

XIMING GUO

Haskin Shellfish Research Laboratory
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EDUCATION

Ph.D. 1991 University of Washington, Seattle.
M.S. 1987 University of Washington, Seattle.
B.S. 1983 Ocean University of China, Qingdao.

RESEARCH INTEREST

Molluscan genetics, genomics, aquaculture and breeding

POSITIONS HELD

2019 - Distinguished Professor, DMCS, Rutgers University
1998 - Director, Shellfish Genetics and Breeding Program, Rutgers University
2007 - 19 Professor, Haskin Shellfish Research Lab, DMCS, Rutgers University
2001 - 07 Associate Professor, Haskin Shellfish Research Lab, IMCS, Rutgers University
1998 - 01 Assistant Professor, Haskin Shellfish Research Lab, IMCS, Rutgers University
1996 - 00 Visiting Professor, Institute of Oceanology, Chinese Academy of Sciences
1995 - 97 Research Assistant Professor, HSRL, IMCS, Rutgers University
1992 - 94 Postdoctoral Research Associate, HSRL, IMCS, Rutgers University
1991 - 91 Postdoctoral Research Associate, Biological Sciences, SUNY Brockport
1985 - 91 Graduate Assistant and Pre-doctoral Associate, University of Washington

PROFESSIONAL ACTIVITY

Adjunct Professor, Dalian Fisheries University (1998 - 2008)
Adjunct Professor, Hainan University (2003 - 2013)
Adjunct Professor, Institute of Oceanology Chinese Academy of Sciences (2001 - 2018)
Adjunct Professor at Horn Point Laboratory, University of Maryland (2004 - 2008)
Adjunct Professor at Virginia Institute of Marine Science, College of William and Mary (1999 - 2008)
Associate Editor, *Journal of World Aquaculture Society* (2004 -)
Chair, USDA Western Research Coordinating Committee (WCC-99) (2000)
Chief Scientist, Mid-Atlantic Shellfish Genetics and Breeding Technology Consortium (1998 - 2008)
Council Member, Chinese Society of Malacology (2003 -)
Co-Chair, International Oyster Forum, Rushan, China (2018)
Co-Project Director, the Oyster Genome Project (2008 - 2012)
Editorial Board, *Aquaculture* Elsevier (2005-2012)
Editorial Board, *Aquaculture Research* Blackwell (2001-)

Editorial Board, *Acta Oceanologia Sinica* (2004-)
 Editorial Board, *Journal of Shellfish Research* (2011-)
 Editorial Board, *Marine Biotechnology* Springer (2005-)
 Editorial Board, *Oceanologia et Limnologia Sinica* (2001-)
 Editorial Board, *Marine Life Science and Technology* (2019-)
 Guest professor at Zhejiang Institute of Mariculture, PRC (1999-08)
 Honorary Director, Hainan University Key Laboratory of Tropical Marine Biotechnology (2003 - 2013)
 Honorary Professor, Guangdong Ocean University (2017 - 2019)
 Member, “1-3-5” Review and Assessment of Institute of Oceanology, Chinese Academy of Sci (2014)
 Member, Academic Committee, Key Laboratory of Marine Genetics and Breeding, Ocean University of China (2009-)
 Member, International Assessment Committee, Fisheries Program, Ocean University of China (2018)
 Member, American Association for the Advancement of Science (1992 -)
 Member, Eastern Oyster Breeding Consortium (2008 -)
 Member, International Scientific Advisory Board, Institute of Oceanology, Chinese Academy of Sci (2015-)
 Member, National Shellfisheries Association (1988 -)
 Member, Oyster Industry Advisory Committee, Rushan, China (2018 - 2020)
 Member, Steering Committee, Oyster Genomics Consortium (2004 - 2012)
 Member, USDA Western Research Coordinating Committee (WCC-99) (1994 - 12)
 Member, USDA Regional Project on Genetic Maps of Aquaculture Species (NE-168) (1996-03)
 Member, USDA National Animal Genome Research Program (NRSP-8) (2004 -)
 Member, USDA Multistate Coordinating Committee NECC-1901 (2020-)
 Member, World Aquaculture Society (2005 -)
 Oversea Professor in Marine Functional Genomics, Chinese Academy of Sciences (2005 - 2009)
 Oversea Referee, State Natural Science Award of China (2006)
 Panelist, National Sea Grant/Gulf Oyster Industry Program (1999)
 Panelist, National Science Foundation SBIR in Food and Aquaculture Technology (2006)
 Panelist, National Science Foundation of China/Earth Science Division (2001)
 Panelist, National Science Foundation of China/Life Science Division (2004)
 Panelist, National Science Foundation of China/Life Science Division (2005)
 Panelist, USDA/National Research Initiative Grant Program in Animal Genetics (1997-98)
 Panelist, USDA/National Research Initiative Grant Program in Animal Genomics (2005)
 Panelist, USDA NIFA Aquaculture Research Program (2018)
 Secretary, USDA Western Research Coordinating Committee (WCC-99) (1999)
 Session Chair, Genetics session at the Fourth Asian Fishery Forum (1995)
 Session Chair, Genomics session at World Aquaculture Society meeting (2002)
 Session Chair, Molluscan Genetics and Molecular Biology, NSA annual meeting (2002)
 Session Chair, Molluscan Systematics, Evolution and Population Genetics, Intl. Congr. Zool. (2004)
 Session Chair, Molluscan Genetics and Breeding, Intl. Conf. Marine Science, IOCAS (2006)
 Session Chair, Molluscan Genetics and Evolution, IX Intl. Conf. Appl. Med. Malacol., (2006)
 Session Chair, Aquaculture in China, World Aquaculture 07 (2007)

Session Chair, Biochemistry and Genetics, 18th International Pectinid Workshop (2011)
 Session Chair, Shellfish Genetics and Breeding, 104th NSA Annual Meeting (2012)
 Session Co-Chair, Shellfish Genetics, 109th NSA Annual Meeting (2017)
 Workshop co-Chair, Marine and Aquaculture Genomics, Shenzhen, China (2010)

