



## PERSONAL INFORMATION

Forename *Nikolaos (Nikos)*  
Surname *Psonis*  
Year of birth 1988  
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### Work address

Ancient DNA Lab,  
Institute of Molecular Biology and Biotechnology  
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### Academic profiles (links) and IDs

[Google Scholar profile](#)  
[ResearchGate profile](#)  
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ResearcherID: G-7278-2017

## • EDUCATION

2012 – 2017 **Philosophiae Doctor (Ph.D.)**, Department of Biology, University of Crete.

*Thesis* Molecular Phylogenetics and Phylogeography of the «*Podarcis tauricus*» (Sauria: Lacertidae) species subgroup.  
Supervisor: Prof. Nikos Poulakakis  
Available at: <https://elocus.lib.uoc.gr/dlib/d/4/b/metadata-dlib-1487666619-178524-24583.tkl> (in Greek with English abstract).

2010 – 2012 **Master of Science (M.Sc.)**, two-year program “Environmental Biology - Management of Terrestrial and Marine Biological Resources”, Department of Biology, University of Crete (Grade 9.67/10).

*Thesis* Molecular Phylogeny and Phylogeography of the two “close related” snail genera *Helicigona* & *Campylaea* (Gastropoda: Pulmonata) in Greece.  
Supervisor: Prof. Nikos Poulakakis  
Available at: <https://elocus.lib.uoc.gr/dlib/4/7/7/metadata-dlib-1352288746-953323-13067.tkl> (in Greek with English abstract).

2006 – 2010 **Biology Degree (B.Sc.)**, Department of Biology, University of Crete, (Grade 7.94/10).

*Thesis* Incorporation of genetic data in the biogeographical species-area relationship - a first approach.  
Supervisor: Prof. Nikos Poulakakis  
(in Greek with English abstract)

- **LANGUAGES**

Greek Native  
English C1 level - International English Language Testing System (IELTS)

- **CURRENT POSITION**

2017 - **Postdoctorate researcher**, *Paleogenomics and Evolutionary Genetics Group*, Ancient DNA Lab, IMBB -FORTH, Greece  
Current Lab head: Dr. Nikos Poulakakis

- **WORK EXPERIENCE**

2024 - Ancient DNA Lab, IMBB -FORTH, program *THESEUS*, HFRI “Basic Research”, Greece 2.0.

*Job title* Selection of samples for analysis, bioinformatic analysis of data from next-generation sequencing and ancient DNA technologies, writing of deliverables and publications.

2023 – 2024 Molecular Systematics Lab, Natural History Museum of Crete, Research project *Move, Adapt, or Die: "The genomic diversity of Gypaetus barbatus and the impacts of climate change"*.

*Job title* "Genomic responses and the impacts of climate change on the species *Gypaetus barbatus* in Crete: Genomic data generation and Bioinformatics Analysis – Estimation of genomic diversity of *Gypaetus barbatus* in Crete and synthesis of results for paper writing and presentation at an international conference".

2023 – 2024 Independent contractor, Research project *Supervision and evaluation of the conservation status of amphibian/reptile species (except marine), of community and national interest, in Greece*. Hellenic Herpetological Society, Greece.

*Job title* Investigation of the presence, recording, supervision and evaluation of the conservation status of amphibian and reptile species, inside and outside the Natura 2000 network in areas of Lasithi prefecture, Crete, Greece.

2022 – 2023 Independent contractor, Research project *Compilation of Red Lists of Threatened Species of Plants, Animals and Fungi of Greece*. Natural Environment & Climate Change Agency (NECCA), Greece.

*Job title* Assessment of seven (7) reptile species of Annex 1 according to the criteria and standards of the International Union for the Conservation of

Nature - IUCN, in order to assign species into Red List categories and update the knowledge about the threatened species of Greece.

2021 – 2023 Ancient DNA Lab, IMBB -FORTH, Research project *APOIKIA*, EPAnEK - NSRF 2014-2020

*Job title* Handling and analysis of biological samples of archaeological interest with specialized protocols (ancient DNA analysis). Bioinformatics analysis of sequence data.

