

CURRICULUM VITAE

Name: Gerald F. Qunitio

Nationality: Filipino

Sex: Male

Civil Status: Married

Date of Birth: 25 June 1954

Place of Birth: Manila, Philippines

Home Address:

Blk. 1 Lot 47, 1st Ave.
Ledesco Village, Jaro
Iloilo City 5000
Philippines

Home Tel/Fax:

+63(33)320-4608

Business Address:

Institute of Marine Fisheries and Oceanology
College of Fisheries and Ocean Sciences
University of the Philippines Visayas
Miagao, 5023 Iloilo

Telefax: +63(33)315-8381

Educational Background:

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|-----------------------------|--|
| March 1989 | Doctor of Fisheries Science
Hokkaido University
Hakodate, Hokkaido, Japan
Dissertation: Studies on the Functional Morphology of the Testis in Two
Species of Freshwater Sculpins |
| October 1984-
March 1986 | Research Student
Department of Cultural Fisheries
Faculty of Agriculture
Kochi University
Kochi, Japan |
| April 1980 | M.S. Fisheries (Aquaculture)
University of the Philippines in the Visayas
Iloilo, Philippines
Thesis: The Effect of Various Salinity Levels and Stocking Density
Manipulation Methods on the Survival of Milkfish Fry
(<i>Chanos chanos</i> Forsskal) during Storage |
| May 1976 | B.S. Fisheries (major in Marine Fisheries)
University of the Philippines
Diliman, Quezon City
Philippines |

1967-1971 Secondary Education
 Don Bosco Technical Institute
 Makati, Rizal
 Philippines

Professional License:

Fisheries Technologist Reg. No. 0000336 13 Jan. 2006

**In the Aquaculture Department, Southeast Asian Fisheries Development Center,
 (SEAFDEC/AQD), Tigbauan, Iloilo, Philippines**

Work Experiences:

Jun 1978-Jun 1981	Fisheries Technician, Fish Hatchery Project
Jul 1981	Research Associate, Fish Hatchery Project
Aug 1981-Mar 1984	Research Associate, Finfish Broodstock Project
11 Apr 1989-Feb 1990	Associate Scientist, Breeding Section
24 Jan-15 Feb 1990	Section OIC, SEAFDEC/AQD Nursery Section
16 Feb 1990-1 Aug 1995	Section Head, SEAFDEC/AQD Nursery Section
13 Sep-2 Oct 1990	Division OIC, SEAFDEC/AQD Research Division
Jul 1992-Mar 1996	Project Leader, Breeding of Grouper in Captivity
4 Jan 1993-16 Jul 2004	Scientist I
Sep 1997-16 Jul 2004	Team Leader, Grouper Nursery and Grow-out Culture Project

• **Membership in Committees:**

5 Oct 1989-1 Aug 1990	Member, SEAFDEC/AQD Publications Review Committee
2 Aug 1990-31 May 1993	Chairman, SEAFDEC/AQD Publications Review Committee
22 Mar-24 Oct 1991	Member, Organizing Committee ADSEA II
16 Apr-Oct 1991	Member, ADSEA II Working Committee (Scientific Program and Publication & Editorial)

1 Sep 1994-1996

Chairman, SEAFDEC/AQD Publications
Review Committee

- Thesis Adviser/ Panel Member/Critic to Graduate and Undergraduate Student:
Co-adviser:

M.Sc.: Nora B. Caberoy

Osmoregulation in Grouper *Epinephelus coioides* (Hamilton)
Larvae and Juveniles
(graduated March 1999)

Analyn C. Sa-an

Development of the Digestive System of Rabbitfish *Siganus
guttatus* (Bloch): Histology and Histochemistry
(graduated March 2004)

B. Sc.: Aileen B. Bofill

Embryonic Development and Hatching Rate of Grouper
Epinephelus suillus Eggs Incubated at Different Stocking
Densities
(graduated April 1992)

