

## CV-Theodore John Abatzopoulos

**Name** Theodore John Abatzopoulos (Initials: T.J. Abatzopoulos)

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**Place of Birth** Thessaloniki, Greece

**Citizenship** Greek

### **Studies**

Diploma: School of Biology, Aristotle University of Thessaloniki, 1979

PhD Thesis: School of Biology, Aristotle University of Thessaloniki, 1988

### **Post Doc and Sabbatical**

4.5 years in laboratories of Belgium and UK (Wales).

### **Supervision of honours and graduate students**

a) Major supervisor: 12 PhD and 8 MSc students

b) Internal supervisor: 8 PhD and 5 MSc students.

c) MSc and PhD supervisory committees: 10 students

d) Honours supervisor - 50 students

### **Research Interests**

Population Genetics, Speciation, Taxonomy and Molecular Ecology focusing on brine and freshwater Anostraca and other marine organisms. Use of molecular markers in basic and applied aquaculture research.

### **Research Projects**

20 national and international research projects (scientific responsible/coordinator in 6 of them). Total budget over 1.5 million EUROS.

Reviewer in 50 peer-reviewed journals (reviewed papers: over 150), **member of the editorial board** in two SCI journal, **co-editor** in one journal and **chief-editor** in one book.

### **Publications**

65 peer-reviewed articles and more than 110 communications at National and International scientific meetings, Symposia and Workshops.

### **Citations**

Over 950 by other authors.

**Member of Scientific societies:** 10

**Administration:** Member of the University Senate: 1995-1997 and 2005-2006.

Member of the MSc Committee (School of Biology) 1995-2000.

Head of the Department: 2006-2007.

## **Collaborations in joint research projects and publications**

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- University of Ghent, Belgium (Prof. Dr. P. Sorgeloos)
- NTNU, Trondheim, Norway (Prof. O. Vadstein)

- University of Athens (Dr. T. Tafas)
- CLO-DVZ Institute, Ostend, Belgium (Dr. P. Bossier)
- Università La Sapienza, Rome, Italy (Dr. G. Mura)
- CSIC, Castellón, Spain (Dr. F. Amat)
- Salt Research Intsitute, Tianjin, China (Dr. X. Naihong)
- University of Osorno, Chile (Dr. G. Gajardo)
- Maricoltura di Rosignano Solvay SRL, Livorno, Italy (T. De Wolf)
- *Artemia* and Aquatic Animals Reference Center, Urmia, Iran (Dr. N. Agh)
- Urmia University, Urmia, Iran (Dr. S.M. Razavi-Rouhani)
- Center for Marine Science and Technology, M.S. University, Tamil Nadu, India (Dr. P. Marian)
- Can-Tho University, Can-Tho, Vietnam (Dr. N. Van Hoa)
- Universidade Federal do Rio Grande do Norte, Brazil (Dr. M. Camara)

## **Collaborations in joint publications**

- Bodega Bay Marine Laboratory, University of Davis, California, USA (Prof. J. Clegg)
- University of Swansea, Wales, UK (Prof. J.A. Beardmore)
- University of Leuven, Belgium (Dr. L. Brendonck)
- Nankai University, Tianjin, China (Prof. R.-Y. Chen)
- INRA, Jouy-en-Josas, France (Dr. R. Guyomard)
- University of Ioannina (Dr. J. Leonardos)
- HCMR (Dr. M. Stoumboudi)
- Università di Lecce, Italy (Dr. S. Moscatello)
- Lamans S.A. (Dr. G. Triantaphyllidis)

## Collaborations in joint research projects

- HCMR (Dr. M. Alexis)
- Hellenic Saltworks
- NIREUS SA
- Universidad Autónoma Metropolitana-Xochimilco, Mexico City, Mexico (Prof. T. Castro Barrera)
- Université de Carthage, Tunis, Tunisia (Dr. M.S. Romdhane)
- Universidad de Buenos Aires, Buenos Aires, Argentina (Prof. G. Cohen)
- Rhodes University, Grahamstown, South Africa (Prof. T. Hecht)
- The Academy of National Sciences, Philadelphia, USA (Dr. S. Mills)