2018 – 2020 Ancient DNA Lab, IMBB -FORTH, Research project *POLITEIA II*, EPAnEK - NSRF 2014-2020

*Job title* Development of ancient DNA extraction, enrichment and analysis protocols, development and application of bioinformatics analyses of ancient DNA (Next Generation Sequencing) data manipulation, development of and application of bioinformatics analyses of genetic sex determination and molecular species identification, participation in seminar and workshop organization.

2020 (02 – 05) Independent contractor, Research project *Knowing and protecting biodiversity: Recording and mapping of the Greek reptile fauna. Dissemination and dissemination of results in civil society*. Natural Environment & Novel Environmental Actions 2018, Green Treasury, Ministry of Environment and Energy, Greece

*Job title* Contribution on the creation of the *Atlas of Reptiles and Amphibians of Greece* by writing about the biology, ecology, distribution, preservation and threats for nine species.

2017 – 2018 Ancient DNA Lab, IMBB -FORTH, Research project *ARCHERS*, Stavros Niarchos Foundation

*Job title* Preservation of Cultural Heritage: Bioarcheology & Ancient DNA analysis

2015 (04 – 11) Independent contractor, Research project *Inventory and Monitoring of Habitat types and Species of Flora and Fauna of Directives 92/43 and 79/409 of the Management Agency Evros Delta*, EPPERAA – NSRF 2007 – 2013

*Job title* Monitoring and evaluation of the conservation status of amphibian / reptile species with Community interest.

2015 (08 – 10) Molecular Systematics Lab, Natural History Museum of Crete, Research project *EcoGenoDiv*, ARISTEIA II – NSRF 2007 – 2013

- Job title* Study of the evolutionary diversification of the common gecko (*Mediodactylus kotschy*) in the Aegean area using Next Generation Sequencing data (RAD – tags).
- 2014 – 2015 Molecular Systematics Lab, Natural History Museum of Crete, Research project *EcoGenoDiv*, ARISTEIA II – NSRF 2007 – 2013
- Job title* Participation in field work, lab analyses and phylogenetic analyses concerning one of the target species.
- 2013 – 2014 Hellenic Centre for Marine Research, Research project *Hellenic Network for Biodiversity Research: Construction and operation of the national Lifewatch research infrastructure (ESFRI)* NSRF 2007 – 2013
- Job title* Digital cataloguing of biological collections of the Natural History Museum of Crete.

• **FELLOWSHIPS**

- 2022 (04 – 05) Epigenomics and Paleogenomics team, Institut Jacques Monod, Université de Paris-CNRS, Paris, France.  
Lab Head: Dr. Eva-Maria Geigl
- 2016 (09 – 11) Exelixis Lab, Heidelberg Institute of Theoretical Studies (HITS), Heidelberg, Germany.  
Lab Head: Prof. Alexandros Stamatakis
- 2015 (01 – 02) Molecular Systematics and Conservation Genetics (MSCG) center, Yale Institute for Biospheric Studies (YIBS), Yale University, Connecticut, USA.  
Lab head: Dr. Adalgiza Caccone

• **SCHOLARSHIPS AND AWARDS**

- 2012 – 2013 PhD Scholarship by Manassaki Foundation
- 2012 Award for the 2nd-best poster, 12th International Congress on the Zoogeography, Ecology and Evolution of Eastern Mediterranean (12th ICZEGAR), 18-22.07.12, Athens, Greece
- 2011 – 2012 M.Sc. Scholarship by the State Scholarships Foundation of Greece
- 2010 – 2011 M.Sc. Scholarship by the ANEK corporation

- **RESEARCH INTERESTS**

- Phylogenetic relationships and phylogeography of animal species distributed in the Eastern Mediterranean and adjacent regions
- Molecular Systematics
- Population Genetics/Genomics
- Palaeogenomics of extinct Mediterranean mammals
- Museomics
- Archaeogenomics of ancient humans and animals of the Greek / Aegean area

