

Curriculum Vitae (Prof Jianguang Qin) (updated on Jan 9, 2015)

PERSONAL DETAILS

Contact details:

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URL: <http://www.flinders.edu.au/people/jian.qin>
Google citations: <http://scholar.google.com.au/citations?hl=en&user=reP5cXgAAAAJ>

Current appointments at Flinders University:

Professor in Aquaculture
Aquaculture Degree Coordinator

Honorary appointments

2004- present: Honorary Professor, Dalian Fisheries University, China
2009- present: Adjunct Professor, East China Normal University, Shanghai, China
2009- present: Co-Editor-in-Chief for *World Journal of Fish and Marine Sciences*
2010- present: Associate Editor for *Journal of Fisheries and Aquaculture*
2007- present: Editorial Board for *Aquaculture*
2009- present: Editorial Board for *Aquaculture Research*
2012- present: Editorial Board Member for *J. Zhejiang University: Agriculture & Life Sciences*
2012-present: Editorial Board Member for *Development and Application of Oceanic Engineering*
2013-present: Editorial Board Member of *Jacobs Journal of Aquaculture Research*

EDUCATION

1988-1994 Ph.D. Zoology. The Ohio State University, Columbus, USA
Thesis: Effect of fertilization and fish predation on trophic dynamics in aquatic ecosystems.

1986-1988 M.S. Zoology. The University of Oklahoma, Norman, USA
Thesis: Experimental comparison of the effects of benthivorous and planktivorous fish on plankton community structure.

1978-1982 B.S. Aquaculture and Fisheries. Dalian Fisheries College, Dalian, China
Thesis: Fisheries biology in Longyang Canyon Reservoir, China

ACADEMIC CAREER

2013-present Professor, Flinders University
2009-2012 Associate Professor, Flinders University
2004- 2008 Senior Lecturer, Flinders University
1997.3-2003 Lecturer, Flinders University

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1994.3-1997.2 Postdoctoral Fellow, University of Hawaii, USA
1988.9- 1994.3 Research Associate, The Ohio State University, USA
1986.8-1988.5 Research Assistant, The University of Oklahoma, USA
1982.2-1986.7 Teaching Assistant, Dalian Fisheries College, China

HONORS AND AWARDS

Best Paper Award World Aquaculture Society, 2014 (Adelaide)
Best Seafood CRC Paper Prize, 2014
Best Paper Award (silver), ASEAN Conference on Scientific and Social Science Research 2011
Best Paper Award, World Aquaculture Society, 2011, Brazil
South Australian Excellence Research Collaboration Awards of South Australia, 2010
CRC Association's award for "Excellence in Innovation" for the collaborative research project on propagation of Southern Bluefin Tuna, 2010
Media Award by the Flinders Public Affairs and Alumni Office, 2006
Second Prize Paper Award, Australasian Aquaculture Conference, 2006
Exchange Scientist Award, Australian Science of Academy, 2000
Best Paper Award, World Aquaculture Society, 2000
Postdoctoral Fellowship Award, University of Hawaii, 1994-1997
Best Research and Project Award, American Fisheries Society, 1992
Raymond C. Osburn Memorial Fellowship, The Ohio State University, 1992-1993
President's Partners Award, The University of Oklahoma, 1987

PROFESSIONAL SOCIETIES

World Aquaculture Society
Australian Society for Fish Biology
Australian Society for Limnology
Society of International Limnology
BEAM net work (Biotechnological and Environmental Applications of Algae)

RESEARCH INTERESTS

- **Aquatic ecology:** I am interested in how major ecological processes such as competition, and predation, structure aquatic communities and in turn how these findings can be used to improve aquaculture management and increase fish production. Relationships between productivity and nutrient supply, zooplankton grazing and algal abundance, and fish predation and zooplankton abundance are the focus in this area.
- **Fish biology:** Research efforts have included ontogenetic diet shifts in larval fish, fish feeding behaviour under captivity, fish cannibalism, and bioenergetics modelling.
- **Aquaculture:** Research interests concern pond fertilisation theory and practice, green-water aquaculture, water quality management, fish nutrition, polyploidy induction, and fish farming in tanks, cages, and ponds.
- **Biofuel from algae:** My interest in algal culture has gone beyond the production as a basal food to primary consumers in aquaculture. The reliance of petroleum sourced fuels is now widely recognized as

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unsustainable because of depleting supplies and the contribution of these fuels to the accumulation of carbon dioxide in the environment. My research in this area includes the study of the environmental requirements and genetic manipulation of oleaginous algae.

I. Research

Publications: 2 books, 1 patent, 12 book chapters, 157 journal papers, 7 conference papers (Total: 179 publications as of 2 Jan 2015)

Citations total = 2076 (Google Scholar)

h-index 26: 26 papers have been cited for at least 25 times

i10-index 58: 58 papers have been cited for at least 10 times

Patent

Ball, Andrew, Moore, Robert, Knowles, Gregory and Qin, Jian. 2011. Nucleic acid molecule encoding triterpenoid synthase. World Intellectual Property Organization under the Patent Cooperation Treaty, International Publication No. WO 2011/032213 A1.

Books (2)

- 1) Qin JG. 2012. Oyster: Physiology, Ecological distribution and Mortality. Editor. Nova Science Publishers, New York. ISBN-13: 9781621005186. Pp. 311
- 2) Qin JG. 2013. Larval Fish Aquaculture. Editor. Nova Science Publishers, New York. ISBN: 978-1-62417-899-3. pp. 230.

Book chapters (12)

- 1) Ma, ZH, **Qin** JG and Nie ZL. 2012. Morphological changes of Marine Fish Larvae and their nutrition need. In: Larvae: Morphology, Biology and Life Cycle. Editors: Kia Pourali and Vafa Niroomand Raad. Nova Science Publishers, New York. ISBN: 9781619426627, New York.
- 2) **Qin**, JG 2012. Chapter 8: Management strategy 1: Manipulation of pond nutrient ratios. pp 95-109. In: Aquaculture Pond Fertilization: Impacts of Nutrient Input on Production, Charlie C. Mischke (ed). Wiley-Blackwell, New York. 544 pp. ISBN: 978-0-470-95922-0.
- 3) Li Y., Benkendorff K, **Qin** JG and Li XX. 2011. Exploring correlations between spawning mediated response and summer mortality in Pacific oyster *Crassostrea gigas*. In: Oyster: Physiology, Distribution and Mortality. Jian G. Qin (ed). Nova Science Publishers, New York.
- 4) **Qin**, JG. 2010. Chapter 31: Hydrocarbons from algae. In: Microbiology of Hydrocarbons, Oils, Lipids, and Derived Compounds, Vol 4: Consequences of Microbial Interactions with Hydrocarbons, Oils and Lipids. Kenneth N. Timmis (Ed.) Springer-Verlag GmbH Berlin Heidelberg, pp. 2817-2816.
- 5) **Qin**, JG. 2010. Chapter 47: Lipids– containing secondary metabolite from algae. In: Microbiology of Hydrocarbons, Oils, Lipids, and Derived Compounds, Vol 4: Consequences of Microbial Interactions with Hydrocarbons, Oils and Lipids. Kenneth N. Timmis (Ed.) Springer-Verlag GmbH Berlin Heidelberg, pp. 3021-3030.
- 6) Sierp MT and **Qin** JG. 2010. Cyanobacterial Blooms. In: Adelaide: Water of a City – Water? pp. 365-368. Editor: Christopher B. Daniels. Wakefield Press, Kent Town, South Australia. ISBN:

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978 1 86254 861 9.

- 7) **Qin** JG and Sierp MT 2010. Biomanipulation: a potential tool to improve water quality. In: Adelaide: Water of a City – Water? pp. 373-375. Editor: Christopher B. Daniels. Wakefield Press, Kent Town, South Australia. ISBN: 978 1 86254 861 9.
- 8) Ismail HN, **Qin** JG and Seuront L. 2010. Thermal and halo tolerance of a brackish cladoceran *Daphniopsis australis* (Sergeev & Williams), 213-231. In: New Oceanography Research Developments: Marine Chemistry, Ocean Floor Analyses and Marine Phytoplankton. Louis Martorino, and Karl Puopolo (eds). Nova Science Publishers, New York. 332 pp.
- 9) Li Y, **Qin** JG, Moore RB and Ball AS. 2009. Perspectives of marine phytoplankton as a source of nutrition and bioenergy. In: Marine Phytoplankton. William T. Kersey, Samuel P. Munger (editors), pp. 187-202. Nova Science Publishers, New York. ISBN 9781607410874.
- 10) **Qin**, JG. 2008. Larval fish nutrition and rearing technology: State of the art and future. In: Aquaculture Research Trends. Stephen H. Schwartz (editor). Nova Science Publishers, New York. pp 113-148.
- 11) CAB International, 2006. Three snakehead species: northern snakehead *Channa argus argus*, spotted snakehead *Channa punctata*, striped snakehead *Channa striatus* [original text by **J. G. Qin**]. In: Aquaculture Compendium, first edition. Wallingford, UK: CAB International (15,000 words).
- 12) CAB International, 2006. Aquaculture teaching, teaching material, develop teaching materials and teaching tools [original text by **J. G. Qin**]. In: Aquaculture Compendium, first edition. Wallingford, UK: CAB International. (10,000 words).

