



List of key FAO publications related to Aquatic Genetic Resources for Food and Agriculture

| 2023 |
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| <p>FAO. 2023. Lessons from two decades of tilapia genetic improvement in Africa – Genetics in aquaculture. A case study. Rome. https://doi.org/10.4060/cc4618en (see https://www.fao.org/documents/card/en/c/cc3600en for summary version).</p> |
| <p>FAO. 2023. Proactive approach proved key to survival for the Australian Pacific oyster industry – Genetics aquaculture. A case study. Rome. https://doi.org/10.4060/cc4389en (see https://www.fao.org/documents/card/en/c/cc3596en for summary version)</p> |
| <p>Lal, K.K., Kumar, A., Kumar, S., Charan, R., Mohindra, V., Lucente, D., Singh, R.K., Basheer, V.S., Kathirvelpandian, A., Singh, R., Sarma, D., Jena, J.K. & Mair G.C. 2023. Genetic management of Indian major carps – Genetics in aquaculture: a case study. Rome, FAO. https://doi.org/10.4060/cc5193en (see https://www.fao.org/3/cc3598en/cc3598en.pdf for summary version).</p> |
| <p>Mair, G.C. and Lucente, D., 2023. Members endorse next steps on FAO-developed resources for enhancing management of aquatic genetic resources. FAO Aquaculture News No. 67, pp. 9–10. https://www.fao.org/3/cc6639en/cc6639en.pdf#page=9</p> |
| <p>Mair, G.C., Lucente, D. and Hemmerlé, E., 2023. Expert Workshop on “Incorporating Information on Wild Relatives of Aquaculture Species into an Information System for Aquatic Genetic Resources. FAO Aquaculture News No. 67, p. 11. https://www.fao.org/3/cc6639en/cc6639en.pdf#page=11</p> |
| <p>Sonesson, A.K., Hallerman, E., Humphries, F., Hilsdorf, A.W.S., Leskien, D., Rosendal, K., Bartley, D., Hu, X., Garcia Gomez, R. and Mair, G.C. 2023. Sustainable management and improvement of genetic resources for aquaculture. Journal of the World Aquaculture Society, 54(2), pp.364-396. https://doi.org/10.1111/jwas.12968.</p> |
| 2022 |
| <p>Mair, G. and Lucente, D. 2022. FAO Resources for Strategic Planning. Indian J. of Plant Genet. Resour. 35(3): 285-288</p> |
| <p>Mair, G.C., Lucente, D. 2022. FAO Council adopts a Global Plan of Action for enhancing the management of aquatic biodiversity used for aquaculture. https://www.fao.org/3/cc0158en/cc0158en.pdf#page=35</p> |
| <p>FAO. 2022. <i>Global plan of action for the conservation, sustainable use and development of aquatic genetic resources for food and agriculture.</i> Commission on Genetic Resources for Food and Agriculture. Rome. https://doi.org/10.4060/cb9905en</p> |
| 2021 |
| <p>FAO. 2021. Regional workshops on development of a global information system for farmed types of aquatic genetic resources (incorporating a review of strategic priorities for a global plan of action): Africa, Asia and the Pacific, Europe and Central Asia, Latin America and the Caribbean and North America, Near East.</p> |

Lucente, D., Ellenbroek, A., Viparthy, K. & Mair, G.C. 2021. A global information system for aquaculture farmed types. *INFOFISH International*, No. 4/2021, pp. 54–57.
<http://ii.infofish.org/index.php/my-dashboard/item/infofish-international-issue-04-2021>

Lucente, D., Sims, S., Lei, G. & Mair, G. 2021. *Conservation of farmed aquatic species: an opportunity we must not miss!* FAO Aquaculture News No. 63, pp. 51–53.
www.fao.org/3/cb4850en/cb4850en.pdf#page=51