AWARDS AND HONORS

2021 Honored Life Member Award, National Shellfisheries Association, USA.
 2019 Outstanding Scientist, Foundation for Conservation of Biodiversity (FUCOBI) of Ecuador
 2017 Second Prize for Joint Oyster Genome Research, Shandong Natural Science Award
 2013 “Inventor of the Year” Award, NJ Inventors Hall of Fame
 2012 “Taishan Overseas Scholar”, Shandong, China
 2011 Chair of Excellence, University of Caen, France
 2006 Paper featured on the cover of *Marine Biotechnology* 8(2).
 2004 *Marine Biotechnology* 2004 Best Paper Award, Springer.
 2001 Board of Trustee Fellowship for Scholarly Excellence, Rutgers University.
 2001 First Prize in Scientific Advancement, Chinese Academy of Sciences
 1999 Award from Rutgers University in recognition of patented research.
 1997 Research featured on the cover of *Genome*, Vol. 4(3).
 1997 National Outstanding Young Scientist Award of China.
 1996 “100 Talent” award at IOCAS, Chinese Academy of Sciences.
 1994 Research profile by *Aquaculture Magazine*, 20(6):69-74.
 1994 Research featured on the cover of *Mol. Mar. Biol. Biotechnol.*, Vol. 3(1).
 1988 Donaldson Memorial Scholarship, University of Washington.
 1987 Deans Honor Student, University of Washington.
 1986 Deans Honor Student, University of Washington.
 1986 Donaldson Memorial Scholarship, University of Washington.
 1985 National Scholarship for Overseas Studies, China.

PATENTS

Guo, X. Molluscan Shellfish Produced by Controlled Crossbreeding. US Patent 11,266,131 B2, March 8, 2022.
Guo, X. and S.K. Allen, Jr. Methods of Producing Tetraploid and Triploid Molluscs. China Patent No. 95192167.3, August 31, 2001.
Guo, X. and S.K. Allen, Jr. Tetraploid Shellfish. US Patent No: 5,824,841, October 20, 1998.
Guo, X. and S.K. Allen, Jr. Tetraploid Shellfish. Australia Patent No: 701609, May 20, 1999.
Guo, X. and S.K. Allen, Jr. Tetraploid Bivalve. EU Patent No. 0752814, April 25, 2001.
Guo, X. and S.K. Allen, Jr. Tetraploid Shellfish. R.O.C. Patent No. 75451, 1996.
Guo, X. and S.K. Allen, Jr. Tetraploid Shellfish. South Africa Patent No. 95/0431, 1996.

GRANTS (AS LEAD PI UNLESS NOTED)

2022-23 Reefense: A Mosaic Oyster Habitat (MOH) for coastal defense (Phase 1). Defense Advanced Research Projects Agency, \$4,551,125. (co-PI with Bushek et al.)
 2019-24 From sequence to consequence: genomic selection to expand and improve selective breeding for the Eastern oyster. Atlantic States Marine Fisheries Commission, \$4,363,092. (PIs: Guo, Allen, Proestou, et al.)

- 2019-24 East Coast Hard Clam Selective Breeding Collaborative. Stony Brook University, \$222,517.
- 2019-22 Comparing the performance of diploid and triploid eastern oysters in the Northeast. Stony Brook University, \$25,102.
- 2018-22 Guo - Enhancing Bivalve Aquaculture Through Species Improvement and Diversification. NOAA Sea Grant NOAA National Aquaculture Initiative, \$592,390.
- 2018-20 Superior eastern oyster stocks for enhancing coastal aquaculture. NOAA NMFS Saltonstall-Kennedy, \$281,080.
- 2016-18 Validation of markers and marker-assisted selection of hard clam for resistance to QPX disease. USDA NIFA Aquaculture Program, \$326,963. Co-PI with Allam.
- 2015-18 Genetic improvement of tetraploids and triploids for eastern oyster aquaculture. USDA NIFA Aquaculture Program, \$309,151.
- 2014-16 Advancing eastern oyster aquaculture through marker-assisted selection. NOAA NJ Sea Grant, \$140,319.
- 2012-15 Development of a theoretical basis for modeling disease processes in marine invertebrates. NSF/EID, \$1,280,133, co-PI with Powell.
- 2012-13 New technology for breeding superior tetraploid and triploid eastern oysters. USDA/SBIR, \$97,656, co-PI with Rossi.
- 2013-17 Genetic marker-assisted selection of Northeastern hard clams for QPX resistance. \$199,998. USDA/NRAC, co-PI with Allam.
- 2012-13 Improving shellfish survival through genetic improvement in disease resistance. USDA/ARS via URI, \$32,947.
- 2011-12 Identification of genes associated with resistance to epizootic disease in a marine invertebrate. NSF/DEB, \$51,285.
- 2009-24 Tetraploid technology for scallop aquaculture. Atlantic Cape Fisheries, Inc., \$694,394.
- 2009-12 Selection for enhanced disease resistance and growth performance in cross-bred eastern oysters, *Crassostrea virginica*. USDA NRAC via University of Maine, \$47,507.
- 2009-12 GIGASNP: Genetic and physical mapping of the Pacific oyster genome in support of an international sequencing initiative. USDA/NRI, Animal Genomics Tools, \$711,884, Co-PI with Hedgecock and Gaffney.
- 2008-12 Species diversity, distribution and phylogenetics of oysters in China. NSFC key project, \$277,000, co-PI with Zhang at IOCAS.
- 2008-11 Creation of a tetraploid broodstock for the bay scallop *Argopecten irradians*. USDA NRAC, \$128,197. Co-PI with Karney.
- 2008-11 Marker-assisted breeding technology for the eastern oyster. New Jersey Sea Grant, \$207,486.
- 2007-11 Validation of disease-resistance markers for marker-assisted selection in the eastern oyster. NOAA ODRP, \$282,115
- 2007-09 Development of JOD-resistant lines and markers for eastern oyster aquaculture. USDA NRAC via University of Rhode Island, \$115,603.
- 2007-07 An automated genetic analyzer for shellfish genetics and breeding. Rutgers University SEBS and NJAES Competitive Intramural Awards Program, Research Infrastructure Awards 2007, \$65,000.
- 2006-09 Collaborative research: field and modeling studies in support of understanding disease resistance in estuarine populations and response to climate change. NSF,