## SELECTED PUBLICATIONS LIST



Abatzopoulos, Th., G. Karamanlidis, Ph. Leger & P. Sorgeloos (1989) Further characterization of two *Artemia* populations from Northern Greece: Biometry, hatching characteristics, caloric content and fatty acid profiles. [\*Hydrobiologia\* 179: 211-222.](#)



Abatzopoulos, Th.J., C.D. Kastritsis & C.D. Triantaphyllidis (1986) A study of karyotypes and heterochromatic associations in *Artemia*, with special reference to two N. Greek populations. [\*Genetica\* 71: 3-10.](#)



Abatzopoulos, Th.J., C.D. Triantaphyllidis & C.D. Kastritsis (1987) Preliminary studies on some *Artemia* populations from northern Greece. *Artemia Research and its Applications*, Vol. 1: 107-114.



Abatzopoulos, Th., C. Triantaphyllidis & C. Kastritsis (1993) Genetic polymorphism in two parthenogenetic *Artemia* populations from Northern Greece. [\*Hydrobiologia\* 250: 73-80.](#)



Triantaphyllidis, G.V., T.J. Abatzopoulos, R.M. Sandaltzopoulos, G. Stamou & C.D. Kastritsis (1993) Characterization of two new *Artemia* populations from two solar saltworks of Lesbos island (Greece): biometry, hatching characteristics and fatty acid profile. [\*International Journal of Salt Lake Research\* 2: 59-68.](#)



Triantaphyllidis, G.V., P.K. Katinakis & Th.J. Abatzopoulos (1994) Changes in abundant proteins: intrapopulation and interpopulation study of four parthenogenetic *Artemia* populations from Northern Greece. *Cytobios* 77: 137-146.



Abatzopoulos, Th., G. Triantaphyllidis, P. Sorgeloos & J.S. Clegg (1994) Evidence for the induction of cyst diapause by heat-shock in *Artemia* (International Study on *Artemia*, XLVIII). [\*Journal of Crustacean Biology\* 14: 226-230.](#)



Triantaphyllidis, G.V., E.J.S. Pilla, K.M. Thomas, T.J. Abatzopoulos, J.A. Beardmore & P. Sorgeloos (1994) International Study on *Artemia*. LII. Incubation of *Artemia* cyst samples at high temperature reveals mixed nature with *Artemia franciscana* cysts. [\*Journal of Experimental Marine Biology & Ecology\* 183: 273-282.](#)



Triantaphyllidis, G.V., K. Pouloupoulou, T.J. Abatzopoulos, C.A. Pinto Perez & P. Sorgeloos (1995) International Study on *Artemia*. XLIX. Salinity effects on survival, maturity, growth, biometrics, reproductive and lifespan characteristics of a bisexual and a parthenogenetic population of *Artemia*. [\*Hydrobiologia\* 302: 215-227.](#)



Triantaphyllidis, G.V., Th.J. Abatzopoulos, E. Miasa & P. Sorgeloos (1996) International study on *Artemia*. LVI. Characterization of two *Artemia* populations from Namibia and Madagascar: cytogenetics, biometry, hatching characteristics and fatty acid profiles. [\*Hydrobiologia\* 335: 97-106.](#)



Abatzopoulos, T.J., G.V. Triantaphyllidis, J.A. Beardmore & P. Sorgeloos (1997) Cyst membrane protein composition as a discriminant character in the genus *Artemia*. (International study on *Artemia* LV). [\*Journal of the Marine Biological Association of UK\* 77: 265-268.](#)



Triantaphyllidis, G.V., G.R.J. Criel, Th.J. Abatzopoulos & P. Sorgeloos (1997) International Study on *Artemia*. LIII. Morphological study of *Artemia* with emphasis to Old World strains. I. Bisexual populations. [\*Hydrobiologia\* 357: 139-153.](#)



