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COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Item 3 of the Provisional Agenda

TEAM OF TECHNICAL AND LEGAL EXPERTS ON ACCESS AND BENEFIT-SHARING

Sixth Session

Rome, 2–4 May 2023

REPORT OF THE FOURTH SESSION OF THE INTERGOVERNMENTAL TECHNICAL WORKING GROUP ON AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE



**Food and Agriculture
Organization of the
United Nations**

**COMMISSION ON
GENETIC RESOURCES
FOR FOOD AND
AGRICULTURE**

CGRFA/WG-AqGR-4/23/Report

Fourth Session of the Intergovernmental Technical Working Group on Aquatic Genetic Resources for Food and Agriculture

Rome, Italy, 21–23 February 2023

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COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

REPORT OF THE FOURTH SESSION

OF THE

INTERGOVERNMENTAL TECHNICAL WORKING GROUP ON

AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE

Rome, Italy, 21–23 February 2023

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
Rome, 2023

The documents prepared for the Fourth Session of the Working Group on Aquatic Genetic Resources for Food and Agriculture of the Commission on Genetic Resources for Food and Agriculture are available on the Internet at the following address:

<http://www.fao.org/aquatic-genetic-resources/activities/itwg/fourth-session-documents>

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I. INTRODUCTION

1. The Fourth Session of the Intergovernmental Technical Working Group on Aquatic Genetic Resources for Food and Agriculture (Working Group) was held in Rome, Italy, from 21 to 23 February 2023. The Members and alternates of the Working Group, as elected by the Commission at its Eighteenth Regular Session, are given in *Appendix C*. The list of delegates and observers is available on the meeting website.¹

II. OPENING OF THE SESSION AND ELECTION OF CHAIRPERSON, VICE-CHAIRPERSONS AND *RAPPORTEUR*

2. Ms Malika Chlaida (Morocco), Vice Chairperson of the Third Session of the Working Group, opened the session and welcomed delegates and observers.

3. Mr Manuel Barange, Director, FAO Fisheries and Aquaculture Division, welcomed delegates and observers. He highlighted that aquatic genetic resources for food and agriculture (AqGR) are critically important for the work of FAO and in contributing to FAO's Blue Transformation Vision and its Biodiversity Mainstreaming Strategy. He recognized that the work being done on AqGR is steadily catching up with the ongoing developments in other agricultural sectors. Mr Barange recalled the important milestones achieved in this intersessional period, including the publication of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture² (Global Plan of Action), the release of a prototype of FAO's global information system for AqGR (AquaGRIS)³ and the development of draft indicators for monitoring the impact of the Global Plan of Action, which could also assist in the future monitoring of progress on Sustainable Development Goal (SDG) target 2.5 and the Kunming-Montreal Global Biodiversity Framework.

4. Mr Dan Leskien, Senior Liaison Officer, Secretariat of the Commission on Genetic Resources for Food and Agriculture (Commission), recalled that, in 1995, the FAO Conference had broadened the Commission's mandate to cover all components of biodiversity of relevance to food and agriculture, including aquatic genetic resources. He further recalled that, in 2019, FAO published *The State of the World's Aquatic Genetic Resources for Food and Agriculture*,⁴ and two years later, in 2021, the Commission agreed on and the FAO Council adopted the Global Plan of Action.⁵ He highlighted that the Global Plan of

¹ <https://www.fao.org/aquatic-genetic-resources/activities/itwg/fourth-session-documents>

² FAO. 2022. *Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture*. Commission on Genetic Resources for Food and Agriculture. Rome. <https://doi.org/10.4060/cb9905en>

³ <https://www.fao.org/fishery/aquagris/home>

⁴ 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. <https://doi.org/10.4060/CA5256EN>

⁵ CL 168/REP, paragraph 38a.

Action forms an important part of FAO's vision for transforming aquatic food systems, as reflected in the latest *The State of World Fisheries and Aquaculture 2022*.⁶

5. Mr Graham Mair, Senior Aquaculture Officer and Secretary of the Working Group, welcomed the participants. Mr Mair underlined the significant progress over the past five years with regard to FAO's work on AqGR. Furthermore, he noted that the relatively underdeveloped state of AqGR, compared to other genetic resource sectors, actually presents an opportunity to put in place effective management systems for AqGR before aquatic genetic diversity becomes compromised. He underlined that a broad adoption of strategic priorities and associated actions outlined in the Global Plan of Action will enable these resources to be conserved for the long term and underpin future rapid genetic improvement.

