

CV of Triantafyllidis Alexandros

A. PERSONAL DATA

First and Last Name: **Alexandros Triantafyllidis**
Date of Birth: 25th September 1972
Place of Birth: Thessaloniki, Greece
Contact Address: Dept. Genetics, Development and Molecular Biology
School of Biology
Aristotle University of Thessaloniki
54124 Thessaloniki, Greece
Position: **Assistant Professor in “Animal Population Genetics”**
Telephone: +302310998545
FAX: +302310998374
e-mail: atriant@bio.auth.gr

B. STUDIES- SCHOLARSHIPS

1989: **Certificate of Proficiency in English** (University of Cambridge), Grade B.
1990: **Apolytirio** (graduation) from the 14th Lyceum of Thessaloniki. Participated in the general examinations to enter the university, having as first preference the School of Biology of the Aristotle University of Thessaloniki. Entered first in rank with grade 606/640 and accepted a scholarship from the National Scholarships Fund. This scholarship was renewed each year on the basis of excellent performance in course work.
1993: **Zertifikat Deutch**, Grade B.
1994: **Graduate Degree**, School of Biology, Aristotle University of Thessaloniki, grade 9.45/10 (Top 5 out of all Biology graduate students of the School).
1999: **PhD thesis**, "Study of the genetic structure of the two Silurid species (**Pisces, Siluridae**) of Greece" under the supervision of Dr I. Karakousis (initially) and Dr TJ Abatzopoulos (subsequently) in the Dept of Genetics, Development and Molecular Biology, School of Biology, Aristotle University of Thessaloniki.

C. CAREER/ EMPLOYMENT:

1994 -1998: **Graduate Research Assistant**
2000 -2002: **Postdoctoral Fellow**
2003 -2008: **Lecturer of “Animal Population Genetics”** in School of Biology, Aristotle University of Thessaloniki, Macedonia, Greece.
2008-2011: **Assist. Professor of “Animal Population Genetics”** in School of Biology, Aristotle University of Thessaloniki, Macedonia, Greece.

D. SPECIALISATION:

My research interests comprise of a number of topics all related to the application of population genetics in the conservation of animal species. These activities have been realised until now mostly with neutral molecular markers (mitochondrial DNA and microsatellites) but the use of technologies related to functional genomics is slowly advancing (such as SNP markers and Next Generation Sequencing data). In more detail the following topics are of my interest

i) Linking genetic diversity with animal traits: The identification of population genetic structure in animals (such as snails) and the characterization of the related life history variation in order to assess potential local adaptations and the role of selection.

ii) The evolutionary history of Greek species: Research activities always aim at a more thorough understanding of the genetic structure of Greek animal species taking into consideration the placement of Greece as a geographic bridge between Europe and Asia and the fact it has proven to be one of the major refuges for European fauna in glacial times.

iii) Food safety and traceability: Strengthening and extension of existing molecular (barcoding) databases for fish traceability.

iv) The genetic impact of farmed populations on wild populations This is done both at the level of game farmed populations (partridges, brown hares and wild boars) but also for fish species; the most appropriate models to study the impact of domestication in this case are gilthead seabream, and seabass which make up most of the Mediterranean Aquaculture.

E. SPECIAL RESEARCH EXPERIENCE - TRAINING

1993-1994: Elaboration of a project regarding the "Construction of a genomic library of *Drosophila auraria*" under the supervision of Dr Z Scouras in the Dept of Genetics, Development and Molecular Biology, School of Biology.

1994-1999: Worked on the PhD thesis using mainly the techniques of i) starch gel electrophoresis of enzymatic proteins ii) Restriction Fragment Length Polymorphism of mt DNA and iii) microsatellite variation analysis.

1995: (December) Training stage in cytogenetics (application of banding techniques to catfish chromosomes) and in molecular biology in the laboratories of the Museum of Natural History (Paris), under the supervision of Prof. R. Billard and Dr. C. Costaz - Ozouf and INRA (Jouy en Josas) under the supervision of Dr R. Guyomard.

1997: (September – November) Worked on the microsatellite analysis of the Greek *Silurus* populations in the laboratory of Genetique des Poissons at INRA, Jouy-en-Josas, France under the supervision of Dr R. Guyomard and Dr A. Estoup.

1998 (20-31 March): *Advances in Molecular Ecology* Advanced Study Institute, NATO (Erice, Sicily), Italy.

1999: (April) Work on the statistical analysis of microsatellite and mitochondrial DNA data of *Silurus* populations in the laboratory of Genetique des Poissons at INRA, Jouy-en-Josas, France under the supervision of Dr R. Guyomard.

