

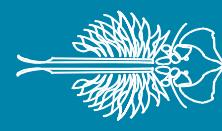


Laboratory of Aquaculture & Artemia Reference Center

Faculty of Bioscience Engineering
Ghent University, Belgium

Jean Dhont, Research staff
Patrick Sorgeloos, Director

How it began: *Artemia*



Coastal saltworks

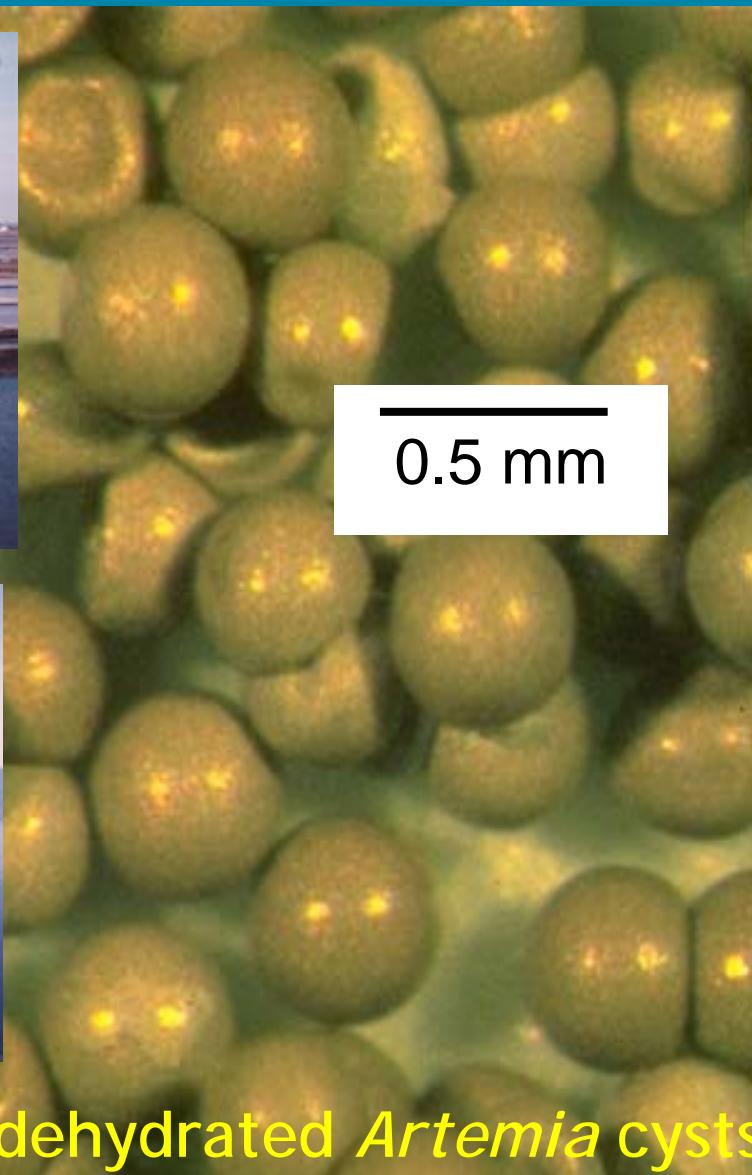


0.5 mm

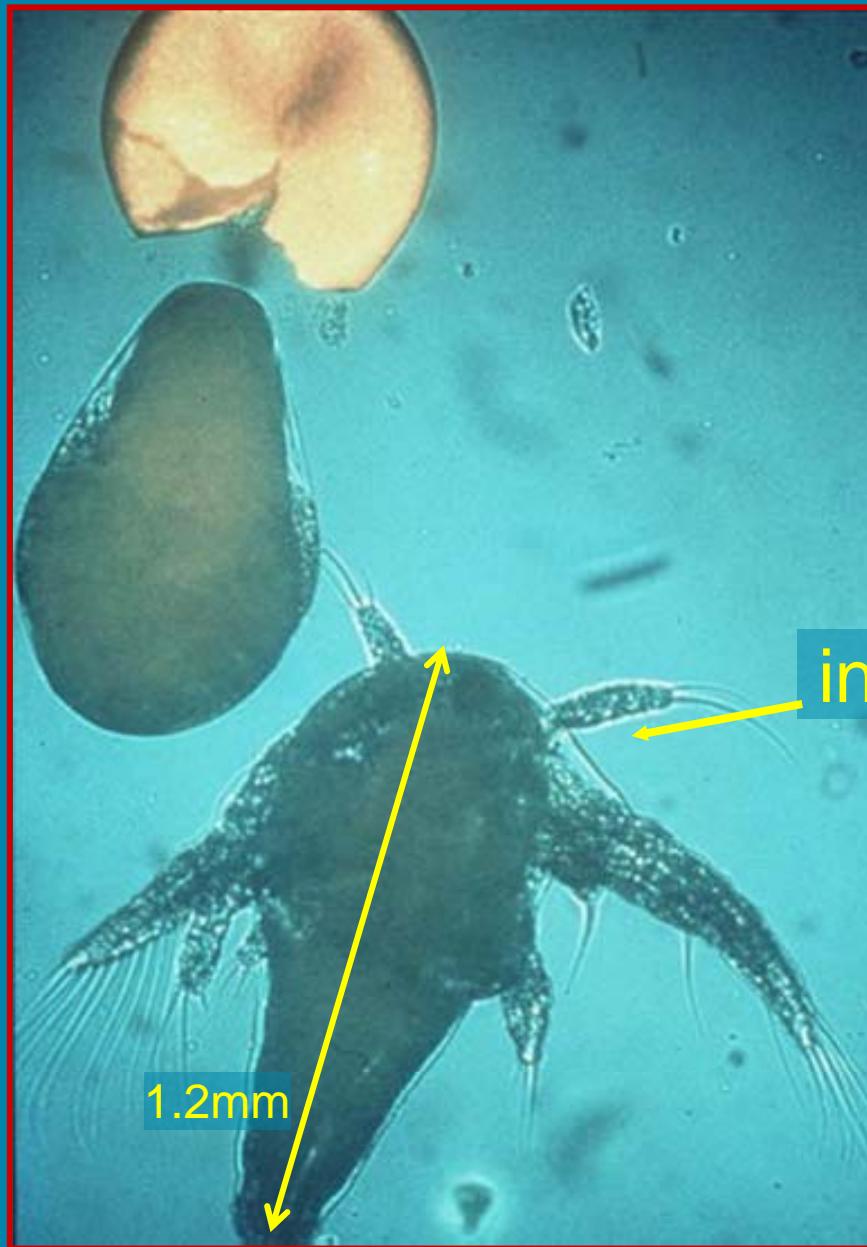
Inland salt lakes



dehydrated *Artemia* cysts
in dormancy state

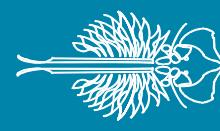


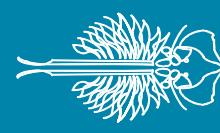
Artemia hatching



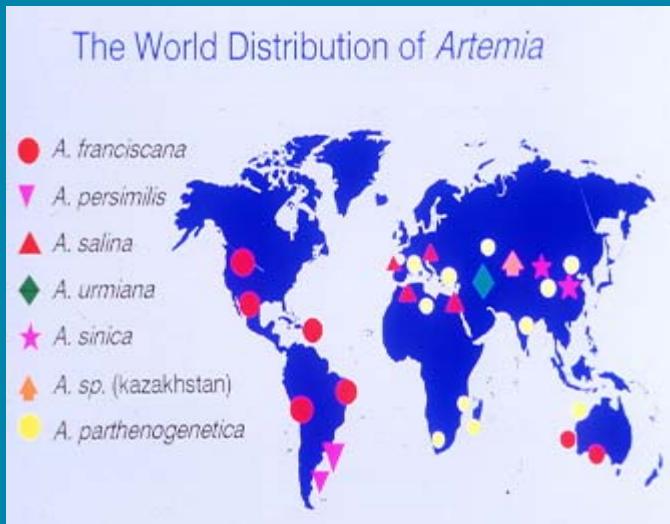
1.2mm

instar I nauplius





Artemia research



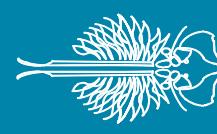
Biodiversity



Hatching and
life cycle studies



Bioencapsulation



SPECIES UNDER RESEARCH



Turbot



Macrobrachium rosenbergii



Sea bass



cobia

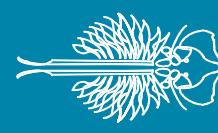
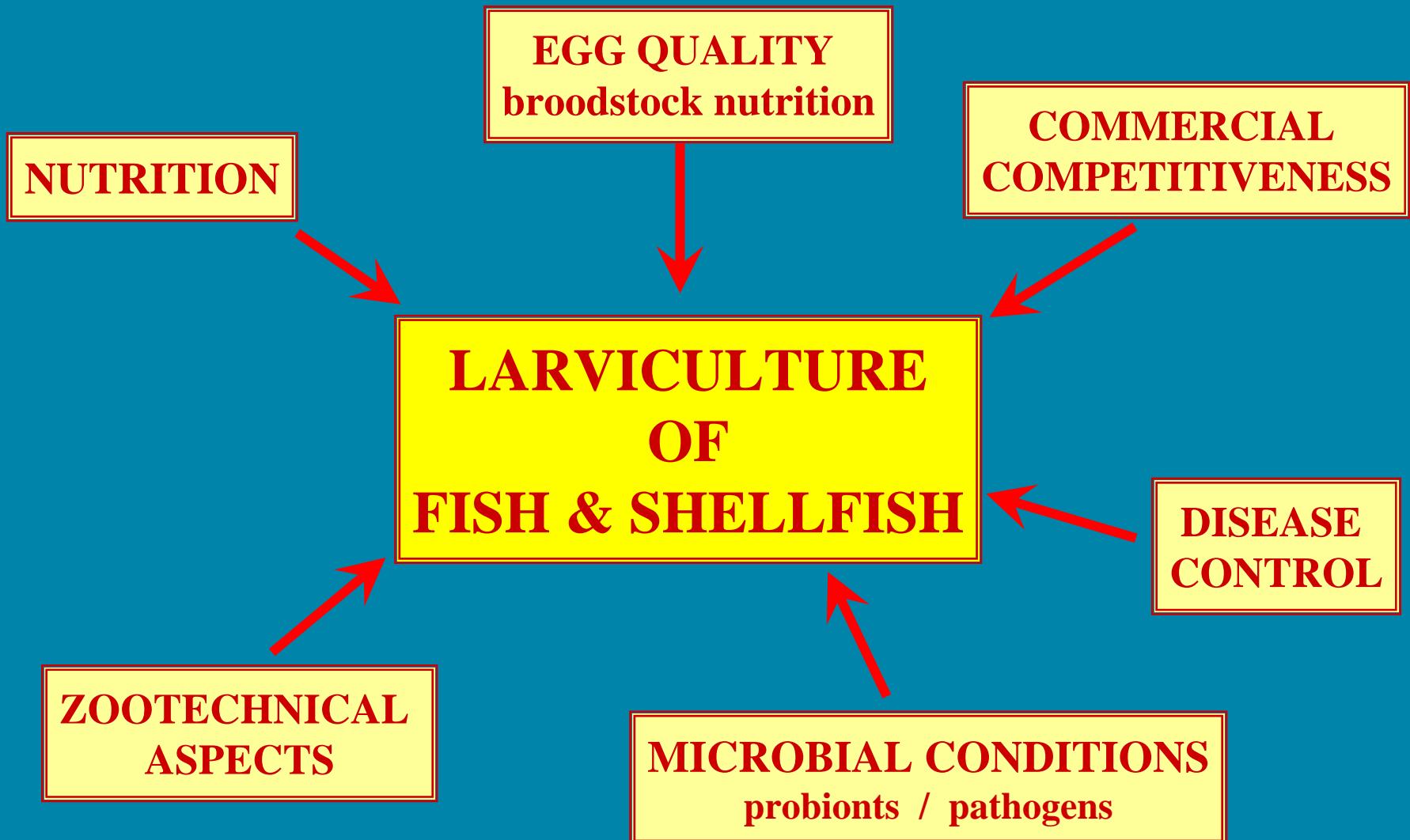


Mud crab : *Scylla* spp.