Panel Member:

M. Sc.: Grace H. Garcia

Milt Response of the Sea Bass *Lates calcarifer* (Bloch) to
Luteinizing Hormone-Releasing Hormone Analogue and
17 α -Methyltestosterone
(graduated April 1992)

Critic:

M. Sc.: Melvin Z. Mangawil

Effect of Feeding Frequency on the Growth, Survival and Net
Yield of Sea Bass (reared in Floating Net
Cages
(graduated November 1990)

- Research Studies Conducted:

1. Optimization of reproductive performance and egg production of *Epinephelus coioides* by sex ratio manipulation
2. Effect of different fat sources on the egg quality of *Epinephelus suillus*
3. Broodstock development of *Epinephelus* sp.
4. Induced sex control in juvenile grouper, *Epinephelus* sp.
5. Mullet broodstock development for fish propagation
6. Development of the digestive system of *Epinephelus coioides* larvae
7. Salinity and temperature adaptation in *Epinephelus coioides* larvae and juveniles
8. Development of sea bass (*Lates calcarifer*)
9. Effect of stocking density and cage size on the growth of juvenile milkfish
10. Development of an efficient method of collecting, handling and transport of newly fertilized milkfish eggs
11. Broodstock development of the mullet *Mugil cephalus*
12. Effect of feeding levels and frequently on growth of milkfish broodstock

Outside SEAFDEC/AQD

- Nov 1975-Dec 1975 Research Assistant, Center for Development Studies, Inc., Diliman, Quezon City, Philippines
- Jan 1976-Apr 1976 Technical Assistant, Department of Natural Resources, Diliman, Quezon City, Philippines
- Feb 1976-Apr 1976 Research Assistant, Synergistic Consultants Inc. Diliman, Quezon City, Philippines
- Jul-Sep 1999 Consultant, GAINEX Mid-term Evaluation Project (GAINEX 99), Gaia South Inc.-Environmental Consultants 7/F Montepino Bldg., Gamboa cor. Adelantado Sts., Legaspi Village, Makati City, Philippines
- 20 Jul-14 Aug 2004 Instructor of Basic Japanese Language, Language Center, West Visayas State University, Luna St., La Paz, Iloilo City
- 21 Sep-5 Nov 2004 Instructor of Basic Japanese Language, Language Program, College of Arts and Sciences, University of the Philippines in the Visayas, Iloilo City
- Nov 2004-present Fish Breeding Expert-Consultant, Integrated Services for the Development of Aquaculture and Fisheries McArthur Highway, Tabuk Suba, Jaro Iloilo, City 5000, Philippines
- 9 May 2005-Jun2006 Private Tutor for Basic Japanese Language

Scholarship/Fellowship/Award/Recognition:

- 1976-1978 PCARR Scholarship as SEAFDEC Pre-employment Scholar for Master of Science Degree at the University of the Philippines in the Visayas
- 1984-1986 Japanese Ministry of Education Scholarship (Monbusho) for Japanese Language (6 mons.) at Osaka University of Foreign Studies and Research Studentship at Kochi University
- 1986-1989 Japanese Ministry of Education Scholarship (Monbusho) for Doctorate Degree at Hokkaido University
- 15 Dec. 1995 Best Research Project Presenter, 4th Annual Research Review of the Fisheries Sector Program - National Fisheries Research Program., 13-15 Dec. 1995, Philippine Coconut Authority Auditorium, Diliman, Quezon City, Philippines

- 9 Jul. 2004 Certificate of Distinguished Service. Awarded by Aquaculture Department, Southeast Asian Fisheries Development Service during its 31st anniversary for service from 1 Jun. 1978 to 16 July 2004.
- 13 May 2009 International Publication Award 2009
University of the Philippines
For the article "Characterization of Betanodavirus in the Philippines" published in the Bull. Euro. Asso. Fish Pathol. (28(6): 230-237, 2008

