

Carla Sousa Santos | Marine Biology Degree (2001, FCUL) and PhD in Biology (2007, Univ. Lisboa). Post-doctoral fellow (MARE grant) at MARE-ISP, dedicated to conservation and population genetics of aquatic organisms. Main specialization areas: Freshwater ichthyofauna, Population and Conservation Genetics, Fish Taxonomy, Phylogeny and Phylogeography, Fish Reproductive Behaviour and *Ex-situ* Conservation. Team member of a pioneer ex-situ conservation program for restocking purposes since 2007. Published 32 papers in international peer-reviewed journals, presented posters and oral communications in more than 30 national and international meetings, and published the first Portuguese Genetic Diversity Atlas for native cyprinid fish. Successfully obtained funding as a PI from FCT competitive calls (PTDC/AAC-CLI/103110/2008; 136000€) and participated as team member in other 6 research projects (funded by FCT, MCT Spain, BIODIBERIA and ISPA/INETI) and in LIFE projects (LIFE09/PT/000048 and LIFE09/PT/000073). Teaching assistant in Biology courses (Msc in Psychology and Msc in Marine Biology and Conservation, ISPA) and guest lecturer in several courses (ISPA, ISA, FCUL). Supervision of 2 MSc students and 2 graduate students. Scientific knowledge transfer as a freshwater fish specialist includes training courses for Biology teachers, seminars/workshops directed to a variety of audiences and several outreach activities. Participated in multidisciplinary teams to conduct environmental impact studies and in the scientific committee of LIFE projects (LIFE13/PT/000786 and LIFE13/ES/000772). Member of the IUCN Species Survival Commission and consultant of FishBase, Municipalities and NGO's. Researcher ID: B-5385-2012; Scopus Author ID: 12769973800

Publications:

33. Sousa-Santos C, Robalo JI, Pereira A, Branco P, Santos JM, Ferreira MT, Sousa M, Doadrio I. (2016) Broad-scale sampling of primary freshwater fish populations reveals the role of intrinsic traits, inter-basin connectivity, drainage area and latitude on shaping contemporary patterns of genetic diversity. *PeerJ* 4:e1694; DOI 10.7717/peerj.1694
32. Amorim MCP, Conti C, Sousa-Santos C, Novais B, Gouveia MD, Vicente JR, Modesto T, Gonçalves A, Fonseca PJ (2016) Reproductive success in the Lusitanian toadfish: influence of calling activity, male quality and experimental design. *Physiology and Behaviour* 155:17-24
31. Félix PM, Amorim MCP, Fonseca PJ, Sousa-Santos C, Costa JL (online first) Feeding ecology and life-history strategy of nesting males in a fish with long parental care, *Halobatrachus didactylus* (Bloch & Schneider, 1801). *Journal of the Marine Biological Association of the United Kingdom*. DOI:http://dx.doi.org/10.1017/S0025315415001022
30. Sousa-Santos C, Fonseca PJ, Amorim MCP (2015) Development and characterization of novel microsatellite loci for Lusitanian toadfish *Halobatrachus didactylus*. *PeerJ* 3:e731; DOI 10.7717/peerj.731
29. Pereira AM, Brito C, Sanches J, Sousa-Santos C, Robalo JI (2014) Absence of consistent genetic differentiation among several morphs of Actinia (Actiniaria: Actiniidae) occurring in the Portuguese coast. *Zootaxa* 3893(4):595-600