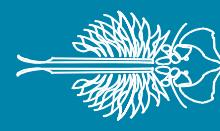
Penaeid shrimp

research topics



current research projects

- Artemia culturing biology and strain characterisation
- Husbandry and nutrition of fish and crustacean broodstock
- Live food production and nutritional manipulation for fish and shellfish larvae
- Analysis of microbial communities; quorum sensing (focusing on *Vibrio*); microbial bioflocs as feed in aquaculture
- Gnotobiotic culture of Artemia, Brachionus and sea bass larvae
- Gastro-intestinal development in larvae
- Development of alternative technique for disease prevention (probiotics, prebiotics, immunostimulants, environmental stress)
- Pathology of WSSV in Penaeid shrimp
- Morphological development of larvae
- Transcriptome analysis in Artemia and fish larvae



UGent partners 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 Meeran

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

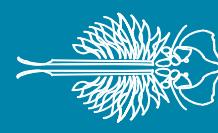
Pathology, Bacteriology and Poultry Diseases – A. Decostere

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

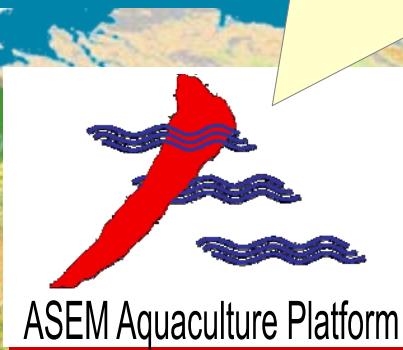


International cooperation and network projects

Aquaculture, Fisheries and Aquatic Resource Management Thematic Network in Education & Training



A multi-stakeholder platform for the development of sustainable aquaculture between the EU and Asia



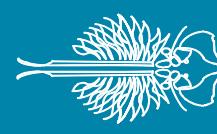
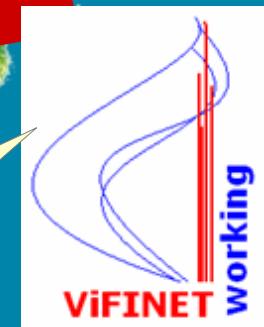
China AquaFishNet



European Master of Science in Aquaculture and Fisheries



National network for coordinated research & education



more information

www.aquaculture.UGent.be

contact

e-mail: artemia@UGent.be

address: Laboratory of Aquaculture & Artemia Reference Center
Ghent University

Rozier, 44

9000 Gent

tel: +32 9 264.37.54

fax: +32 9 264.41.93

