. Francour P., Cottalorda J.-M., Aubert M., Bava S., Colombey M., Gilles P., Kara H., Lelong P., Mangialajo L., Miniconi R., Quignard J.-P. 2010. Recent occurrences of opah *Lampris guttatus* (Lampridae) in the western Mediterranean Sea. *Acta Ichthyologica et Piscatoria* 40 (1): 91–98. DOI: 10.3750/AIP2010.40.1.15
58. Lassauque J., Lepoint G., Thibaut T., Francour P., Meinesz A. 2010. Tracing sewage and natural freshwater input in a northwest Mediterranean bay: Evidence obtained from isotopic ratios in marine organisms. *Marine Pollution Bulletin* 60 (6): 843–851. DOI: 10.1016/j.marpolbul.2010.01.008
59. Daniel B., Piro S., Charbonnel E., Francour P., Letourneau Y. 2009. Lessepsian rabbitfish *Siganus luridus* reached the French Mediterranean coasts. *Cybium* 33 (2): 163–164.
60. Seytre C., Francour P. 2009. The Cap Roux MPA (Saint-Raphaël, French Mediterranean): Changes in fish assemblages within four years of protection. *ICES Journal of Marine Science* 66 (1): 180–187. DOI: 10.1093/icesjms/fsn196
61. Francour P. 2008. First records of *Didogobius splechtnai* along the French Mediterranean coast and additional comments about *D. schlieweni*. *Acta Ichthyologica et Piscatoria* 38 (2): 139–142. DOI: 10.3750/AIP2008.38.2.09
62. Seytre C., Francour P. 2008. Is the Cape Roux marine protected area (Saint-Raphaël, Mediterranean Sea) an efficient tool to sustain artisanal fisheries? First indications from visual censuses and trammel net sampling. *Aquatic Living Resources* 21 (3): 297–305. DOI: 10.1051/alar:2008043
63. Francour P., Mouine N. 2008. First record of *Kyphosus sectator* (Linnaeus, 1758) (Kyphosidae) along the French Mediterranean coast. *Cybium* 32 (3): 275–276.
64. Francour P., Mangialajo L. 2007. *Gobius kolombatovici*, a common species of Gobiidae in the north-western Mediterranean Sea? *Cybium* 31 (3): 389–390.
65. Mouine N., Francour P., Ktari M.-H., Chakroun-Marzouk N. 2007. The reproductive biology of *Diplodus sargus sargus* in the Gulf of Tunis (central Mediterranean). *Scientia Marina* 71 (3): 461–469.
66. Dufour F., Guidetti P., Francour P. 2007. Comparaison des inventaires de poissons dans les aires marines protégées de Méditerranée : influence de la surface et l'ancienneté. *Cybium* 31 (1): 19–31.
67. Casagrande C., Boudouresque C.F., Francour P. 2005. Abundance, population structure and production of *Hydrobia ventrosa* (Gastropoda: Prosobranchia) in a Mediterranean brackish lagoon, Lake Ichkeul, Tunisia. *Archiv für Hydrobiologie* 164 (3): 411–428. DOI: 10.1127/0003-9136/2005/0164-0411

68. Pergent-Martini C., Leoni V., Pasqualini V., Ardizzone G. D., Balestri E., Bedini R., Belluscio A., Belsher T., Borg J., Boudouresque C.F., Boumaza S., Bouquegneau J.M., Buia M.C., Calvo S., Cebrian J., Charbonnel E., Cinelli F., Cossu A., Di Maida G., Dural B., Francour P., Gobert S., Lepoint G., Meinesz A., Molenaar H., Mansour H.M., Panayoditis P., Peirano A., Pergent G., Piazz L., Pirrotta M., Relini G., Romero J., Sanchez-Lizaso J.L., Semroud R., Shembri P., Shili A., Tomasello A., Velmirov B. 2005. Descriptors of *Posidonia oceanica* meadows: Use and application. Ecological Indicators 5 (3): 213–230. DOI: 10.1016/j.ecolind.2005.02.004
69. Longepierre S., Robert A., Levi F., Francour P. 2005. How invasive alga species (*Caulerpa taxifolia*) induces changes in foraging strategies of the benthivorous fish *Mullus surmuletus* in coastal Mediterranean ecosystems. Biodiversity and Conservation 14: 365–376. DOI: 10.1007/s10531-004-5356-7
70. Levi F., Francour P. 2004. Behavioural response of *Mullus surmuletus* to habitat modification by the invasive macroalga *Caulerpa taxifolia*. Journal of Fish Biology 64 (1): 55–64. DOI: 10.1111/j.1095-8649.2004.00280.x
71. Bodilis P., Ganteaume A., Francour P. 2003. Recruitment of the dusky grouper (*Epinephelus marginatus*) in the north-western Mediterranean Sea. Cybium 27 (2): 123–129.
72. Francour P., Javel F. 2003. Recent occurrences of young *Schedophilus ovalis* (Centrolophidae) along French Mediterranean coasts. Cybium 27 (1): 57–58.