- \$1,180,514, co-PI with Haidvogel, Bushek, Powell.
- 2006-08 Cross-breeding and field trials of disease-resistant eastern oysters. USDA NRAC via University of Maine, \$30,655.
- 2006-08 Evaluation and genetic analysis of hard clam, *Mercenaria mercenaria*, stocks for QPX-resistance. USDA/NRAC, \$71,173, co-PI with Kraeuter et al.
- 2005-07 Mapping dermo-resistance genes for marker-assisted selection in the eastern oyster. NOAA Sea Grant ODRP, \$243,266.
- 2005-07 Enhance growth and disease-resistance of the eastern oyster by interstrain hybridization and triploidy. NOAA Sea Grant ODRP, \$263,185, co-PI with Wang.
- 2005-07 Analysis of molecular indicators of oyster's response to Dermo infection using microarray technology. National Sea Grant GOIP through Auburn University, \$120,051.
- 2004-07 Genetic and ecological structures of oyster estuaries in China and factors affecting success of *Crassostrea ariakensis*: clues from a reclassification. NOAA/NMFS CBO, \$492,610.
- 2004-08 Production of tetraploid eastern oyster lines. 4Cs Breeding Technologies, Inc., \$75,000.
- 2004-06 Fertilization interference between *Crassostrea ariakensis* and *Crassostrea virginica*. NOAA/NMFS CBO, \$93,897, Co-PI with Bushek.
- 2004-06 A histological investigation of oyster parasites and pathology in three Chinese estuaries containing varying mixtures of coexisting oyster species, including *Crassostrea ariakensis*. NOAA/NMFS CBO, \$52,865, Co-PI with Bushek and Ford.
- 2003-05 Production and evaluation of all-triploid and disease-resistant eastern oysters for aquaculture. NOAA Sea Grant ODRP, \$306,186.
- 2003-05 Identification and mapping of oyster genes involved in host-defense against Dermo and MSX. NOAA Sea Grant ODRP, co-PI with Yu, \$285,372.
- 2003-05 Beyond CROSBreed I: line expansion and dissemination of stocks with joint resistance to Dermo and MSX diseases in the eastern oyster, *Crassostrea virginica*. VIMS, \$81,300, Co-PI with DeBrosse.
- 2001-03 Breeding, evaluation and molecular analysis of oyster strains selected for resistance to MSX, Dermo and JOD. National Sea Grant Oyster Disease Research Program, \$255,231.
- 2001-03 Cooperative regional oyster selective breeding project III. National Sea Grant Oyster Disease Program, \$75,130.
- 2000-05 A cytogenetic program for shellfish breeding biotechnology. New Jersey Commission on Science and Technology, R&D Excellence Program, \$812,418.
- 2000-02 The triploid-tetraploid technology for hard clam aquaculture. New Jersey Sea Grant, \$115,117.
- 1999-01 The triploid-tetraploid technology for eastern oyster aquaculture. National Sea Grant Technology Program, \$112,099.
- 1999-02 Breeding and evaluation of oyster strains selected for resistance to MSX, Dermo and JOD. National Sea Grant Oyster Disease Program, \$160,634.
- 1999-01 Cooperative Regional Oyster Selective Breeding Project. National Sea Grant Oyster Disease Program, \$78,533 (Rutgers part).
- 1999-01 Studies on the Scallop Mortality in China. NOAA US-China Marine Living Resource program and Chinese Academy of Science. Co-PI with S.E. Ford, \$11,000.

- 1998-01 Molecular characterization of American oyster chromosomes by fluorescence in situ hybridization. National Sea Grant Biotechnology Program, \$191,720.
- 1998-99 Induction of Tetraploid Scallops. 4Cs Breeding Technologies Inc., \$26,888.
- 1998-02 Marine molluscan genetics and biotechnology. China's Natural Science Foundation, grant at IOCAS, \$97,000.
- 1998-00 Studies on new tetraploid technologies for molluscs. China's Commission on Science and Technology, grant at IOCAS, \$96,700.
- 1997-00 Aquaculture genetics and biotechnology program at IOCAS. Chinese Academy of Science, grant at IOCAS, \$170,000.
- 1997-97 Studies on the Chinese molluscan aquaculture industry: a review. US-China Marine Living Resource program, NOAA and Chinese Academy of Science, \$8,000.
- 1996-00 The production of characterization of trisomic oyster lines for aquaculture. USDA/NRICGP/CSREES, \$145,873.
- 1995-96 Gene transfer in oysters through allotetraploids, hyperallotripleids and hypoallotetraploids. Sea Grant/ODRP, \$71,564.
- 1995-98 Cooperative regional oyster selective breeding (CROSBreed) project. Sea Grant/ODRP, co-PI with Allen et al., \$377,506.
- 1995-97 Triploids for biological containment: the risk of heteroploid mosaics. USDA Biotech Risk Assessment, co-PI with Allen, \$185,000.
- 1994-95 Gene transfer through interspecific partial gynogenesis and its potential use in the transfer of disease resistance to the American oyster. NOAA/NMFS ODR, \$83,311.
- 1994-96 New opportunities for ploidy manipulation in shellfish using tetraploids. NOAA/Sea Grant Biotech Program, co-PI with Allen, \$150,000.
- 1992-94 Uniparental inheritance and inbreeding in bivalves: aquacultural implications. USDA, co-PI with Allen, \$168,294.
- 1991-91 Production of inbred lines in the Pacific oyster, *Crassostrea gigas*: the gynogenetic approach. Taylor United, Inc., Washington, \$3,421.
- 1989-90 Biotechnical approach to improve the production and growth of triploidy in the Pacific oyster. NOAA/Sea Grant, with Chew and Hershberger, \$170,500.