Research Grant:

- Project title: Breeding of Grouper in Captivity.
Project Leader: GF Qunitio; Study Leaders: CL Marte, MN Duray, GF Qunitio (July 1992 - 31 December 1995)
Funding Agency: Fisheries Sector Program, Philippines Department of Agriculture-Bureau of Agricultural Research
- Study Title: Development of the Digestive System of *Epinephelus coioides* Larvae
Funding Agency: Australian Centre for International Agricultural Research (ACIAR) (2000-2004)

Research Collaboration:

- Japan Society for Promotion of Science Multilateral Cooperative Research Program (collaborating professor: Dr. Akihiko Hara, Hokkaido University)

Training/Seminar/Workshop/Conference Attended:

- 11-12 Jan 1977 Seminar Workshop on Fisheries Engineering
SEAFDEC/AQD, Tigbauan, Iloilo, Philippines
- 29 Dec 1978-
24 Jan 1979 Training Course on Propagation of Grey Mullet
Tungkang, Marine Laboratory
Taiwan Fisheries Research Institute
Tungkang, Pintung, Taiwan
- 4-8 Oct 1983 Second International Milkfish Conference
Iloilo City, Philippines
- Apr-Sep 1984 Special Japanese Language Course for Overseas Students
Osaka University of Foreign Studies
Osaka, Japan

- 4-7 Nov 1987 First Congress of the Asia and Oceania Society for Comparative Endocrinology
Aichi Trade Center, Nagoya, Japan
- 1-4 Apr 1988 Spring 1988 Meeting of the Japanese Society of Scientific Fisheries
Nihon University, Tokyo, Japan.
Paper presented: Annual changes in the testicular activity of the river sculpin *Cottus hangiongensis*
- 24-26 Oct 1990 1st Philippine-French Technical Workshop on Advances in Finfish and Shellfish Mariculture
PCAMRD, Los Baños, Laguna, Philippines.
Paper presented: Mariculture techniques for *Epihephelus* sp. In the Philippines
- 19-23 Aug 1991 Seminar-Workshop on Aquaculture Development in Southeast Asia and Prospects for Seafarming and Searanching
Iloilo City, Philippines
- 26-30 Oct 1992 Third Asian Fisheries Forum and Searanching
World Trade Center, Singapore.
Paper presented: Occurrence of aberrant spermatids in freshwater sculpin, *Cottus nozawae* Snyder
- 9-12 Nov 1992 ASEAN-EEC Coordination Program Workshop on Marine Fish Breeding Technology
Lucena City, Quezon Province, Philippines
- 4-5 May 1993 National Seminar-Workshop on Breeding and Seed Production of Cultured Finfishes in the Philippines
SEAFDEC/AQD, Tigbauan, Iloilo, Philippines
Paper presented: Review of SEAFDEC/AQD finfish seed production research
- 1-3 Sep 1993 National Fisheries Research Program
2nd Annual Research Review
Sulo Hotel, Diliman, Quezon City, Philippines
Paper presented: Breeding of grouper in captivity
- 1-2 Jun 1994 National Seminar-Workshop on Fish Nutrition and Feeds
SEAFDEC/AQD, Tigbauan, Iloilo, Philippines
- 18-24 Jun 1994 Seminar for Unlocking Creative Capabilities for Effective and Superior Supervision (SUCCESS)
Guimbal, Iloilo, Philippines
- 26-28 Jul 1994 Seminar-Workshop on Aquaculture Development in Southeast Asia
Iloilo City, Philippines