2002 (April), 2003 (February & July): Training on cloning and automated DNA sequencing techniques in the school of Biology, University of Oviedo, Spain under the supervision of Dr E. Garcia-Vazquez.

2006: Conservation Genetics Data Analysis Course. Recent Approaches for Estimation of Population Size, Structure, Gene flow, Parentage, & Selection Detection. Porto, Portugal

2008: (June) 3 week AQUAGENOME scholarship for training in SNP data mining and applications under the supervision of Prof P Volckaert, University of Leuven, Belgium

2010: One year sabbatical training on genomic analyses of next generation sequencing data (Leuven, Belgium).

F. SUMMARY of ACHIEVEMENTS

Participation in European Funded Projects:	7
Participation in National Funded Projects:	8
Coordinator in National Funded Projects:	4
Number of Publications in Science Citation Index Journals:	42
Total Impact Factor	97.328
Number of Citations in Science Citation Index Journals:	408
H-Index:	12
Number of Communications to Scientific Congresses:	98
Participation in International Congresses:	31
Participation in National Congresses:	14
Referee for Science Citation Index Journals:	53

G. PUBLICATIONS

1. Mamouris Z., Apostolidis A., **Triantafyllidis A.**, Economidis P. & Triantaphyllidis C. (1998). Relationship between morphometric and genetic variation in red mullet (*Mullus barbatus*) populations from Greek Seas. *Folia Zoologica* 47, 295-303.
2. **Triantafyllidis A.**, Ozouf-Costaz C., Rab P., Suciú R. & Karakousis Y. (1999). Allozyme variation in European silurid catfishes, *Silurus glanis* and *Silurus aristotelis*. *Biochemical Systematics & Ecology* 27, 487-498.
3. **Triantafyllidis A.**, Abatzopoulos T.J. & Economidis P.S. (1999). Genetic differentiation and phylogenetic relationships among Greek *Silurus glanis* and *Silurus aristotelis* (Pisces, Siluridae) populations, assessed by PCR-RFLP analysis of mitochondrial DNA segments. *Heredity* 82, 503-509.
4. Krieg F., Estoup A., **Triantafyllidis A.** & Guyomard R. (1999). Isolation of microsatellite loci in European catfish, *Silurus glanis*. *Molecular Ecology* 8, 1964-1966.
5. Krieg F., **Triantafyllidis A.** & Guyomard R. (2000). Mitochondrial DNA variation in European populations of *Silurus glanis*. *Journal of Fish Biology* 56, 713-724.
6. **Triantafyllidis A.**, Krieg F., Cottin C., Abatzopoulos T.J., Triantaphyllidis C. & Guyomard R. (2002). Genetic structure and phylogeography of European catfish (*Silurus glanis*) populations. *Molecular Ecology* 11, 1039-1055.
7. **Triantafyllidis A.**, Abatzopoulos T.J., Leonardos J. & Guyomard R. (2002). Microsatellite analysis of the genetic population structure of native and translocated Aristotle's catfish (*Silurus aristotelis*). *Aquatic Living Resources* 15, 351-359.
8. Karaïskou N., Apostolidis A.P., **Triantafyllidis A.**, Kouvatsi A. & Triantaphyllidis C. (2003). Genetic identification and phylogeny of three species of the genus *Trachurus* based on mtDNA analysis. *Marine Biotechnology* 5, 493-504.