PUBLICATIONS:

- Guo, X.**, J.B. Puritz, Z. Wang, D. Proestou, S. Allen Jr., J. Small, K. Verbyla, H. Zhao, J. Haggard, N. Chriss, D. Zeng, K. Lundgren, B. Allam, D. Bushek, M. Gomez-Chiarri, M. Hare, C. Hollenbeck, J. La Peyre, M. Liu, K. E. Lotterhos, L. Plough, P. Rawson, S. Rikard, E. Saillant, R. Varney, G. Wikfors, and A. Wilbur. 2023. Development and evaluation of high-density SNP arrays for the eastern oyster *Crassostrea virginica*. *Marine Biotechnology*, 25:174-191. <https://doi.org/10.1007/s10126-022-10191-3>
- Li, Y., K. M. Slavik, H. C. Toyoda, B. R. Morehouse, C. C. de Oliveira Mann, A. Elek, S. Levy, Z. Wang, K. S. Mears, J. Liu, D. Kashin, **X. Guo**, T. Mass, A. Seb e-Pedr s, F. Schwede & P. J. Kranzusch. 2023. cGLRs are a diverse family of pattern recognition receptors in innate immunity. *Cell* 186:3261-3276.e3220. <https://doi.org/10.1016/j.cell.2023.05.038>
- Li, A., M. Zhao, Z. Zhang, C. Wang, K. Zhang, X. Zhang, P. R. De Wit, W. Wang, J. Gao, **X. Guo**, G. Zhang & L. Li. 2023. Genome architecture and selective signals compensatorily shape plastic response to a new environment. *The Innovation* 4:100464. <https://doi.org/10.1016/j.xinn.2023.100464>

- McDonald, P., S. Ratcliff & **X. Guo**. 2023. Fitness of wild and selected eastern oyster (*Crassostrea virginica*) larvae under different conditions. *Journal of Shellfish Research*, 42:15-20. <https://doi.org/10.2983/035.042.0102>
- Boutet, I., H. J. Alves Monteiro, L. Baudry, T. Takeuchi, E. Bonnivard, B. Billoud, S. Farhat, R. Gonzales-Haraya, B. Salaun, A. C. Andersen, J.-Y. Toullec, F. H. Lallier, J.-F. Flot, N. Guiglielmoni, **X. Guo**, C. Li, B. Allam, E. Pales-Espinoza, J. Hemmer-Hansen, P. Moreau, M. Marbouty, R. Koszul & A. Tanguy. 2022. Chromosomal assembly of the flat oyster (*Ostrea edulis* L.) genome as a new genetic resource for aquaculture. *Evolutionary Applications*, <https://doi.org/10.1111/eva.13462>
- Li, C., H. Wang and **X. Guo**. 2022. Regulation of the cell cycle, apoptosis, and proline accumulation plays an important role in the stress response of the Eastern oyster *Crassostrea virginica*. *Frontiers in Marine Science*, 9:921877. <https://doi.org/10.3389/fmars.2022.921877>
- Zeng, D., **Guo, X.** 2022. Mantle transcriptome provides insights into biomineralization and growth regulation in the eastern oyster (*Crassostrea virginica*). *Marine Biotechnology*, 24:82-96. <https://doi.org/10.1007/s10126-021-10088-7>
- Yao, S., L. Li, X. Guan, Y. He, A. Jouaux, F. Xu, **X. Guo**, G. Zhang & L. Zhang. 2022. Pooled resequencing of larvae and adults reveals genomic variations associated with Ostreid herpesvirus 1 resistance in the Pacific oyster *Crassostrea gigas*. *Frontiers in Immunology*, 13:928628. <https://doi.org/10.3389/fimmu.2022.928628>
- Guo, X.** 2021. Genetics in shellfish culture. In S. Shumway (ed.), *Molluscan Shellfish Aquaculture: A Practical Guide*, 5m Books Ltd, Essex, UK, pp. 393-413.
- Chan, J., L. Wang, L. Li, K. Mu, D. Bushek, Y. Xu, **X. Guo**, G. Zhang and L. Zhang. 2021. Transcriptomic response to *Perkinsus marinus* in two *Crassostrea* oysters reveals evolutionary dynamics of host-parasite interactions. *Frontiers in Genetics*, 12: 795706. <https://doi.org/10.3389/fgene.2021.795706>
- Li, A., H. Dai, **X. Guo**, Z. Zhang, K. Zhang, C. Wang, X. Wang, W. Wang, H. Chen, X. Li, H. Zheng, L. Li & G. Zhang. 2021. Genome of the estuarine oyster provides insights into climate impact and adaptive plasticity. *Communications Biology*, 4:1287. <https://doi.org/10.1038/s42003-021-02823-6>
- Li, A., L. Li, Z. Zhang, S. Li, W. Wang, **X. Guo** & G. Zhang. 2021. Noncoding Variation and Transcriptional Plasticity Promote Thermal Adaptation in Oysters by Altering Energy Metabolism. *Molecular Biology and Evolution*, 38:5144-5155. <https://doi.org/10.1093/molbev/msab241>
- Cui, Z., L. Hu, C. Li, Z. Zhang, **X. Guo**, H. Wang. 2021. Identification of *Saccostrea mordax* and a new species *Saccostrea mordoides* sp. nov. (Bivalvia: Ostreidae) from China. *J. of Shellfish Research*, 40(1):63-75. <https://doi.org/10.2983/035.040.0107>
- Modak, T.H., R. Litterman, J.B. Puritz, K.M. Johnson, E.M. Roberts, D. Proestou, **X. Guo**, M. Gomez-Chiarri & R.S. Schwartz. 2021. Extensive genome-wide duplications in the eastern oyster (*Crassostrea virginica*). *Philosophical Transactions of the Royal Society B: Biological Sciences*, 376:20200164. <https://doi.org/10.1098/rstb.2020.0164>
- Peñaloza, C., A. P. Gutierrez, L. Eöry, S. Wang, **X. Guo**, A. L. Archibald, T. P. Bean & R. D. Houston. 2021. A chromosome-level genome assembly for the Pacific oyster *Crassostrea gigas*. *GigaScience*, 10(3):giab020. <https://doi.org/10.1093/gigascience/giab020>
- Song, H., **X. Guo**, L. Sun, Q. Wang, F. Han, H. Wang, G. A. Wray, P. Davidson, Q. Wang, Z. Hu, C. Zhou, Z. Yu, M. Yang, J. Feng, P. Shi, Y. Zhou, L. Zhang & T. Zhang. 2021. The hard clam genome reveals massive expansion and diversification of inhibitors of apoptosis in Bivalvia. *BMC Biology*, 19:15. <https://doi.org/10.1186/s12915-020-00943-9>