Triantaphyllidis, G.V., G.R.J. Criel, Th.J. Abatzopoulos & P. Sorgeloos (1997) International Study on *Artemia*. LIV. Morphological study of *Artemia* with emphasis to Old World strains. II. Parthenogenetic populations. [\*Hydrobiologia\* 357: 155-163.](#)



Triantaphyllidis, G.V., G.R.J. Criel, Th.J. Abatzopoulos, K.M. Thomas, J. Peleman, J.A. Beardmore & P. Sorgeloos (1997) International Study on *Artemia*. LVII. Morphological and molecular characters suggest conspecificity of all bisexual European and North African *Artemia* populations. [\*Marine Biology\* 129: 477-487.](#)



Abatzopoulos, Th.J., B. Zhang & P. Sorgeloos (1998) *Artemia tibetiana*: preliminary characterization of a new *Artemia* species found in Tibet (People's Republic of China). International Study on *Artemia*. LIX. [\*International Journal of Salt Lake Research\* 7: 41-44.](#)





Triantaphyllidis, G.V., Th.J. Abatzopoulos & P. Sorgeloos (1998) Review of the biogeography of the genus *Artemia* (Crustacea, Anostraca). [\*Journal of Biogeography\* 25: 213-226.](#)




Abatzopoulos, Th.J., L. Brendonck & P. Sorgeloos (1999) First record of *Branchinella spinosa* (Milne-Edwards) (Crustacea: Branchiopoda):


Anostraca) from Greece. [International Journal of Salt Lake Research 8: 351-360.](#)


 Triantafyllidis, A., T.J. Abatzopoulos & P.S. Economidis (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.


 Sun, Y., W-Q. Song, Y-C. Zhong, R-S. Zhang, Th. J. Abatzopoulos & R-Y. Chen (1999) Diversity and genetic differentiation in *Artemia* species and populations detected by AFLP markers. [International Journal of Salt Lake Research 8: 341-350.](#)


Gajardo, G., T.J. Abatzopoulos, I. Kappas, & J.A. Beardmore (2002) Evolution and speciation, in T.J. Abatzopoulos, J.A. Beardmore, J.S. Clegg & P. Sorgeloos (eds) ***Artemia: Basic and Applied Biology***, Kluwer Academic Publishers, The Netherlands, pp. 225-250.


 Abatzopoulos, T.J., I. Kappas, P. Bossier, P. Sorgeloos & J.A. Beardmore (2002) Genetic characterization of *Artemia tibetiana* (Crustacea: Anostraca). [Biological Journal of the Linnean Society 75: 333-344.](#)


 Triantafyllidis, A., F. Krieg, C. Cottin, T.J. Abatzopoulos, C. Triantaphyllidis & R. Guyomard (2002) Genetic structure and phylogeography of European catfish (*Silurus glanis*) populations. [Molecular Ecology 11: 1039-1055.](#)

 Triantafyllidis, A., T.J. Abatzopoulos, J. Leonardos & R. Guyomard (2002) Microsatellite analysis of the genetic population structure of native and translocated Aristotle's catfish (*Silurus aristotelis*). [Aquatic Living Resources 15: 351-359.](#)

 Abatzopoulos, T.J., N. El-Bermawi, C. Vasdekis, A.D. Baxevanis & P. Sorgeloos (2003) Effects of salinity and temperature on reproductive and life span characteristics of clonal *Artemia*. (International Study on *Artemia*. LXVI). [Hydrobiologia 492: 191-199.](#)

 Abatzopoulos, T.J., G.V. Triantaphyllidis, N. Roedaki, A.D. Baxevanis, A. Triantafyllidis & P. Sorgeloos (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.](#)

 Baxevanis, A.D., N. El-Bermawi, T.J. Abatzopoulos & P. Sorgeloos (2004) Salinity effects on maturation, reproductive and life span characteristics of four Egyptian *Artemia* populations (International Study on *Artemia*. LXVIII). [Hydrobiologia 513: 87-100.](#)