- 21-23 Sep 1994 National Fisheries Research Program
3rd Annual Research Review
Bureau of Soils, Diliman, Quezon City, Philippines
Paper presented: Breeding of grouper in captivity
- 5-10 Dec 1994 International Symposium on Biotechnology Applications in
Aquaculture
Taipei, Taiwan
- 13-15 Dec 1995 National Fisheries Research Program
4th Annual Research Review
Philippine Coconut Authority Auditorium
Diliman, Quezon City, Philippines
Paper presented: Breeding of grouper in captivity
- 14-17 May 1996 Second International Conference on the Culture of Peneaid Prawns
and Shrimps
Sarabia Manor Hotel, Iloilo City. Philippines
- 4-8 Dec 1996 Workshop on Aquaculture of Coral Fishes and Sustainable Reef
Fisheries
Sabandar Bay Resort, Tuaran, Sabah, Malaysia
Paper presented: Status of grouper and other coral reef fishes seed
production in the Philippines
- 11-14 Nov 1998 The Fifth Asian Fisheries Forum
Lotus Hotel Pang Suan Kaew, Chiang Mai, Thailand
Paper presented: Osmotic regulation and Na⁺,K⁺-ATPase activity
in grouper *Epinephelus coioides* larvae and
juveniles
- 2-6 May 2000 Aqua 2000 Conference
Convention Center, Nice, France
Poster Paper presented: Possible application of mibolerone for
sex inversion of grouper *Epinephelus
coioides*
- 31 Jul-
2 Aug 2000 Pre-Technical Meeting of Core of Experts for the
Regionalization of the Code of Conduct for Responsible
Fisheries. Phase II Aquaculture Development
Days Hotel, Iloilo City, Philippines
- 3 Aug 2000 Regional Technical Consultation on Aquaculture For the
ASEAN-SEAFDEC Conference on Sustainable Fisheries for Food
Security: "Fish for the People"
Days Hotel, Iloilo City, Philippines
- 23 Jun 2001 Japanese-Language Teacher's Seminar/Workshop
Colegio del Sagrado Corazon de Jesus
Gen. Hughes St., Iloilo City, Philippines
- 30 Sep-4 Oct
2002 Workshop on Sustainable Marine Finfish Aquaculture in the Asia-
Pacific Region

Ha Long P&T Hotel, Halong City, Vietnam
 Paper presented: Preliminary observations on the histology and
 histochemistry of the development of the
 digestive system of grouper *Epinephelus*
coioides larvae

13-14 Mar 2004 5th Marine Research Institute Symposium
 Seikai National Fisheries Research Institute and
 Marine Research Institute, Nagasaki University,
 Nagasaki, Japan

In the University of the Philippines in the Visayas, Mig-ao, Iloilo

Work Experience:

1 Aug 2008-present	Assistant Professor 4 , Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences
1 Nov 2006-31 Jul 2008	Assistant Professor 2 , Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences
10 Apr 2007-present	Faculty-in-charge , Microtechnique Laboratory, Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences
1 Oct 2007-present	Academic Coordinator , Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences
16 Oct 2007-present	Student Relations Officer , College of Fisheries and Ocean Sciences
18 Jan 2008-present	Member , CFOS College Committee for Instruction

Research Grant

- Project Title: Effects of Dispersed Bunker Oil on the Reproduction of Rabbitfish *Siganus guttatus* (Bloch)
 (Oct 2007-Sep 2008, extended to Dec 2009)

Research Collaboration

- Project Title: Interrelationship Between Predator (Cuttlefish) and Prey (Small Shrimp)
 Collaborators: Prof. Michio Hori, Kyoto University
 Prof. Kosaku Yamaoka, Kochi University
 (September 2008-August 2012)

Training

30 May-1 Jun 2007	Geographic Information System Institute of Marine Fisheries and Oceanology, College of Fisheries and Ocean Sciences UP Visayas, Miag-ao, Iloilo
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Thesis Committee Membership

Adviser:

M.Sc. Insafitri
Reproductive Performance of the Mud Clam *Anodontia edentula* (L., 1758) in the Oil Spill Affected Area in Guimaras, Philippines (graduated January 2009)

Committee Member:

M. Sc. Wahyu Andy Nugraha
Clove Oil as Substitute for Cyanide Fishing (graduated April 2008)

M. Sc. Marianne Hubilla-Travis
Food Web Analysis of a Tropical Wetland Ecosystem Recently Invaded by Janitor Fish *Pterygoplichthys disjunctavus* (graduated November 2009)

Seminars/Workshops Attended

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| 18 July 2007 | Professorial Chair Lecture by Dr. Romeo Fortes
Aquaculture: An Option for the Restoration of Damaged Resources in the Aquatic Environment.
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo |
| 18 July 2007 | Professorial Chair Lecture by Dr. Rodolfo Baldevarona
A Study on the Influence of the College of Fisheries and Ocean Sciences, UP in the Visayas on the Coastal Fishermen Living in the Immediate Vicinity of Miag-ao, Iloilo
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo |
| 18 July 2007 | Professorial Chair Lecture by Dr. Crispino Saclauso
Aggressive Behavior and Social Dominance in Genetically Manipulated Tilapia
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo |
| 26 Jul 2007 | National Forum on Fisheries in the Advent of Climate Change
Grand Hotel, Iloilo City |
| 4 Oct 2007 | Fisheries and Aquatic Biotechnology Workshop
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo |
| 10 Dec 2007 | Information Dissemination on the DOST Funding Mechanisms and HRD Opportunities |

- Graduate and Continuing Education Bldg.
UP Visayas, Iloilo City
- 5 Mar 2008 Lecture on Design and Model of Fishing Gears Toward Responsible Fisheries by Dr. Monechika Ishizaki
UP Visayas, Miag-ao, Iloilo
- 30 June 2008 Abstract and Application of Oceanic GIS, Marine Explorer
Graduate and Continuing Education Bldg.
UP Visayas, Iloilo City
- 17 Sep 2008 Lecture on “Ecosystems Services and Poverty Alleviation in the Coastal Areas in the Philippines” by Dr. Ida Siason.
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo
- 27-28 Nov 2008 2nd National Conference on the Solar I Oil Spill:”Two years after...where are we?”
UPV Auditorium, UP Visayas, Iloilo City
Poster Paper presented: Monitoring of the Gonad of Rabbitfish *Siganus guttatus* in an Oil Spill-affected Area”
- 7-8 May 2009 6th annual Meeting of the NRCP Visayas Regional Cluster, “Science Beyond Science: Bringing the Social Dimensions to Basic Research”
UPV, Iloilo City
- 3 Jul 2009 Lecture Series on “Creating Opportunities in Fisheries” and “Fisheries Education Keeping on Track and in Pace”
College of Fisheries and Ocean Sciences
UP Visayas, Miag-ao, Iloilo
- 9 Jul 2009 Special Research Seminar on by Dr. Raul K. Suarez and DK Villaluz Memorial Lecture by Dr. Fernando P. Siringan
SEAFDEC Aquaculture Department, Tigbauan, Iloilo
- 31 Jul 2009 Lecture-Workshop on Financial Management and Liquidation for Academic Organizations
Audio-Visual Room, Interactive Learning Center, UPV, Miagao, Iloilo
- 24 Sep 2009 Lecture on “The Co-existence Mechanism of Closely Related Two Sparid Species Juveniles” by Prof. Kosaku Yamaoka
Conference Room, Umali Hall, UPV, Miagao, Iloilo
- 26 Sep 2009 Workshop on the Updates of the “Monitoring and Rehabilitation Program for Taklong Island National Marine Reserve (TINMAR) Graduate and Continuing Education Program Bldg.. UPV, Iloilo City
- 31 Oct-1 Nov 2009 Symposium on the Formation of Research Center on Control Against Negative Impacts to Coastal Fisheries Resources in Southeast Asia

