

Dr. Anastasios D. Tsaousis

PERSONAL DETAILS

Name: Anastasios Demetraki TSAOUSIS
Date of birth: 9th July 1979
Nationality: Greek Cypriot
Marital status: Single

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EDUCATION

09/2004 – 11/2007 PhD on Molecular Evolution
Title of project: *Evolution and function of the microsporidian mitosome*
Supervisors: Prof. T.M. Embley / Dr. R.P. Hirt
Newcastle University, School of Biology

09/1999 – 07/2003 Ptychio in Biology (BSc degree)
Average grade of 7.33 out of 10 (equivalent: Upper 2nd class honours degree)
University of Crete, Department of Biology

1994 – 1997 Kykkos A' Lyceum - Greek Apolyterion with an average grade of 18.2 / 20

WORK EXPERIENCE

01/2008 – present Department of Biochemistry and Molecular Biology, Faculty of Medicine,
Dalhousie University, Halifax
Postdoctoral fellow: “Function and evolution of mitochondrial-derived organelles and
aspects of genome evolution in anaerobic eukaryotes”.

11/2003 – 08/2004 The Cyprus Institute of Neurology & Genetics
Department of Electron Microscopy and Molecular Pathology
Laboratory Technologist position

SCIENTIFIC RESEARCH EXPERIENCE

09/2003 – 08/2004 Project: “Evidence of recombination in animals’ mtDNA from published sequences.”
Assisting in this project, which was a collaboration between the Laboratory of Population
Genetics and Evolution in the University of Crete (Greece) and Dr. Posada’s Laboratory at
the Universidad de Vigo (Spain)

07/2003 – 10/2003 The Cyprus Institute of Neurology & Genetics
Department of Electron Microscopy and Molecular Pathology
Voluntary Research work

01/2003 – 06/2003	University of Crete, Department of Biology Laboratory of Population Genetics and Evolution Final Year's Project: "Mosaic molecules in <i>Mytilus galloprovincialis</i> males" supervised by Prof. E. Zouros,. Marked: 9,5 out of 10
07/2002 – 12/2002	The Cyprus Institute of Neurology & Genetics Department of Electron Microscopy and Molecular Pathology Worked on the project: "Correlation Between <i>p53</i> Immunostaining Patterns and Gene Sequence Mutations in Breast Carcinoma" Optional placement – Marked: 10 out of 10
02/2001 – 06/2002	Natural History Museum of Crete Voluntary research in the laboratories of the museum Trained in mollusc Systematics and animal collection
06/2001 – 08/2001	The Cyprus Institute of Neurology & Genetics Department of Electron Microscopy and Molecular Pathology Trained in molecular genetic techniques: DNA extractions, PCR, DNA Sequencing; manual & automated (ABI310) and immunohistochemistry Experience in working with Transmission Electron Microscope

PUBLICATIONS

1. **Tsaousis, A. D.**, Kunji E. R. S., Goldberg, A. V., Hirt, R. P., & Embley T. M. (2008) A novel route for ATP acquisition by the remnant mitochondria of *Encephalitozoon cuniculi*, *Nature*, **453**: 553-556.
2. Goldberg, A. V., Molik, S., **Tsaousis, A. D.**, Kuhnke, G., Delbac, F., Vivares, C., Hirt, R. P., Lill, R., & Embley T. M. (2008) Localisation and functionality of microsporidian iron-sulphur cluster assembly proteins, *Nature*, **452**: 624-628.
3. **Tsaousis, A. D.**, Martin, D. P., Ladoukakis, E. D., Posada, D. & Zouros, E. (2005) Widespread Recombination in Published Animal mtDNA Sequences. *Mol Biol Evol* **22**, 925-933.

SCHOLARSHIPS - AWARDS

April 2007 YTF award for attending to FEBS Advanced course: Mitochondria in Life, Death and Disease
2004 – 2007 PhD Scholarship from School of Biology – Newcastle University

PEER – REVIEWER (JOURNALS)

Molecular Microbiology

ABSTRACTS PRESENTED IN CONFERENCES

1. **A. D. Tsaousis***. "The microsporidian mitosome is an energy parasite", CIFAR - Integrated Microbial Biodiversity Program, Carling Lake Resort, Quebec, Canada, 7th – 9th May 7, 2008
2. **A. D. Tsaousis***, A.V. Goldberg-Cavalieri, R.P. Hirt, E.R.S Kunji, T.M. Embley. "Studies on the Microsporidian Mitosome". Society of Molecular Biology and Evolution Conference – SMBE 2007, Halifax, Nova Scotia, Canada, 24th – 28th June 2007