28. Sousa-Santos C, Robalo JI, Francisco SM, Carrapato C, Cardoso AC, Doadrio I (2014) Metapopulations in temporary streams – the role of drought-flood cycles in promoting high genetic diversity in a critically endangered freshwater fish and its consequences for the future. *Molecular Phylogenetics and Evolution* 80:281-296. DOI: 10.1016/j.ympev.2014.08.007
27. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Cobitis vettonica*. *Croatian Journal of Fisheries* 72:245-248 DOI 10.14798/72.4.747
26. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Achondrostoma salmantinum*. *Croatian Journal of Fisheries* 72:128-129 DOI: 10.14798/72.3.745
25. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Squalius malacitanus*. *Croatian Journal of Fisheries* 72:136-137 DOI: 10.14798/72.3.739
24. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Squalius castellanus*. *Croatian Journal of Fisheries* 72:134-135 DOI: 10.14798/72.3.737
23. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Cottus hispaniolensis*. *Croatian Journal of Fisheries* 72:132-133 DOI: 10.14798/72.3.735
22. Sousa-Santos C, Robalo J, Pereira A, I Doadrio (2014) Threatened fishes of the world: *Cottus aturi*. *Croatian Journal of Fisheries* 72:130-131 DOI: 10.14798/72.3.733
21. Sousa-Santos C, Robalo J, Almada V (2014) Spawning behavior of a threatened Iberian cyprinid and its implications for conservation. *Acta Ethologica* 17:99-106 DOI: 10.1007/s10211-014-0185-5
20. Sousa-Santos C, Gante HF, Robalo J, Proença Cunha P, Martins A, Arruda M, Alves MJ, Almada V (2014) Evolutionary history and population genetics of a cyprinid fish (*Iberochondrostoma olisiponensis*) endangered by introgression from a more abundant relative. *Conservation Genetics* 15:665-677. DOI 10.1007/s10592-014-0568-1
19. Sousa-Santos C, Gil F, Almada V (2014) Ex-situ reproduction of Portuguese endangered cyprinids in the context of their conservation. *Ichthyological Research* 61:193-198. DOI: 10.1007/s10228-013-0383-6

18. Robalo J, **Sousa-Santos C**, Coelho MM, Almada VC (2013) Threatened fishes of the world: *Iberochondrostoma almaiai* Coelho, Mesquita & Collares-Pereira, 2005 (Cyprinidae). *Croatian Journal of Fisheries* 71:147-148. <http://ribarstvo.agr.hr/volumes.php?lang=en&search=Article%3A664>
17. Almada V & **Sousa-Santos C** (2010) Comparisons of the genetic structure of *Squalius* populations (Pisces, Cyprinidae) from rivers with contrasting histories, drainage areas and climatic conditions. *Molecular Phylogenetics and Evolution* 57:924-931. Doi: 10.1016/j.ympev.2010.08.015
16. Gil F, **Sousa-Santos C** & Almada V (2010) A simple and inexpensive technique for the *ex-situ* reproduction of critically endangered Cyprinids – *Achondrostoma occidentale* as a case study. *Journal of the World Aquaculture Society* 41(4):661-664. DOI: 10.1111/j.1749-7345.2010.00408.x
15. **Sousa-Santos C**, Robalo JI & Almada V (2010) Threatened fishes of the world: *Squalius torgalensis* Coelho, Bogutskaya, Rodrigues & Collares-Pereira, 1998 (Cyprinidae). *Environmental Biology of Fishes* 87:123-124. DOI 10.1007/s10641-009-9567-3.
