

CURRICULUM VITAE



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EDUCATIONAL QUALIFICATIONS

PhD **In Aquaculture and Fish Resources:** Faculty of Environmental Agricultural Sciences, Suez Canal University, AL – Arish, North Sinai, Egypt. Thesis subject: “Application of Genetics and Biotechnology in Aquaculture Development of marine shrimp in Egypt”.

2013

MSc **In Aquaculture:** Flemish Interuniversity Education Scholarship (VLIR). Faculty of Bioscience Engineering, Dept. of Animal Production, Laboratory of Aquaculture and Artemia Reference Centre, Ghent University, Belgium. Thesis work done in collaboration with Akvaforsk Genetics Center AS (AFGC), Sjølseng, N-6600, Sunndalsøra, NORWAY. Thesis subject: "Selection for Improved Disease Resistance in Fish"

2011

Post-academic Diploma 2008	In continuing education related to the post-academics and permanent trainings "Low Countries studies". Faculty of Arts and Philosophy, Ghent University- Belgium.
MSc 2007	In Aquaculture: Dept. of Animal Production and Fish Resources, Faculty of Agriculture, Suez Canal University. Thesis subject: "DNA fingerprinting of some tilapia fish in Suez Canal Zone".
BSc 2000	In Fish Resources: Faculty of Agriculture, Department of Animal Production and Fish Resources, Suez Canal University

CREDIT CERTIFICATES

- 1) **"Categorical Data Analysis"** from the program: Master of Statistical Data Analysis. Course code: CNSDAN01000002. Ghent University, Belgium. 31st January 2009.
- 2) **"Programming for Bio-informatics"** Course code: CHBIB100000034. Ghent University, Belgium. 31st January 2009.

STATISTICS & GENETIC COMPUTATION SKILLS

SAS statistical package

R - Programming

S-Plus

SYSTAT

ASReml

DMU

Lineage

Wildwood

GDA

Perl programming for bioinformatics

SAS Base Programming Certificate

GENETICS APPLICATIONS IN AQUACULTURE AND FISHERIES

Molecular biology:	gene and recombinant DNA cloning, genomic PCR, RT-PCR, cloning full length genes by PCR, sub-cloning to expression vectors, DNA sequencing analysis, site directed mutagenesis, southern blot, northern blot and gene transfer.
Domestication program	Domestication of new fish species for aquaculture to replace threatened stock in fisheries and use it in aquaculture program.
Selective breeding:	Calculation of genetic variance, Estimation of breeding values, Design of breeding programs, domestication techniques. Development of selective for disease resistance in shrimp and fish.
DNA markers for marine shrimp	Development of microsatellite markers in <i>Fenneropenaeus indicus</i> in the Red Sea, 100 microsatellites were developed and published in GenBank with Accession numbers: from : JQ866299 to JQ866394, and from JQ900229 to J Q900230, and from JX009170 to JX009171.
Helping fish & shrimp farmers	Provide fish & shrimp farmers with simple field kit for diagnosis of fish & shrimp diseases Development in collaboration with some pioneer shrimp farmer a new strain of shrimp characterized by higher growth and more tolerant to diseases.
Biosecure breeding programs	Development of biosecure breeding center for shrimp and fish to avoid disease outbreak and increase farmer's profits.

DNA SEQUENCES DEVELOPED FOR AQUACULTURE SPECIES

GenBank KR083838-KR083866

GenBank KT316276-KT316283

GenBank KT316240-KT316260

GenBank KR296730-KR296731

GenBank KR492904-KR492915

GenBank KP833617-KP833628

GenBank KP833617-KP833627

GenBank KR083838-KR083866

GenBank JQ866299 - JQ866394 GenBank JQ900229 - J Q900230 GenBank JX009170 - JX009171.

PROFESSIONAL EXPERIENCE

- Research Scientist
2014 till date
- For National Institute of Oceanography and Fisheries, Branch of Gulfs of Suez and Aqaba, Suez City, Egypt. Laboratory of genetics and genetic engineering, working mainly for selective breeding and application of microsatellite markers in selection for fast growth and diseases resistance.
- Assistant Researcher
2012 - 2014
- For National Institute of Oceanography and Fisheries, Branch of Gulfs of Suez and Aqaba, Suez City, Egypt. Laboratory of genetics and genetic engineering, working mainly for selective breeding and application of microsatellite markers in selection for fast growth and diseases resistance.
- Agriculture Engineer II
2010 - 2012
- For Department of Fish Health and Management, Faculty of Veterinary Medicine, Suez Canal University, Egypt. Screening for microsatellite markers associated with diseases resistance.
- Aquaculture consultant
2009
- For the Shrimp and Fish International Company (SAFICO), Sharm EL Sheikh, South Sinai, Egypt. Design of applied commercial breeding program for shrimp culture.
- MSc Scholarship
2007- 2009
- I have been awarded VLIR scholarship to study Master of Science in Aquaculture at Ghent University, Faculty of Bioscience Engineering, Department of Animal Production, Laboratory of Aquaculture and Artemia Reference Centre, in collaboration with AKVAFORSK Genetic Center As, Norway. Selection for diseases resistance in fish.

Research
Technician
2005 – 2007

For the WorldFish Center (formerly ICLARM) Regional Office for West and Central Africa. With Dr. Raul Ponzoni, the genetic program leader; I am working under five Selective Breeding projects, *Oreochromis niloticus* family selection project, *Oreochromis aureus* family selection project, African catfish family selection and hybridization project, *Oreochromis niloticus* mass selection project, *Oreochromis aureus* mass selection project. I am using ASREML genetic computation software and SAS software for genetic and statistical analysis for inbreeding calculations, breeding value, selection intensity and selection differential. I am using two types of tags one external floy tags and internal PIT tags (Passive Integrated Transponder tags).

Duties:

- Assisting the project manager on research of selective breeding of Nile tilapia through working in production of required families, rearing, and tagging.
- Assisting on research on selective breeding of African catfish via performing tagging, stocking, monitoring, and harvesting the commonly evaluated catfish.
- Monitoring and sampling of field evaluation trials of mass selected Nile tilapia in designated sites, data collection and analysis.
- Assisting in research on selective breeding of blue tilapia by assisting in production of required families, and tagging.
- Assisting in monitoring and sampling of field evaluation of mass selected blue tilapia in designated sites, data collection and analysis.
- Contribute to local, regional, and international training programs and workshops.
- Improve the genetic quality of Nile tilapia.
- Improve the genetic quality of blue tilapia.
- Improve the genetic quality of African catfish.
- Field evaluation of mass-selected Nile tilapia.
- Production of genetically improved fish.
- Development of genetic improvement technology.

In addition to the following skills:-

Discipline and Portfolio Development

- Develop collaborative research proposals
- Contribute to capacity building in NARS/NGO's
- Contribute to local, regional, and international training programs and workshops

Institutional Support

- Participate in local, regional and international meetings as required by WorldFish Center Management

Project Output

- Production of genetically improved fish
- Development of genetic improvement technology
- Production of peer-reviewed publications
- Building scientific capacity of NARS and NGO staff

Revenue Generation

- Improve project pipeline (Concept notes developed and submitted, accepted CN developed into project proposals).

Personal Development

- Keep balance in the work load
- Improve leadership skills

Aquaculture
Geneticist
2004-2005

For the National Prawn Company, Saudi Arabia with Dr. Roger Doyle of Genetic Computation limited, Canada, and Dr. Nigel Priston of CSIRO Institute, Australia. On a selective breeding program for the Indian white shrimp *Peneaus indicus*, the program aims to improve the tail thickness of the shrimp since it is considered an important economic trait for marketing and processing. We constructed Broodstock Breeding Centre (BBC), have Broodstock ponds, hatchery (Nauplii production unite, larval rearing unite), and growout ponds.