3. **A. D. Tsaousis***. "Studies on the Microsporidian Mitosome" FEBS Advanced course: Mitochondria in Life, Death and Disease, April 2007
4. **A. D. Tsaousis***, A.V. Goldberg-Cavalieri, R.P. Hirt, T.M. Embley. "Studies on the Microsporidian Mitosome". 11th International Congress of Parasitology – ICOPA XI, Glasgow, Scotland, UK. 6th – 11th August 2006
5. **A. Tsaousis***, I. Theologidis, E. Ladoukakis and E. Zouros. "Mosaic molecules in *Mytilus galloprovincialis* males". The 25th annual conference of the Hellenic Society for Biological Sciences. Lesbos, Greece, 29th May – 1st June 2003
6. I. Theologidis, **A. Tsaousis**, E. Ladoukakis and E. Zouros. "Female *Mytilus galloprovincialis* contain only pure F-type mtDNA molecules". The 25th annual conference of the Hellenic Society for Biological Sciences. Lesbos, Greece, 29th May – 1st June 2003
7. **A. Tsaousis***, A. Hadjisavvas, I. Zouvani, M. Vasiliou, G. Kalakoutis, M. Televantos, A. Adamou, K. Kyriakou. "Study of P53 with immunohistochemistry and Molecular Biology in Breast and Ovarian Cancer". 1st Multidisciplinary Anticancer Congress". Athens, Greece. 20-23 March 2003

*Personally delivered at conference

ATTENDANCE IN CONFERENCES AND WORKSHOPS

1. BBSRC Workshop on Theoretical Genetics, Molecular Evolutions and Diversity, Edinburgh, UK, 17th – 21st July 2006
2. 158th Meeting of Society for General Microbiology, University of Warwick, UK, 3rd – 6th April 2006
3. Royal Society meeting on Major steps in cell evolution: palaeontological, molecular and cellular evidence of their timing and global effects', London, 26 - 27 September 2005
4. PopGroup2003 (Population Genetics Group Meeting). Brighton, 16th – 19th December 2003
5. "Sixth International Congress of Systematic and Evolutionary Biology". Patra, Greece. 9-16 September 2002

TEACHING - DEMONSTRATION

01/2008 – present: Training – co-supervising 2 undergraduates for their Honours Degree projects

11/2006 – 03/2007: Teaching – training of 4 undergraduates in their Final Year's Project

10/2006 – 04/2007: Demonstrator in "Introductory Biochemistry" 1st year Undergraduate Course

10/2006 – 11/2006: Demonstrator in "Cell Biology" 1st year Undergraduate Course

10/2005 – 11/2005: Demonstrator in "Cell Biology" 1st year Undergraduate Course

RESEARCH INTERESTS

- Understanding the evolution of the Last Universal Common Ancestor (LUCA) and the Last Eukaryotic Common Ancestor (LECA)
- Evolution and function of mitochondrion-like organelles
- Comparative genomics of early-eukaryotic organisms

General fields: Evolution – Molecular Evolution, Phylogenetics, Protistology, Parasitology, Cell Biology, Biochemistry, Ancient DNA, Paleontology - Paleoecology, Bioinformatics, Population Genetics

PROFESSIONAL SOCIETIES

Member of *Society of Molecular Biology and Evolution*
 Member of the *European Society of Evolutionary Biology*
 Member of *Society for General Microbiology*
 Member of *International Society of Evolutionary Protistology*
 Member of *International Society of Protistologists*
 Member of IOSEB (*International Organization for Systematic and Evolutionary Biology*)
 Member of *Biological Society of Cyprus*

MILITARY SERVICE

07/1997 – 09/1999 Served the National Guard of Cyprus at the post of Subleutenant

SKILLS

Languages

Fluent in spoken and written Greek and very good in English. Fair knowledge of written and spoken French, and Spanish

Computer Skills

Knowledge and experience in using computers in Windows, Mac OSX and Linux environments
 Programs: Microsoft Office, statistics, alignment, phylogeny, protein structure predictions

Transferable skills

Confident communicator; performed a number of presentations and laboratory reports at universities and on placements that allowed me to improve my oral and written communication skills. Good team player but also happy to work on my own to accurately and effectively complete workload. Responsible and loyal person. Conscientious worker, determined and with high personal standards

EXTRA – CURRICULA ACTIVITIES

Member of Halifax Field Naturalists
 Member of the Nova Scotia Mineral and Gem Society
 Member of *The Natural History Society of Northumbria*
 Photography
 Hiking, snorkelling, climbing, camping, caving

REFEREES

Prof. T. Martin Embley

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 Institute for Cell and Molecular Biosciences
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 Newcastle University
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Prof. Eleftherios Zouros

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Prof. Andrew J. Roger

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