Peer refereed journals (157)

- 1) Ma ZH, Tan DAY AND **Qin** JG. 2014. Jaw deformities in the larvae of yellowtail kingfish (*Seriola lalandi* Valenciennes, 1833) from two groups of broodstock. Indian Journal of Fisheries. 61: 137-140.
- 2) Chen KE, Li EC, Gan LEI, Wang XD, Xu Ch, Lin HZ, **Qin** JG and Chen LQ. 2014. Growth and lipid metabolism of the pacific white shrimp *Litopenaeus vannamei* at different salinities. Journal of Shellfish Research, 33 (3): 825–832. v
- 3) Alkhamis Y, **Qin** JG. 2014. Comparison of N and P requirements of *Isochrysis galbana* under phototrophic and mixotrophic conditions. Journal of Applied Phycology (DOI: 10.1007/s10811-014-0501-5)
- 4) Rasdi NW, **Qin** JG. 2014. Effect of N:P ratio on growth and chemical composition of *Nannochloropsis oculata* and *Tisochrysis lutea*. Journal of Applied Phycology (DOI: 10.1007/s10811-014-0495-z)
- 5) Wei JJ, Zhang F., Tian WJ, Kong YQ, Li Q, Yu N, Du ZY, Wu QQ, **Qin** JG, Chen LQ. 2014. Effects of dietary folic acid on growth, antioxidant capacity, non-specific immune response and disease resistance of juvenile Chinese mitten crab *Eriocheir sinensis* (Milne-Edwards, 1853). Aquaculture Nutrition (accepted on 25/11/2014)

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- 6) Bansemer MS, Harris JO, Qin JG, Adams LR, Duong DN, Stone DAJ. 2015. Stone Growth and feed utilisation of juvenile greenlip abalone (*Haliotis laevis*) in response to water temperatures and increasing dietary protein levels. *Aquaculture* 436: 13-20. DOI: 10.1016/j.aquaculture.2014.10.033. v
- 7) Chen YL, Li EC, Chen LQ, Qin JG, Ding ZL, Li M, Jiang HB, Sun SM, Kong YQ. 2014. Growth and immune response of Chinese mitten crab (*Eriocheir sinensis*) fed diets containing different lipid sources. *Aquaculture Research*, 2014: 1-13 (accepted on 3/11/2014).
- 8) Wu YB, Ren G, Qin JG, Han H, Wang Y. 2014. The suitable dose of gamma-irradiation on soybean meal as a fish meal substitute in diets for golden pompano (*Trachinotus ovatus*). *Aquaculture Research*, 2014: 1-11 (accepted on 2/11/2014). doi:10.1111/are.12651
- 9) Ma ZH, Guo HY, Zheng PL, Wang L, Jiang SG, Zhang DC, Qin JG. 2014. Effect of salinity on the rearing performance of juvenile golden pompano *Trachinotus ovatus* (Linnaeus 1758). *Aquaculture Research*, 2014: 1-9. doi:10.1111/are.12633.
- 10) Liu YB, Li XX, Xu T, Robinson N, Qin JG. 2014. Greenlip abalone (*Haliotis laevis* Donovan, 1808) sperm cryopreservation using a programmable freezing technique and testing the addition of amino acid and vitamin. *Aquaculture Research*, 1-12 (doi:10.1111/are.12609)
- 11) Bansemer MS, Qin JG, Harris JO, Howarth GS and Stone DAJ. 2014. Nutritional requirements and use of macroalgae as ingredients in abalone feed. *Reviews in Aquaculture*, 5: 1-15. doi: 10.1111/raq.12085 (early online view available).
- 12) Bowyer JN, Booth MA, Qin JG, D'Antignana T, Thomason MJS, Stone DAJ. 2014. Temperature and dissolved oxygen influence growth and digestive enzyme activities of yellowtail kingfish *Seriola lalandi* (Valenciennes, 1833). *Aquaculture Research*, 45, 2010-2020 (doi:10.1111/are.12146).
- 13) Liu YB, Li XX, Xu T, Robinson N, Qin JG. 2014. Improvement in non-programmable sperm cryopreservation technique in farmed greenlip abalone *Haliotis laevis*. *Aquaculture*, 434: 362-366 (DOI: 10.1016/j.aquaculture.2014.08.033).
- 14) Ma ZH, Zheng PL, Guo HY, Jiang SG, Qin JG, Zhang DC, Liu XL. Salinity regulates antioxidant enzyme and Na⁺K⁺-ATPase activities of juvenile golden pompano *Trachinotus ovatus* (Linnaeus 1758). *Aquaculture Research*, 2014: 1-7. doi: 10.1111/are.12606
- 15) Ma ZH, Zheng PL, Guo HY, Zhang N, Jiang SG, Zhang DC, Qin JG. 2014. Jaw malformation of hatchery reared golden pompano *Trachinotus ovatus* (Linnaeus 1758) larvae. *Aquaculture Research*, 2014: 1-9. DOI: 10.1111/are.12569
- 16) Zhang YQ, Wu YB, Jiang DL, Qin JG, Wang Y. 2014. Gamma-irradiated soybean meal replaced more fish meal in the diets of Japanese seabass (*Lateolabrax japonicus*). *Animal Feed Science and Technology* 197: 155-163. DOI: 10.1016/j.anifeedsci.2014.08.002
- 17) Wei JJ, Yu N, Tian WJ, Zhang F, Wu QQ, Li EC, Zhang ML, Du ZY, Qin JG, Chen LQ. Dietary

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- vitamin B12 requirement and its effect on non-specific immunity and disease resistance in juvenile Chinese mitten crab *Eriocheir sinensis*. *Aquaculture* 434: 179-183
- 18) Ding ZL, Kong YQ, Chen LQ, Qin JG, Sun SM, Li M, Du ZY, Ye JY. 2014. A clip-domain serine proteinase homolog (SPH) in oriental river prawn, *Macrobrachium nipponense* provides insights into its role in innate immune response. *Fish and Shellfish Immunology* 39: 336-342. <http://dx.doi.org/10.1016/j.fsi.2014.05.021>
- 19) Ren G, Wang Y, Qin J.G, Tang J, Zheng X, Li Y. 2014. Characterization of a novel carbonic anhydrase from freshwater pearl mussel *Hyriopsis cumingii* and the expression profile of its transcript in response to environmental conditions. *Gene* 546: 56-62.
- 20) Rasdi NW, JG Qin. 2014. Improvement of copepod nutritional quality as live food for aquaculture: a review. *Aquaculture Research*, 2014: 1-20 (doi:10.1111/are.12471).
- 21) Li M, Chen LQ, **Qin** JG, Li EC, Yu N, Du ZY. 2014. Effects of ammonia stress, dietary linseed oil and *Edwardsiella ictaluri* challenge on juvenile darkbarbel catfish *Pelteobagrus vachelli*. *Fish and Shellfish Immunology* 38: 158-165.
- 22) Collins GM, Ball AS, **Qin** JG, Bowyer JN, Stone DAJ. 2014. Effect of alternative lipids and temperature on growth factor gene expression in yellowtail kingfish (*Seriola lalandi*). *Aquaculture Research*, 45: 1236-1245 (doi:10.1111/are.12067).
- 23) Dinh QM, **Qin** JG, Dittmann S and Tran DD. 2014. Burrow morphology and utilization of the goby (*Parapocryptes serperaster*) in the Mekong Delta, Vietnam. *Ichthyological Research*, 61: 332-340 (DOI 10.1007/s10228-014-0402-2).
- 24) Meakin CA, **Qin** JG, Pogson, LD, Abbott CA. 2014. Thermal tolerance in juvenile King George whiting (*Silliginodes punctata*) reduces as fish age and this reduction coincides with migration to deeper colder water. *Comparative Biochemistry and –Physiology: Part A Molecular and Integrative-Physiology*, 172: 46-51.
- 25) Wang XD, Li EC, Xu C, Qin JG, Wang SF, Chen XF, Cai Y, Chen K, Gan L, Yu N, Du ZY, Chen LQ. 2014. Growth, body composition, ammonia tolerance and hepatopancreas histology of white shrimp *Litopenaeus vannamei* fed diets containing different carbohydrate sources at low salinity. *Aquaculture Research*, 2014: 1-12 (DOI: 10.1111/are.12650).
- 26) Wang XD, Li EC, Qin JG, Wang SF, Chen XF, Cai Y, Chen K, Hou YM, Yu N, Zhang ML, Du ZY, Chen LQ. 2014. Growth, body composition, and ammonia tolerance of juvenile white shrimp *Litopenaeus vannamei* fed diets containing different carbohydrate levels at low salinity. *Journal of Shellfish Research*, 33: 511-517. doi: 10.2983/35.033.0220.
- 27) Wang XD, Li EC, Wang SF, Qin JG, Chen XF, Lai QM, Chen K, Xu C, Gan L, Yu N, Du ZY, Chen LQ. 2014. Protein sparing effect of carbohydrate in the diet of white shrimp *Litopenaeus vannamei* at low salinity. *Aquaculture Nutrition*, 1-9 (DOI: 10.1111/anu.12221)