14. **Sousa-Santos C**, Robalo JI & Almada V (2009) Threatened fishes of the world: *Squalius aradensis* Coelho, Bogutskaya, Rodrigues & Collares-Pereira, 1998 (Cyprinidae). *Environmental Biology of Fishes* 86(4):457-458. DOI 10.1007/s10641-009-9550-z
13. Robalo JI, **Sousa-Santos C**, Almada VC (2009) Threatened fishes of the world: *Iberochondrostoma lusitanicum* Collares-Pereira, 1980 (Cyprinidae). *Environmental Biology of Fishes* 86:295-296. DOI 10.1007/s10641-009-9510-7
12. Robalo JI, **Sousa-Santos C**, Cabral H, Castilho R & Almada VC (2009) Genetic evidence fails to discriminate between *Macroramphosus gracilis* Lowe 1839 and *M. scolopax* Linnaeus 1758 in Portuguese waters. *Marine Biology* 156(8):1733-1737. DOI 10.1007/s00227-009-1197-y
11. Robalo J, **Sousa-Santos C**, Doadrio I & Almada V (2008) Threatened fishes of the world: *Achondrostoma occidentale* Robalo, Almada, Sousa-Santos, Moreira and Doadrio, 2005. *Environmental Biology of Fishes* 83(3):347. DOI 10.1007/s10641-008-9348-4
10. **Sousa-Santos C**, MJ Collares-Pereira & VC Almada (2007) Fertile triploid males – an uncommon case among hybrid vertebrates. *Journal of Experimental Zoology Part A: Ecological Genetics and Physiology* 307A(4): 220-225. DOI 10.1002/jez.363
9. Vinyoles D, JI Robalo, A de Sostoa A, A Almodôvar, B Elvira, GG Incola, C Fernández-Delgado, **C Sousa-Santos**, I Doadrio, F Sardà-Palomera & VC Almada (2007) Spread of the alien bleak *Alburnus alburnus* (L., 1758) in the Iberian Peninsula. *Graellsia* 63(1): 101-110. DOI 10.3989/graellsia.2007.v63.i1.84
8. **Sousa-Santos C**, MJ Collares-Pereira & VC Almada (2007) Reading the history of a hybrid fish complex from its molecular record. *Molecular Phylogenetics and Evolution* 45: 981-996. DOI 10.1016/j.ympev.2007.05.011
7. **Sousa-Santos C**, MJ Collares-Pereira & VC Almada (2006) Reproductive success of nuclear nonhybrid males of *Squalius alburnoides* hybridogenetic complex (Teleostei, Cyprinidae): an example of interplay between female choice and ecological pressures? *Acta Ethologica* 9(1): 31-36. DOI 10.1007/s10211-006-0012-8
6. **Sousa-Santos C**, MJ Collares-Pereira & VC Almada (2006) Evidence of extensive mitochondrial introgression with nearly complete substitution of the typical *Squalius pyrenaicus*-like mtDNA of the *Squalius alburnoides* complex (Cyprinidae) in an independent Iberian drainage. *Journal of Fish Biology* 68 (Supplement B): 292-301. DOI 10.1111/j.0022-1112.2006.01081.x
5. **Sousa-Santos C**, MJ Collares-Pereira & VC Almada (2006) May a hybridogenetic complex regenerate the nuclear genome of both sexes of a missing ancestor? - First evidence on the occurrence of a nuclear nonhybrid *Squalius alburnoides* (Cyprinidae) female based on DNA sequencing. *Journal of Natural History* 40(23-24): 1443-1448. DOI 10.1080/00222930600934111
4. Robalo JI, **C Sousa-Santos**, VC Almada & I Doadrio (2006) Paleobiogeography of two Iberian endemic cyprinid fishes (*Chondrostoma arcasii*-*Chondrostoma macrolepidotus*) inferred from mitochondrial sequence data. *Journal of Heredity* 97(2): 143-149. DOI 10.1093/jhered/esj025
3. Robalo JI, **C Sousa-Santos**, A Levy & VC Almada (2006) Molecular insights on the taxonomic position of the paternal ancestor of the *Squalius alburnoides* hybridogenetic complex. *Molecular Phylogenetics and Evolution* 39(1): 276-281. DOI 10.1016/j.ympev.2005.08.009
2. **Sousa-Santos C**, JI Robalo, MJ Collares-Pereira & VC Almada (2005) Heterozygous indels as useful tools in haplotype reconstruction of DNA nuclear genes of hybrid organisms – an example using cyprinid fishes. *DNA Sequence* 16(6): 462-467. DOI 10.1080/10425170500356065
1. Robalo JI, VC Almada, **C Sousa-Santos**, I Moreira & I Doadrio (2005) *Chondrostoma occidentale*, a new species of the genus *Chondrostoma* Agassiz, 1832 (Actynopterygii, Cyprinidae) from western Portugal. *Graellsia* 61(1): 19-29. DOI 10.3989/graellsia.2005.v61.i1.3