9. Katsares V., Apostolidis A.P., **Triantafyllidis A.**, Kouvatsi A. & Triantaphyllidis C. (2003). Development of mitochondrial DNA primers for use with homarid lobsters. *Marine Biotechnology* 5, 469-479.
10. Abatzopoulos T.J., Triantaphyllidis G.V., Roedaki N., Baxevanis A.D., **Triantafyllidis A.** & Sorgeloos P. (2003). Elevated salinities may enhance the recovery of hydrated heat-shocked *Artemia franciscana* cysts (International Study on Artemia. LXV). *Belgian Journal of Zoology* 133, 105-111.
11. Karaïskou N., **Triantafyllidis A.** & Triantaphyllidis C. (2003). Discrimination of three *Trachurus* species using both mitochondrial and nuclear based DNA approaches. *Journal of Agricultural and Food Chemistry* 51, 4935-4940.
12. Gajardo G., Crespo J., **Triantafyllidis A.**, Tzika A., Baxevanis A.D., Kappas I. & Abatzopoulos T.J. (2004). Species identification of Chilean *Artemia* populations based on mitochondrial DNA RFLP analysis. *Journal of Biogeography* 31, 547-555.
13. Stamatis C., **Triantafyllidis A.**, Moutou K.A. & Mamuris Z. (2004). Mitochondrial DNA variation in Northeast Atlantic and Mediterranean populations of Norway lobster, *Nephrops norvegicus*. *Molecular Ecology* 13, 1377-1390.
14. Karaïskou N., **Triantafyllidis A.** & Triantaphyllidis C. (2004). Shallow genetic structure of three marine species of the genus *Trachurus* in European waters. *MEPS* 281, 193-205.
15. **Triantafyllidis A.**, Apostolidis A.P., Katsares V., Kelly E., Mercer J., Hughes M., Jørstad K.E., Tsolou A., Hynes R. & Triantaphyllidis C. (2005). Mitochondrial DNA variation in the European lobster (*Homarus gammarus*) throughout the range. *Marine Biology* 146, 223-235.
16. Baxevanis A.D., Triantaphyllidis G.V., Kappas I., **Triantafyllidis A.**, Triantaphyllidis C.D. & Abatzopoulos T.J. (2005). Evolutionary assessment of *Artemia tibetiana* (Crustacea, Anostraca) based on morphometry and 16S rRNA RFLP analysis. *Journal of Zoological Systematics & Evolutionary Research* 43, 189-198.
17. Papakostas S., **Triantafyllidis A.**, Kappas I. & Abatzopoulos T.J. (2005). The utility of the 16S gene in investigating cryptic speciation within the *Brachionus plicatilis* species complex. *Marine Biology* 147, 1129-1139.
18. Karaïskou N., **Triantafyllidis A.**, Margaroni M., Karatzas D. & Triantaphyllidis C. (2005). A double DNA approach for identifying *Macrorhamphosus scolopax* (Pisces, Centriscidae). *ICES Journal of Marine Science* 62, 1683-1690.
19. Leonardos I.D., Kagalou I., **Triantafyllidis A.** & Sinis A. (2005). Life history traits of Ylikiensis roach (*Rutilus ylikiensis*) in two Greek lakes of different trophic state. *Journal of Freshwater Ecology* 20, 715-722.
20. Papakostas S., Dooms S., **Triantafyllidis A.**, Deloof D., Kappas I., Dierckens K., ...Vadstein O., Kui S., Sorgeloos P. & Abatzopoulos T.J. (2006). Evaluation of DNA methodologies in identifying *Brachionus* species used in European hatcheries. *Aquaculture* 255, 557-564.