- Faculty of Fisheries, Kagoshima University, Kagoshima ,
Japan
Presenter & Session Moderator
Paper presented: Monitoring of the Gonad of Rabbitfish
Siganus guttatus in an Oil Spill Affected and Unaffected
Area
- 25 Nov 2009 Seminar on “Food Web Analysis of a Tropical Wetland
Ecosystem Recently Invaded by Janitor Fish
Pterygoplichthys disjunctivus” by Marianne Hubilla-Travis
UPV, Miagao, Iloilo
- 5 Dec 2009 3rd UPV Graduate Research Conference “Advancing into
New Frontiers”
UP Visayas, Iloilo City

Extension Service

- 1 Aug 2007 Resource Person
Fisheries Career Orientation Program
UP Visayas, Miag-ao, Iloilo
Sponsor: U.P. Fisheries Guild
- 17 Aug 2007 Facilitator
Philippine-Japan Friendship Day Celebration
Philippine Science High School
Western Visayas Campus, Iloilo City
- 27 Feb 2008 Judge
Inter-Batch Cook-off
Fisheries Students’ Week
UP Visayas, Miag-ao, Iloilo
- 29 Feb 2008 Judge
Mr. and Ms. CFOS 2008
Fisheries Students’ Week
UP Visayas, Miag-ao, Iloilo

Membership in Society/Organization:

- Asian Fisheries Society, Full Founding Member (Jul. 1986-present)
- Japanese Society of Scientific Fisheries, Student Member (1987-1989), Member (2000-2002)
- Zoological Society of Japan, Member (1989-1991)
- American Society of Zoologists, Member (1989-1991)
- Philippine Association of the Japanese Ministry of Education Scholars, Member (1989-present)
- Philippine Association of the Japanese Ministry of Education Scholars Visayas Chapter, Member (1996-1997), Public Relations Officer-Director (1997-2001),

- Vice-President (2001-2002), President (2002-2004), Board of Director (2004-2007), President (May 2007-March 2008), Board of Director (April 2008-present)
- Philippine Aquaculture Society, Inc., Charter Member (2000-present)
 - National Research Council of the Philippines, Associate Member (2006-present)

Edited Books/Proceedings:

- Lacanilao, F., R.M. Coloso and **G.F. Qunitio** (Eds.). 1994. Proceedings of the Seminar-Workshop on Aquaculture Development in Southeast Asia and Prospects for Seafarming and Searanching. 19-23 Aug. 1991, Iloilo City, Philippines. 159 p.
- Marte, C.L., **G.F. Qunitio** and A.C. Emata (Eds.). 1996. Breeding and seed production of cultured finfishes in the Philippines. 4-5 May 1993. SEAFDEC/AQD, Tigbauan, Iloilo, Philippines. 182 p.

Publications:

- Juario, J.V., M. Natividad, **G. Qunitio** and J. Banno. 1979. Experiments on the induced spawning and larval rearing of the milkfish, *Chanos chanos* (Forsskal) in 1979. SEAFDEC/AQD Qrtly. Res. Rpt., 3. 1-3.
- Lijauco, M., J. Juario, D. Baliao, E. Griño and **G. Qunitio**. 1979. Milkfish culture in brackishwater ponds. SEAFDEC/AQD, Tigbauan, Iloilo. Ext. manual 4. 17 pp.
- Qunitio, G.F.** and G. Kawamura. 1980. A comparison between the catching efficiency of two milkfish fry collecting gears and their respective modifications. SEAFDEC/AQD Qrtly. Res. Rpt., 4. 7-10.
- Juario, J.V., **G.F. Qunitio**, J.E. Banno and M. Natividad. 1980. Effects of exogenous hormone injections on milt consistency in newly caught, wild milkfish. Kalikasan, Philipp. J. Biol. 9. 321-326.
- Qunitio, G.F.** and J.V. Juario. 1980. Effect of various salinity levels and stock manipulation methods on the survival of milkfish fry (*Chanos chanos*) during storage. Fish. Res. J. Philipp. 5. 11-21.
- Baticados, M.C.L. and **G.F. Qunitio**. 1984. Occurrence and pathology of an *Amyloodinium*-like protozoan parasite on gills of grey mullet, *Mugil cephalus*. Helgolander Meeresunters. 37. 595-601.
- Marte, C.L., **G.F. Qunitio**, L.M.B. Garcia and F.J. Lacanilao. 1984. A Guide to the establishment and maintenance of milkfish broodstock. SEAFDEC/AQD-IDRC Tech. Rpt. 11. 36 pp.
- Marte, C.L., J. Toledo, **G. Qunitio** and A. Castillo. 1986. Collection of naturally-spawned milkfish eggs in floating cages, p. 671-674. In J.L. Maclean, L.B. Dizon and L.V. Hosillos (eds.) The First Asian Fisheries Forum. Asian Fisheries Society, Manila, Philippines.