Mair, G.C., Lucente, D., Viparthy, K. & Ellenbroek, A. 2021. *FAO releases a prototype of a new global information system for aquatic diversity.* FAO Aquaculture News No. 64, pp. 47–49.
www.fao.org/3/cb8047en/cb8047en.pdf#page=47

2020

Mair, G.C. & Lucente, D. 2020. *What are “Farmed Types” in aquaculture and why do they matter?* FAO Aquaculture Newsletter No. 61: 40–42.
www.fao.org/3/ca8302en/ca8302en.pdf#page=40

Pilling, D., Bélanger, J., Diulgheroff, S., Koskela, J., Leroy, G., Mair, G. & Hoffmann, I. 2020. Global status of genetic resources for food and agriculture: challenges and research needs. *Genetic Resources*, 1(1): 4–16. <https://doi.org/10.46265/genresj.2020.1.4-16>

2019

FAO. 2019. *ABS Elements: elements to facilitate domestic implementation of access and benefit-sharing for different subsectors of genetic resources for food and agriculture with explanatory notes.* Rome. 88 pp. www.fao.org/3/ca5088en/ca5088en.pdf

FAO. 2019. *The State of the World’s Aquatic Genetic Resources for Food and Agriculture.* FAO Commission on Genetic Resources for Food and Agriculture Assessments. Rome. 291 pp. <https://doi.org/10.4060/CA5256EN>

FAO. 2019. *The State of the World’s Aquatic Genetic Resources for Food and Agriculture – in brief.* FAO Commission on Genetic Resources for Food and Agriculture assessments. Rome. 20 pp. www.fao.org/3/ca5088en/ca5088en.pdf

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FAO. 2018. *Aquaculture development. Development of aquatic genetic resources: A framework of essential criteria.* FAO Technical Guidelines for Responsible Fisheries 5 Suppl. 9. Rome. 88 pp. www.fao.org/3/ca2296en/ca2296en.pdf

FAO. 2018. *Protecting aquatic resources and stocks in the coral triangle region of southeast Asia.* Rome. 2 pp. www.fao.org/3/i9206en/i9206en.pdf

2017

FAO. 2017. *Planning for aquaculture diversification: the importance of climate change and other drivers.* FAO Fisheries and Aquaculture Proceedings No. 47. Rome. 166 pp. www.fao.org/3/a-i7358e.pdf

2016

Carpenter, K.E. & De Angelis, N. 2016. *The living marine resources of the eastern central Atlantic. Volume 4: bony fishes part 2 (Perciformes to Tetradontiformes) and sea turtles.* FAO Species Identification Guide for Fishery Purposes. Rome. 820 pp. www.fao.org/3/i5715e/i5715e.pdf

FAO. 2016. *Report of the expert workshop on incorporating genetic diversity and indicators into statistics and monitoring of farmed aquatic species and their wild relatives.* FAO Fisheries and Aquaculture Report No. 1173. Rome. 34 pp. www.fao.org/3/i6373en/i6373en.pdf

2013

Fischer, J. 2013. *Fish identification tools for biodiversity and fisheries assessments. Review and guidance for decision-makers.* FAO Fisheries and Aquaculture Technical Paper No. 585. Rome, FAO. 107 pp. www.fao.org/3/a-i3354e.pdf

Halwart, M., Hett, K., García Gómez, R. & Bartley, D., eds. 2013. *Improving the Information Base for Aquatic Genetic Resources for The State of The World's Aquatic Genetic Resources. FAO International Expert Workshop 1– 4 March 2011, Madrid.* Rome, FAO. 57 pp. www.fao.org/3/a-i2684e.pdf

2011

FAO. 2011. *Aquatic diversity underwater and unexplored.* Commission on Genetic Resources for Food and Agriculture. Rome. 2 pp. www.fao.org/3/a-al385e.pdf

2009

Bartley, D.M., Nguyen, T.T.T., Halwart, M. & De Silva, S.S. 2009. Use and exchange of aquatic genetic resources in aquaculture: information relevant to access and benefit sharing. *Reviews in Aquaculture*, 1(3–4), 157–162. <https://doi.org/10.1111/j.1753-5131.2009.01009.x>