21. Stamatis C., **Triantafyllidis A.**, Moutou K.A. & Mamuris Z. (2006). Allozymic variation in Northeast Atlantic and Mediterranean populations of Norway lobster, *Nephrops norvegicus*. *ICES Journal of Marine Science* 63, 875-882.
22. Papakostas S., Dooms S., Christodoulou M., **Triantafyllidis A.**, Kappas I., Dierckens K., Bossier P., Sorgeloos P. & Abatzopoulos T.J. (2006). Identification of cultured *Brachionus* rotifers based on RFLP and SSCP screening. *Marine Biotechnology* 8, 547-559.
23. **Dooms S.**, Papakostas S., Hoffman S., Delbare D., Dierckens K., **Triantafyllidis A.**, ... Abatzopoulos T.J., Sorgeloos P. & Bossier P (2007). Denaturing gradient gel electrophoresis (DGGE) as a tool for the characterisation of *Brachionus* sp. strains. *Aquaculture*, 262 29–40.
24. Leonardos I., Kagalou I. & **Triantafyllidis A.** (2007). Threatened fishes of the world: *Silurus aristotelis* (Agassiz 1856) (Siluridae). *Environmental Biology of Fishes* 78, 285–286.
25. Ekateriniadou L.V., Panagiotidis C.H., Terzis A., Ploumi K., **Triantafyllidis A.**, Deligiannidis P., Triantaphyllidis C. & Sklaviadis T. (2007). Genotyping for PrP gene polymorphisms in rare Greek breeds of sheep. *Veterinary Record* 160, 194-195.
26. Papakostas S., De Wolf T., **Triantafyllidis A.**, Vasileiadou K., Kanellis D., Cecconi P., Kappas I. & Abatzopoulos T.J. (2007). Follow-up of hatchery rotifer cultures with regard to their genetic identity. *Journal of Biological Research* 7, 41-49.
27. **Triantafyllidis A.**, Leonardos I., Bista I., Kyriazis I.D., Stoumboudi M.Th., Kappas I., Amat F. & Abatzopoulos T.J. (2007). Phylogeography and genetic structure of the Mediterranean killifish *Aphanius fasciatus* (Cyprinodontidae). *Marine Biology* 152, 1159-1167.
28. Karaiskou N., **Triantafyllidis A.**, Alvarez P., Lopez P., Garcia-Vasquez E. & Triantaphyllidis C. (2007). Horse mackerel egg identification using DNA methodology. *Marine Ecology* 28, 429-434.
29. Vasileiadou K., Papakostas S., **Triantafyllidis A.**, Kappas I. & Abatzopoulos T.J. (2009). A multiplex PCR method for rapid identification of *B.rachionus* rotifers. *Mar. Biotechnology* 11, 53–61.
30. Karaiskou N., **Triantafyllidis A.**, Katsares V., Abatzopoulos T.J. & Triantaphyllidis C (2009) Microsatellite variability of wild and farmed populations of *Sparus aurata*. *Journal of Fish Biology* 74, 1816–1825.
31. Garcia-Vazquez E., Horreo J.L., Campo D., Machado-Schiaffino G., Bista I., **Triantafyllidis A.** & Juanes F. (2009). Mislabeling of two commercial North American hake species suggests underreported exploitation of offshore hake. *Transactions of the Amer. Fisheries Soc.* 138, 790-796.
32. Imsiridou A., **Triantafyllidis A.**, Baxevanis A.D. & Triantaphyllidis C. (2009) Genetic characterization of common carp (*Cyprinus carpio*) populations from Greece using mitochondrial DNA sequences. *Biologia* 64, 781-785.
33. Papakostas S., **Triantafyllidis A.**, Kappas I. & Abatzopoulos T.J. (2009). Clonal composition of *B. plicatilis* s.s. and *B. sp.* ‘Austria’ hatchery strains based on microsatellite data. *Aquaculture* 296, 15-20.
34. Karaiskou N., Moran P, Georgitsakis G., Abatzopoulos T.J. & **Triantafyllidis A.** (2010) High allelic variation of MHC class II alpha antigen and the role of selection in wild and cultured *Sparus aurata* populations. *Hydrobiologia* 638, 11-20. .
35. Garefalaki M.E., **Triantafyllidis A.**, Abatzopoulos T.J. & Staikou A. (2010). The outcome of sperm competition is affected by behavioural and anatomical reproductive traits in a simultaneously hermaphroditic land snail. *Journal of Evolutionary Biology* 23, 966-976.
36. **Triantafyllidis A.**, Karaiskou N., Perez J., Martinez J.L., Roca A., Lopez B. & Garcia-Vazquez E. (2010). Fish allergy risk derived from ambiguous vernacular fish names: Forensic DNA-based detection in Greek markets. *Food Research International* 43, 2214-2216.
37. Michaelidis B., Michailidis S., **Triantafyllidis A.** & Kyriakopoulou-Sklavounou P. (2010). Isoforms of enzymes of intermediated metabolism during the hibernation of the water frog *Rana ridibunda* *Journal of Biological Research* 14, 191–198.
38. Maniatsi S., Baxevanis A.D., Kappas I., Deligiannidis P., **Triantafyllidis A.**, Papakostas S., Bougiouklis D. & Abatzopoulos T.J. (2011). Is polyploidy a persevering accident or an adaptive evolutionary pattern? The case of the brine shrimp *Artemia*. *Molecular Phylogenetics and Evolution* 58, 353-364.
39. **Triantafyllidis A.**, Bobori D., Koliamitra C., Gbandi E., Mpanti M., Petriki O. & Karaiskou N. (2011) DNA barcoding analysis of fish species diversity in four north Greek Lakes. *Mitochondrial DNA* in press.
40. Garcia-Vazquez E., Perez J., Martinez J.L., Pardinas A.F., Lopez B., Karaiskou N., Casa M.F., Machado-Schiaffino G., **Triantafyllidis A.** (2011). High Level of Mislabeling in Spanish and Greek Hake Markets Suggests the Fraudulent Introduction of African Species. *Journal of Agricultural and Food Chemistry* 59, 475-480.
41. **Triantafyllidis A.**, Bobori D., Koliamitra C., Gbandi E., Mpanti M., Petriki O. & Karaiskou N. (2011) DNA barcoding analysis of fish species diversity in four north Greek Lakes. *Mitochondrial DNA* 22, 37-42.