73. Bodilis P., Ganteaume A., Francour P. 2003. Presence of 1 year-old dusky groupers along the French Mediterranean coast. Journal of Fish Biology 62 (1): 242–246. DOI: 10.1046/j.1095-8649.2003.00028.x
74. Arigoni S., Francour P., Harmelin-Vivien M., Zaninetti L. 2002. Adaptive coloration of Mediterranean labrid fishes to the new habitat provided by the introduced tropical alga *Caulerpa taxifolia*. Journal of Fish Biology 60 (6): 1486–1497. DOI: 10.1111/j.1095-8649.2002.tb02442.x
75. Francour P., Harmelin J.-G., Pollard D., Sartoretto S. 2001. A review of marine protected areas in the northwestern Mediterranean region: Sitting, usage, zonation and management. Aquatic Conservation: Marine and Freshwater Ecosystems 11 (3): 155–188. DOI: 10.1002/aqc.442
76. Soltan D., Verlaque M., Boudouresque C.F., Francour P. 2001. Changes in macroalgal communities in the vicinity of a Mediterranean sewage outfall after the setting up of a treatment plant. Marine Pollution Bulletin 42 (1): 59–70. DOI: 10.1016/S0025-326X(00)00116-8
77. Pinnegar J.K., Polunin N.V.C., Francour P., Badalamenti F., Chemello R., Harmelin-Vivien M., Hereu B., Milazzo M., Zabala M., D'Anna G., Pipitone C. 2000. Trophic cascades in benthic marine ecosystems: Lessons for fisheries and protected-area management. Environmental Conservation 27 (2): 179–200. DOI: 10.1017/S0376892900000205
78. Guettaf M., San Martin G.A., Francour P. 2000. Interpopulation variability of the reproductive cycle of *Paracentrotus lividus* (Echinodermata: Echinoidea) in the south-western Mediterranean. Journal of the Marine Biological Association of the United Kingdom 80 (5): 899–907. DOI: 10.1017/S0025315400002885
79. Ruitton S., Francour P., Boudouresque C.F. 2000. Relationships between algae, benthic herbivorous invertebrates and fishes in rocky sublittoral communities of a temperate sea (Mediterranean). Estuarine, Coastal and Shelf Science 50 (2): 217–230. DOI: 10.1006/ecss.1999.0546
80. Francour P., Ganteaume A., Poulaing M. 1999. Effect of boat anchoring in *Posidonia oceanica* seagrass beds in the Port-Cros national park (north-western Mediterranean Sea). Aquatic Conservation: Marine and Freshwater Ecosystems 9 (4): 391–400. DOI: 10.1002/(SICI)1099-0755(199907/08)9:4<391::AID-AQC356>3.0.CO;2-8
81. Ganteaume A., Gobert J., Malestroit P., Ménager V., Francour P., Boudouresque C.F. 1998. In vitro consumption of *Caulerpa taxifolia* (Chlorophyta) by accustomed and non-accustomed *Paracentrotus lividus* (echinoid): Seasonal variation. Journal of the Marine Biological Association of the United Kingdom 78 (1): 239–248. DOI: 10.1017/S0025315400040066
82. Sartoretto S., Francour P., Harmelin J.G., Charbonnel E. 1997. Observations in situ de deux Labridae profonds, *Lappanella fasciata* et *Acantholabrus palloni*, en Méditerranée nord-occidentale. Cybium 21 (1): 37–44.
83. Sartoretto S., Francour P. 1997. Quantification of bioerosion by *Sphaerechinus granularis* on ‘coralligene’ concretions of the western Mediterranean. Journal of the Marine Biological Association of the United Kingdom 77 (2): 565–568. DOI: 10.1017/S0025315400071885
84. Macpherson E., Biagi F., Francour P., Garcia-Rubies A., Harmelin J., Harmelin-Vivien M., Jouvenel J.Y., Planes S., Vigliola L., Tunesi L. 1997. Mortality of juvenile fishes of the genus *Diplodus* in protected and unprotected areas in the western Mediterranean Sea. Marine Ecology Progress Series 160: 135–147. DOI: 10.3354/meps160135
85. Francour P. 1997. Fish assemblages of *Posidonia oceanica* beds at Port-Cros (France, NW Mediterranean): Assessment of composition and long-term fluctuations by visual census. P.S.Z.N.: Marine Ecology 18 (2): 157–173. DOI: 10.1111/j.1439-0485.1997.tb00434.x
86. Francour P. 1997. Predation on holothurians: A literature review. Invertebrate Biology 116 (1): 52–60. DOI: 10.2307/3226924
87. Francour P., Thibault J.-C. 1996. The diet of breeding osprey *Pandion haliaetus* on Corsica: Exploitation of a coastal marine environment. Bird Study 43 (2): 129–133. DOI: 10.1080/00063659609461004

88. Francour P., Harmelin-Vivien M., Harmelin J.G., Duclerc J. 1995. Impact of *Caulerpa taxifolia* colonization on the littoral ichthyofauna of north-western Mediterranean Sea: Preliminary results. *Hydrobiologia* 300/301: 345–353. DOI: 10.1007/BF00024475
89. Francour P., Boudouresque C.F., Harmelin J.G., Harmelin-Vivien M., Quignard J.P. 1994. Are the Mediterranean waters becoming warmer ? Information from biological indicators. *Marine Pollution Bulletin* 28 (9): 523–526. DOI: 10.1016/0025-326X(94)90071-X
90. Francour P. 1994. Pluriannual analysis of the reserve effect on ichtyofauna in the Scandola natural reserve (Corsica, northwestern Mediterranean). *Oceanologica Acta* 17 (3): 309–317.
91. Harmelin-Vivien M.L., Francour P. 1992. Trawling or visual censuses ? Methodological bias in the assessment of fish populations in seagrass beds. P.S.Z.N.I.: *Marine Ecology* 13 (1): 41–51. DOI: 10.1111/j.1439-0485.1992.tb00338.x
92. Francour P., Semroud R. 1992. Calculation of the root area index in *Posidonia oceanica* in the western Mediterranean. *Aquatic Botany* 42 (3): 281–286. DOI: 10.1016/0304-3770(92)90029-I