Duties: Collection and maintenance of shrimp breeding data, including the following:

- Maintenance of Breeding program databases and programs; Preparation of Raw data in excel spread sheets for entry into breeding program databases; Generation of data reports to Departmental Manager and external consultant from databases;
- Field collection of machine-readable shrimp measurements and samples and downloading of automatic temperature data;
- Generating Mathematical Breeding value calculations; Preparation of Excel and PowerPoint Presentations as required; Maintenance of Breeding program pedigree program (lineage) including the incorporation of data on inbreeding and performance traits;
- Taking of laboratory and field collection data on selection intensities, morphometrics, family survival and growth;
- Shrimp Tagging using approved tag codes and calculation of tag retention values and tag related mortalities;
- Tissue collection for sending to Trent University for DNA analysis, checking and data logging of samples, storage and packing of samples and preparation of sample submission sheet.
- Downloading of Micro satellite data from website and conversion into format for entry into breeding program databases;
- Calculation of Degree Day, Selection intensity, measurement errors and other statistical calculations as required;
- Preparation of data from breeding, morphometrics, temperature, challenge tests etc. in excel spreadsheets for import into breeding program databases;
- Generating Breeding value calculations;
- Assisting BBC manager in the preparation of a monthly report detailing breeding program progress;
- Preparation and or presentation of Briefing Documents in English and or Arabic in Word, Excel, PowerPoint or Lineage as required.

Agricultural Engineer 2002 –2004.

(Specialization: Marine Biotechnology) for the Fish Research Center, Suez Canal University (SCU).

Duties:

- Determination of the genetic characteristics of the fish inhabiting both wild water environments and farm environments.
- Genetic management of the fish hatchery in the center.
- Responsible for a selective breeding program for improving live weight of Nile tilapia in Egypt tilapia *Oreochromis niloticus*.
- Responsible for proposing new projects for the Center.
- Helping the manager to evaluate and plan new programs for the future development.
- Fish stock assessment.
- Responsible for assistance in delivering extension educational programs directly involved in commercial production of tilapia and Catfish.

Agricultural Engineer July 2001 –2002.

(Specialization: Marine Biotechnology) for the Biotechnology Research Institute (BRI).

Duties:

- Collection & Preparation of samples for molecular analysis.
- Preparation of DNA for PCR and sequencer reactions.
- Results analysis using molecular analysis softwares.
- Applying molecular techniques to aquaculture and play role in research programs involving the genetic status of individual fish.
- Involved in the workshops and projects done in the SCU.

Aquaculture TRAINING DELIVERED

- 2015** Mohamed E. Megahed. 2015: Practical training program "Hatchery and culture of marine shrimp" "organized by Egyptian Aquaculture Society (EAS), Suez, Egypt. 14-15 June, 2015.
- 2014** **Mohamed E. Megahed. 2014:** potential gain from genetic improvements in aquaculture: possibilities and limitations with an example of sea bass and sea bream aquaculture" in the study program of Aquaculture Production Technology and Management. Vocational School, Bogor Agricultural University, Bogor, Indonesia, 14 November, 2014.
- 2007** **Mohamed E. Megahed. 2007:** practical training program on characterization of Egyptian tilapia species and fish tagging technology. Organized by EICA/JICA/WorldFish Training Program "Warm Water Fish Production" 28 July - 02 August, 2007.
- 2006** **Mohamed E. Megahed. 2006:** Practical training program on Sex identification using aceto-carmin squash technique and Fish Branding methods. Organized by EICA/JICA/WorldFish Training Program "Warm Water Fish Production" 22-27 July 2006.

- 2006** **Mohamed E. Megahed. 2006:** Practical training program on characterization of Egyptian tilapia species and fish tagging technology. Organized by EICA/JICA/WorldFish Training Program "Warm Water Fish Production" 24-29 June 2006.
- 2005** **Mohamed E. Megahed. 2005:** Practical Training Program on Characterization of Egyptian Tilapia Species, Fish Tagging Technology and Aceto-carmin squash technique in sex identification. Organized by EICA/JICA /WorldFish Training Program "Fish Culture Development" 15-23 November 2005.
- 2005** **Mohamed E. Megahed. 2005:** Practical Training Program on Characterization of Egyptian Tilapia. WorldFish Center Training Program "Management of Fish Farms" 12- 17 November 2005.
- 2005** **Mohamed E. Megahed. 2005:** Practical Training Program on Characterization of Tilapia Species and Practical training program of Fish Tagging Technology. Organized by EICA/JICA /WorldFish Training Program "Warm Water Fish Production" 8-13 October 2005.
- 2005** **Mohamed E. Megahed. 2005:** Practical Training Program on application of Genetics in health management. FAO/WorldFish Training Program "Fish Health Management" June 06 – 16, 2005.

TRAINING RECEIVED

Training Module	"Teambuilding for Teamleaders" organized DAAD Kairo Akademie. 13 October, 2015
Training Module	"Principles of Assessment" organized DAAD Kairo Akademie. 8 October, 2015
Training course	"Introduction to Nanotechnology and its General Applications workshop" organized by Naqaa foundation for scientific research, Giza, Egypt. 15 August 2015.
Training Module	"How to present Scientific paper" organized DAAD Kairo Akademie. 1 st December, 2014
Training Module	"Working with Literature & Citations" organized by DAAD Kairo Akademie. 03 November 2014
Training Module	"Effective Time and Action Management" organized DAAD Kairo Akademie. 23 October, 2014.

Training program	Training program at Maastricht school of Management, the Netherlands entitled: " Training for Impact" from 16 June – 4 July 2014
Training Module	"Designing Scientific Posters" organized by DAAD Kairo Akademie. 24 march, 2014.
Training Module	"Self - Marketing" organized by DAAD Kairo Akademie. 20 march 2014.
Training Module	"Scientific Thinking and Argumentation Skills for problem solving" organized by DAAD Kairo Akademie. 11 march 2014
Training Module	"Ethics in Science" organized by DAAD Kairo Akademie. 10 march 2014.
Training course	"Intellectual Property" organized by International Collaboration, Technology Transfer & Inoovation, Ain Shams University. 21 January, 2014
Training Module	"Interactive Lectures" organized by DAAD Kairo Akademie. 19 December, 2013.
Training Module	"Developing a personality of leadership" organized by DAAD Kairo Akademie. 4 December, 2013.
Training program	"Fisheries governance" organized by Wageningen University from 21 October – 8th November, 2013.
Training course FORCE project	"Indicators and Simulation models for site selection and EIA of finfish mariculture" The training was organized by National Institute of Oceanography and Fisheries and Universita Ca'Foscari Venezia. 8-11 October, 2012.
Training course	(Introduction course to Euro- Mediterranean Cultural Dialogue) at the University College of Mechelen, Belgium. The course was organized by the Centre of Intercultural Management and International Communication (CIMIC), together with its European partners, within the Framework of Erasmus Mundus.3-5 December, 2008.
Internship program	At the College of Aquaculture and Fisheries, Can Tho University, Vietnam, from August 25 to October 5, 2008.
Training program	At the Institute of Fisheries of Ukrainian Academy of Agrarian Science, the training focus on Aquaculture genetic and genetic improvements of most important European species. From July 10 to July 19, 2008.