 Gajardo, G., J. Crespo, A. Triantafyllidis, A. Tzika, A.D. Baxevanis, I. Kappas & T.J. Abatzopoulos (2004) Species identification of Chilean *Artemia* populations based on mitochondrial DNA RFLP analysis. [Journal of Biogeography 31: 547-555.](#)



Baxevanis, A.D. & T.J. Abatzopoulos (2004) The phenotypic response of ME<sub>2</sub> (M. Embolon, Greece) *Artemia* clone to salinity and temperature. [\*Journal of Biological Research-Thessaloniki\* 1: 107-114.](#)



El-Bermawi, N., A.D. Baxevanis, T.J. Abatzopoulos, G. Van Stappen & P. Sorgeloos (2004) Salinity effects on survival, growth and morphometry of four Egyptian *Artemia* populations (International Study on *Artemia*. LXVII). [\*Hydrobiologia\* 523: 175-188.](#)



Kappas, I., T.J. Abatzopoulos, N. Van Hoa, P. Sorgeloos & J.A. Beardmore (2004) Genetic and reproductive differentiation *Artemia franciscana* in a new environment. [\*Marine Biology\* 146: 103-117.](#)



John, C.J.A., T.J. Abatzopoulos & P.M. Marian (2004) Characterization of a new *Artemia* population from Thamaraiikulam, India. [\*Journal of Biological Research-Thessaloniki\* 2: 63-74.](#)



Koukaras, K., A.D. Baxevanis, C. Vasdekis, T.J. Abatzopoulos & G. Nikolaidis (2004) Detection of Dinophysis cells toxicity by using parthenogenetic and clonal *Artemia*. *Harmful Algae*: 219-221.



Dolapsakis, N.P., T. Tafas, T.J. Abatzopoulos, S. Ziller & A. Economou-Amilli (2005) Abundance and growth response of microalgae at Megalon Embolon solar saltworks in northern Greece: an aquaculture prospect. [\*Journal of Applied Phycology\* 17: 39-49.](#)



Papakostas, S., A. Triantafyllidis, I. Kappas & T.J. Abatzopoulos (2005) The utility of the 16S gene in investigating cryptic speciation within the *Brachionus plicatilis* species complex. [\*Marine Biology\* 147: 1129-1139.](#)



Baxevanis, A.D., G.V. Triantaphyllidis, I. Kappas, A. Triantafyllidis, C.D. Triantaphyllidis & T.J. Abatzopoulos (2005) Evolutionary assessment of *Artemia tibetiana* (Crustacea, Anostraca) based on morphometry and 16S rRNA RFLP analysis. [\*Journal of Zoological Systematics and Evolutionary Research\* 43: 189-198.](#)



Mura, G., A.D. Baxevanis, G.M. Lopez, F. Hontoria, I. Kappas, S. Moscatello, G. Fancello, F. Amat & T.J. Abatzopoulos (2005) The use of a multidisciplinary approach for the characterization of a diploid parthenogenetic *Artemia* population from Torre Colimena (Apulia, Italy). [\*Journal of Plankton Research\* 27: 895-907.](#)



Abatzopoulos, T.J., Agh, N., G. Van Stappen, S.M. Razavi-Rouhani, & P. Sorgeloos (2006) *Artemia* sites in Iran. [\*Journal of the Marine Biological Association of the UK\* 86: 299-307.](#)



Abatzopoulos, T.J., A.D. Baxevanis, G.V. Triantaphyllidis, G. Criel, E.L. Pador, G. Van Stappen & P. Sorgeloos (2006) Quality evaluation of *Artemia urmiana* Günther (Urmia Lake, Iran) with special emphasis on its particular cyst characteristics (International Study on *Artemia* LXIX). [\*Aquaculture\* 254: 442-454.](#)



Papakostas, S., S. Dooms, A. Triantafyllidis, D. Deloof, I. Kappas, K. Dierkens, T. De Wolf, P. Bossier, O. Vadstein, S. Kui, P. Sorgeloos & T.J. Abatzopoulos (2006) Evaluation of DNA

methodologies in identifying *Brachionus* species used in European hatcheries. [Aquaculture 255: 557-564.](#)