FAO. 2009. *The use and exchange of aquatic genetic resources for food and agriculture.* Background Study Paper No. 45. Rome. 67 pp. www.fao.org/3/ak527e/ak527e.pdf

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FAO. 2008. *Aquaculture development. Genetic resource management.* FAO Technical Guidelines for Responsible Fisheries, No. 5, Suppl. 3. Rome. 125 pp. www.fao.org/3/a-i0283e.pdf

2007

Bartley, D.M. 2007. An ecosystems approach to risk assessment of alien species and genotypes in aquaculture. In T.M. Bert, ed. *Ecological and genetic implications of aquaculture activities*, pp. 35–52. Dordrecht, Netherlands, Springer. <https://doi.org/10.1007/978-1-4020-6148-6>

Bartley, D.M., Harvey, B.J. & Pullin, R.S.V. 2007. *Workshop on Status and Trends in Aquatic Genetic Resources: A Basis for International Policy. 8–10 May 2006, Victoria, British Columbia, Canada.* FAO Fisheries Proceedings 5. www.fao.org/3/a-a1337e.pdf

Bondad-Reantaso, M.G. 2007. *Assessment of freshwater fish seed resources for sustainable aquaculture*. FAO Fisheries Technical Paper No. 501. Rome, FAO. 628 pp.
www.fao.org/3/a1495e/a1495e00.htm

FAO. 2007. *Status and trends in aquatic genetic resources: a basis for international policy*. Background Study Paper No. 37. Rome. 26 pp. www.fao.org/3/j9581e/j9581e.pdf

FAO. 2007. *The world's aquatic genetic resources: status and needs*. Commission on Genetic Resources for Food and Agriculture. Rome. 14 pp.
www.fao.org/publications/card/en/c/e290d4e0-b23e-52b0-8ded-a47741f52567

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Bartley, D.M. et al. 2006. *Alien species in fisheries and aquaculture: information for responsible use*. [CD ROM]. Rome, FAO.

Moehl, J., Brummett, R. & Ponzoni, R. 2006. *Genetic management of aquaculture stocks in sub-Saharan Africa – Report of a Producers' Workshop. Accra, Ghana, 27 February–3 March 2006*. CIFAA Occasional Paper (Committee of Inland Fisheries and Aquaculture for Africa) No. 27. Rome, FAO. 55 pp. www.fao.org/3/ag388e/ag388e.pdf

2005

De Silva, S.S. & Funge-Smith, S. 2005. *A review of stock enhancement practices in the inland waterfisheries of Asia*. RAP Publication 2005/12. Rome, FAO. 101 pp. www.fao.org/3/ae932e.pdf

Bartley, D.M., Bhujel, R.C., Funge-Smith, S., Olin, P.G. & Phillips, M.J. 2005. *International mechanisms for the control and responsible use of alien species in aquatic ecosystems, 27–30 August 2003, Xishuangbanna, People's Republic of China*. Rome, FAO. 203 pp.
www.fao.org/3/a0113e/a0113e00.htm

Bartley, D.M., Crespi, V., Fleischer, I.J. & R. Subasinghe. 2005. Aquatic alien species and their contribution to aquatic production, food security and poverty alleviation: an overview of data from ASEAN countries. In J. Fisher et al., ed. *Invasive alien species*. Washington, D.C., NOAA/ASEAN.