Excursion to Hungary	<p>” April 3rd till April 13th 2008, the program included the following:</p> <p>Introduction to the R&D activities of HAKI Research Institute for Fisheries, Aquaculture and Irrigation.</p> <p>Introduction to intensive fish farms: African catfish production (Szarvasfish Ltd and –Innoflex).</p> <p>Sturgeon caviar production.</p> <p>Szegedfish Ltd. Traditional carp-centered pond fish farming.</p> <p>Oko-2000 Ltd: multifunctional fishfarm.</p> <p>Fishfarm Akaszto.</p> <p>TEHAG Ltd. Artificial reproduction.</p> <p>Balaton Lake - Management of a tourism-orientated lake.</p> <p>Aranypony Ltd.: Multifunctional fish farming, eco-fish production.</p> <p>Introduction to the teaching and R&D activities of Faculty of Fisheries and Aquaculture, Szent Istvan University in Godollo.</p>
Training program	<p>On selective breeding of fish and shellfish species in Norway at AKVAFORSK genetic center, Norway. The training focus on selection for disease resistance in fish and shellfish from 22 November to 15 December 2007.</p>
Excursion to Netherlands	<p>In the framework of the course ‘ General Aspects of Aquaculture’ 25 October, 2007</p> <p>I have visited the following aquaculture projects:</p> <p>http://www.topsybaits.nl</p> <ul style="list-style-type: none"> • http://www.zeeuwsetong.nl • http://www.roemvanyerseke.nl • http://www.prinsendingemanse.com <p>www.onderzoekinformatie.nl</p>
Training program	<p>at National Prawn Company, Saudi Arabia by Dr. Roger Doyle of Genetic Computation Limited, Canada, and Dr. Nigel Piston of CSIRO Institute, Australia, For Selective Breeding of the Shrimp <i>Penaeus indicus</i> and special training on statistical analysis and genetic computation softwares, 10 -15, October 2004.</p> <p>How to choose the best mate for breeders selected from within each family. (This is a matter of minimizing the kinship – relatedness – between prospective mates.)</p> <p>How to use DNA markers to identify families which have been reared together with no physical tags. Exercises in mating design using pedigree data. Exercises in family identification using DNA microsatellite markers. Exercises in routine diversity monitoring using DNA markers.</p>

Intensive Training work	at National Prawn Company, Saudi Arabia by Dr. Nigel Preston of CSIRO, Food Futures National Research Flagship 2004-2005 on: Biosecure systems in Broodstock production Genetic improvement of farmed stocks Viral screening Genetic screening Biosecurity Molecular genetics Quantitative genetics Sterility Quality traits
Practical training program	"Application of genetics in aquaculture" organized by the Egyptian International Centre for Agriculture (EICA), Egypt. 1 October- 15 December, 2003.
Practical training program	"Biochemical genetic techniques: Electrophoresis" WorldFish Center, Abbassa, Egypt, 16-20 November, 2013.
Practical training program	"Genetics and development of Egyptian aquaculture" WorldFish Center, Abbassa, Egypt, 14-16 October, 2003.
Practical training program	"Sustainable use of genetic resources: application to environmental friendly aquaculture and fisheries" by WorldFish Center, Abbassa, Egypt, 15-23 September 2003.
Practical training program	"Natural spawning of African catfish" organized by WorldFish Center, Abbassa, Egypt, 3-5 June, 2002.
Practical training program	"Tilapia culture in fresh and brackish water" organized by WorldFish Center and FAO (regional office for the Near East) at Abassa, Egypt 21 April = 2 May 2002.
Practical training program	"Application of nutritional principles and practices in various farming systems" organized by WorldFish Center and the Muslti sector support program (MSSP)of the European community, Abbassa, Egypt, 11-14 March 2002.
Practical training program	"Enhancing hatcheries productivity" organized by WorldFish Center, Abbassa, 6-30 August, 2001.
Training course	"Detection of genetic modification in Food and Feeds" Suez Canal University, Biotechnology Research Institute, 8-10 August, 2001.

CONFERENCES & WORKSHOPS

- 2015** "Tropenatg Berlin 2015" Management of land use systems for enhanced food security – conflicts, controversies and resolutions. September 16 - 18, 2015, Humboldt-Universität zu Berlin, Germany
- 2015** "Development and Preservation Egyptian water resources from pollution" organized by National Institute of Oceanography and Fisheries (NIOF). 6-7 September, 2015.
- 2015** "Marine shrimp farming between Today's and future" organized by Egyptian Aquaculture Society (EAS), at Ras EL Bar city, Damietta. 28 March 2015.
- 2014** "consultative meeting" Investment for aquaculture projects in Egypt" organized by Egyptian Minsiter of Agriculture in collaboration with FAO office in Egypt. 26 October, 2014
- 2014** World Aquaculture conference, Adelaide 2014.7-11 June, 2014.
- 2014** AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- 2013** "Tropentag 2014" Bridging the gap between increasing knowledge and decreasing resources: organized by Czech University of Life Sciences Prague, September 17-19, 2013.
- 2013** Asian-Pacific Aquaculture 2013, Ho Chi Minh City, Vietnam 11-13 December, 2013.
- 2013** CropWorld Global 2013 took place at Amsterdam RAI on 29 – 30 october, 2013.
- 2013** Arabian Aquaculture conference, 26-27 June, 2013
- 2013** "Outcome of Fisheries Research Group:" at National Institute of Oceanography and Fisheries (NIOF) on 3rd June, 2013.
- 2013** AQUACULTURE 2013, NASHVILLE, TENNESSEE, FEBRUARY 21-25, 2013.
- 2011** 4th Global Fisheries & Aquaculture Research Conference and the 15th conference of Egyptian Society of Fisheries Development. 3-5 October, 2011.
- 201** 4th International Conference on aquatic Resources "Preservation, Protection and Development" ICAR-10, Alexandria, Egypt. 7-9 December, 2010.
- 2010** 3rd Global Fisheries & Aquaculture Research Conference. 29th November-1st December, 2010.
- 2009** 2nd Global Fisheries & Aquaculture Research Conference. Challenges facing the growth of Fisheries and Aquaculture Production. Cairo International convention centre, Egypt.24 – 26 Octobre 2009 -

2008 "From genomics to applications in European temperate and Mediterranean Aquaculture: Basis and prospects. 7- 8 February, 2008- Paris, France.

2008 A Future for Fisheries? Towards effective strategies for sustainability. Belgium, Leuven, 5 February 2008.

PROJECTS JOINED

2015 Project leader in project entitled" Cairo invent " 1) Development of Field diagnostic kits alternative to PCR methods. 2) Application of nanotechnology to develop cheap, fast and reliable DNA sequencing method.

2014- Team member in project entitled" New Valley project: Management of water
2015 resources in New valley governorate"

2014- Team member in a project entitled" Complementary Environmental study on
2015 development of coastal area in Halayeb and Shalaten, Egypt"

2014- I am a Co-principal investigator for a project entitled "Integrated Farming AS A
2017 National Project To Develop Central Sinai".

2013- I am a principal investigator for a project entitled "selection for disease resistance
2016 in shrimp: selective breeding and molecular technology".

2009 I have joined as a researcher in a project financed by Ministry of International cooperation, entitled: "Development of marines shrimp hatcheries and farms".

2004 I have participated in a joint research between WorldFish Centre and Auburn University that called AID project; it was aimed to produce a well bred Tilapia strain within Abbassa Center's facilities and then collect blood samples from individuals to follow Marker Assistant Selection studies.

2004 I have been participated in Interdisciplinary Research and Education Fund (INREF Pond) project that is supervised by Wageningen University, Netherlands. The project aimed to select for fast growth in Tilapia *Oreochromis niloticus* L., in low input earthen pond environment within Abbassa facilities. Wageningen University and WorldFish Centre are supervising and funding the project jointly. This project aims at studying the feasibility of selective breeding for the improvement of growth of Nile tilapia in low input extensive farming conditions, and at determining the effects of selection on other performance traits. It further intends to support the production of improved broodstock and fish seed for the resource poor fish farmers and thereby contribute to reduced malnutrition and poverty alleviation.

- 2004** I have been participated in project entitled (Genetic Enhancement of Egyptian Farmed Tilapia under different environmental and culture conditions). The Project undertaken on the genetic improvement of commercially important cultured fish species by selective breeding. Improved strains being disseminated by WorldFish Center in the frame work of the International Network on Genetics in Aquaculture (INGA). Improved strains proved significant cant economic and social benefits to poor people. However if not properly managed these could also lead to risks to aquatic ecosystems and biodiversity once they escape into the natural environment. Hence before the introduction and dissemination of improved strains relevant policies and protocols are reviewed methods to assess the possible ecological risks formulated and ways and means of averting any possible impacts identified including measures to contain escapes.
- 2001** I have joined in an International (US – Egypt Program) Programs that has been done jointly by Georgia Institute of Technology and Suez Canal University, Biotechnology Research Institute (BRI):
Sea Cucumber in the Gulf of Aqaba as a New and Natural source of Bioactive Substances.
Red sea As Source for Bioactive Substances (Saecophine) From Sracophyton Species and Liptophyton Species.