- Acquafredda, M. P., **X. Guo** & D. Munroe. 2021. Exploring the feasibility of selectively breeding farmed Atlantic surfclams *Spisula solidissima* for greater heat tolerance. *North American Journal of Aquaculture*, 83(1):3-14. <https://doi.org/10.1002/naaq.10168>
- Farhat, S., A. Tanguy, E. Pales Espinosa, **X. Guo**, I. Boutet, R. Smolowitz, D. Murphy, G. J. Rivara & B. Allam. 2020. Identification of variants associated with hard clam, *Mercenaria mercenaria*, resistance to Quahog Parasite Unknown disease. *Genomics*, 112:4887-4896. <https://doi.org/10.1016/j.ygeno.2020.08.036>
- Liu, J., Q. Zeng, H. Wang, M. Teng, **X. Guo**, Z. Bao and S. Wang. 2020. The complete mitochondrial genome and phylogenetic analysis of the dwarf surf clam *Mulinia lateralis*. *Mitochondrial DNA Part B*, 5(1):140-141. <https://doi.org/10.1080/23802359.2019.1698352>
- Jiao, Y., Y. Cao, Z. Zheng, M. Liu & **X. Guo**. 2019. Massive expansion and diversity of nicotinic acetylcholine receptors in lophotrochozoans. *BMC Genomics*, 20:937. <https://doi.org/10.1186/s12864-019-6278-9>
- Turley, B., K. Reece, J. Shen, J.-H. Lee, **X. Guo** and J. McDowell. 2019. Multiple drivers of interannual oyster settlement and recruitment in the lower Chesapeake Bay. *Conservation Genetics*, 20:1057–1071. <https://doi.org/10.1007/s10592-019-01194-0>
- Hu, L., H. Wang, Z. Zhang, C. Li and **X. Guo**. 2019. Classification of small flat oysters of *Ostrea stentina* species complex and a new species *Ostrea neostentina* sp. nov. (Bivalvia: Ostreidae). *Journal of Shellfish Research*, 38(2):295-308. <https://doi.org/10.2983/035.038.0210>
- Yang, H., **X. Guo**, and J. Scarpa. 2019. Tetraploid induction and establishment of breeding stocks for all-triploid seed production. *EDIS* 2019 (3). <https://journals.flvc.org/edis/article/view/107185>
- Lafont, M., P. Goncalves, **X. Guo**, C. Montagnani, D. Raftos & T. Green. 2019. Transgenerational plasticity and antiviral immunity in the Pacific oyster (*Crassostrea gigas*) against Ostreid herpesvirus 1 (OsHV-1). *Developmental & Comparative Immunology*, 91:17-25. <https://doi.org/10.1016/j.dci.2018.09.022>
- Bayne, B., M. Anglès d'Auriac, T. Backeljau, P. Beninger, P. Boudry, R. Carnegie, J. Davis, **X. Guo**, D. Hedgecock, M. Krause, C. Langdon, S. Lapègue, D. Manahan, R. Mann, E. Powell & S. Shumway. 2019. A scientific name for Pacific oysters. *Aquaculture*, 499:373. <https://doi.org/10.1016/j.aquaculture.2018.08.048>
- Guo, X.**, C. Li and H. Wang. 2018. Diversity and evolution of living oysters. *J. Shellfish Res.*, 37(4):755-771. <https://doi.org/10.2983/035.037.0407>
- Li, L., A. Li, K. Song, J. Meng, **X. Guo**, S. Li, C. Li, P. D. Wit, H. Que, F. Wu, W. Wang, H. Qi, F. Xu, R. Cong, B. Huang, Y. Li, T. Wang, X. Tang, S. Liu, B. Li, R. Shi, Y. Liu, C. Bu, C. Zhang, W. He, S. Zhao, H. Li, S. Zhang, L. Zhang and G. Zhang. 2018. Divergence and plasticity shape adaptive potential in the Pacific oyster. *Nature Ecology & Evolution*, 2:1751-1760. <https://doi.org/10.1038/s41559-018-0668-2>
- Thongda, W., H. Zhao, D. Zhang, L. N. Jescovitch, M. Liu, **X. Guo**, M. Schrandt, S. P. Powers, and E. Peatman. 2018. Development of SNP panels as a new tool to assess the genetic diversity, population structure, and parentage analysis of the eastern oyster (*Crassostrea virginica*). *Marine Biotechnology*, 20:385-395. <https://doi.org/10.1007/s10126-018-9803-y>
- Yang, H. and **X. Guo**. 2018. Triploid hard clams *Mercenaria mercenaria* produced by inhibiting polar body I or polar body II. *Aquaculture Research*, 49(1):449-461. <https://doi.org/10.1111/are.13476>

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PEER-REVIEWED PUBLICATIONS IN CHINESE:

- Zhang, N., W. Huang, F. Xu, L. Li, G. Zhang and X. Guo. 2015. Expression of two Dmrt family genes in the Pacific oyster *Crassostrea gigas*. *Oceanologia et Limnologia Sinica*, 46(3):717-72.
- Li, C., H. WANG, C. Liu, Y. Li and X. Guo. 2013. Classification and distribution of oysters off coastal Guangxi, China. *Oceanologia et Limnologia Sinica*, 44(5):1318-1324.