6. In line with Article III of its Statutes,⁷ the Working Group, replaced absent Members of the Working Group with other Members of the Commission present at the meeting. Latvia, Malaysia, Nigeria, Saudi Arabia, South Africa and United Arab Emirates therefore attended the meeting as Members of the Working Group.

7. The Working Group elected Ms Shauna Baillie (Canada) as Chairperson. Mr Carlos Alvarado (Costa Rica), Mr Petri Heinimaa (Finland), Mr Belemane Semoli (South Africa), Mr Wendy Tri Prabowo (Indonesia) and Mr Tooraj Valinassab (Iran, Islamic Republic of) as Vice-Chairpersons. Mr Belemane Semoli was elected *Rapporteur*.

8. The Working Group adopted the Agenda, as given in *Appendix A*.

III. FOLLOW-UP TO THE GLOBAL PLAN OF ACTION FOR THE CONSERVATION, SUSTAINABLE USE AND DEVELOPMENT OF AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE

9. The Working Group considered the document *Status of the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources*.⁸ It took note of the documents *Outline of guidelines on genetic management in stocking programmes*,⁹ *Outline of guidelines for ex situ in vitro gene banking of aquatic species*,¹⁰ and *Provisional list of terms for inclusion in a glossary for aquatic genetic resources for food and agriculture*¹¹ and other related documents.¹²

⁶ FAO. 2022. *The State of World Fisheries and Aquaculture 2022. Towards Blue Transformation*. Rome. <https://doi.org/10.4060/cc0461en>

⁷ CGRFA/WG-AqGR-4/23/1/Inf.1/Rev.1.

⁸ CGRFA/WG-AqGR-4/23/3.

⁹ CGRFA/WG-AqGR-4/23/3/Inf.1.

¹⁰ CGRFA/WG-AqGR-4/23/3/Inf.2.

¹¹ CGRFA/WG-AqGR-4/23/3/Inf.3.

¹² CGRFA/WG-AqGR-4/23/3/Inf.4; CGRFA/WG-AqGR-4/23/3/Inf.5; CGRFA/WG-AqGR-4/23/3/Inf.6.

10. The Working Group welcomed the publication of the Global Plan of Action in all UN languages, took note of the activities undertaken by FAO in support of its implementation and recommended that FAO continue supporting its implementation.
11. The Working Group welcomed the release of the prototype of AquaGRIS and recommended that FAO complete the development of AquaGRIS and continue to host it.
12. The Working Group encouraged FAO to consider, in the further development of AquaGRIS, the importance of the interoperability of AquaGRIS with other operational information systems on AqGR in order to avoid a duplication of efforts and to facilitate exchange of information.
13. The Working Group recommended that FAO finalize the AqGR glossary, including the process of standardization of AqGR-related definitions across FAO term directories and thesauri.
14. The Working Group recommended that the Commission call upon countries to implement the Global Plan of Action, including through the use of AquaGRIS for the development of national registries.
15. The Working Group recommended that the Commission call upon Governments and donors to support the implementation of the Global Plan of Action and that FAO continue mobilizing extra-budgetary resources to support the implementation of the Global Plan of Action.
16. The Working Group noted the need to support countries in building capacity to implement the Global Plan of Action and develop national AqGR inventories, including through training courses. It further recommended that FAO make the online training course on Management and Development of Aquaculture Genetic Resources widely available to countries and stakeholders in all official UN languages.
17. The Working Group welcomed the *Outline of guidelines on genetic management in stocking programmes* and recommended that they also address the issue of translocation for stocking purposes. It further welcomed the *Outline of guidelines for ex situ in vitro gene banking of aquatic species*, and recommended that FAO finalize both guidelines for review by the Working Group at its next session.

IV. MONITORING THE IMPLEMENTATION OF THE GLOBAL PLAN OF ACTION FOR THE CONSERVATION, SUSTAINABLE USE AND DEVELOPMENT OF AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE

18. The Working Group considered the document *Monitoring the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture*.¹³ It took note of the document *Draft indicators for monitoring the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for*

¹³ CGRFA/WG-AqGR-4/23/4/Rev.2.

*Food and Agriculture*¹⁴ and noted the proposed structure and timelines for the indicators and their integration with AquaGRIS.

19. The Working Group recommended that the Commission request FAO to hold further consultations, including virtual consultations, with National Focal Points and other relevant stakeholders, on the proposed indicators and the proposed timetable for country reporting, for consideration by the Working Group and the Commission at their next sessions.