PUBLICATIONS

Books

- 2014 **Mohamed E. Megahed.** Effects & Expectations of Tilapia as Resources: Book chapter 2 entitled: " Tilapia Breeding programs for Fillet Trait to Meet Market and Consumer Preferences". ISBN: 978-1-63463-307-9. Nova Scientific Publishers.
- 2013 **Mohamed Megahed.** Handbook of Animal Breeding and Genetics. ISBN: 978-3-659-50886-8.
- 2013 **Mohamed Megahed.** Various Perspectives in Fisheries Management and Protection. ISBN: 978-3-659-50179-1.
- 2013 **Mohamed Megahed.** Development of Marine Shrimp Farming in Sinai, Egypt. ISBN: 978-3-659-47191-9.
- 2013 **Mohamed Megahed.** Genomic data analysis. ISBN: 978-3-659-40181-7.
- 2013 **Mohamed Megahed.** Freshwater Fish Farming. ISBN: 978-3-659-38861-3.
- 2013 **Mohamed Megahed.** Application of Genetics in Shrimp Farming: Genetics and Its Application In Aquaculture. ISBN-10: 3659388599; ISBN-13: 978-365938859.

- 2012 **Mohamed Megahed.** Diversity of Microorganisms: Prokaryotic and Eukaryotic Microorganisms. Evolutionary and Functional diversity of Microorganisms. ISBN: 978-3-659-28716-9.
- 2012 **Mohamed Megahed.** "Detection and identification of aquatic micro-organisms" (ISBN 978-3-659-27803-7).
- 2012 **Mohamed Megahed.** Tilapia Selective Breeding Programs and Genetic Improvement in Egypt. ISBN-13: 978-3-659-13626-9 ISBN-10: 3659136263.
- 2012 **Mohamed E. Megahed.** How do aquatic organisms function?: Physiological and Environmental Adaptation of Animal. ISBN-10: 3848423332 ISBN-13: 978-3848423330.
- 2011 **Mohamed E. Megahed.** Studies on Conventional Techniques in Shrimp Farming in Egypt: New Technologies in Shrimp Farming in Egypt. ISBN-10: 384544097X. ISBN-13: 978-3845440972.
- 2011 **Mohamed Megahed.** Standard operating procedure for marine shrimp hatcheries and farms. ISBN-10: 3639327853. ISBN-13: 978-3-639-32785-4.
- 2010 **Mohamed Megahed.** Tilapia genetic resources in Suez Canal zone - Egypt: identification of genetic profile of Egyptian tilapia: potential use in selective breeding programs. ISBN-10: 3639313984. ISBN-13: 978-3639313987.
- 2010 **Mohamed E. Megahed, Morten Rye and Peter Bossier.** Selection for Improved Disease Resistance in Fish. ISBN-10: 3639296451. ISBN-13: 978-3639296457.

Papers

Mohamed Megahed and Khaled Ahmed Mohamed. 2015. Degree-Day Concept in Shrimp Aquaculture: Calculation, Explanation and Procedure. Tropentag, September 16-18, 2015, Berlin, Germany.

Mohamed E. Megahed, Khaled Mohamed. 2014. Sustainable Growth of Shrimp Aquaculture Through Biofloc Production as Alternative to Fishmeal in Shrimp Feeds. Journal of Agricultural Science. Vol 6, No 6. pp.176-187.

Mohamed E. Megahed. 2014. Security Issues, protection and ISO Certification of the genetic Improvement Program. Tropentag, September 17-19, 2014, Prague, Czech Republic.

Mohamed E. Megahed. 2014. THE ROLE OF GENETICS IN PROFIT DEVELOPMENT FOR FARMS PRODUCING TILAPIA. World Aquaculture Adelaide 2014.7-11 June, 2014.

- Mohamed E. Megahed. 2014.** THE OPERATIONAL ROUTINE IN BREEDING PROGRAM OF SHRIMP IN EGYPT. World Aquaculture Adelaide 2014.7-11 June, 2014.
- Mohamed E. Megahed. 2014.** INCREASING ANIMAL PROTEIN SUPPLY IN EGYPT BY MAXIMIZING GENETIC GAIN FROM SELECTION, THE NILE TILAPIA (*Oreochromis niloticus*) MODEL. World Aquaculture Adelaide 2014.7-11 June, 2014.
- Mohamed E. Megahed. 2014.** DEGREE-DAY CONCEPT IN SHRIMP AQUACULTURE: CALCULATION, EXPLANATION AND PROCEDURE. World Aquaculture Adelaide 2014.7-11 June, 2014.
- Mohamed E. Megahed. 2014.** CRITERIA FOR SELECTION AND MEASUREMENTS TAKEN IN SELECTIVE BREEDING PROGRAM FOR INDIAN WHITE SHRIMP *Fenneropenaeus indicus*. World Aquaculture Adelaide 2014.7-11 June, 2014.
- Mohamed E. Megahed. 2014.** DESIGN BIOSECURITY LEVELS FOR SHRIMP BREEDING PROGRAMS IN EGYPT. World Aquaculture Adelaide 2014.7-11 June, 2014.
- Mohamed E. Megahed. 2014.** STRAIN COMPARISON TRIALS IN GENETIC IMPROVEMENT OF TILAPIA. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** STANDARDIZED HATCHERY SELECTION PROCEDURES AND REPORTING IN THE BREEDING PROGRAMS OF TLAPIA. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** MICROSATELLITE MARKER-BASED PEDIGREES IN SELECTIVE BREEDING OF CLOSED THELYCUM SHRIMP *Fenneropenaeus indicus*. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** GROWTH TRIALS ON WILD, DOMESTICATED AND HYBRIDS OF INDIAN WHITE SHRIMP *Fenneropenaeus indicus*. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** GENETIC SELECTION FOR FILLET THICKNESS AND COLOR IN TILAPIA. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.

- Mohamed E. Megahed. 2014.** EMERGING PROBLEMS WITH RECENT INTRODUCTION OF INDIAN WHITE SHRIMP *Fenneropenaeus indicus* IN EGYPT. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** DESIGN BREEDING PROGRAM FOR THE INDIAN WHITE SHRIMP *Fenneropenaeus indicus* IN EGYPT. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed. 2014.** ADOPTION OF DNA BARCODING IN FISHERIES AND AQUACULTURE IN EGYPT. Meeting abstract, AQUACULTURE AMERICA 2014. February 9 - 12, 2014.
- Mohamed E. Megahed, Samir Ghoneim, Gaber Desouky, Ashraf EL-Dakar. 2013.** Pilot Experiment on Shrimp *P. semisulcatus* Production at Al – Deba Farm Site. JOURNAL OF THE ARABIAN AQUACULTURE SOCIETY. Vol. 8 No 2, pp. 331-338.
- Mohamed E. Megahed, Samir Ghoneim, Gaber Desouky, Ashraf EL-Dakar. 2013.** Major Constraints Facing Development of Marine Shrimp Farming in Egypt. JOURNAL OF THE ARABIAN AQUACULTURE SOCIETY. Vol. 8 No 2, pp. 321-330.
- Mohamed E. Megahed. 2013.** Development of microsatellite markers in *Fenneropenaeus indicus* in the Red Sea. Paper submitted
- Mohamed E. Megahed. 2013.** Sustainable growth of shrimp aquaculture and protection of natural fisheries through biofloc production as alternative to fishmeal in shrimp feeds. Asian-pacific aquaculture 2013, held in Ho Chi Minh City, Vietnam.
- Mohamed E. Megahed. 2013.** Evaluation of growout performance between post-larvae from domesticated (F2) and wild (F0) green tiger shrimp *Penaeus semisulcatus* in earthen ponds. Asian-pacific aquaculture 2013, held in Ho Chi Minh City, Vietnam.
- Mohamed E. Megahed. 2013.** Sustainable growth of shrimp aquaculture and protection of natural fisheries through successive generations of domestication for seed production. Asian-pacific aquaculture 2013, held in Ho Chi Minh City, Vietnam.
- Mohamed E. Megahed. 2013.** National genetic selection programs against viral pathogens recently impacted marine shrimp production in Egypt. Asian-Pacific Aquaculture 2013 - Ho Chi Minh City, Vietnam - December 10 - 13, 2013.
- Mohamed E. Megahed. 2013.** PRELIMINARY TRIAL ON CONTROLLED CHALLENGE TEST OF THE GREEN TIGER SHRIMP *Penaeus semisulcatus* FAMILIES WITH WSSV