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Bartley, D.M. & Marttin, F. 2004. Introduction of alien species and genotypes and their impact on biodiversity. In M.V. Gupta, D.M. Bartley and B.O. Acosta, eds. *Conservation of Aquatic Biodiversity and Use of Alien Species for Aquaculture in Africa. Nairobi, Kenya, 20–23 February 2002*. ICLARM Conference Proceedings. http://pubs.iclarm.net/Pubs/alien_species/pdf/03.pdf

De Silva, S.S., Subasinghe, R.P., Bartley, D.M. & Lowther, A. 2004. *Tilapias as alien aquatics in Asia and the Pacific: a review*. FAO Fisheries Technical Paper No. 453. Rome, FAO. 74 pp.
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Beardmore, J.A. & Porter, J.S. 2003. *Genetically modified organisms and aquaculture*. FAO Fisheries Circular No. 989. Rome, FAO. www.fao.org/3/y4955e/y4955e00.htm

2002

Carpenter, K.E. 2002. *The living marine resources of the Western Central Atlantic. Volume 1: Introduction, molluscs, crustaceans, hagfishes, sharks, batoid fishes and chimaeras.* FAO Species Identification Guide for Fishery Purposes. Rome, FAO. 607 pp. www.fao.org/3/y4160e/y4160e.pdf

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| <p>Carpenter, K.E. 2002. <i>The living marine resources of the Western Central Atlantic. Volume 2: Bony fishes part 1 (Acipenseridae to Grammatidae)</i>. FAO Species Identification Guide for Fishery Purposes. www.fao.org/3/y4161e/y4161e.pdf</p> |
| <p>Carpenter, K.E. 2002. <i>The living marine resources of the western central Atlantic. Volume 3 bony fishes part 2 (Opistognathidae to Molidae), sea turtles and marine mammals</i>. FAO Species Identification Guide for Fishery Purposes. Rome, FAO. 758 pp. www.fao.org/3/y4162e/y4162e.pdf</p> |
| <p>Gupta, M.V., Bartley, D.M. & Acosta, B.O, eds. 2002. <i>Conservation of aquatic biodiversity and use of alien species for aquaculture in Africa</i>. ICLARM Conference Proceedings. Nairobi.</p> |
| <p>2001</p> |
| <p>Bartley, D.M., Rana, K. & Immink, A.J. 2001. Interspecific hybrids in aquaculture and fisheries. <i>Reviews in Fish Biology and Fisheries</i>, 10: 325–337.</p> |
| <p>Carpenter, K.E. & Niem, V.H. 2001. <i>The living marine resources of the western central Pacific. Volume 5. Bony fishes part 3 (Menidae to Pomacentridae)</i>. FAO Species Identification Guide for Fishery Purposes. Rome, FAO. pp. 2791–3380. www.fao.org/3/a-y0770e.pdf</p> |
| <p>2000</p> |
| <p>Bartley, D.M. 2000. Genetically modified organisms in fisheries. In: <i>The State of the World Fisheries and Aquaculture</i>, pp. 71–77. Rome, FAO. www.fao.org/3/a-x8002e.pdf</p> |
| <p>1999</p> |
| <p>Carpenter, K.E. & Niem, V.H. 1999. <i>The living marine resources of the western central Pacific. Volume 4. Bony fishes part 2 (Mugilidae to Carangidae)</i>. FAO Species Identification Guide for Fishery Purposes. Rome, FAO. 721 pp. www.fao.org/3/a-x2400e.pdf</p> |
| <p>Tave, D. 1999. <i>Inbreeding and brood stock management</i>. FAO Fisheries and Aquaculture Technical Paper No. 392. Rome, FAO. www.fao.org/3/x3840e/x3840e00.htm</p> |
| <p>1994</p> |
| <p>Smith, P.J. 1994. <i>Genetic diversity of marine fisheries resources. Possible impacts of fishing</i>. FAO Fisheries Technical Paper No. 344. Rome, FAO. www.fao.org/3/v4865e/v4865e00.htm</p> |
| <p>1986</p> |
| <p>FAO. 1986. <i>Report of the symposium on selection, hybridization and genetic engineering in aquaculture of fish and shellfish for consumption and stocking</i>. EIFAC Technical Paper No. 50. Rome. 65 pp. www.fao.org/3/a-af001e.pdf</p> |