- Quinitio, G.F.**, H. Takahashi and A. Goto. 1988. Annual changes in the testicular activity of the river sculpin, *Cottus hangiongensis* Mori, with emphasis on the occurrence of aberrant spermatids during spermatogenesis. J. Fish Biol. 33: 871-878.
- Quinitio, G. F.**, A. Takemura and A. Goto. 1989. Ovarian development and changes in the vitellogenin levels in the river sculpin, *Cottus hangiongensis*, during an annual reproductive cycle. Bull. Fac. Fish. Hokkaido Univ. 40: 246-253.
- Quinitio, G.F.**, J.D. Toledo, A.T. Duller and D.M. Reyes, Jr. 1991. Survival of yolk-sac larvae of grouper (*Epinephelus suillus*) under simulated transport conditions. p. 326-327 In P. Lavens, P. Sorgeloos, E. Jasper and F. Ollevier (eds.). Larvi '91 - Fish and Crustacean Larviculture Symposium. European Society, Special Publ. 15, Gent, Belgium.
- Quinitio, G.F.** and J.D. Toledo. 1991. Mariculture techniques for *Epinephelus* sp. in the Philippines, p. 94-106. In R.D. Guerrero III and M.P. Garcia, Jr. (eds.) Advances in finfish and shellfish mariculture. Proceedings of the First Philippine-French Technical Workshop on Advances in Finfish and Shellfish Mariculture, PCAMRD, Los Baños, Laguna, Philippines, 24-26 Oct. 1990. Los Baños, Laguna, Philippines. 172 p
- Quinitio, G.F.**, A. Goto and H. Takahashi. 1992. A comparison of the annual changes in testicular activity and serum androgen levels between the early and delayed maturing groups of male *Cottus hangiongensis*. Env. Biol. Fish. 34: 119-126.
- Quinitio, G.F.** and H. Takahashi. 1992. An ultrastructural study on the occurrence of aberrant spermatids in the testis of the river sculpin, *Cottus hangiongensis*. Japan. J. Ichthyol. 39: 235-241.
- Quinitio, G.F.** and H. Takahashi. 1994. Occurrence of aberrant spermatids in the freshwater sculpin, *Cottus nozawae* Snyder. In L.M. Chou, A.D. Munro, T.J. Lam, T.W. Chen, L.K.K Cheong, J.K. Ding, K.K. Hooi, H.W. Khoo, V.P.E. Phang, K.F. Shim, C.H. Tan (eds.). Third Asian Fisheries Forum. Asian Fisheries Society, Manila, Philippines: 802-805.
- Quinitio, G.F.**, R.M. Coloso, N.B. Caberoy, J.D. Toledo and D.M. Reyes, Jr. 1996. Egg quality of grouper *Epinephelus coioides* fed different fatty acid sources, p. 103-107. In D. MacKinlay and M. Eldridge (eds.). The fish egg: Its biology and culture. Proceedings of the International Congress on the Biology of Fishes. 14-18 July 1996. San Francisco State University. 191 p.
- Quinitio, G.F.** and M.N. Duray. 1996. Review of SEAFDEC/AQD finfish seed production research. Proceedings of the National Seminar-Workshop on Breeding and Seed Production of Cultured Finfishes in the Philippines. 4-5 May 1993. SEAFDEC/AQD, Tigbauan, Iloilo, Philippines: 119-131.
- Quinitio, G.F.**, N.B. Caberoy and D.M. Reyes, Jr. 1997. Induction of sex change in female *Epinephelus coioides* by social control. Isr. J. Aqua. - Bamidgeh 49: 77-83.