20. The Working Group noted the challenges for some countries in collecting data on farmed types below the species level and the impact this may have on the value of related indicators.

21. The Working Group recommended that FAO prepare detailed guidelines for the entry of data into AquaGRIS and for the completion of the questionnaire FAO will develop for the process indicators. It further recommended that the questionnaire to be developed on the basis of the process indicators be integrated, to the extent feasible, with data collection for the global assessment, to avoid double-reporting.

22. The Working Group further recommended that the Commission consider organizing workshops, including virtual workshops, to raise awareness and build capacity on country reporting related to the proposed indicators, including the collection and analysis of required data.

23. The Working Group noted the critical importance of long-term support and resourcing of AquaGRIS to the implementation of the Global Plan of Action and recommended that FAO secure long-term support for the management of AquaGRIS.

24. The Working Group provided specific feedback on several draft indicators, for consideration during future consultations.

V. THE ROLE OF AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE IN MITIGATION OF AND ADAPTATION TO CLIMATE CHANGE

25. The Working Group considered the document *Climate change and genetic resources for food and agriculture*¹⁵ and took note of the document *FAO's work on climate change*.¹⁶

26. The Working Group recommended that the Commission invite FAO to continue to develop capacity and facilitate training in AqGR management in relation to climate change in collaboration with existing intergovernmental and international bodies. In addition, it recommended that the Commission invite Members to make use, as appropriate, of the FAO tools and guidance related to climate change.

¹⁴ CGRFA/WG-AqGR-4/23/4/Inf.1.

¹⁵ CGRFA/WG-AqGR-4/23/5.

¹⁶ CGRFA/WG-AqGR-4/23/5/Inf.1.

27. In reviewing the *Draft questionnaire on genetic resources for food and agriculture and climate change*,¹⁷ the Working Group recommended that the Commission request FAO to further shorten and simplify the questionnaire with a view to avoid duplication of other reporting processes. The Working Group noted that Members may submit comments on the draft questionnaire by 1 May 2023. It recommended that the Secretariat prepare a summary of country responses to the questionnaire for consideration by the Working Groups and the Commission at their next sessions. The Working Group, however, did not reach consensus on whether the questionnaire should address the mitigation of the effects of climate change and nationally determined contributions (NDC) by countries.

28. The Working Group took note of the Commission's request "to review and revise, as appropriate, the *Voluntary Guidelines to Support the Integration of Genetic Diversity into National Climate Change Adaptation Planning*,¹⁸ taking into account the need to address the vulnerabilities of genetic resources for food and agriculture (GRFA) to climate change, in line with relevant international agreements, for consideration by the Commission at its next session."¹⁹ In response to the Commission's request, the Working Group recommended that the Commission request the Secretariat to convene a global multi-stakeholder workshop on climate change and GRFA to exchange information and experiences, in particular on breeding programmes directed towards adaptation traits, and to discuss possible changes to the Voluntary Guidelines. In addition, it recommended that the Commission request the Secretariat to revise the Voluntary Guidelines, in light of the outcome of the global workshop and taking into account the responses received to the questionnaire. The draft revised Voluntary Guidelines should then be considered in regional consultations and subsequently by the Working Group and the Commission at their next sessions.

VI. ACCESS AND BENEFIT-SHARING FOR AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE

29. The Working Group considered the document *Access and benefit-sharing for genetic resources for food and agriculture*²⁰ and took note of the information documents *Access and benefit-sharing and genetic resources for food and agriculture: typology of country measures*²¹ and *Draft questionnaire on the implications of access and benefit-sharing measures for the use and exchange of genetic resources for food and agriculture and for benefit-sharing*.²²

¹⁷ CGRFA/WG-AqGR-4/23/5, *Appendix I*.

¹⁸ FAO. 2015. *Voluntary Guidelines to Support the Integration of Genetic Diversity into National Climate Change Adaptation Planning*. Rome. <http://www.fao.org/3/i4940e/i4940e.pdf>

¹⁹ CGRFA-18/21/Report, paragraph 20.

²⁰ CGRFA/WG-AqGR-4/23/6.

²¹ CGRFA/WG-AqGR-4/23/6/Inf.1.

²² CGRFA/WG-AqGR-4/23/6/Inf.2.

30. The Working Group welcomed activities that raise awareness about the distinctive features of GRFA relevant to national access and benefit-sharing (ABS) measures and recommended that the Commission continue its work in this regard.