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- 28) Zhao DX, Chen LQ, **Qin** JG, Qin CJ, Zhang H, Wu P, Li EC. 2014. Molecular characterization of a cytosolic manganese superoxide dismutase from the Chinese mitten crab *Eriocheir sinensis*. *Genetics Molecular Research* 13: 9429-9442.
- 29) Liu YB, Xu T, Robinson N, **Qin** JG, Li X.X. 2014. Cryopreservation of sperm in farmed blacklip abalone (*Haliotis rubra* Leach, 1814). *Aquaculture Research*, 1-9 (doi:10.1111/are.12415).
- 30) Liu YB, Xu T, Li XX, Robinson N, **Qin** JG 2014. Cryopreservation of sperm in farmed Australian greenlip abalone *Haliotis laevis*. *Cryobiology*, 68: 185-193.
- 31) Ma ZH, Zheng PL, Guo HY, N. Zhang, L. Wang, S.G Jiang, JG Qin, DC Zhang. 2014. Effect of weaning time on the performance of *Trachinotus ovatus*. (Linnaeus 1758) larvae. *Aquaculture Nutrition* (accepted on 03-Mar-2014).
- 32) Ma ZH, Guo HY, Zheng PL, Wang L, Jiang SG, **Qin** JG, Zhang DC. 2014. Ontogenetic development of digestive functionality in golden pompano *Trachinotus ovatus* (Linnaeus 1758). *Fish Physiology and Biochemistry*, 40: 1157-1167. (DOI 10.1007/s10695-014-9912-0).v
- 33) Ma ZH, **Qin** JG. 2014a Replacement of fresh algae with commercial formulas to enrich rotifers in larval rearing of yellowtail kingfish *Seriola lalandi* (Valenciennes, 1833). *Aquaculture Research*, 45: 949-960 (doi:10.1111/are.12037).
- 34) Ma ZH, **Qin** JG, Hutchinson W, Chen BN and Song L. 2014b. Responses of digestive enzymes and body lipids to weaning times in yellowtail kingfish *Seriola lalandi* (Valenciennes, 1833) larvae. *Aquaculture Research*, 45: 973-982 (doi:10.1111/are.12039).
- 35) Wang LG, Chen LQ, **Qin** JG, Li EC, Yu N, Du ZY, Kong YQ, Qi J. 2014. Effect of dietary lipids and vitamin E on growth performance, body composition, anti-oxidative ability and resistance to *Aeromonas hydrophila* challenge of juvenile Chinese mitten crab *Eriocheir sinensis*. *Aquaculture Research*, 2014: 1-15. DOI: 10.1111/are.12416
- 36) Wang LG, Li EC, JG Qin, ZY Du, N Yu, YQ Kong, DX Feng, LQ Chen. 2014. Effect of oxidized fish oil and α -tocopherol on growth, anti-oxidation status, non-specific immune response and resistance to *Aeromonas hydrophila* challenge of Chinese mitten crab, *Eriocheir sinensis*. *Aquaculture Nutrition*, 2014: 1-11. (doi: 10.1111/anu.12171)
- 37) Woolley LD, Fielder DS, **Qin** JG. 2014. Swimbladder inflation, growth and survival of yellowtail kingfish *Seriola lalandi* larvae under different temperature, light and oxygen conditions. *Aquaculture Research*, 45: 1489-1498 (doi:10.1111/are.12097) (2012 online)
- 38) Wu YB, Han H, JG Qin, Y Wang. 2014. Replacement of fish meal by soy protein concentrate with taurine supplementation in diets for golden pompano (*Trachinotus ovatus*). *Aquaculture Nutrition*, 1-9. DOI: 10.1111/anu.12161.
- 39) Zhang YQ, Ji WX, Wu YB, Han H, Qin JG, Wang Y. 2014. Replacement of dietary fish meal by soybean meal supplemented with crystalline methionine for Japanese seabass (*Lateolabrax*

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- japonicus*). Aquaculture Research, 2014: 1-10 (online 25 Jun 2014, DOI: 10.1111/are.12486).
- 40) Alkhamis Y and **Qin** JG. 2013. Cultivation of *Isochrysis galbana* in phototrophic, heterotrophic and mixotrophic conditions. BioMed Research International (formerly titled Journal of Biomedicine and Biotechnology), Vol 2013, Article ID 983465, 9 p., <http://dx.doi.org/10.1155/2013/983465>.
 - 41) Bowyer JN, **Qin**, JG, Smullen RP, Adams LR, Thomas MJS, Stone DAJ. 2013a. The use of a soy product in juvenile yellowtail kingfish (*Seriola lalandi*) feeds at different water temperatures: 1. Solvent extracted soybean meal. Aquaculture 384-387: 35-45.
 - 42) Bowyer JN, **Qin** JG, Smullen RP, Adams LR Thomas MJS, Stone DAJ. 2013b. The use of a soy product in juvenile yellowtail kingfish (*Seriola lalandi*) feeds at different water temperatures: 2. Soy protein concentrate. Aquaculture 410-411:1-10.
 - 43) Bowyer JN, **Qin** JG, Stone DAJ. 2013c. Protein, lipid and energy requirements of cultured marine fish in cold, temperate and warm water. Reviews in Aquaculture. 2013 5: 10-32.
 - 44) Ding ZL, Chen LQ, **Qin** JG, Sun SM, Li EC, Yu N, Li M, Chen YL. 2013. Molecular cloning, characterization and expression analysis of the fatty acid-binding protein (MnFABP), involved in dietary lipid sources response in oriental river prawn, *Macrobrachium nipponense*. Aquaculture Nutrition. doi: 10.1111/anu.12088.
 - 45) Dong XY, Zhang XM, **Qin** JG, Zong SB. 2013. Acute ammonia toxicity and gill morphological changes of Japanese flounder *Paralichthys olivaceus* in normal versus supersaturated oxygen. Aquaculture Research 44: 1752-1759.
 - 46) Dorgham MM, El-Tohamy WS, Aziz NEA, El-Ghobashi A, **Qin** JG. 2013. Protozoa in a stressed area of the Egyptian Mediterranean coast of Damietta, Egypt. Oceanologia 55: 733-750.
 - 47) Jiang HB, Chen LQ, **Qin** JG, Gao LJ, Li EC, Yu N, Sun SM, Jiang XQ. 2013. Partial or complete substitution of fish meal with soybean meal and cottonseed meal in Chinese mitten crab *Eriocheir sinensis* diets. Aquaculture International 21: 617-628.
 - 48) Jiang XQ, Chen LQ, Qin JG, **Qin** CJ, Jiang HB, Li EC. 2013. Effects of dietary soybean oil inclusion to replace fish oil on growth, muscle fatty acid composition, and immune responses of juvenile darkbarbel catfish, *Pelteobagrus vachelli*. African Journal of Agricultural Research 8: 1492-1499.
 - 49) Li M, Chen LQ, **Qin** JG, Li EC, Yu N, Du ZY. 2013. Growth performance, antioxidant status and immune response in darkbarbel catfish *Pelteobagrus vachelli* fed different PUFA/vitamin E dietary levels and exposed to high or low ammonia. Aquaculture 406-407: 18-27.
 - 50) Li M, Chen LQ, Li EC, Yu N, Ding ZL, Chen YL, **Qin** JG. 2013. Growth, immune response and resistance to *Aeromonas hydrophila* of darkbarbel catfish, *Pelteobagrus vachelli* (Richardson), fed diets with different linolenic acid levels. Aquaculture Research, 1-12. doi:10.1111/are.12236
 - 51) Li Y, Moore RB, **Qin** JG, Scott A, Ball AS. 2013. Extractable liquid, its energy and hydrocarbon

