



FACULTY OF BIOSCIENCE ENGINEERING

Laboratory of Aquaculture & Artemia Reference Center

Faculty of Bioscience Engineering

Ghent University, Belgium

China AquaFishNet visit - Ghent, August 31, 2007

ARTEMIA

female brine shrimp

male brine shrimp

1 cm







Coastal saltworks

for solar salt production (salinas)

Inland salt lakes





Artemia cyst accumulation on the beach of the Great Salt Lake (Utah-USA)







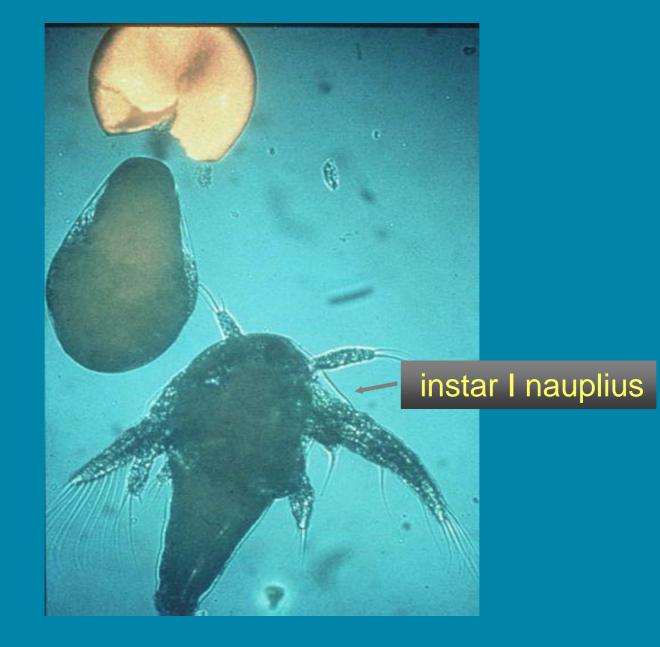
0.5 mm

dehydrated Artemia cysts in dormancy state





Artemia hatching







10-day old seabass larva feeding on Artemia





10-day old shrimp larva feeding on Artemia



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Artemia research



Biodiversity

Hatching and life cycle studies

Bioencapsulation



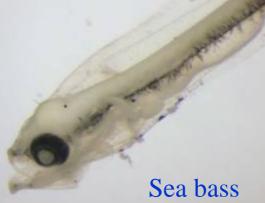


Larviculture research





Macrobrachium rosenbergii





Penaeid shrimp



Mud crab : Scylla spp.



EGG QUALITY broodstock nutrition

COMMERCIAL COMPETITIVENESS

LARVICULTURE of fish & shellfish

ZOOTECHNICAL ASPECTS

MICROBIAL CONDITIONS

probionts / pathogens

NUTRITION





UGent interdisciplinary cooperation

in aquaculture R&D

Faculty of Bioscience Engineering

Biochemical and Microbial Technology – W. Verstraete and N. Boon Crop Protection – P. De Clercq Agriculture Economics – W. Verbeke Applied Analytical and Physical Chemistry – P. Van Der Meeren Applied Ecology and Environmental Biology – N. De Pauw

Faculty of Veterinary Medicine

Virology, Parasitology and Immunology – M. Pensaert and H. Nauwynck Morphology – W. Van den Broeck Pathology, Bacteriology and Poultry Diseases – A. Decostere