Baxevanis, A.D., I. Kappas, T.J. Abatzopoulos (2006) Molecular phylogenetics and asexuality in the brine shrimp *Artemia*. [Molecular Phylogenetics and Evolution 40: 724-738.](#)



Papakostas, S., S. Dooms, M. Cristodoulou, A. Triantafyllidis, I. Kappas, K. Dierckens, P. Bossier, P. Sorgeloos & T.J. Abatzopoulos (2006) Identification of cultured *Brachionus* rotifers based on RFLP and SSCP screening. [Marine Biotechnology 8: 547-559.](#)



Mura, G., I. Kappas, A.D. Baxevanis, S. Moscatello, Q. D'Amico, G.M. Lopez, F. Hontoria, F. Amat & T.J. Abatzopoulos (2006) Morphological and molecular data reveal the presence of the invasive *Artemia franciscana* in Margherita di Savoia salterns (Italy). [International Review of Hydrobiology 91: 539-554.](#)



Dooms, S., S. Papakostas, S. Hoffman, D. Delbare, K. Dierckens, A. Triantafyllidis, T. De Wolf, O. Vadstein, T.J. Abatzopoulos, P. Sorgeloos & P. Bossier (2007) Denaturing gradient gel electrophoresis (DGGE) as a tool for the characterisation of *Brachionus* sp. strains. [Aquaculture 262: 29-40.](#)



Agh, N., T.J. Abatzopoulos, I.Kappas, G. Van Stappen, S.M.R. Rouhani, P. Sorgeloos (2007) Coexistence of sexual and parthenogenetic *Artemia* populations in Lake Urmia and neighbouring lagoons. [International Review of Hydrobiology 92: 48-60.](#)



Papakostas, S., T. De Wolf, A. Triantafyllidis, K. Vasileiadou, D. Kanellis, P. Cecconi, I. Kappas & T.J. Abatzopoulos (2007) Follow up of hatchery rotifer cultures with regard to their genetic identity. [Journal of Biological Research-Thessaloniki 7: 41-49.](#)



Triantafyllidis, A., I. Leonardos, I. Bista, I.D. Kyriazis, M.Th. Stoumboudi, I. Kappas, F. Amat & T.J. Abatzopoulos (2007) Phylogeography and genetic structure of Mediterranean killifish *Aphanius fasciatus* (Cyprinodontidae). [Marine Biology 152: 1159-1167.](#)



Ruiz, O., F. Amat, C. Saavedra, A. Papeschi, R.G. Cohen, A.D. Baxevanis, I. Kappas, T.J. Abatzopoulos & J.C. Navarro (2008) Genetic characterization of Argentinean *Artemia* species with different fatty acid profiles. [Hydrobiologia 610: 223-234.](#)



Vasileiadou, K., S. Papakostas, A. Triantafyllidis, I. Kappas & T.J. Abatzopoulos (2009) A multiplex PCR method for rapid identification of *Brachionus* rotifers. [Marine Biotechnology 11: 53-61.](#)



Aligizaki, K., G. Nikolaidis, P. Katikou, A.D. Baxevanis & T.J. Abatzopoulos (2009) Potential toxic epiphytic *Prorocentrum* (Dinophyceae) species in Greek coastal waters. [Harmful Algae 8: 299-311.](#)



Agh, N., P. Bossier, T.J. Abatzopoulos, J.A. Beardmore, G. Van Stappen, A. Mohammadyari, H. Rahimian & P. Sorgeloos (2009) Morphometric and preliminary genetic characteristics of *Artemia* populations from Iran. [International Review of Hydrobiology 94: 194-](#)



[207.](#)



Karaiskou, N., A. Triantafyllidis, V. Katsares, T.J. Abatzopoulos & C. Triantafyllidis (2009) Microsatellite genetic variability of Greek wild and farmed populations of *Sparus aurata*. [Journal of Fish Biology 74: 1816-1825.](#)