31. The Working Group took note of developments under other international agreements and instruments relevant to ABS, including the outcome of the 15th meeting of the Conference of the Parties (COP 15) to the Convention on Biological Diversity (CBD), and recommended that the Secretariat continue to follow these developments and report back to the Working Group and the Commission. It further recommended that the Secretariat prepare a document for the Commission's next session on the implications of the Kunming-Montreal Global Biodiversity Framework,²³ and other decisions of CBD COP 15, for the future work of the Commission.

32. The Working Group welcomed the typology of ABS country measures²⁴ demonstrating the variety of approaches and the wide range of options countries have in accommodating the distinctive features of GRFA in ABS legislative, administrative and policy measures. It recommended the addition of brief annotations describing the rationale of specific ABS measures and how they accommodate the distinctive features of GRFA.

33. The Working Group reviewed the draft questionnaire,²⁵ noting the need to clarify who the key respondents are for the different types of questions. It recommended consulting national ABS authorities on some of the questions related to the granting or denying of access permits. It highlighted, in addition, the need to document, through the questionnaire, practical experiences of users with ABS measures in provider countries. The Working Group recommended that, based on the responses to the questionnaire and other available sources of information, a report be prepared addressing the implications of ABS country measures for the use and exchange of GRFA, associated traditional knowledge and the sharing of benefits. It recommended that the Commission consider, at its next session, the next steps for finalizing the questionnaire and the report.

34. In addition, the Working Group supported continued close collaboration of the Commission with relevant international organizations and instruments, in particular the International Treaty on Plant Genetic Resources for Food and Agriculture (Treaty) and the Convention on Biological Diversity (CBD), to raise awareness among key stakeholders and to provide capacity development and training programmes addressing ABS for GRFA.

²³ CBD/COP/DEC/15/4.

²⁴ CGRFA/WG- AqGR-4/23/6/Inf.1.

²⁵ CGRFA/WG- AqGR-4/23/6/Inf.2.

VII. DIGITAL SEQUENCE INFORMATION AND AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE

35. The Working Group considered the document *Digital sequence information and genetic resources for food and agriculture*²⁶ and took note of the document *The role of digital sequence information for the conservation and sustainable use of genetic resources for food and agriculture: opportunities and challenges*.²⁷

36. The Working Group commended the Commission for organizing, in collaboration with the CBD, the Treaty, CABI and the CGIAR Initiative on Genebanks, the *Global Workshop on Digital Sequence Information and Genetic Resources for Food and Agriculture*,²⁸ held virtually on 14 and 15 November 2022. It recommended that the Commission hold further open-ended workshops or webinars to inform Commission Members and observers about issues related to digital sequence information (DSI), including technological and policy developments, and to facilitate dialogue at national, regional and global levels. The Working Group further supported the continuation of the close collaboration between the Commission and other fora dealing with DSI, including the CBD and the Treaty.

37. The Working Group took note of the draft study on *The role of digital sequence information for the conservation and sustainable use of genetic resources for food and agriculture: opportunities and challenges*²⁹ and recommended that the study provide additional information on the relevance of DSI for the conservation, sustainable use and development of AqGR. The Working Group recommended that the Commission invite Members to submit information to the Secretariat on domestic ABS measures applying to DSI and their actual or potential implications for the conservation and sustainable use of GRFA, including exchange, access to and the fair and equitable sharing of the benefits arising from their use. It recommended that the submissions be compiled for information of the Commission at its Twentieth Regular Session.

38. In addition, it recommended that the Commission request the Secretariat to continue monitoring developments regarding DSI in other fora, including by following closely the work of the ad hoc open-ended working group on benefit-sharing from the use of DSI on genetic resources, established by CBD COP 15, with a view to consider their potential implications, including potential opportunities and challenges for the Commission and its Members. It furthermore recommended that the Commission request the Secretariat to report regularly to the Commission on these developments.

²⁶ CGRFA/WG-AqGR-4/23/7.

²⁷ CGRFA/WG-AqGR-4/23/7/Inf.1.

²⁸ https://www.fao.org/cgrfa/meetings/dsi_workshop_2022/en/

²⁹ CGRFA/WG-AqGR-4/23/7/Inf.1.