Mohamed E. Megahed. 2013. Major constraints facing development of marine shrimp in Egypt. Asian-Pacific Aquaculture 2013 - Ho Chi Minh City, Vietnam - December 10 - 13, 2013 and

Mohamed E. Megahed. 2013. Trials Examine Domestication Feasibility Of Green Tiger Shrimp In Egypt. September/October 2013 global aquaculture advocate.

Mohamed E. Megahed. 2013. Domestication of *Penaeus semisulcatus* in Egypt: potential for broodstock production. Aquaculture 2013 - Meeting Abstract.

Mohamed E. Megahed. 2011. Novel protein sources in feeds of juveniles green tiger shrimp *Penaeus semisulcatus*. *Egypt J. Aquat. Biol. & Fish.*, Vol.15, No.3: (2011) ISSN 1110 –1131.

Mohamed E. Megahed. 2011. A pilot study of low-cost feed technology for shrimp production using fish processing by-products (fpbps). . *Egypt J. Aquat. Biol. & Fish.*, Vol.15, No.3: (2011) ISSN 1110 –1131.

Mohamed E. Megahed. 2011. Sustainable marine fisheries using bycatch reduction device in shrimp trawl fishery. *Egypt. J. Aquat. Biol. & Fish.*, Vol. 15, No. 3: (2011) ISSN 1110 – 6131.

Mohamed E. Megahed. 2011. Reducing discards of marine fisheries by trawl modification. *Egypt. J. Aquat. Biol. & Fish.*, Vol. 15, No. 3: (2011) ISSN 1110 – 6131.

MOHAMED E. MEGAHED. 2010. THE EFFECT OF MICROBIAL BIOFLOC ON WATER QUALITY, SURVIVAL AND GROWTH OF THE GREEN TIGER SHRIMP (*Penaeus semisulcatus*) FED WITH DIFFERENT CRUDE PROTEIN PELLETS. *JOURNAL OF THE ARABIAN AQUACULTURE SOCIETY*, Vol.5 No.2. December, 2010.

Mohamed E. Megahed. 2010. DNA Fingerprinting Of Some Tilapia Fish in Suez Canal Zone. *Egyptian Journal of Aquatic Research*. Article in press. Paper published in the 4th International Conference on Aquatic Resources “Preservation, Protection and Development” ICAR-10. 7th -9th December, 2010, Alexandria, Egypt. Book of Abstracts pp.57.

Mohamed E. Megahed, Morten Rye, Peter Bossier. 2010. SELECTION FOR IMPROVED DISEASE RESISTANCE IN NILE TILAPIA (*Oreochromis niloticus*). *Middle East & North Africa Journal of Animal Science*. Issue No. 12962, Vol. No.2. Special Issue for the 3rd Global Fisheries and Aquaculture Research Conference, Egypt. Proc. of the 3rd Global Fisheries & Aquaculture Research Conference, pp.98-116. 29th November – 1st December, 2010.

Mohamed E. Megahed. 2010. ENVIRONMENTAL IMPACT ASSESSMENT OF MARINE SHRIMP FARMING PROJECTS: A CASE STUDY OF A SHRIMP FARM IN EGYPT. Middle East & North Africa Journal of Animal Science. Issue No. 12962, Vol. No.2. Special Issue for the 3rd Global Fisheries and Aquaculture Research Conference, Egypt. Proc. of the 3rd Global Fisheries & Aquaculture Research Conference, pp.24-40. 29th November – 1st December, 2010.

Mohamed E. Megahed. 2010. DOMESTICATION OF *Penaeus semisulcatus* IN EGYPT. I- HATCHERY PERFORMANCE. Middle East & North Africa Journal of Animal Science. Issue No. 12962, Vol. No.2. Special Issue for the 3rd Global Fisheries and Aquaculture Research Conference, Egypt. Proc. of the 3rd Global Fisheries & Aquaculture Research Conference, pp.41-50. 29th November – 1st December, 2010.

SALAH M ALY AND MOHAMED E. MEGAHEDE. 2009. IMPROVING DISEASE RESISTANCE OF CULTURED FISH THROUGH SELECTION PROGRAMS (AN OVERVIEW). *Abbassa International Journal for Aquaculture*, ISSN 1687-7683, Special Issue for Global Fisheries & Aquaculture Research Conference, Cairo International Convention Center, 24 – 26 October 2009 pp 387 – 405.

MOHAMED E. MEGAHEDE AND SALAH M. ALY. 2009. CHALLENGES FACING MARINE AQUACULTURE AND REQUIREMENTS FOR DEVELOPMENT IN EGYPT. *Abbassa International Journal For Aquaculture*, ISSN 1687-7683, Special Issue for Global Fisheries & Aquaculture Research Conference, Cairo International Convention Center, 24 – 26 October 2009 pp 505 – 527.

MOHAMED E. MEGAHEDE AND SALAH M ALY.2009. DOMESTICATION AND SPECIES DIVERSIFICATION TO IMPROVE MARINE AQUACULTURE IN EGYPT (A PROSPECTIVE VIEW). *Abassa International Journal For Aquaculture*, ISSN 1687-7683, Special Issue for Global Fisheries & Aquaculture Research Conference, Cairo International Convention Centre, 24 – 26 October 2009 pp 529 – 546.

MOHAMED E. MEGAHEDE AND SALAH M ALY. 2009. ARTIFICIAL FEED AND FEED TECHNOLOGY FOR MARINE FINFISH AND SHELLFISH LARVAE - A REVIEW. *Abbassa international journal for aquaculture*, ISSN 1687-7683, Special Issue for Global Fisheries & Aquaculture Research Conference, Cairo International Convention Center, 24 – 26 October 2009 pp 647 – 663.

SALAH M ALY AND MOHAMED E. MEGAHEDE. 2009. HEALTH MANAGEMENT IN MARINE FISH AND SHRIMP HATCHERIES WITH SPECIAL REFERENCE TO IMMUNOSTIMULANTS (AN OVERVIEW). *Abbassa International Journal For Aquaculture*, ISSN 1687-7683, Special Issue for Global Fisheries & Aquaculture Research Conference, Cairo International Convention Center, 24 – 26 October 2009 pp 547 – 569.

INTERNATIONAL SCIENTIFIC VISITS

- 2014 **Visit to Indonesia** and training program at ministry of agriculture and ministry of fish resources. Visit to Karawng fish and shrimp farms.
- 2008and **Visit and training in** Mussels and Oyster production hatcheries in Netherlands, 2013 Holland.
- 2008 **Visit and training in** marine fish hatchery and farm in France.
- 2008 **Visits to bivalve**, Manila clam, and abalone farm in Italy.
- 2007 and **Visits to Atlantic salmon** hatchery and cage culture farms in Norway. 2008
- 2008 **Visits to Carp, Pike**, and Sturgeon farms and Hatcheries in Hungary.