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- content in the green alga *Botryococcus braunii*. Biomass and Bioenergy 52: 103-112.
- 52) Ma ZH, **Qin** JG, Hutchinson W, Chen BN 2013. Food consumption and selectivity by larval yellowtail kingfish *Seriola lalandi* cultured at different live feed densities. Aquaculture Nutrition 19: 523-534. (doi: 10.1111/anu.12004).
- 53) **Qin** JG, D'Antignana T, Zhang W, Franco F. 2013. Discovery of antimicrobial activities of a marine diatom *Thalassiosira rotula*. African Journal of Microbiology Research 7: 5687-5696. DOI: 10.5897/AJMR12.2183.
- 54) Ribeiro FF, **Qin** JG. 2013. Modelling size-dependent cannibalism in barramundi *Lates calcarifer*: cannibalistic polyphenism and its implication to aquaculture. PLOS One. 8, e82488, 1-8.
- 55) Song L, **Qin** JG, Clarke S, Li Y. 2013. Competition and succession between the oily alga *Botryococcus braunii* and two green algae *Chlorella vulgaris* and *Chlamydomonas reinhardtii*. Journal of Applied Phycology. 25: 847-853.
- 56) Sun SM, **Qin** JG, Yu N, Ge XP, Jiang HB, Chen LQ. 2013a. Effect of dietary copper on the growth performance, non-specific immunity and resistance to *Aeromonas hydrophila* of juvenile Chinese mitten crab, *Eriocheir sinensis*. Fish and Shellfish Immunology. 34: 1195-1201.
- 57) Sun, SM., Chen, LQ, Ge, XP, **Qin** JG. 2013b. Examination of a practical method for copper enrichment of euryhaline rotifers (*Brachionus plicatilis*) as diet of *Eriocheir sinensis* zoea larvae. Aquaculture Nutrition. 19:809-817.
- 58) Sun SM, Chen LQ, Ge XP, **Qin** JG, Jiang ZQ, Li EC. 2013c. Effect of copper-enriched *Artemia* on growth, body composition, antioxidant enzyme activities, and osmotic stress tolerance of Chinese mitten crab *Eriocheir sinensis* larvae. Journal of Shellfish Research, 32 (3): 759-766.
- 59) Woolley LD, Fielder SD, **Qin** JG. 2013. Swimbladder inflation associated with body density change and larval survival in southern bluefin tuna *Thunnus maccoyii*. Aquaculture International 21: 1233-1242.
- 60) Woolley LD, **Qin** JG. 2013. Ontogeny of body density and the swimbladder in yellowtail kingfish *Seriola lalandi* larvae. Journal of Fish Biology 82: 658–670.
- 61) Wu YB, Han H, **Qin** JG, Wang Y. 2013. Effect of feeding frequency on growth, feed utilization, body 1 composition and waste output of juvenile golden pompano (*Trachinotus ovatus*) reared in net pens. Aquaculture Research, 1-8. doi:10.1111/are.12297
- 62) Zhao W, Chen L, Zhang F, Wu P, Li E, **Qin** J. 2013. Molecular characterization of cathepsin L cDNA and its expression during oogenesis and embryogenesis in the oriental river prawn *Macrobrachium nipponense* (Palaemonidae). Genetics and Molecular Research 12: 5215-5225.
- 63) Bowyer JN, **Qin** JG, Smullen RP, Stone DAJ. 2012a. Replacement of fish oil by poultry oil and canola oil in yellowtail kingfish (*Seriola lalandi*) at optimal and suboptimal temperatures.

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- Aquaculture 357: 211–222.
- 64) Bowyer JN, **Qin** JG, Adams LR, Thomason MJS, Stone DAJ. 2012b. The response of digestive enzyme activities and gut histology in yellowtail kingfish (*Seriola lalandi*) to dietary fish oil substitution at different temperatures. *Aquaculture* 368:19–28.
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- 15) Duong, D.N., Qin, J., Stone, D., Harris, J., 2013. The effects of water temperature on the bioenergetics of abalone fed macroalgae supplements. Annual Australian Abalone Growers' Association workshop, SARDI Aquatic Sciences, 5-6th September 2013, Adelaide.
- 16) Hoang HT, Qin J, Stone D, Harris J. 2013. The effects of water temperature on the bioenergetics of abalone fed macroalgae supplements. Annual Australian Abalone Growers' Association workshop, SARDI Aquatic Sciences, 5-6th September 2013, Adelaide.
- 17) Dinh MQ, Qin JG, Dittmann S, Tran DD. 2013. Length-weight relationship in the goby, *Parapocryptes serperaster* (Richardson, 1864), caught from coastline of Tran De, Soc Trang, Vietnam. New Zealand Freshwater Sciences Society, New Zealand Marine Sciences Society and the Australian Society for Fish Biology- Aquatic Science at the Interface. 19-23 August 2013. Hamilton, New Zealand.
- 18) Dinh MQ, Qin JG, Dittmann S, Dinh TD. 2012. Inter-tidal burrowing structure of goby (*Parapocryptes serperaster*). International Fisheries Symposium: Sharing knowledge for sustainable development of aquaculture and fisheries in South-East Asia. Can Tho, Vietnam, 6-8th December 2012.
- 19) Cobcroft JM, Battaglione SC, Boaventura M, Chen BN, Deichmann M, Elizur A, Fielder S., Hilder PI, Hutchinson H, Knuckey R, Miller A, Qin JG, Schipp G, Thomson M. 2012. Investigating the larval culture requirements of southern bluefin tuna, *Thunnus maccoyii*, for aquaculture in Australia. The Final Global COE Program International Symposium. November 23-24, 2012 in Kushimoto Town, Wakayama, Japan.
- 20) Woolley LD, Qin JG, Partridge DJ. 2012. Mortality linked with swimbladder malformations and the early artemia feeding stage in yellowtail kingfish (*Seriola lalandi*). 36th Annual Larval Fish Conference. 1-6 July 2012. Bergen, Norway.
- 21) Bowyer J, Qin JG, Smullen RP, Ward LR, Stone DAJ. 2012. The influence of temperature on fish meal substitution with soybeans in yellowtail kingfish *Seriola lalandi*. Australasian Aquaculture Conference. 1-4 May 2012. Melbourne, Australia.
- 22) Song L, Qin JG, Su SQ, Clarke S. 2012. Enhancement of growth and hydrocarbon production with micronutrients in an oil producing green algae. Australasian Aquaculture Conference. 1-4 May 2012. Melbourne, Australia.
- 23) Woolley L, Qin JG, Partridge G. 2012. Effect of *Artemia* feeding on body density and mortality of yellowtail kingfish *Seriola lalandi* larvae. Australasian Aquaculture Conference. 1-4 May 2012. Melbourne, Australia.
- 24) Cobcroft JM, Battaglione SC, Chen BN, Deichmann M, Thomason M, Hutchinson H, Knuckey R, Miller A, Qin JG, Schipp G. 2012. Understanding larval culture requirements of southern bluefin tuna. Australasian Aquaculture Conference. 1-4 May 2012. Melbourne, Australia.
- 25) Ma ZH, Qin JG, Hutchinson W, Chen BN, Yang DTA. 2012. Temperature regulates the growth, survival and jaw malformation of yellowtail kingfish *Seriola lalandi* larvae. Australasian Aquaculture Conference. 1-4 May 2012. Melbourne, Australia.
- 26) Woolley L, Qin JG. 2012. Swimbladder ontogeny and environmental factors regulating larval fish function. Australian Society for Fish Biology 15-18 July 2012. Adelaide, South Australia.
- 27) Qin JG. 2012. Food and feeding food and feeding ecology of snapper larvae ecology of snapper larvae. Australian Society for Fish Biology 15-18 July 2012. Adelaide, South Australia.
- 28) Ma ZH, Hutchinson W, Chen BN, Qin JG, Thomson MS. 2012. Exploration of optimum temperature regimes for yellowtail kingfish larvae. Australian Society for Fish Biology 15-18 July 2012. Adelaide, South Australia.