- Caberoy, N.B. and **G.F. Qunitio**. 1998. Sensitivity of grouper *Epinephelus coioides* eggs to handling stress at different stages of embryonic development. *Isr. J. Aqua.* – Bamidgeh 50: 167-173.
- Qunitio, G.** 1999. The status of seed production of grouper and other coral reef fishes in the Philippines, p 155-162. *In* A.S. Cabanban and M. Phillips (eds.). *Aquaculture of Coral Reef Fishes. Proceedings of the Workshop on Aquaculture of Coral Reef Fisheries.* Kota Kinabalu, Sabah Malaysia. 6-10 Dec. 1996. Institute for Development Studies (Sabah), Malaysia. 280 p.
- Caberoy, N.B. and **G.F. Qunitio**. 2000. Changes in Na⁺,K⁺-ATPase activity and gill chloride cell morphology in the grouper *Epinephelus coioides* larvae and juveniles in response to salinity and temperature. *Fish Physiol. Biochem.* 23: 83-94.
- Qunitio, G.F.**, J.D. Tan-Fermin and A. Nagai. 2001. Possible application of mibolerone for induced sex inversion of grouper *Epinephelus coioides*. *Fisheries Sci.* 67: 232-237.
- Toledo, J.D., N.B. Caberoy, **G.F. Qunitio**, C.H. Choresca and H. Nakagawa. 2002. Effects of salinity, aeration and light intensities on oil globule absorption, feeding incidence, growth and survival of early stages of grouper *Epinephelus coioides* larvae. *Fisheries Sci.* 68: 478-483.
- Toledo, J.D., N.B. Caberoy and **G.F. Qunitio**. 2004. Environmental factors affecting embryonic development hatching and survival of early stage larvae of the grouper (*Epinephelus coioides*). p. 10-16. *In* M.A. Rimmer, S. McBride and K.C. Williams (eds.). *Advances in Grouper Aquaculture.* Canberra. ACIAR Monograph No. 110. 137 p.
- Qunitio, G.F.**, A.C. Sa-an, J.D Toledo and J.D. Tan-Fermin. 2004. Changes in the gastrointestinal tract and associated organs during early development of the grouper *Epinephelus coioides*. p 26-29. *In* M.A. Rimmer, S. McBride and K.C. Williams (eds.). *Advances in Grouper Aquaculture.* Canberra. ACIAR Monograph No. 110. 137 p.
- Qunitio, G.F.**, A.C. Sa-an, J.D Toledo and J.D. Tan-Fermin. 2004. Localization of enzymes in the digestive system during early development of the grouper *Epinephelus coioides*. p 30-34. *In* M.A. Rimmer, S. McBride and K.C. Williams (eds.). *Advances in Grouper Aquaculture.* Canberra. ACIAR Monograph No. 110. 137 p.
- Alava, V.R., F.M.P Priolo, J.D. Toledo, J.C. Rodriguez, **G.F. Qunitio**, A.C. Sa-an, M.R. de la Peña and R.C. Caturao. 2004. Lipid Nutrition studies on grouper (*Epinephelus coioides*) Larvae. p. 47-52. *In* M.A. Rimmer, S. McBride and K.C.

Williams (eds.). *Advances in Grouper Aquaculture*. Canberra. ACIAR Monograph No. 110. 137 p.

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