42. Alexandri P., Triantafyllidis A., Papakostas S., Chatzinikos E., Platis P., Papageorgiou N., Larson G., Abatzopoulos T.J., Triantaphyllidis C. (2011). The Balkans and the colonization of Europe: the post-glacial range expansion of the wild boar, *Sus scrofa*. *Journal of Biogeography* (accepted).

H. SIGNIFICANT RESEARCH ACHIEVEMENTS IN THE LAST 10 YEARS

Evaluator for research proposals

Research Secretariat of Cyprus (1 proposal)

Research Secretariat of University of Patras, Greece (1 proposal)

Ministry of Education, Irakleitos Call, (3 proposals)

Research Foundation Flanders, Belgium (FWO) (2 proposals)

Reviewer for journals

1. Animal Biotechnology (1 paper)
2. Aquaculture (14 papers)
3. Aquaculture Research (2 papers)
4. Aquatic Conservation (1 paper)
5. Biochemical Genetics (1 paper)
6. Biochemical Systematics & Ecology (1 paper)
7. Biodiversity and Conservation (1 paper)
8. Biological Journal of the Linnean Society (3 papers)
9. Belgian Journal of Zoology (1 paper)
10. Conservation Genetics (2 papers)
11. Environmental Biology of Fishes (1 paper)
12. Fisheries research (1 paper)
13. Gene (1 paper)
14. Heredity (1 paper)
15. ICES Journal of Marine Science (4 papers)
16. Journal of Agricultural and Food Chemistry (1 paper)
17. Journal of Biogeography (1 paper)
18. Journal of Biological Research (5 papers)
19. Journal of Fish Biology (1 paper)
20. Journal of Zoological Systematics and Evolutionary Research (2 papers)
21. Landscape and Urban Planning (1 paper)
22. Marine Biotechnology (1 paper)
23. Marine Ecology Progress Series (1 paper)
24. Marine Genomics (1 paper)
25. Molecular Ecology (1 paper)
26. Molecular Ecology Resources (1 paper)
27. PLOS One (1 paper)
28. Zoological Science (1 paper)
29. Panhellenic Congress of Ichthyologists (3 papers)

Evaluator for the title of European PhD student

3 times (University of Oviedo)

Invited Talks in Conferences

2005: LARVI 2005, 4th Fish & Shellfish Larviculture Symposium (Ghent, Belgium).

2006: GENIMPACT International Workshop on "Genetic tools for monitoring aquaculture individuals in the wild" (Tenerife, Spain).

2007: CIESM Workshop on "Impact of Mariculture on Coastal Ecosystems" (Lisbon, Portugal).

2007: GENIMPACT International Symposium on "Genetic impacts from aquaculture: meeting the challenge in Europe" (Bergen, Norway).

2007: 5th International Congress on Wild Fauna (Chalkidiki, Greece).

2007: 13^o Panhellenic Ichthyologists Congress (Mytilene, Greece).

I. PARTICIPATION IN OTHER R&D COMPETITIVE RESEARCH PROJECTS (LAST 10 YEARS)

Researcher in the following projects

1. “*Genetic identification of fish eggs by species specific DNA markers for use in stock biomass assessments and detection of commercial fraud*”. FAIR European project (2000-2004).
2. “*Analysis of native Greek breeds of farmed animals*”. National project 2001-2002.
3. “*Artemia Biodiversity: current global resources and their sustainable exploitation*”. INCO Concerted Action project 2002-2005.
4. “*Genetic implications in the production of rotifers in finfish hatcheries*”. Quality of Life European project. 2002-2005.
5. “*Study to investigate an invading bioindicator in the Mediterranean, Pinctada radiata (Leach, 1814)*” UNEP/MAP project. 2003-2004.
6. “*Genetic identification of chukar and graeca partridge*”. National project. 2003-2005.
7. “*Multifactorial characterisation of Artemia and rotifer species*” GSRT Greece-China project. 2004-2005.
8. “*Genetic identification of wild and cultured sea bream and sea bass stocks using DNA markers*” National project. 2004-2006.
9. “*Study of the biology of Carassius gibelio (Bloch 1782), and ecological consequences due to its introductions in Greek rivers and lakes*”. National project. 2004-2006.
10. “*Evaluation of genetic impact of aquaculture activities on native populations – GENIMPACT*”. Concerted Action European project 2005-2007.
11. “*Natural reproduction technologies of endemic freshwater fish species selected with genetic markers*” National project. 2005-2008
12. “*Genetic identification of Greek wild boar*”. National project. 2006-2008.

Principle Investigator in the following projects

1. “*Evaluation of genetic consequences on wild seabream populations due to deliberate or accidental releases of cultured individuals*” National project. Budget: 90.000 Euros. 2005-2008.
2. “*Genetic identification and conservation of the red deer of Parnitha*” National project. Budget: 30.000 Euros. 2008-2011.
3. “*Genetic identification of Brown Hare*” National project. Budget: 3.000 Euros. 2009-2011.
4. “*Genetic control, DNA identification and conservation of animal populations*” National project. Budget: 15.000 Euros. 2009-2013.