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- 29) Meakin CA, Qin JG, Fowler AJ. 2012. Food competition and resource partitioning among King George whiting and other fish species at a nursery ground. Australian Society for Fish Biology 15-18 July 2012. Adelaide, South Australia.
- 30) Chen BN, Hutchinson W, Ma ZH, Qin, JG, Cobcroft J, Battaglene S and Thomson MS. 2012. Gut histological change of yellowtail kingfish (*Seriola lalandi*) larvae during weaning. Australian Society for Fish Biology 15-18 July 2012. Adelaide, South Australia.
- 31) Alkhamis Y, Qin JG and Zhang W. 2012. Cultivation of marine microalgae in heterotrophic and mixotrophic conditions. Asia-Pacific Conference on Algal Biotechnology. 9-12 July 2012. Adelaide, Australia.
- 32) Li Y, Moore RB, Qin JG, Scott A, Ball AS. 2012. Combustible material, biofuel energy and hydrocarbon contents in a green oily alga *Botryococcus braunii*. Asia-Pacific Conference on Algal Biotechnology. 9-12 July 2012. Adelaide, Australia.
- 33) Jian G. Qin, Trent D'Antignana, Wei Zhang, Chris Franco. 2012. Antibiotic substances in marine microalgae. Asia-Pacific Conference on Algal Biotechnology. 9-12 July 2012. Adelaide, Australia.
- 34) Jenna N. Bowyer, Jian G. Qin, Richard P. Smullen, Louise R. Ward, David A.J. Stone. 2011. The use of plant and animal oils to improve the sustainable production of yellowtail kingfish *Seriola lalandi*. Australasian Section of the American Oil Chemists' Society (AAOCS), Adelaide, Australia, November 9 - 11, 2011.
- 35) Bowyer JN, Qin JG, Smullen Richard, Ward LR, Stone DAJ. 2011. The influence of water temperature on fish oil substitution in yellowtail kingfish *Seriola lalandi*. World Aquaculture Conference, June 6-10, 2011, Natal Convention Center, Natal, Brazil. (won **Best Paper Award**).
- 36) Ismail HN, Qin JG, Seuront L. 2011. The tolerance and reproductive performance of *Daphniopsis australis* (Cladocera: Daphnieidae) in response to temperature changes. ASEAN Conference on Scientific and Social Science Research (ACSSSR 2011). 22-23 June. Penang, Malaysia. (won **Best Paper Award**).
- 37) Song L and Qin J G. Interspecific competition on oil producing algae *botryococcus braunii* by other three species of green algae. 2010. World Aquaculture Society Conference, San Diego, California, March 1 - 5, 2010.
- 38) Bowyer J, Qin JG, Fisher D and Stone D. 2010. Hyper-salinity affects the efficacy of AQUI-S® with cultured yellowtail kingfish, *Seriola lalandi*. Australasian Aquaculture Conference, 23-26 May 2010, Hobart, Australia.
- 39) Woolley LD, and **Qin JG**, Alex Czypionka, Konrad Czypionka. 2010. Hatching success and early larval development of southern bluefin tuna *Thunnus maccoyi*. Australasian Aquaculture Conference, 23-26 May 2010, Hobart, Australia.
- 40) Hutchinson WG, Chen BN, Cobcroft JM, Battaglenc SC, Skordas P, **Qin JG**. 2010. Effect of live food feeding regimes on yellowtail kingfish *seriola lalandi* larval survival and growth. Australasian Aquaculture Conference, 23-26 May 2010, Hobart, Australia.
- 41) Leung, J., M. S. Kumar, P. Glatz, K. Kind, and J. G. Qin. 2007. Implications of zooplankton as a tool for bio-remediation: A review. November 20-23. 8th Asian Fisheries Forum. Kochi, India.
- 42) Chen BN, **Qin JG**, Carragher JF, Kumar MS, Hutchinson W, Clarke SM. 2007. Digestive system alternation associated with food deprivation in yellowtail kingfish *Seriola lalandi* larvae. Aquafin CRC Annual Conference, 14-17 May, 2007, Barossa Valley, SA, Australia.
- 43) Li Y, **Qin JG**, Abbott CA, Benkendorff K and Li XX. 2007. The impact of spawning on the thermotolerance and antibacterial activity of Pacific oyster (*Crassostrea gigas*) in South Australia. World Aquaculture Conference, February 26-March 2, 2007. San Antonio, Texas, USA.
- 44) Chen, B.N., J. G. **Qin**, J.F. Carragher, J.F., S.M. Clarke, M.S. Kumar and W.G. Hutchinson. 2006.

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- Effects of food deprivation on the digestive system in yellowtail kingfish *Seriola lalandi* during the early ontogeny. Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
- 45) Li, Y. J.G. **Qin**, K. Benkendorff and X. Li. 2006. The impact of spawning on antibacterial activity of pacific oyster (*Crassostrea gigas*). Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
 - 46) Li, Y. J.G. **Qin**, C.A. Abbott, K. Benkendorff and X. Li. 2006. The impact of spawning on the thermotolerance of pacific oyster (*Crassostrea gigas*) in South Australia. Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
 - 47) Yasir, I. and J.G. **Qin**. 2006. Breeding and embryonic development of false clownfish (*Amphiprion ocellaris* Cuvier). Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
 - 48) **Qin**, J. G., Y. Li and R. Skilbeck. 2006. Growth environment and hydrocarbon production in microalgae. Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
 - 49) **Qin**, J.G., C. Meakin and G. Mair. 2006. Evaluation of the role of natural food in the culture of freshwater crayfish. Australasian Aquaculture Conference, 27-30 August, Adelaide, Australia.
 - 50) **Qin**, J. G. and X. Tian. 2004. Compensatory growth in barramundi *Lates calcarifer*. Annual Meeting of Australian Society for Fish Biology, September 19-24, 2004. Adelaide.
 - 51) Yasir, I. and J. G. **Qin**. 2004. Impact of light intensity on colour performance in false clownfish *Amphiprion ocellaris* Cuvier. Annual Meeting of Australian Society for Fish Biology, September 19-24, 2004. Adelaide.
 - 52) Sierp, M. and J. G. **Qin**. 2004. Biomanipulation: the role of Murray cod to improve drinking water quality. Annual Meeting of Australian Society for Fish Biology, September 19-24, 2004. Adelaide.
 - 53) Chen, B. and J. G. **Qin**. 2004. Ontogenetic Development of Digestive Enzymes in Yellowtail Kingfish *Seriola lalandi* Larvae. Annual Meeting of Australian Society for Fish Biology, September 19-24, 2004. Adelaide.
 - 54) Li, Y. and J. G. **Qin**. 2004. The impacts of temperature, light and salinity on the growth of oil-rich green alga *Botryococcus braunii*. Australasian Aquaculture Conference, September 26-29, 2004. Sydney.
 - 55) Chen, B. and J. G. **Qin**. 2004. Morphological and Histological Development of the Digestive System in Yellowtail Kingfish *Seriola lalandi* Larvae. Australasian Aquaculture Conference, September 26-29, 2004. Sydney.
 - 56) Chen, B. and J. **Qin**. 2003. Functional development of larval fish digestive system. Aquafin CRC Conference, Oct 28-30, 2003, Adelaide.
 - 57) Chen, B. and J. G. **Qin**. 2002. Morphological and physiological changes in the digestive tract of King George hiting (*Sillaginodes punctata*). Aquafin CRC Snapper Workshop. September 26, 2002, Melbourne.
 - 58) D'Antignana, T., J. G. **Qin**, W. Zhang, and C. Franco. 2002. Antibiotic substances produced by marine micro algae. April 23-27. World Aquaculture Conference. Beijing, China. (**won Best Paper Award**).
 - 59) Qin, J.G. Z. H. He, Y. Wang, H. Jiang, and W. Zhao. 2002. Use of saltwater cladoceran *moina mongolica* as potential live food for marine finfish larvae. April 23-27. World Aquaculture Conference. Beijing, China.
 - 60) Luckens, R., and J.G. **Qin** and M. Kumar. 2001. Effect of rainbow fish (*Melanotaenia fluviatilis*) on zooplankton and phytoplankton community in experimental tanks. International Limnology Conference in Melbourne, Feb 10-14, 2001.
 - 61) **Qin**, J.G., and A.W. Fast. 2000. Intensive Culture of an Air-Breathing Fish, Snakehead (*Channa striatus*) at Larval, Fingerling and Growout Stages. Oct 31-Nov 3. World Fisheries Congress.