- Kong, J., Z. Wang, J. Liu, R. Liu, Y. Zhang, X. Li, Y. Li and X. Guo. 2011. Heterosis and triploid advantage between Chinese and American populations of Pacific oyster (*Crassostrea gigas*). *Journal of Fisheries of China*, 35(5):675-681.
- Kong, J., Z. P. Wang, R. H. Yu, Y. H. Zhang, J. Liu, X. Y. Li, Y. L. Li, and X. M. Guo. 2011. Growth comparison of induced and mated triploid Pacific oysters. *Periodical of Ocean University of China*, 41(7/8):67-71.
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- Wang, H., **X. Guo**, X. Liu, G. Zhang, S. Zhang and F. Xu. 2007. Classification and taxonomic revision of jinjiang oysters of China. *Marine Science*, 31(9): 85-86.
- Sun, B., X. Liu, G. Zhang, H. Zheng and **X. Guo**. 2006. Molecular verification of fertilization between bay scallop individuals. *J. Fish. China*, 30(5):713-719. (In Chinese with English Abstract)
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- Liu, X., X. Peng, G. Zhang, M. Zhao and **X. Guo**. 2005. Mortality and growth of cobalt-60 gamma-irradiated adult Pacific oyster, *Crassostrea gigas*. *Journal of Fisheries of China*, 29(3):424-428. (In Chinese with English Abstract)
- Xiao, J., X. Liu, G. Zhang and **X. Guo**. 2004. Studies on segregation of RAPD markers in a F1 hybrid family and parents of *Haliotis discus hannai* Ino. *ACTA Oceanologia Sinica*, 26(6):124-132. (In Chinese with English Abstract)
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- Li, L. and **X. Guo**. 2003. Preliminary linkage mapping in the Pacific oyster using RAPD and AFLP markers. *Oceanologia et Limnologia Sinica*, 34(5):541-551. (In Chinese with English Abstract)
- Que, H. G. Zhang, X. Liu, **X. Guo** and F. Zhang. 2003. All-triploids production by crossing male tetraploids with female diploids in Pacific oyster, *Crassostrea gigas* Thunberg. *Oceanologia et Limnologia Sinica*, 34(6):656-662. (In Chinese with English Abstract)
- Zhang, G., S Liu, X. Liu, **X. Guo** and F. Zhang. 2003. Self-fertilization family establishment and its depression in bay scallop *Argopecten irradians*. *J. Fish. Sci. China*, 10(6): 441-445. (In Chinese with English Abstract)
- Sun, B., L. Xiao, G. Zhang, H. Zhao and **X. Guo**. 2003. RAPD analysis of three size classes of abalone from a cultured population. *Marine Science*, 27(5):27-30. (In Chinese with English Abstract)
- Xiao, J., S. E. Ford and **X. Guo**. 2003. Preliminary studies on a parasitic ciliate *Trichodina* sp. of *Chlamys farreri*. *Marine Science*, 27(1):77-80. (In Chinese with English Abstract)
- Yang, H., L. Li and **X. Guo**. 2001. Preliminary study on polyploid induction in Japanese scallop *Patinopecten yessoensis* by inhibiting polar bodies with cytochalasin B. *Acta Zoologica Sinica* 47(4):259-464. (In Chinese with English Abstract)

- Wang, Z., **X. Guo**, Y. Li, R. Yu, C. Tian and R. Wang, 2001. Gene expression and ploidy analysis in triploid Pacific oyster. *Trans. Chin. Soc. Malacol.*, 4:43-47. (In Chinese with English Abstract)
- Wang, Y., **X. Guo**. 2001. The application of fluorescence *in situ* hybridization in the mollusc molecular genetics. *Life Science Research* 5(4):283-289. (In Chinese with English Abstract)
- Wang, Z., **X. Guo**, X. Zhang, Y. Li and R. Wang. 2020. Survival, growth and gonadal development in aneuploid pacific oyster, *Crassostrea gigas*. *Journal of Ocean University of Qingdao*, 30(3):447-452
- Guo, X.**, Z. Wang, H. Yang, H. Que, Z. Xu and R. Wang. 1999. Molluscan cytogenetic biotechnology. Pp 101-125 in: Xiao et al. (ed.), *Advances in Marine Biotechnology*. China Ocean Press, Beijing. (in Chinese)
- Wang, Z, **X. Guo** and R. Wang, 1998. Genotypes and heterozygosity in reared Pacific oysters, *Crassostrea gigas*. *J. Ocean Univ. Qingdao*, 28(2):263-268. (In Chinese with English Abstract)
- Yang, H., R. Wang, **X. Guo** and Z. Yu, 1997. Tetraploid induction by blocking polar body I and mitosis I in fertilized eggs of the scallop *Chlamys farreri* with cytochalasin B. *J. Ocean Univ. Qingdao*, 27(2):166-172. (In Chinese with English Abstract)

PUBLICATIONS IN NON-PEER-REVIEWED JOURNALS AND REPORTS

- Bartley, D.M., J.A.H. Benzie, R.E. Brummett, F.B. Davy, S.S. De Silva, A.E. Eknath, **X. Guo**, M. Halwart, B. Harvey, Z. Jeney, J. Zhu, U. Na-Nakorn, T.T.T. Nguyen and I.I. Solar. 2009. The use and exchange of aquatic genetic resources for food and agriculture. UN FAO Commission on Genetic Resources for Food and Agriculture, Background Study Paper No. 45, 40pp.
- Guo, X.** Y. Wang, G. DeBrosse, D. Bushek and S. E. Ford. 2008. Building a superior oyster for aquaculture. *The Jersey Shoreline*, 25(1):7-9.
- Guo, X.** 2004. Oyster breeding and the use of biotechnology. *Bull. Aquacult. Assoc. Canada* 104:26-33.
- Jackson, D.L., B.W. MacDonald, B. Vercaemer, **X. Guo**, A. Mallet and E.L. Kenchinton. 2003. Investigations with Triploid Atlantic Sea Scallops, *Placopecten magellanicus*, at the Bedford Institute of Oceanography, 2000-2003. *Can. Tech. Rep. Fish. Aquat. Sci.* 2460: v+ 48p.
- Guo, X.**, H. Yang and J. Kraeuter. 2001. Triploid and tetraploid technology for hard clam aquaculture. *Jersey Shoreline*, 20(2):6-9.
- Guo, X.** and J. Kraeuter, 2000. Aquaculture and breeding technology. *The Jersey Shoreline*, 19(3):1-4.
- Guo, X.** 2000. Aquaculture in China: two decades of rapid growth. *Aquaculture Magazine*, 26(3):27-36.
- Guo, X.**, S. Ford and F. Zhang, 2000. Shellfish culture in China. Part 3, modern species: scallops. *Shellfish World*, 1(3):12-13.
- Guo, X.**, S. Ford and F. Zhang, 2000. Shellfish culture in China. Part 4, modern species: mussels, abalone, pearl oysters. *Shellfish World*, 1(4):12-13.
- Guo, X.**, S. Ford and F. Zhang, 1999. Shellfish culture in China. Part 1, general overview. *Shellfish World*, 1(1):8-10.
- Guo, X.**, S. Ford and F. Zhang, 1999. Shellfish culture in China. Part 2, traditional species: oysters, blood cockles razor and Ruditapes clams. *Shellfish World*, 1(2):8-11.