SPECIAL EQUIPMENTS HANDLED

- Gel electrophoresis (Horizontal – Vertical units)
- Spectronic GENESYS 5 – Milton Roy.
- Centrifugal Ball Mill, S1000 – Retsch.
- ELISA Reader-352- Labsystems-Multiscan.
- DNA Engine-PTC 200- Peltier Thermal Cycler-MJ Research & Eppendorf Theromcyler PCR, Real time PCR.
- ALF Sequencer (Pharmacia).
- DNA Microaray Generation II (DNA Spotter & DNA Scanner).

PERSONAL REFERENCES

Dr Nigel Preston
Theme Leader - Breed Engineering; CSIRO Food Futures National Flagship
PO Box 120, Cleveland, Qld 4163
Ph: +617 38267221
Fax: +617 36267220
Mobile: 0417733184
Nigel.Preston@csiro.au

Dr. Morten Rye, Scientific Director
Akvaforsk Genetics Center AS (AFGC)
N-6600 Sunndalsora, Norway
Ph.: +47 71695326 / +47 952 13271
Fax: +47 71695301
Email: morten.rye@afgc.no
Web: www.afgc.no
Skype-ID: mortry

Dr. Harrison Charo
Program coordinator Aquaculture (Inland waters),
Kenya Marine and Fisheries Research Institute, KSUMU CENTRE
P.O.Box 1881, KISUMU, Kenya.
Mobile: +254 72 5555 143
harrison.charo@gmail.com



Arab Republic of Egypt

Suez Canal University

Faculty of Environmental Agricultural Sciences

Post graduate Studies Department

Certificate

The Faculty of Environmental Agricultural Sciences

Suez Canal University

Certifies

That: Mohamed El Sayed Mohamed Ahmed Megahed

Born in Ismailia on 1st April, 1977

Has awarded PhD in Environmental Agricultural Sciences

(Fish Resources and Aquaculture)

On 3rd October, 2013

Thesis Title

**APPLICATION OF GENETIC AND BOTECHNOLOGY IN
AQUACULTURE DEVELOPMENT OF MARINE SHRIMP IN EGYPT**

Registrar

EMAN

Vice Dean

For Post-Graduate Studies

M. Yasser
A. I. El-Hussain





Transcript
Arab Republic of Egypt
Suez Canal University

FACULTY OF ENVIRONMENTAL AGRICULTURAL SCIENCES
 POST GRADUATE STUDIES DEPARTMENT

CERTIFIES
THAT: MOHAMED EL SAYED MOHAMED AHMED MEGAHED
 Born in Ismailia on 1st April, 1977
 Has awarded PhD in Environmental Agricultural Sciences
 (Fish Resources and Aquaculture)
 On 3rd October, 2013
 Thesis Title
APPLICATION OF GENETIC AND BOTECHNOLOGY IN
AQUACULTURE DEVELOPMENT OF MARINE SHRIMP IN EGYPT

Subject	Credit	Grade	Subject	Credit	Grade
Food Quality Control	2	Excellent	Advanced Fish Population	3	Excellent
Artificial Spawning	3	Excellent	Computer	-	Good
Management and Development of Fish Farms	3	Excellent	German Language	-	Excellent
Fish and Seafood Technology	3	Excellent	Fish Breeding	3	Very Good
Feed additives	3	Excellent	Research Discussion	5	Excellent
Marine Fishes Production	3	Very good	Special Studies	1	Excellent
Fish Farms Biology	3	Very good		3	Excellent
Intensive Fish Farming	3	Excellent			

Registrar
EMAD

Vice Dean
For Post -Graduate Studies

A. I. El-Kassar





Arab Republic of Egypt - Suez Canal University
 FACULTY OF AGRICULTURE, POST GRADUATE STUDIES DEPARTMENT

CERTIFICATE

The Faculty Of Agriculture, Suez Canal University Certifies

That Mohamed EL. Sayed Mohamed Ahmed Born in Ismailia On 1 / 4 / 1977

Was awarded M . Sc . Degree in Agricultural Sciences

On 4 / 11 / 2007 in (fish Production)

The Title of His Thesis

"DNA Fingerprinting of Some Tilapia Fish in Suez Canal Zone "

Registrar
Kails Mors



Vice Dean
Z.A. EL SH
 For Post Graduate Studies



Dean
L.N. Ali
 12/11/2007

Date 11 / 11 / 2007

[Handwritten signatures and dates]



To Whom It May Concern

This certifies that **Mohamed EL Sayed Mohamed Ahmed Megahed** was admitted to the Master Degree (M. Sc) in Agricultural Science on 4 of November 2007 ,, Department of (fish Production)The thesis is entitled (DNA Fingerprinting of Some Tilapia Fish in Suez Canal Zone) Following is a list of courses and grades obtained during his study:

Subjects	Units	Grades
Fish Biology (Advanced)	3	Excellent
Fish Physiology (Advanced)	3	Good
Crustacean and Fish Breeding(Advanced)	3	pass
Fish Feeding Advanced	3	pass
Fish Culture	3	Very Good
Fish Diseases (Advanced)	3	Excellent
Genetics of Immunity	3	Excellent
Design of Animal Production Experiments	3	pass
Special Studies	3	pass
Research	5	Excellent
Discussions	6	Very Good
Biochemical Genetics / Advanced	3	Very Good
Molecular Genetics	3	Excellent
Cytogenetics / Advanced	3	Excellent
Computer	-	pass
English Language	-	Excellent

One unit equals to one hour for a theoretic lecture or tow hours for lab practices every week , per a semester (15 weeks).

Charge of
Paula Mosa

Date 1 / 7 / 2008

Vice Dean
For
Post Graduates Affairs

Z. A. El Sh
Prof. Dr Zakarya El- Shamei



بسم الله الرحمن الرحيم
15/7/08

Cup
15/7/08

15/7/08



Faculteit Bio-ingenieurswetenschappen

De Rector van de Universiteit Gent verleent aan

Mohamed Elsayed Megahed

geboren op 1 april 1977

te Ismailia (Egypte)

de academische graad van

Master of Science in Aquaculture

behaald

op voldoende wijze

De houder van deze graad mag de titel voeren van master.

Het diploma wordt uitgereikt en de opleiding is geaccrediteerd conform het Decreet van 4 april 2003 betreffende de herstructurering van het hoger onderwijs in Vlaanderen.

Deze opleiding in het academisch onderwijs behoort tot het studiegebied 'Toegepaste Biologische Wetenschappen'.

De studieomvang van de opleiding bedraagt 120 studiepunten. Het diploma en het diplomasupplement vormen één geheel.

00707923 / D0017590

Gegeven te Gent, 16 september 2011

Prof. dr. Paul Van Cauwenberge,
Rector Universiteit Gent

MASTER in AQUACULTURE

Ghent University
Faculty of Agricultural and Applied Biological Sciences
Department of Animal production

Academic year 2010-2011



Certificate of participation

(120 ECTS)

Awarded to: **Mohamed EL Sayed Mohamed Ahmed Megahed**

Born on: **01/04/1977** at: **Ismaimia (Egypt)**

Who has participated to all lectures, group discussions, practices, excursions and other activities executed in the context of this Course programme

The Course Director



Prof. dr. P. SORGELOOS

LABORATORY OF AQUACULTURE
& ARTEMIA REFERENCE CENTER
GHENT UNIVERSITY
Rozier 44 - 9000 Gent - Belgium
Tel. +32 09 264 37 54
Fax +32 09 264 41 93

Mr. Mohamed Elsayed Megahed
Artemia Reference Center
Rozier 44
9000 A Gent

your reference

our reference

date

contact

e-mail

tel. and fax

STU/IH/B1382/07 00707923

29/05/2008

admission.studadmin@UGent.be

Dear Mr. Megahed,

I am pleased to inform you that the Faculty of Science in its meeting of 30 April 2008 has favourably advised on your application for admission to the **Master of Statistical Data Analysis**

on the basis of your diploma:

Master Science Degree in Agricultural Sciences
(2000, Suez Canal University, Egypte).