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- Beijing, China.
- 62) Hillier, T., P. Peries, and J.G. **Qin**. 2000. Effect of food size, light intensity and green water background on the survival of snapper larvae (*Pagrus auratus*). May 2-6. World Aquaculture Society Conference. Nice, France.
 - 63) **Qin**, J.G. and T. Hillier. 2000. Live Food and Feeding Ecology of Larval Snapper (*Pagrus auratus*). Hatchery Feed Workshop. March 9-10. Cairns, Qld. Australia.
 - 64) **Qin**, J.G. 1999. Management of water quality in fertilised ponds. Wastewater Treatment and Integrated Aquaculture Workshop. South Australia Research and Development Institute, September 17-19, 1999. Adelaide, SA. Australia.
 - 65) **Qin**, and A.W. Fast. 1999. Food selection and cannibalism in snakehead *Channa striatus*. World Aquaculture Society Conference. Sydney, April 26-May 2.
 - 66) Sierp, M and J.G. **Qin**. 1999. The impact of crayfish density, zooplankton grazing and N:P ratios on trophic dynamics in hardwater ponds. World Aquaculture Society Conference. Sydney, April 26-May 2.
 - 67) Sierp, M. and J.G. **Qin**. 1998. Greenwater management in marron ponds. Australian Freshwater Crayfish Growers Association (SA) Annual General Meeting. Kangarilla, September 13.
 - 68) **Qin**, J.G., L. Pearson, J.F. Carragher. 1998. Measurements of algal abundance and photosynthetic capacity under defined nutrient and grazing conditions. Australian Marine Sciences Association 1998 Conference. Adelaide, July 8-11.
 - 69) **Qin**, J.G. and A.W. Fast. 1998. Larval rearing and weaning techniques in snakehead, *Channa striatus*. World Aquaculture Conference, Las Vegas, February 16-19.
 - 70) Fast, A.W. and J.G. **Qin**, 1996. Growth of triploid Chinese catfish under different feed and temperature regimes. Annual Conference of Tropical and Subtropical Aquaculture. Honolulu, March 16.
 - 71) Fast, A.W. and J.G. **Qin**. 1995. Induction of triploid Chinese catfish with temperature shock and pressure methods. Annual Conference of Tropical and Subtropical Aquaculture, Honolulu. March 25.
 - 72) **Qin**, J. 1994. Trophic dynamics in aquatic ecosystems: Autotrophs, heterotrophs, zooplankton and fish. A public seminar on dissertation research for the degree of doctor of philosophy. January 6. The Ohio State University, Columbus.
 - 73) **Qin**, J., and D. A. Culver. 1993. Plankton responses to fish density and nutrient manipulations in ponds. Annual Meeting of American Society of Limnology and Oceanography, May 30 to June 3. Edmonton, Alberta, Canada.
 - 74) **Qin**, J., and D. A. Culver. 1992. Growth rates and impact of saugeye and walleye on zooplankton under different stocking densities. The 38th Annual Tri-State Fisheries Conference. March 5-6. Huntington, West Virginia, USA.
 - 75) **Qin**, J., D. A. Culver, and S. P. Madon. 1991. The effect of manipulating N:P ratio and fry density on fish production and food web changes in ponds. The 121st Annual Meeting of American Fisheries Society. September 8-12. San Antonio, Texas, USA.
 - 76) Culver, D. A., S. P. Madon, and J. **Qin**. 1991. Percid pond production techniques: Timing, enrichment, and stocking density manipulation. The 121st Annual Meeting of American Fisheries Society. September 8-12. San Antonio, Texas, USA.
 - 77) **Qin**, J, and D. A. Culver. 1990. Response of plankton communities to inorganic and organic fertilizers in larval fish ponds. The 1990 Annual Meeting of American Society of Limnology and Oceanography, June 10-15. Williamsburg, Virginia, USA.

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- 78) Threlkeld, S. T., S. A. Wickham, W. W. Richardson, and J. Qin. 1988. Food web responses to experimental manipulations of omnivorous fish, nutrients, and crustacean zooplankton. The 73rd Annual Meeting of Ecology Society of America. August 14-19. Davis, California, USA.
- 79) Qin, J, and S. T. Threlkeld. 1988. Effects of sediment, dead fish, zooplanktivorous fish and benthivorous fish on plankton community structure in experimental tanks. The 1988 Annual Meeting of American Society of Limnology and Oceanography, June 6-11. Boulder, Colorado, USA.
- 80) Qin, J, and S. T. Threlkeld. 1987. Experimental study of sediment, fish and mixing effects on plankton communities. The 1987 Annual Great Plains Limnology Conference. September 25-26. Ames, Iowa, USA.

2. Special invited talks

- 1) Qin, J. G. 2011. Tips for writing scientific papers. September 30, 2011. East China Normal University. Shanghai. Special series for celebration of the University 60th Anniversary.
- 2) Qin, J.G. 2010. Need and research progress of biofuel from microalgae. Master Classes In Biodiesel. 17th to 19th of February 2010. Flinders University, Adelaide, Australia.
- 3) Qin, J. G. 2008. Research of biofuel from microalgae at Flinders University. March 27, 2008. Bioenergy Australia Workshop. Canberra.
- 4) Qin, J. G. 2002. Look into an air breathing fish: snake head (*Channa striatus*). South Australian Research and Development Institute. September, 6. Adelaide.
- 5) Qin, J. G. 2000. Ecology of pond aquaculture. Department of Marine and Aquaculture. James Cook University. April 8. Hosted by Dr. Peter Appleford.
- 6) Qin, J.G. 2000. Exploration of aquatic resources in Western China. Cold and Arid Regions Experimental and Engineering Research Institute, Chinese Academy of Sciences, Lanzhou, Oct 8. Hosted by Dr. Xinrong Li.
- 7) Qin, J. G. 2000. Aquaculture education in Australia and China. Northwest Sci-Tech University of Agriculture and Forestry, Yangling, Shaanxi, China. Oct 8, 2000. Hosted by Prof Wuxue SUN.
- 8) Qin, J. G. 2000. Effect of fertilisation and fish stocking on plankton community structure and fish growth in ponds. Institute of Hydrobiology, Wuhan, China. Oct 15, 2000. Hosted by Prof. Yibo CUI.
- 9) Qin, J. G. 2000. Feeding biology and aquaculture of an air-breathing fish: *Channa striatus*. Zhanjiang Ocean University, Zhanjiang, China. Oct 19, 2000. Hosted by Prof. Rizhang HU.
- 10) Qin, J. G. 2000. Plankton ecology in ponds. Institute of Oceanology, Qingdao. China. Oct 21, 2000. Hosted by Prof. Rong WANG.
- 11) Qin, J. 1996. Complex fish and plankton interactions at different nutrient levels: A test of density-dependent larval fish growth and survival. March 5. Department of Wildlife and Fisheries, Mississippi State University, Mississippi State, Mississippi.
- 12) Qin, J. 1995. Fish and nutrient impacts on plankton community structure and water quality in pond ecosystems. January 18. Department of Wildlife and Fisheries, Mississippi State University, Mississippi State, Mississippi.
- 13) Qin, J. 1994. Top-down and bottom-up controls in aquatic ecosystems. A public seminar at Hawaii Institute of Marine Biology. July 21. Coconut Island, Kaneohe, Hawaii.
- 14) Qin, J. 1993. Effects of larval fish density and fertilizer type on plankton community structure. December 6. Seminar Series in Aquatic Ecology, Research Center, Ohio State University, Columbus.

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3. POSTDOCTORAL FELLOW AND POSTGRADUATE STUDENT SUPERVISION

Postdoctoral Fellow

- 1) Dr Bennan Chen: Larval fish biology (2008-2011)
- 2) Dr Bob Moore: Algal molecular biology (2008-2009)
- 3) Dr Yan Li: Algal biology (2008-2009)
- 4) Dr Maximiliano Martin Canepa (2010-2011): University of Buenos Aires, Argentina, Growth factor expression yellowtail kingfish (*Seriola lalandi*)
- 5) Dr Liang Song: Algal biology (2011-2012)

PhD students completed as the principal supervisor

- 1) Bennan Chen (2006): Structural and functional development of the digestive system in yellowtail kingfish *Seriola lalandi* larvae
- 2) Yan Li (2008): Spawning mediated responses of Pacific oyster *Crassostrea gigas* to environmental stress: toward an explanation of oyster summer mortality
- 3) Michael Sierp (2009): Viability for the control of water quality by biomanipulation using Murray cod *Maccullochella peelii peelii* in temperate Australia
- 4) Inayah Yasir (2009): Embryonic development of false clownfish *Amphiprion ocellaris* and the effect of light, background colour and carotenoids on the fish colouration
- 5) Nita Ismail (2010): Ecology and life history of a brackish cladoceran, *Daphniopsis australis* (Crustacea: Cladocera).
- 6) Liang Song (2011): Hydrocarbon production from microalgae
- 7) Craig Meakin (2012.2): Experimental assessment of constraints for King George whiting (*Sillaginodes punctata*) recruitment in Gulf St Vincent, South Australia
- 8) Lindsey Woolly (2012): Body Buoyancy and Distribution of Fish Larvae: Exploring the Mechanism of Mass Mortality
- 9) Jenna Bowyer (2012): The culture of yellowtail kingfish (*Seriola lalandi*): nutritional and environmental interactions
- 10) Zhenhua Ma (2012): Improvement of yellowtail kingfish *Seriola lalandi* fingerling production efficiency through food and feeding management
- 11) Flavio Ribeiro (2010.9-): Fish cannibalism and its control in aquaculture