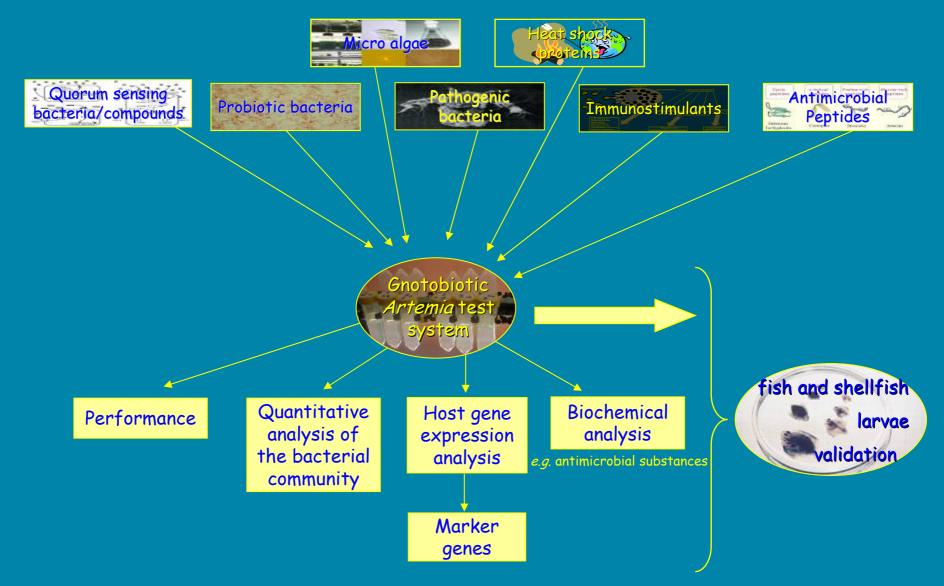
Faculty of Sciences

Biochemistry, Physiology and Microbiology – P. Vandamme and G. Huys Biology – D. Adriaens and W. Vijverman Molecular Genetics – D. Inzé and F. Van Breuseghem





→ INNOVATIVE MICROBIAL MANAGEMENT SYSTEMS







UGent Aquaculture R&D Center

Faculty of Bioscience Engineering

Animal Production - P. Sorgeloos en P. Bossier Biochemical and Microbial Technology – W. Verstraete and N. Boon Crop Protection – P. De Clercq Agriculture Economics – J. Viaene, W. Verbeke and X. Gellynck Organic Chemistry – J. Dewulf Applied Analytical and Physical Chemistry – P. Van Der Meeren Applied Ecology and Environmental Biology – N. De Pauw Food Safety and Food Quality – J. Debevere, F. Devlieghere and J. Van Camp

Faculty of Veterinary Medicine

Morphology – W. Van den Broeck Pathology, Bacteriology and Poultry Diseases – A. Decostere Virology, Parasitology and Immunology – H. Nauwynck

Faculty of Sciences

Biochemistry, Physiology and Microbiology – P. Vandamme and P. De Vos Biology – M. Vincx, A. Huysseune, D. Adriaens and W. Vijverman Molecular Genetics – D. Inzé





biggest solar salt production in the world is located in the Bohai sea, China





May 1985 Artemia training course Shandong College of Oceanography, Qingdao





Cooperation Support

Bilateral Cooperation Belgium/Flanders-China

UNDP project "Biotechnology of solar saltfields"

EU STD projects "Artemia"

ABOS-VLIR Own Inititiative Project
"Artemia & fish/shrimp/crab larviculture"





Aquaculture Alumni UGent

Master of Science in Aquaculture (since 1991)

with scholarships of EU, VLIR and UGent

- Salt Research Institute (2)
- Ocean University of China, Qingdao (3)
- Institute of Oceanology, Qingdao
- Nankai University
- South China Sea Fisheries University
- University of HongKong
- Dalian University

PhD students in Aquaculture:

with scholarships of VLIR and Chinese government

- Ocean University of China (4)
- Salt Research Institute
- Shanghai Fisheries University





China & ARC-UGent Cooperation in aquaculture research, education & extension

- Salt Research Institute, Tanggu
- China National Salt Industry Cooperation, Beijing
- Ocean University of China, Qingdao
- Yellow Sea Fisheries Research Institute, Qingdao
- Institute of Oceanology, Qingdao
- Shanghai Fisheries University
- China Fisheries Society
- Nankai University, Tianjin
- Beijing Genomic Institute





China AquaFishNet partners

- Shanghai Fisheries University
- Ocean University of China, Qingdao
- Guangdong Ocean University
- Jimei University
- Dalian Fisheries University
- Fujian Academy of Agricultural Sciences
- Institute of Hydrobiology of the Chinese Academy of Sciences, Wuhan
- Institute of Oceanology of the Chinese Academy of Sciences, Qingdao
- Yellow Sea Fisheries Research Institute of the Chinese Academy of Fisheries Sciences, Qingdao
- Pearl River Research Institute of the Chinese Academy of Fisheries Sciences, Guangzhou







China AquaFishNet

- interest in closer interaction between China and Europe in the framework of the ASEM aquaculture platform (initiative launched in China in 1999, implemented by the EU in 2003)
- 1st Euro-China Conference on Higher Education & Research in Aquaculture, Shanghai, July 2006: first approach to set up network of aquaculture centers in China
- 2nd Euro-China Conference on Higher Education & Research in Aquaculture, Wageningen, August 27-28, 2007: official launch of China AquaFishNet; identification of priority areas for interaction







Aim of China AquaFishNet and its European counterparts (Universities of Wageningen, Trondheim and Gent):

> facilitate dialogue / interaction / cooperation in the following areas

- Education
- Research
- Governance

with other ASEM aquaculture platform members

www.aquaculture.UGent.be