Therefore I let you know that:

- considering article 3 of the special decree of 26 June 1991 relative to the Ghent University;
 - considering article 69 of the decree of 4 April 2003 concerning Higher Education in the Flemish Community
 - considering the decision taken by the Executive Committee of the Ghent University on 16 May 1997;
- you have been officially admitted to the studies mentioned above for the academic year 2008-2009.

This admission does not imply the grant of a scholarship by the Ghent University. The Ghent University will not contribute towards travel expenses or study and accomodation costs. A fifth enrolment for the same level of study will not be accepted.

In order to be registered, you should address yourself to the department Studentenadministratie Oud Rectoraat, Sint-Pietersnieuwstraat 25, B-9000 Gent.

You should bring with you:

- this letter;
- your passport or a valid identity card;

Wishing you all the best with your studies at the Ghent University.

Yours sincerely,



Prof. Paul Van Cauwenberge
Rector.

cc. prof. dr. H. Dejonghe
Dean of the Faculty of Science

Mr. Mohamed El Sayed Megahed
Delta Sharm, Villa 106,
Sharm El- Sheikh,
South Sinaim
Egypt

uw kenmerk

ons kenmerk

datum

January 29, 2010

contactpersoon

e-mail

stijn.vansteelandt@UGent.be

tel. en fax

T +32 9 2644776

F +32 9 2644995

To whom it may concern:

This letter is to certify that Mr. Mohamed El Sayed Megahed has attended the lectures and lab sessions, and made the homeworks on Principles of Statistical Data Analysis, Statistical Computing, Analysis of Continuous Data and Categorical Data Analysis in the Master program in Statistical Data Analysis in the academic year 2008-2009.

Sincerely,



Prof. Dr. Stijn Vansteelandt

Secretary of the Exam Committee

SAS Institute nv/sa
Hertenbergstraat 6
B-3080 Tervuren
BTW BE 0434.697.184 RPR Leuven



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Page 1
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Client: -
Mohamed Megahed

Postal address:
Mohamed Megahed
Stalhof 6 - kamer 442
9000 Gent

Omschrijving / Désignation / Description:	
Course fee for Participant(s) : Mohamed Megahed	
Training: Certification " Base SAS Programming" at University Gent - February 20, 2009	
BTW-basis Base de TVA Net Amount	20,66 EUR
BTW TVA 21% VAT	4,34 EUR
Totaal Total	25,00 EUR

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To Whom May be Concern

Certificate of achievement:

This is to certify that eng. Mohamed El-Sayed Megahed joined us as a research Technician in Genetic Department, Aquaculture Discipline at WorldFish Center since early of 2005 till end of September 2007. He has done a great and professional job during that period and has achieved the majority of his responsibilities with maximum capacity. His work during this period could be summarized in the following:

During 2005:

- Assist the project manager in research on selective breeding of Nile tilapia through working in production of required families, rearing, and tagging.
- Assist the project manager in research on selective breeding of African catfish via performing in tagging, stocking, monitoring, and harvesting the evaluated catfish
- Assist in monitoring and sampling of field evaluation of mass-selected Nile tilapia by completion of testing in designated sites, data collection and analysis.

During 2006:


- Assist the project manager in research on selective breeding of Nile tilapia where production of required families, rearing, and tagging were done.
- Assist the project manager in research on selective breeding of blue tilapia by his assist in production of required families, rearing, and tagging.
- Assist the project manager in research on selective breeding of African catfish via work in tagging, stocking, monitoring, and harvesting the communally evaluated catfish.
- Assist in monitoring and sampling of field evaluation of mass-selected Nile tilapia through completion of testing in designated sites, data collection and analysis.


During 2007:

- Assist the project manager in research on selective breeding of Nile tilapia in which production of required families, rearing, and tagging were achieved.
- Assist the project manager in research on selective breeding of blue tilapia by production of required families, rearing, and tagging.
- Assist the project manager in research on selective breeding of African catfish through tagging, stocking, monitoring, and harvesting the communally evaluated catfish.
- Assist in monitoring and sampling of field evaluation of mass-selected Nile tilapia via completion of testing in designated sites, data collection and analysis.

I strongly recommend him for any specialized project or job in the field of genetics and aquaculture. This certificate was given to him based on his request, without any official or private responsibility to the WorldFish Center.

Sincerely


Dr. Salah Mesalhy Aly,
Head of Fish Health Dept, WorldFish Center,
Program Leader of Fish Health for Africa & West Asia
Abbassa, Sharkia, Egypt.



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Office: Giza, El-Dokki, Heliopolis, Sharkia, 44662 Egypt

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FAX: (+20-55) 340 5578

MAIL: PO Box 1261 Maadi 11726, Cairo, Egypt

EMAIL: worldfish-egypt@cgiar.org



TO WHOM IT MAY CONCERN

This is to certify that Mr. Mohamed Elsayed Mohamed Ahmed Megahed (Emp. No. 3947), Egyptian Nationality bearing Passport No. 1326174 is working in our Organization since 25th February 2004 till to date as a Aquaculture Geneticist. His job description and responsibilities are;

Collection and maintenance of shrimp breeding data, including the following:

- Maintenance of Breeding program databases and programs; Preparation of Raw data in excel spread sheets for entry into breeding program databases;
- Generation of data reports to Departmental Manager and external consultant from databases;
- Field collection of machine-readable shrimp measurements and samples and downloading of automatic temperature data;
- Generating Mathematical Breeding value calculations; Preparation of Excel and PowerPoint Presentations as required; Maintenance of Breeding program pedigree program (lineage) including the incorporation of data on inbreeding and performance traits;
- Taking of laboratory and field collection data on selection intensities, morph metrics, family survival and growth ;
- Shrimp Tagging using approved tag codes and calculation of tag retention values and tag related mortalities;
- Tissue collection for sending to Trent University for DNA analysis, checking and data logging of samples, storage and packing of samples and preparation of sample submission sheet.
- Downloading of Micro satellite data from website and conversion into format for entry into breeding program databases;
- Calculation of Degree Day, Selection intensity, measurement errors and other statistical calculations as required;
- Preparation of data from breeding, morph metric, temperature, challenge tests etc. in excel spreadsheets for import into breeding program databases;
- Generating Breeding value calculations;
- Assisting BBC manager in the preparation of a monthly report detailing breeding program progress;
- Preparation and or presentation of Briefing Documents in English and or Arabic in Word, Excel, PowerPoint or Lineage as required

This certificate being issued to Mr. Mohamed Elsayed Mohamed Ahmed Megahed upon his request without any liability to the Company.

Thanking you

Ali Shaya Al Qahtani
Manager Head Office





To whom it may concern,

This is to confirm that Mr Mohamed Elsyed Mohamed Ahmed Megahed (Sayed) was a member of a research team at the National Prawn Company in Saudi Arabia that worked on research collaboration with the Australian Commonwealth and Scientific Organisation (CSIRO) on a shrimp genetic improvement project.

In this project Sayed was responsible for a number of tasks, including collection of field and laboratory samples, data entry and database management, generating breeding values and assisting the interpretation and presentation of these data. In all these tasks Sayed demonstrated a high level of technical competence and a very professional attitude. I would have no hesitation in recommending Sayed as a team member or team leader in aquaculture genetics research and development.

Yours sincerely

Nigel Preston

A handwritten signature in black ink that reads 'Nigel Preston'.