VIII. STRATEGIC PLAN FOR THE COMMISSION ON GENETIC RESOURCES FOR FOOD AND AGRICULTURE

39. The Working Group considered the document *Strategic plan for the Commission on Genetic Resources for Food and Agriculture: review and update*³⁰ and noted the progress made in the implementation of the Multi-Year Programme of Work (MYPOW) since the Sixteenth Regular Session of the Commission.
40. The Working Group reviewed the draft Strategic Plan 2023–2031 and recommended that *The Second Report on the State of the World's Aquatic Genetic Resources for Food and Agriculture* be launched at the Commission's 22nd Regular Session (2028/2029). The Working Group further stressed that, notwithstanding the Commission's work on biodiversity for food and agriculture and the Commission's Framework for Action on Biodiversity for Food and Agriculture,³¹ the Strategic Plan should continue to stress the Commission's core competency in GRFA.
41. The Working Group took note of suggestions to refer to “genetic resources for food and agriculture and all other forms of biodiversity for food and agriculture” in the mission and goals of the draft Strategic Plan,³² or use previously agreed language, instead of “biodiversity for food and agriculture, including genetic resources”. It also recommended to refer, in paragraph 2 of the Rationale of the Strategic Plan, to the “conservation, sustainable use and development” instead of “conservation and sustainable use, including the development” and to delete paragraph 3bis.
42. The Working Group recommended to review the work on biotechnologies only at the Commission's Twenty-first Regular Session and the work on climate change only at the Commission's Twenty-second Regular Session. It recommended to continue consultations on the need for and possible modalities of a procedure for the identification of new and emerging issues for inclusion into the MYPOW. The Working Group further recommended that a timeline be made available listing the different intersessional meetings of the Working Groups and the Commission.
43. The Working Group recommended that the Commission invite donors to contribute to the Commission's multi-donor trust fund for the implementation of the MYPOW.

IX. CLOSING STATEMENTS

44. Mr Dan Leskien thanked the Working Group for the fruitful discussions and the detailed comments received, which will be considered at the Commission's Nineteenth Regular Session. He highlighted the crucial work of the Working Group in translating the Global Plan of Action into actions on the ground to

³⁰ CGRFA/WG-AqGR-4/23/8.

³¹ FAO. 2022. *Framework for Action on Biodiversity for Food and Agriculture*. FAO Commission on Genetic Resources for Food and Agriculture. Rome. <https://doi.org/10.4060/cb8338en>

³² CGRFA/WG-AqGR-4/23/8, *Appendix I*.

optimize the contribution of AqGR to food security and poverty alleviation, through sustainable management of AqGR. In concluding, he thanked the Governments of Canada, Germany, Norway and Switzerland for their ongoing support to the implementation of the Commission's work and thanked all Members and observers for having made the meeting a success.

45. Mr Graham Mair, Senior Aquaculture Officer, FAO Fisheries Division, and Secretary to the Working Group, thanked all delegates for their input and guidance. He noted the fresh challenges ahead including the finalization of AquaGRIS, the further consultation on the guidelines being developed and the finalization of the indicators for monitoring the implementation of the Global Plan of Action. He reaffirmed that FAO stands ready to support countries in the implementation of the Global Plan of Action. He further noted that, given the successful informal session held on the afternoon of 22 February 2023, all efforts would be made to organize an informal meeting prior to the next session of the Working Group with a view to improve information exchange and informal dialogue. He concluded by thanking the past and present Members of the Bureau of the Working Group.

46. The Chairperson thanked all delegates and the *Rapporteur* for their contributions to the success of the session and noted that the Working Group had accomplished a great deal. She concluded by expressing her hope that the meeting had informed Members of the key issues and inspired all to redouble their efforts in the management of AqGR.

APPENDIX A**AGENDA OF THE FOURTH SESSION OF THE
INTERGOVERNMENTAL TECHNICAL WORKING GROUP ON
AQUATIC GENETIC RESOURCES FOR FOOD AND AGRICULTURE**

1. Election of Chairperson, Vice-Chairperson(s) and *Rapporteur*
2. Adoption of the Agenda and Timetable
3. Follow-up to the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture
4. Monitoring the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture
5. The role of aquatic genetic resources for food and agriculture in mitigation of and adaptation to climate change
6. Access and benefit-sharing for aquatic genetic resources for food and agriculture
7. Digital sequence information and aquatic genetic resources for food and agriculture
8. Strategic Plan for the Commission on Genetic Resources for Food and Agriculture
9. Any other matters
10. Adoption of the Report

