

Areas of expertise

Selective breeding, chromosome set manipulation, spermatozoa and embryo cryopreservation, molluscan physiology, ecology and histology, shellfish aquaculture and project management.

Countries of work experience

Australia, China, Germany and Russia.

Overview of experience and qualifications

Dr Xiaoxu Li received a PhD degree from the Institute of Oceanology, the Chinese Academy of Sciences. He has an extensive knowledge and experience in marine invertebrate genetics and aquaculture which have been developed over 20 years working as a research scientist both in Australia and China. During this period he has managed more than ten projects funded by the national funding organisations (6 by FRDC) and numerous industry and state funded projects. He has published more 40 papers including book chapters, journals and reports.

His research has primarily focused on aquaculture genetics and shellfish aquaculture. This includes chromosome set manipulation, selective breeding, sperm and embryo cryopreservation, gender manipulation and bivalves aquaculture.

Dr Li has eight years experience as an acting department director in a leading institute of marine sciences in China and has supervised 17 postgraduate students.

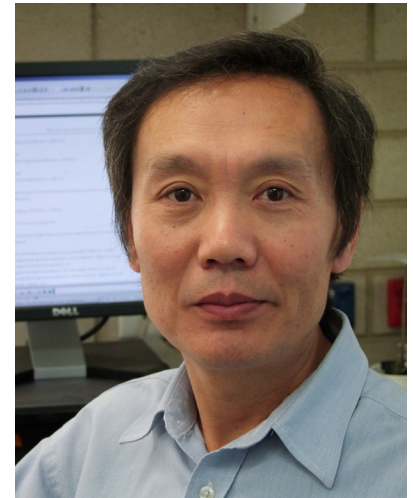
Professional appointments:

1998 – present: Subprogram Leader, Genetics, Reproduction and Biotechnology, SARDI.
2000 – present: Professor, affiliated with the Key Laboratory of Mariculture Ecology, Dalian Fisheries University (China).
1995 – 1997: Post-doctoral Research Fellow, School of Biological Sciences, Flinders University of South Australia.
1992 – 1994: Visiting Scholar, School of Biological Sciences, Flinders University of South Australia.
1988 – 1995: Acting Director, Department of Marine Invertebrate Zoology of the Institute of Oceanology (Qingdao), Chinese Academy of Sciences.
1994 – 1995: Research Professor, Institute of Oceanology (Qingdao), Chinese Academy of Sciences.
1992 – 1994: Associate Research Professor, Institute of Oceanology (Qingdao), Chinese Academy of Sciences.
1991 – 1998: Standing Board Member and Vice Secretary, Chinese Society of Malacology.
1991 – 1998: Editorial Board Member, Transactions of the Chinese Society of Malacology (Chinese).
1989 – 1998: Editorial Board Member, Marine Sciences (Chinese).
1989: Visiting Scientist, Institute of Marine Biology, USSR Academy of Sciences.
1987 – 1992: Research Fellow, Institute of Oceanology (Qingdao), Chinese Academy of Sciences.
1985 – 1987: Research Assistant, Institute of Oceanology

(Qingdao), Chinese Academy of Sciences.

Research and consulting

2000 – present: Development of a selective breeding program for Australian farmed abalone species to improve the commercially important traits.
1986 – present: Studies on bivalve chromosome set manipulation and cell divisions.
1988 – present: Development of technologies on molluscan sperm and embryo cryopreservation.
1994 – present: Establishment of an oyster breeding program by development and application of double haploid techniques.
1985 – present: Studies on oyster developmental biology, histology, classification, ecology, genetics, physiology and aquaculture.
1987 – present: Studies on reproductive biology of other commercially important molluscan species and their farming technologies.
2002 – present: Studies on molluscan immunology.



Selected Publications

Li X, 2008. Selective breeding of farmed abalone to enhance growth rates II. Fisheries Research and Development Corporation final report. pp 102.
Li Y, Li X, Qin J, 2007. Triploidy induction in Australian greenlip abalone *Haliotis laevis* (Donovan) with cytochalasin B. Aquaculture Research 38: 487-492.
Liu B, Li X, 2008. Preliminary studies on cryopreservation of Sydney rock oyster (*Saccostrea glomerata*) embryos and larvae. Journal of Shellfish Research (in print).
Zhang Z, Li X, 2006. Evaluation of the effects of grading and starvation on the lysosomal membrane stability in Pacific oysters, *Crassostrea gigas* (Thunberg) by using neutral red retention assay. Aquaculture 256: 537-541.

Contact

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