PhD students currently supervised as the principal supervisor

- 1) Yousef Alkhamis (2010.7-): Algal growth under auto-, mixo, and heterotrophic conditions
- 2) Matthew Bansemer (2012.2-): Macroalgal addition in abalone nutrition
- 3) Dinh Minh Quang (2012. 2-): Biology of goby *Parapocryptes serperaster* in Mekong River
- 4) Nadiyah Wan Rasdi (2012. 5-): Copepod biology and nutritional requirement
- 5) Thanh Hai Hoang (2012. 8-): Impact of macroalgae diet on abalone colouration
- 6) Mahbubul Hassan (2013. 2-): Life history of flat oyster *Ostrea angasi*
- 7) Afzal Hossain (2013.2-): Ecology and physiology of forage fish species in saline water
- 8) Maziidah Rahman (2013. 3). Mussel and cockle feeding biology
- 9) Shirin Akter (2015. 1): Oyster aquaculture
- 10) Shaun Henderson (2015. 1): Oyster feeding biology

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Current Honours students

Past Honours students supervised (22)

- 1) Shaun Henderson (2014.2-2014.11). Heavy metal and oyster immune responses
- 2) Scott Forsthe (2013.2-2013,11): Water colour manipulation and fish cannibalism control.
- 3) Deevesh Hemraj (2012. 7): Brackish zooplankton (Co-supervise with Sophie Leterme)
- 4) Alice Barchi (2012): Crayfish nutrition
- 5) Philippa Dean: (2010): Freshwater crayfish nutrition
- 6) Kopano Mosa Machailo (2010): yellowtail kingfish growth response, flesh quality and PUFA content through microalgae formulated aqua-feeds (cosupervised with Wei Zhang)
- 7) Ching-Yao Yang (2010): Heat shock protein in wild and farmed oysters
- 8) Michelle Wilson (2010): Distribution and ecology of wild Pacific oysters
- 9) Geoffrey Collins (2010): Growth factor gene expression in yellowtail kingfish
- 10) Daniel Gruszecki (2009): Towards a bioreactor for the mass cultivation of *Chlorella vulgaris* species (2009, co-supervised with Stephen Clarke).
- 11) Matthew Osborne (2009) Zooplankton ecology and larval fish rearing
- 12) Ben Hill-Ling (2007) Wild oyster distribution in Coffin Bay
- 13) Stewart Alexander (2006) Feeding ecology of barramundi
- 14) Craig Meakin (2005) Zooplankton: their role in the diet of freshwater crayfish (awarded University Medal)
- 15) Robert Skilbeck (2005) *Botryococcus braunii* an alternative fuel
- 16) Pasquale Tripodi (2003) Phosphorus transport by zooplankton migration
- 17) Trent D'Angignana (2001) Prospecting marine microalgae for antimicrobial compounds
- 18) Nick Pontikinas (2001) Development of live zooplankton in outdoor tanks
- 19) Paul Van Ruth (2001) Size dependent competition of marine diatoms for nutrients
- 20) Rata Luckens (2000) Effect of rainbow fish (*Melanotaenia fluviatilis*) on zooplankton and phytoplankton community in experimental tanks
- 21) Troy Hillier (1999) Live food and feeding ecology of larval snapper (*Pagrus auratus*)
- 22) Michael Sierp (1998) Plankton and nutrient dynamics in fertilised hardwater crayfish ponds

II. TEACHING

Teaching at Flinders University

1. New Course development

Double degree of Marine Biology and Aquaculture

2. Course degree coordination

- 1) Coordinator of the Bachelor of Technology in Aquaculture (2004-present)
- 2) Deputy Coordinator of Honours Degree in Biology (2008)
- 3) Coordinator of Honours Degree in Biology (2009-present)

3. Topic coordination

- 1) AQUA1111 Aquaculture System (2003-2005)
- 2) AQUA1101 Aquaculture 1 (2003-2005)
- 3) AQUA1121 Aquaculture Operation and Safety (2003-2005)
- 4) BIOL1201 Introduction to Aquaculture (2006-present)
- 5) AQUA2101 Aquaculture Feed, Nutrition and Growth (1998-2004)
- 6) AQUA2111 Aquaculture Procedure (2003-2005)

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- 7) AQUA2201 Aquaculture Feed and Nutrition (2005-2006)
- 8) AQUA2102 Water Quality for Aquaculture (2003-2005)
- 9) AQUA2131 Aquaculture Practice (2004-present)
- 10) AQUA2141 Microbiology and Introduction to Fish Health (2003-2005)
- 11) AQUA3101 Aquaculture Reproduction and Genetics (1999-2005)
- 12) AQUA3111 Aquaculture Research Project (1999-2008)
- 13) AQUA3121 Fish Health and Hygiene (1999-2005)
- 14) AQUA3241 Aquaculture Business and Law (2003-2006)
- 15) AQUA3141 Aquaculture Management, Marketing, Business and Law (2003-2005)
- 16) AQUA3002 Aquaculture 3: Seed and Health Management (2008-present)
- 17) BIOL7001 Biology Research Project (2009-present)
- 18) BIOL7027 Marine Biology Research Project (2009-present)
- 19) AQUA7001 Aquaculture Research Project (2009-present)
- 20) BIOD7001 Biodiversity Research Project (2009-present)
- 21) ECOT7001 Ecotourism Research Project (2009-present)

4. Topics taught at Flinders University

- 1) AQUA1101 Aquaculture 1 (1998-2005)
- 2) BIOL1201 Introduction to Aquaculture (2006-present)
- 3) AQUA2151 Biological Aspects of Water Quality (1998-2000)
- 4) AQUA2101 Aquaculture Feed, Nutrition and Growth (1998-2004)
- 5) AQUA2201 Aquaculture Feed and Nutrition (2005-2007)
- 6) AQUA2221 Water Quality Management (1998-2006)
- 7) BIOL2251 Plant and Algal Diversity (1997-2007)
- 8) BIOL3918 Aquaculture and Fisheries Sciences (1998-2004)
- 9) BIOL3373 Living Marine Resources ((2005-2007)
- 10) AQUA3101 Aquaculture Reproduction and Genetics (1999-2005)
- 11) BIOL3301 Aquatic Animal Reproduction (2005-2007)
- 12) AQUA3002 Aquaculture 3: Seed and Health Management (2008-present)
- 13) AQUA2002 Aquaculture 2: Technology and Production System (2008-present)
- 14) BIOL2161: Plant and Algal Biology (2008-present)

5. Topics taught prior to Flinders University

- 1988-1994 Teaching Associate, The Ohio State University, USA
- General Biology (lab practical and tutorial)
 - General Zoology (lab practical and tutorial)
 - Limnology (partial lecturing and lab practical)
 - Plankton (partial lecturing and lab practical)
- 1986-1988 Teaching Assistant, The University of Oklahoma, USA
- Reservoir Ecology (lab practical)
- 1982-1986 Teaching Assistant, Dalian Fisheries University, China
- Freshwater Biology (lecturing and lab practical)

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III. Professional Activities

1. Adjunct appointment

- a. Honorary Professor at Dalian Fisheries University (2004-present)
- b. Adjunct Professor at East China Normal University (2009-present)

2. Editorial Services

Co-Chief Editor for *World Journal of Fish and Marine Sciences*: 2009-present
Associate Editor for *Journal of Fisheries and Aquaculture* (2010-present)
Aquaculture (Elsevier Publisher) 2007. 9- present
Aquaculture Research (Blackwell Publisher): 2009- present