Guo, X. Early Growth and Development of Intrastrain and Interstrain Triploids of Rainbow Trout (*Salmo gairdneri*). M.S. Thesis, University of Washington, Seattle. 68p.

INVITED LECTURES, SEMINARS AND KEYNOTE PRESENTATIONS

- 2023 Shellfish aquaculture in the genome era. Plenary lecture, the 115th Annual Meeting of the National Shellfisheries Association, Baltimore, Maryland, March 26 – 30, 2023.
- 2021 Trends in world oyster aquaculture. Keynote speech, Oyster Industry High-quality Development Forum, Qingdao, China, December 16-17, 2021.
- 2021 World oyster aquaculture developments. Keynote speech, International Oyster Forum, Rushan, China, October 5 – 7, 2021.
- 2020 Shellfish Aquaculture Innovations. Guest lecture, Rutgers Marine Extension Program Seminar Series. September 29, 2020. Virtual.
- 2019 Diversity and evolutionary history of oysters. The 8th International Oyster Symposium, Qingdao, China, November 5 – 8, 2019.
- 2019 Genomics and the changing ocean. Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, September 24, 2019.
- 2019 Gene duplication in bivalve genomes and implications for adaptation. The 2019 International Conference on Genomics – Ocean, Qingdao, China, September 21 – 22, 2019.
- 2019 Gene duplication in bivalve genomes and implications for adaptation. Pearls of Wisdom: synergizing leadership and expertise in molluscan genomics, the Royal Society at Chicheley Hall, Buckinghamshire, UK, September 16 – 17, 2019.
- 2018 Advances in Oyster Genetics and Genomics. Ocean University of China, September 21, 2018.
- 2018 Oyster Aquaculture and Breeding in the US. International Oyster Forum, Rushan, China. April 21-23, 2018.
- 2017 Bivalve breeding and genomics. Invited lecture at Guangdong Ocean University, Zhanjiang, Guangdong, October 20, 2017.
- 2017 Shellfish aquaculture and breeding. Invited lecture at Barnegat Bay Shellfish Restoration Program, Rutgers NJAES Cooperative Extension of Ocean County, Toms River, NJ, September 26, 2017.
- 2017 Adaptation of bivalve molluscs seen through their genomes. Invited presentation at ICG-Ocean (International Conference on Genomics – Ocean). Qingdao, China. August 7 – 8, 2017.
- 2017 Infectious diseases of marine molluscs and immune responses as revealed by genomic studies. Invited lecture at Institute of Oceanology, Chinese Academy of Sciences, Qingdao, July 30, 2017.
- 2017 Diversity of innate immune genes and antiviral response in a mollusc. Invited presentation at Aoshan Forum on Comparative Immunology, China National Laboratory of Marine Science, Qingdao, July 29, 2017.
- 2016 Genomics in managing marine infectious diseases under climate change. Invited presentation at Aoshan Forum, China National Laboratory of Marine Science, Qingdao, September 20, 2016.
- 2016 Oyster genomics and perspectives for applications in breeding. Invited presentation at USDA Aquaculture Genomics, Genetics and Breeding, Auburn, AL, March 24-25, 2016.

- 2015 A genomic view of oyster's diversity and resilience. Institute of Marine Environmental Technology, University of Maryland Center for Environmental Science, Baltimore, September 23, 2015.
- 2015 Fishery and Marine Biological Research in the Omics Era. Invited Lecture of the 65th Anniversary Celebration, Institute of Oceanology, Chinese Academy of Sciences, Qingdao, July 24, 2015.
- 2015 Genetics of disease resistance in oysters. RCN Marine Disease Modeling and Transmission Workshop, May 11 – 15, 2015, CCPO, Old Dominion University, Norfolk, VA.
- 2014 Advances in oyster genetics, genomics and breeding. Ocean University of China, October 25, 2014.
- 2014 Which oyster stock is best for aquaculture in Delaware Bay. Shellfish Grower's Forum, March 20, 2014, Port Norris, NJ.
- 2014 Resilience of the oyster seen through its genome. International Conference on Next Generation Genomic View on Plants, Animals and Microbes, March 5 – 7, 2014, Singapore.
- 2013 Adaptation of oysters revealed by their genes and genomes. Gulf Coast Research Laboratory, University of Southern Mississippi, Ocean Springs, MS, November 21, 2013
- 2013 Gene expansion and oyster adaptation. 2013 International Conference of Genomics, Qingdao, China, October 28-30, 2013.
- 2013 Oyster culture, breeding and genomics. Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, Yantai, China, October 23, 2013.
- 2013 Oysters, oyster farming and breeding. Second Friday by the Bay, September 13, 2013, Bivalve, NJ.
- 2012 Resilience of the oyster seen through its genome. Seton Hall University, Oct 19, 2012
- 2012 Molluscan Genomics and Breeding. Xiamen University, August 20, 2012
- 2012 Shellfish Aquaculture and Genomics. University of Caen, France, October 10, 2012.
- 2011 Oyster Genomics and Aquaculture. University of Caen, France, October 20, 2011.
- 2011 Oyster genomics and breeding: promises and challenges. Ocean University of China, Qingdao, July 10, 2011.
- 2010 Oyster genomics and breeding. Yellow Sea Fishery Research Institute, Qingdao, China, April 10, 2010.
- 2010 Oyster aquaculture and breeding. Hainan University, Hainan, China, July 16, 2010.
- 2009 Genetic improvement of eastern oysters for disease-resistance and fast growth. Center of Marine Biotechnology, University of Maryland Biotechnology Institute, December 9, 2009, Baltimore, MD.
- 2009 Understanding our oysters from species to genes. Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, May 10, 2009.
- 2009 From DNA sequences to aquaculture. Institute of Oceanology, Chinese Academy of Sciences, Qingdao, China, May 11, 2009.
- 2009 Recent advances in shellfish genetics and breeding. Hainan University, China, May 15, 2009.
- 2009 Oyster genetics and breeding. Aquaculture Genetics and Genomics Forum, held at Ocean University of China, September 4 – 5, 2009, Qingdao, China.
- 2009 An update on shellfish genetics and breeding. USDA Shellfish Broodstock Management Committee meeting (WERA99), March 21 – 22, 2009, Savannah, GA.