Kappas, I., A.D. Baxevanis, S. Maniatsi & T.J. Abatzopoulos (2009) Porous genomes and species integrity in the Branchiopod *Artemia*. [Molecular Phylogenetics and Evolution 52: 192-204.](#)



Maniatsi, S., A.D. Baxevanis & T.J. Abatzopoulos (2009) The intron 2 of p26 gene: a novel genetic marker for discriminating the two most commercially important *Artemia franciscana* subspecies. [Journal of Biological Research-Thessaloniki 11: 73-82.](#)



Abatzopoulos, T.J., F. Amat, A.D. Baxevanis, G. Belmonte, F. Hontoria, S. Maniatsi, S. Moscatello, G. Mura & N.V. Shadrin (2009) Updating geographic distribution of *Artemia urmiana* Gunther, 1890 (Branchiopoda, Anostraca) in Europe: an integrated and interdisciplinary approach. [International Review of Hydrobiology 94: 560-579.](#)



Papakostas, S., A. Triantafyllidis, I. Kappas & T.J. Abatzopoulos (2009) Clonal composition of *Brachionus plicatilis* s.s. and *B.* sp. 'Austria' hatchery strains based on microsatellite data. [Aquaculture 296: 15-20.](#)



Maniatsi, S., I. Kappas, A.D. Baxevanis, T. Farmaki & T.J. Abatzopoulos (2009) Sharp phylogeographic breaks and patterns of genealogical concordance in the brine shrimp *Artemia franciscana*. [International Journal of Molecular Sciences 10: 5455-5470.](#)



Garefalaki, M.-E., A. Triantafyllidis, T.J. Abatzopoulos & A. Staikou (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.](#)



Karaiskou, N., P. Moran, G. Georgitsakis, T.J. Abatzopoulos & A. Triantafyllidis (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.](#)




Maniatsi, S., K. Bourtzis & T.J. Abatzopoulos (2010) May parthenogenesis in *Artemia* be attributed to *Wolbachia*? [Hydrobiologia 651: 317-322.](#)



Liasko, R., V. Liousia, P. Vrazeli, O. Papiggioti, T.J. Abatzopoulos & I.D. Leonardos (2010) Biological traits of rare males in the population of *Carassius gibelio* (Actinopterygii: Cyprinidae) from Lake Pamvotis (north-west Greece). [Journal of Fish Biology 77: 570-584.](#)




Maniatsi, S., A.D. Baxevanis, I. Kappas, P. Deligiannidis, A. Triantafyllidis, S. Papakostas, D. Bougiouklis & T.J. Abatzopoulos (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.](#)




Karaiskou, N., M. Lappa, S. Kalomoiris, G. Oikonomidis, C. Psaltopoulou, T.J. Abatzopoulos, C. Triantaphyllidis & A. Triantafyllidis (2011) Genetic monitoring and effects of stocking practices on small *Cyprinus carpio* populations. [\*Conservation Genetics\* 12: 1299-1311.](#)

Kappas, I., A.D. Baxevanis & T.J. Abatzopoulos (2011) Phylogeographic patterns in *Artemia*: a model organism for hypersaline crustaceans. In: C. Held, S. Koenemann & C.D. Schubart (eds). *Phylogeography and population genetics in Crustacea*. CRC Press, Boca Raton, Florida, USA: 233-255.



Alexandri, P., A. Triantafyllidis, S. Papakostas, E. Chatzinikos, P. Platis, N. Papageorgiou, G. Larson, T.J. Abatzopoulos & C. Triantaphyllidis (2012) The Balkans and the colonization of Europe: the post-glacial range expansion of the wild boar, *Sus scrofa*. [\*Journal of Biogeography\* 39: 713-723.](#)



Moschandreou, K.K., A.D. Baxevanis, P. Katikou, D. Papaefthimiou, G. Nikolaidis & T.J. Abatzopoulos (2012) Inter- and intra-specific diversity of *Pseudo-nitzschia* (Bacillariophyceae) in the northeastern Mediterranean. [\*European Journal of Phycology\* 47: 312-329.](#)