3. Journals refereed (38)

- 1) *African Zoology* (IF=0.900)
- 2) *Aquaculture* (IF=2.041)
- 3) *Aquaculture Engineering* (IF=1.421)
- 4) *Aquaculture International* (IF=0.912)
- 5) *Aquaculture Research* (IF=1.203)
- 6) *Aquatic Living Resources*
- 7) *Asian Fisheries Science Journal* (IF=1.203)
- 8) *Biofuels*
- 9) *Biomass Bioenergy* (IF=3.646)
- 10) *Bioresources* (IF=1.328)
- 11) *Bioresources Technology* (IF=4.750)
- 12) *British Biotechnology Journal*
- 13) *Chemosphere*
- 14) *Chinese Journal of Limnology and Oceanography* (IF=0.498)
- 15) *Clean-Soil, Air and Water* (IF=2.177)
- 16) *Comparative Biochemistry and Physiology B* (IF=1.923)
- 17) *Crustacean* (IF=1.116)
- 18) *Ecological Modelling* (IF=2.326)
- 19) *Energies* (IF=1.865)
- 20) *Environmental Biology of Fishes* (IF=0.914)
- 21) *European J Phycology*
- 22) *European Journal of Histochemistry* (IF=1.688)
- 23) *FEMS Microbiology Ecology* (IF=3.308)
- 24) *Fuel* (IF=3.248)
- 25) *International Journal of Physical Sciences*
- 26) *International Journal of Tropical Biology*
- 27) *Journal of Applied Aquaculture*
- 28) *Journal of Applied Phycology* (IF=2.411)
- 29) *Journal of Bioscience and Bioengineering* (IF=1.793)
- 30) *Journal of Crustacean Biology* (IF=1.116)
- 31) *Journal of Fish Biology* (IF=1.685)
- 32) *Journal of Freshwater Ecology*
- 33) *Journal of Marine Biology Association of the United Kingdom* (IF=1.000)
- 34) *Journal of Ocean University of China*

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- 35) *Journal of the World Aquaculture Society* (IF=1.103)
- 36) *Journal of World Aquaculture Society* (IF=0.900)
- 37) *Lipids* (IF=2.129)
- 38) *Microbial Cell Factories* (IF=3.310)
- 39) *Neotropical Ichthyology* (IF=1.140)
- 40) *North American Journal of Aquaculture* (IF=0.708)
- 41) *PLOS One* (IF=4.092)
- 42) *Transaction of American Fisheries Society* (IF=1.592)
- 43) *Turkish Journal of Fisheries and Aquatic Sciences* (IF=0.432)
- 44) *Urban Ecology and Urban Environment*
- 45) *World Journal of Fish and Marine Sciences* (ISI)

2014: Reviewed 39 manuscripts for 12 journals

Aquaculture Nutrition (1), Aquaculture Research (14), Aquaculture (15), Aquatic Living Resources (1), Chemosphere (1), Environmental Biology of Fishes (1), European J Phycology (1), J Applied Phycology (1), J Aquaculture Res (1), J Fish Biology (1), J Freshwater Ecol (1), N Am J Aquaculture (1).

2013: Reviewed 44 manuscripts for 14 journals

Aquaculture Nutrition (4), Aquaculture Research (19), Aquaculture (7), Bioresources Technology (1), Chinese Journal of Limnology and Oceanography (1), International Journal of Physical Sciences (1), Journal of Applied Phycology (4), Journal of Bioscience and Bioengineering (1), Journal of Fish Biology (2), Journal of Ocean University of China (1), Microbial Cell Factories (1), Neotropical Ichthyology (1), PLOS One (1), Turkish Journal of Fisheries and Aquatic Sciences (1).

2012: Reviewed 46 manuscripts for 17 journals

African Zoology (1), Aquaculture Nutrition (5), Aquaculture Research (16), Aquaculture (8), Aquaculture International (1), British Biotechnology Journal (1), Energies (1), Environmental Biology of Fishes (1), Biofuels (1), International Journal of Physical Sciences (1), Journal of Applied Phycology (1), Journal of Fish Biology (1), Journal of Applied Ichthyology (1), Journal of Bioscience and Bioengineering (1), Journal of Ocean University of China (1), Journal of the World Aquaculture Society (3), Lipids (1), City and Environment (1).

2011: Reviewed 36 manuscripts for the following journals:

Aquaculture Research (15), Aquaculture (9), Aquaculture International (2), Biomass and Bioenergy (1), Bioresources Technology (1), Clean Soil, Air and Water (1), Crustacean (1), Journal of Applied Phycology (1), Journal of Marine Biology Association of the United Kingdom (1), Journal of the World Aquaculture Society (1), World Journal of Fish and Marine Sciences (1), City and Environment (1), Asian Fisheries Science Journal (1).

2010: Reviewed 32 manuscripts for the following journals:

Aquaculture Research (12), Aquaculture (10), Journal of Applied Phycology (2), J World Aquaculture Society (2), Emirates Journal Food and Agriculture (1), Journal of Fish Biology (1), Marine & Freshwater Behaviour & Physiology (1), Chinese Journal of Oceanography Limnology (1), Journal of Environmental Sciences (1), and Aquaculture Nutrition (1).

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2009: reviewed 32 manuscript for 11 journals

Aquaculture Research (14), Aquaculture (8), Environmental Biology of Fishes (1), Fuel (1), International Journal of Tropical Biology (1), J Applied Phycology (1), Journal of Crustacean Biology (1), J Fish Biol (1), J. Applied Ichthyology (1), J Ocean University of China (1), J World Aqua Soc (1)

2008: reviewed 16 manuscripts for 6 journals

Reviewed 15 manuscripts for 5 journals: Environmental Biology of Fishes (2), Aquaculture (7), Journal of the World Aquaculture Society (1), Aquaculture Research (4), Comparative Biochemistry and Physiology Part B (1), Chinese Journal of Limnology and Oceanography (1).

2007: reviewed 17 MS for 8 journals

Aquaculture Nutrition (1), Environmental Biology of Fishes (4), FEMS Microbiology Ecology (1), North American Journal of Aquaculture (1), Aquaculture (7), European Journal of Histochemistry (1), Journal of Fish Biology (1) and Journal of the World Aquaculture Society (1)

2006: reviewed 8 MS for 5 journals

Comparative Biochemistry and Physiology (1), Journal of Fish Biology (1) North American Journal of Aquaculture (1) Journal of World Aquaculture Society (2), Aquaculture (3)

2005: reviewed 5 MS for three journals

Aquacultural Engineering (1), Biomass and Bioenergy (2), Aquaculture (2)

4. New book proposals reviewed for publishers

2006: NEW BOOK PROPOSAL for Blackwell Publishing (1)

2008: NEW BOOK PROPOSAL for Blackwell Publishing (1)

5. External Grant proposals reviewed

2005: Australian Research Council (ARC) Discovery Grants (2)

2006: ARC Discovery Grant (1)

2009: ARC Discovery Grant (1); Louisiana Sea Grant, USA(1)

2010: ARC Discovery Projects (4)

2011: ARC Discovery Projects (2)

2012: ARC Discovery Projects (1); Discovery Early Career Researcher Award (1)

European Research Council (1); United State Department of Agriculture (USDA) (1)

2013: ARC Discovery Projects (2), Linkage Projects (2), Future Fellowships (2),

Australian Laureate Fellowships (1); China National Science Foundation (1)

National Council for Research & Technology, Greece (1)

2013: External Expert Panels invited

US Department of Agriculture

China National Science Foundation

2014: ARC Discovery Projects (1), Linkage Projects (1), Linkage Infrastructure, Equipment and Facilities (1), New Zealand Ministry of Business, Innovation & Employment (MBIE) 2014 Science Investment (1)

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International Visiting Scientists Hosted

- 1) A/Prof Shun Zhou (2013): Qingdao Agricultural University
- 2) Prof Yan Wang (2013): Zhejiang University, China: Aquaculture system
- 3) A/Prof Jianhe Xu (2011-2012): Huaihai Institute of Technology, China: Crayfish nutrition
- 4) A/Prof Shengqi Su (2009-2010): West South University, China: aquatic biology and aquaculture
- 5) Mr. Wael Eltohamy (2009-2001): Mansoura University, Egypt. Zooplankton ecology
- 6) Dr. Jennifer Champenois (2008): the ENITA of Bordeaux, France. Algal biology
- 7) Dr. Li Zhou (2008): China Ocean University, Qingdao. Fish nutrition and health management
- 8) Dr. Norsil Daim (2006): University of Technology MARA (UiTM) Perlis Branch, Malaysia. Development of course curriculum in Deep Sea Fisheries.
- 9) Dr. Yonghong Xie (2006): Chinese Academy of Sciences, Changchun. Research area: Nutrient removal from aquaculture effluent by aquatic plants.
- 10) A/ Prof. Xuequn Tan (2002-03): Donggang Fisheries Institute, China. Research area: Karyological analyses on redclaw crayfish
- 11) Dr. Liqiao Chen (2002): East China Normal University, Shanghai, China. Research area: Crustacean biology.
- 12) Dr. Xiangli Tian (2001-02): Chian Ocean University, Qingdao. Fish nutrition
- 13) Dr. Shuanglin Dong (2000): Chian Ocean University, Qingdao. Fish nutrition
- 14) Dr. Francesca Ottolenghi (2000-01): University of Rome, Italy. Aquatic ecology
- 15) Dr. Lorenzo Mittiga (2000-01): University of Rome, Italy. Aquatic ecology.
- 16) Dr. P. Peries (1999): Ecole Nationale Supérieure Agronomique (ENSAR), France