Dr Nigel Preston
Theme Leader
Breed Engineering
CSIRO Food Futures Flagship

nigel.preston@csiro.au

Phone: +61 7 3826 7221
Mobile: 0417 733 184



**MINISTRY OF EDUCATION & TRAINING
CAN THO UNIVERSITY**

Campus 2, Can Tho University, 3/2 street, Can Tho city, Viet Nam
Tel: 84710 835701 . Fax: 84710 830323 - Email: ntp@ctu.edu.vn
Website: <http://www.ctu.edu.vn/aquaculture>

Can Tho, June 26th, 2008

To: Mohamed Megahed
Aquaculture Master student
Ghent University, Belgium

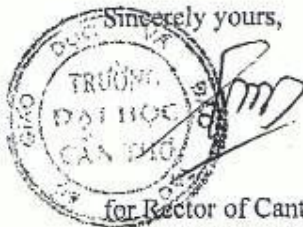
Ref: Invitation letter for Internship program at the College of Aquaculture and Fisheries,
Cantho University, Vietnam

Dear Mr. Mohamed Megahed

The Dean of the College of Aquaculture and Fisheries of Cantho University officially invites Mr. Mohamed Megahed, Master student of Ghent University, Belgium, who is under supervision of Prof. Patrick Sorgeloos, to come to Can Tho University during the period from August 25th to October 5th, 2008 for internship program. This program is connected to the framework of the ongoing cooperation project between Cantho University and Ghent University.

You are requested to register under our Tropical semester program when arriving Can Tho University. You are responsible for all costs related to your study at Can Tho University including international and local travel costs, accommodation, laboratory costs (if any), tuition fees, etc..

Sincerely yours,



for Rector of Cantho University
Dean, College of Aquaculture & Fisheries
Assoc. Prof. Dr. Nguyen Thanh Phuong

Please visit the website of the tropical semester: www.ctu.edu.vn/tropmester for more information. If you have any questions, don't hesitate to contact my secretary, Ms Nguyen Thi Ngoc Lien, by e-mail ntnlien@ctu.edu.vn



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CERTIFICATE

Creating Capacities for Change

Centre for Development Innovation (CDI), Wageningen UR hereby certifies that

Mohamed Elsayed Mohamed Ahmed Megahed

Has successfully completed the international course on

Fisheries Governance

Dealing with the dynamics in fisheries

Held at CDI, Wageningen, The Netherlands, 21 October – 8 November 2013

Wageningen, 8 November 2013

J.C. Verdaas PhD
Director
*Centre for Development
Innovation, Wageningen UR*

Ir. G.J.M. Gevers
Course Coordinator
*Centre for Development
Innovation, Wageningen UR*

CERTIFICATE

Certifies that **Mohamed El sayed MEGAHERD**

Born on **April 1, 1977** in **Ismailia, EGYPT**

has completed the requirements of

**The MSM Executive
Program in Management**

Specialization: **Training for Impact**
June 16 – July 4, 2014

For the Board of Trustees of the
Maastricht School of Management
The Netherlands, June 20, 2014



Dean Director



Program Manager

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UKRAINIAN ACADEMY OF AGRARIAN SCIENCES

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tel. (044) 423-74-61

fax. (044) 423-74-74

E-mail ifr@mail.kar.net

№ _____

На № _____

Mohamed EL Sayed Mohamed Ahmed
Megahed

Research Assistant,

Aquaculture and Genetic improvement,
The WorldFish Center, (Regional Research
Center for Africa and West Asia),
Abbassa, Abou Hammad, Sharkia,
44662- Egypt

Letter of commendation

To Whom It May Concern

Dear. Mr. Mohamed Megahed,

I, **Vitaliy Bekh** from the **Institute of Fisheries UAAS, Ukraine** hereby write this commendation letter after several positive comments made by colleagues after attending your second to none among the brilliant Lectures ever received at WorldFish Centre during the training course on **Fish Culture Development)EICA /WorldFish Training Program**, done in Collaboration between EICA (Egyptian International Center for Agriculture) and WorldFish Center.

I have no doubt in my mind that you are a 'real germ' in this centre. I wish to advise that you keep-on this laudable spirit. I therefore send this letter of commendation as a mark of appreciating your efforts and manner of handling various Lectures given to you to deliver in the dept. of Aquaculture Genetics and Breeding, WorldFish Center, Egypt.

I thank you very immensely and profoundly.

Thanks.

Best regards

Deputy Director



Vitaliy Bekh



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Dr. Robert D. Havener
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*Former President,
The World Bank*

M. Peter McPherson
*Founding Co-Chair,
Partnership to End Poverty &
Hunger in Africa*

Cynthia H. Milligan
*Dean, College of Business
Administration,
University of Nebraska*

Jonathan P. Taylor
*Chairman,
The Booker Prize*

November 14, 2006

*Mr. Mohamed E.L. Sayed Mohamed Ahmed Megahed
Research Technician
Aquaculture and Genetic Improvement
The WorldFish Center (Regional Research Center for Africa and West Asia)
Abbassa, Abou Hammad, Sharkia
44662- Egypt*

Dear Mr. Mohamed Megahed:

I am writing to express my gratitude for the instruction that you provided me during my internship at the WorldFish Center during the summer of 2006. I am especially grateful for your role in expanding my knowledge of Genetics and Genetics research. As a result of the instruction that you provided me, I am able to visually identify different species and sexes of Tilapia and to properly tag Oreochromis niloticus for research. My current knowledge of how to properly spawn pairs of Tilapia is in part a result of the instruction that I received from you. I also learned a great deal of Genetics theory while shadowing your department at the WorldFish Center.

I thank you for the selfless devotion to my learning that you showed during my internship at the WorldFish Center and for the excellent instruction that you provided to me.

*Sincerely,
*

*Stephen Lauer
2006 World Food Prize Borlaug-Ruan International Intern*

1987, India
Dr. M.S. Swaminathan

1988, United States
Dr. Robert P. Chandler, Jr.

1989, India
Dr. Verghese Kurian

1990, United States
Dr. John Niederhauser

1991, United States
Dr. Nevin S. Scrimshaw

1992, United States
Dr. Raymond C. Bushland
Dr. Edward F. Kupling

1993, China
The Hon. Hu Kang

1994, Bangladesh
Dr. Muhammad Yunus

The World Food Prize Laureates

1995, Switzerland
Dr. Hans R. Herren

1996, India
Dr. Gaurdev Khush

1996, United States
Dr. Henry Beachell

1997, United States
Dr. Perry L. Adkisson
Dr. Ray F. Smith

1998, India
Dr. B.R. Barwale

1999, United Kingdom
Dr. Walter Plowright

2000, India/Mexico
Dr. Sumnder K. Vaid
Dr. Evangelina Villegas

2001, Denmark
Dr. Per Pinstrup-Andersen

2002, United States/Cuba
Dr. Pedro A. Sanchez

2003, United Nations/USA
The Hon. Catherine Bertini

2004, Sierra Leone/China
Dr. Monty P. Jones
Professoe Yuan Longping

2005, India
Dr. Madadugu Gupta



Ministry of Agriculture, Forests and Rural Development

National Agency for Fishing and Aquaculture

TEL: 0040 0213078638; FAX: 0040 0213078639

To Whom It May Concern

I am writing this letter in support of:

*Mr. Mohamed El Sayed Mohamed Ahmed Megahed – Research Technician –
WorlFish Center*

I have known Mr. Megahed during the period I was in Egypt for training program at the EICA (Egyptian International Center for Agriculture), the training done at the WorldFish Center (15-23 november 2005). He gives me training on the Characterization of Tilapia species and Fish Tagging technology.

He is well known to me throughout his service, he proved to be energetic, trustworthy and able conscientious worker. He is imitative and has plenty of strong sense of responsibilities and knows how to handle staff. His character is exemplary. I recommend him to you with complete confidence and wish him the best luck in his practical life.

20.07.2006, Bucharest, Romania

Best regards

Mirela Danciu

Assistant Counselor

Ministry of Agriculture, Forests and Rural Development





Dr. George John
Senior Aquaculture Scientist

26 September 2006

To whom it may concern

Mohamed El Sayed Mohamed Ahmed Megahed has been working with the Fish Genetics group at WorldFish, Regional Research Center, Abbassa as a research technician since April 2005. I have observed him to be a very hardworking and reliable person. His support to the breeding programs has been significant. His grasp of the technical aspects of the breeding program is quite impressive. He is industrious and displays a keenness to learn. I consider him a very promising young man who is an asset in any the team.

I wish him all the best in his endeavors.


26/9/06
George John



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