APPENDIX B

LIST OF DOCUMENTS

Document symbol	Title
CGRFA/WG-AqGR-4/23/1	Election of Chairperson, Vice-Chairperson(s) and <i>Rapporteur</i>
CGRFA/WG-AqGR-4/23/1/Inf.1	Statutes of the Intergovernmental Technical Working Group on Aquatic Genetic Resources for Food and Agriculture, and Members and Alternates Elected by the Commission at its Eighteenth Regular Session
CGRFA/WG-AqGR-4/23/2/Rev.1	Provisional agenda
CGRFA/WG-AqGR-4/23/2 Add.1	Provisional annotated agenda and timetable
CGRFA/WG-AqGR-4/23/2/Inf.1	List of documents
CGRFA/WG-AqGR-4/23/3/Rev.2	Status of the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources
CGRFA/WG-AqGR-4/23/3/Inf.1	Outline of guidelines on genetic management in stocking programmes
CGRFA/WG-AqGR-4/23/3/Inf.2	Outline of guidelines for <i>ex situ in vitro</i> gene banking of aquatic species
CGRFA/WG-AqGR-4/23/3/Inf.3	Provisional list of terms for inclusion in a glossary for aquatic genetic resources for food and agriculture
CGRFA/WG-AqGR-4/23/3/Inf.4	Report of the expert workshop on “Incorporating information on wild relatives of aquaculture species into an information system for aquatic genetic resources”
CGRFA/WG-AqGR-4/23/3/Inf.5	Report of the Thirty-fifth Session of the Committee on Fisheries
CGRFA/WG-AqGR-4/23/3/Inf.6	Report of the Eleventh Session of the COFI Sub-Committee on Aquaculture
CGRFA/WG-AqGR-4/23/4/Rev.2	Monitoring the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture
CGRFA/WG-AqGR-4/23/4/Inf.1	Draft indicators for monitoring the implementation of the Global Plan of Action for the Conservation, Sustainable Use and Development of Aquatic Genetic Resources for Food and Agriculture
CGRFA/WG-AqGR-4/23/5	Climate change and genetic resources for food and agriculture
CGRFA/WG-AqGR-4/23/5/Inf.1	FAO’s work on climate change
CGRFA/WG-AqGR-4/23/6	Access and benefit-sharing for genetic resources for food and agriculture

CGRFA/WG-AqGR-4/23/6/Inf.1	Access and benefit-sharing and genetic resources for food and agriculture: typology of country measures
CGRFA/WG-AqGR-4/23/6/Inf.2	Draft questionnaire on the implications of access and benefit-sharing measures for the use and exchange of genetic resources for food and agriculture and for benefit-sharing
CGRFA/WG-AqGR-4/23/7	Digital sequence information and genetic resources for food and agriculture
CGRFA/WG-AqGR-4/23/7/Inf.1	The role of digital sequence information for the conservation and sustainable use of genetic resources for food and agriculture: opportunities and challenges
CGRFA/WG-AqGR-4/23/8	Strategic Plan for the Commission on Genetic Resources for Food and Agriculture: Review and update

Other documents

Genetic management of Indian major carps

Lessons from two decades of tilapia genetic improvement in Africa

Proactive approach proved key to survival for the Australasian Pacific oyster industry

APPENDIX C

**MEMBERS AND ALTERNATES OF THE INTERGOVERNMENTAL TECHNICAL
WORKING GROUP ON AQUATIC GENETIC RESOURCES FOR FOOD AND
AGRICULTURE, ELECTED BY THE COMMISSION AT ITS EIGHTEENTH
REGULAR SESSION**

<i>Composition (no. of countries per region)</i>	<i>Country</i>
Africa (5)	Cameroon Morocco Namibia Zambia Zimbabwe <i>First Alternate:</i> South Africa <i>Second Alternate:</i> Malawi
Asia (5)	Indonesia Myanmar Philippines Sri Lanka Thailand <i>First Alternate:</i> Malaysia <i>Second Alternate:</i> India
Europe (5)	Czechia Finland France Germany Italy <i>First Alternate:</i> Türkiye <i>Second Alternate:</i> Poland
Latin America and the Caribbean (5)	Argentina Brazil Chile Costa Rica Ecuador <i>First Alternate:</i> Peru <i>Second Alternate:</i> Colombia
Near East (4)	Egypt Iran (Islamic Republic of) Kuwait Yemen <i>First Alternate:</i> Oman <i>Second Alternate:</i> Iraq
North America (2)	Canada United States of America
Southwest Pacific (2)	Fiji Palau <i>First Alternate:</i> Tonga <i>Second Alternate:</i> Marshall Islands