- 2008 Shellfish genomics and breeding. Functional Marine Genomics Forum, Institute of Oceanology, Chinese Academy of Science, Qingdao, July 2, 2008.
- 2008 Genetics and genomics towards to a better oyster. Department of Biology, University of North Carolina at Charlotte, February 1, 2008.
- 2007 Oyster Genetics and Genomics. Hainan University, Haikou, April 20, 2007.
- 2007 Shellfish Genomics and breeding. Jimei University, Xiamen, April 17, 2007.
- 2006 Contribution of non-native marine species to sustainable aquaculture. Invited talk at Non-native Species in Aquaculture Workshop, St. Andrews Biological Station, October 11-13, 2006, St. Andrews.
- 2006 An update on oyster genetics and breeding at Rutgers University. Invited talk at the Northeastern Aquaculture Conference & Exposition, Mystic, December 6-8, 2006, CT.
- 2006 The state of molluscan aquaculture in China. Invited talk at the Northeastern Aquaculture Conference & Exposition, Mystic, December 6-8, 2006, CT.
- 2005 Oyster genetics and breeding. Guest lecture at South China Sea Institute of Fisheries, Guangzhou, China, March 19, 2005. The lecture was attended by about 20 scientists and students.
- 2005 Oyster genetics, genomics and their applications in aquaculture. Guest lecture at Hainan University, China, March 22, 2005. The lecture was attended by about 50 faculty and students.
- 2005 The use of molecular markers in studying shellfish populations. Guest lecture at Xiamen University, China, March 25, 2004. The lecture was attended by 15 students and staff of Prof. Nianzhi Jiao's lab.
- 2004 Shellfish breeding at the biotech age: progresses and challenges. Invited speaker at the NACE 2004 meeting, Manchester, NH, December 2-4, 2004.
- 2004 Shellfish breeding and the use of biotechnology. Guest speaker at the Aquaculture Biotechnology Workshop sponsored by Fisheries and Ocean Canada, St. Andrews, May 11 – 13, 2004.
- 2004 Shellfish Genetics and Genomics. Invited lecture at Florida Institute of Technology as part of the Elise B. Newell Seminar Series, March 25, 2004.
- 2002 Advances in shellfish genetics and breeding biotechnology. Invited lecture at Department of Biology, Beijing Normal University, China, April 25, 2002.
- 2001 Biotechnical approaches to stock improvement for shellfish aquaculture. School of Fishery and Aquatic Sciences, University of Washington, May 3, 2001.
- 2001 Shellfish genetics and genomics. Institute of Oceanology, Chinese Academy of Chinese, April 20, 2001.
- 2000 Genomic manipulation in molluscs. Department of Biology, Dalhousie University, Halifax, Canada, on 10/16/2000.
- 2000 Progress in shellfish genetics and breeding biotechnology. Headquarter of Chinese Academy of Sciences, June 16, Beijing.
- 2000 Progress in shellfish genetics and breeding biotechnology. Institute of Oceanology, Chinese Academy of Sciences, April 26, Qingdao, China.
- 1999 Shellfish breeding biotechnology at HSRL. New Jersey Sea Grant Consortium, National Sea Grant Assessment Panel Meeting, May 27, Sandy Hook, NJ.
- 1999 Recent Advances in Shellfish Breeding Research. Institute of Oceanology, Chinese Academy of Sciences, May 10, Qingdao China.
- 1999 Shellfish aquaculture and broodstock management. Zhejiang Institute of Mariculture,

- November 3, Wenzhou, China.
- 1998 Molluscan genetics and biotechnology. Dalian Fisheries University, May 20, 1998, Dalian, China.
- 1997 Recent advances in molluscan genetics and biotechnology. Keynote presentation at the 8th Meeting of the Chinese Society of Malacology, October 3-8, Nanji, Zhejiang, China
- 1997 Shellfish genetics and breeding. Guanxi Institute of Oceanology, Beihai, November 5, China.
- 1997 Shellfish genetics and breeding. Fujian Institute of Mariculture, November 10, Xiamen, China.
- 1997 Shellfish aquaculture in North America. Zhejiang Institute of Mariculture, October 10, Wenzhou, China.
- 1996 Aquaculture in China. Given at the Aquaculture Course at HSRL, Rutgers University, January.
- 1996 A series of five lectures in oyster genetics and breeding. Rizhao Fisheries Institute, September 8-15, Rizhao, China.
- 1996 Oyster genetics and breeding biotechnology. Institute of Oceanology, Chinese Academy of Science, September 6, Qingdao, China.
- 1996 Shellfish genetics and breeding. Jiangsu Oceanic Bureau, September 22, Qidong, China.
- 1996 Three lectures in shellfish genetics and breeding. Zhejiang Institute of Mariculture, September 22, Qingjiang, China.
- 1995 Ploidy manipulation in oysters. Qingdao Ocean University, College of Fisheries, October 22, Qingdao, China.
- 1994 Tetraploid oyster and its use in aquaculture. Given at the 1994 annual meeting of the NSA Pacific Section and the Pacific Coast Oyster Grower's Association, October 2-4, Seaside, Oregon.
- 1994 Aquaculture in China. Given at the Aquaculture Course at HSRL, Rutgers University, January.
- 1994 Oyster genetics and breeding. Department of Biology, University of Massachusetts at Dartmouth, MA.
- 1991 Aquaculture genetics and biotechnology. Department of Biological Sciences, SUNY at Brockport, NY.
- 1990 Cytogenetic manipulation in oysters. Bodega Bay Marine lab, University of California at Davis, CA.

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