- **PUBLICATIONS IN PEER-REVIEWED JOURNALS**

First author and corresponding author: 12 out of 18

h-index: 10

Citations: 257 (Google Scholar), 244 (ResearchGate), 175 by 133 documents (Scopus)

Coauthors: 89

- 2024 **Psonis N.\***, Vassou D.\*, Nafplioti A., Tabakaki E., Pavlidis P., Stamatakis A., & Poulakakis N. Identification of the 18 World War II Executed Citizens of Adele, Rethymnon, Crete Using an Ancient DNA Approach and Low Coverage Genomes. *Forensic Science International: Genetics*, [71:103060](#). (Citations: 0) \***equal contribution**
- 2024 Kotsakiozi P., Antoniou A., **Psonis N.**, Sagonas K., Karameta E., Ilgaz Ç., Kumlutaş Y., Avcı A., Jablonski D., Darriba D., Stamatakis A., Lymberakis P., & Poulakakis N. Cryptic Diversity and Phylogeographic Patterns of *Mediodactylus* Species in the Eastern Mediterranean Region. *Molecular Phylogenetics and Evolution*, [197:108091](#). (Citations: 1)
- 2023 Koptekin D., Yüncü E., Rodríguez-Varela R.\*, Altınışik\* N.E., **Psonis N.\***, Kashuba N., Yorulmaz S., George R., Kazancı D.D., Kaptan D., Gürün K., Vural K.B., Gemici H.C., Vassou D., Daskalaki E., Karamurat C., Lagerholm K.V., Erdal O.D., Kırdök E., Schachner A., Üstündağ H., Shengelia R., Bitadze L., Elashvili M., Stravopodi E., Özbaşaran M., Duru G., Nafplioti A., Rose C.B., Gencer T., Darbyshire G., Çevik O., Vuruşkan O., Büyükarakaya A.M., Oğuzhanoğlu U., Günel S., Tabakaki E., Aliev A., Ibrahimov A., Shadlinski V., Kılınç G.M., Atakuman C., Stamatakis A., Poulakakis N., Erdal Y.S., Pavlidis P., Stora J., Özer F., Götherström A., & Somel M. Spatial and temporal heterogeneity in human mobility patterns in Holocene Southwest Asia and the East Mediterranean. *Current Biology* [33\(1\), 41-57](#). (Citations: 28) \***equal contribution**
- 2022 **Psonis N.**, Vardinoyannis K., & Poulakakis N. High-throughput degraded DNA sequencing of subfossil shells of a critically endangered stenoendemic land snail in the Aegean. *Molecular Phylogenetics and Evolution*, [175: 107561](#). (Citations: 7)

- 2021 **Psonis N.**, Vassou D., Nicolaou L., Roussiakis S., Iliopoulos G., Poulakakis N., & Sfenthourakis S. Mitochondrial sequences of the extinct Cypriot pygmy hippopotamus confirm its phylogenetic placement. *Zoological Journal of the Linnean Society*, [193\(3\), 979-989](#). (Citations: 10, Online views: 1496)
- 2021 **Psonis N.**, Vassou D., & Kafetzopoulos D. Testing a series of modifications on genomic library preparation methods for ancient or degraded DNA. *Analytical Biochemistry*, [623:114193](#). (Citations: 8)
- 2021 **Psonis N.**, Antoniou A., Karameta E., Darriba D., Stamatakis A., Lymberakis P. & Poulakakis N. The wall lizards of the Balkan peninsula: tackling questions at the interface of phylogenomics and population genomics. *Molecular Phylogenetics and Evolution*, [159:107121](#). (Citations: 12)
- 2021 Staikou V., Sianis D.P., Vassou D., **Psonis N.**, Allentoft M., & Iliopoulos G., Middle Helladic Tombs at Nydri Plain, Lefkas Island. An Archaeological and Paleoanthropological Study. *Journal of Greek Archaeology*, [6, 43-59](#). (Citations: 2)
- 2020 **Psonis N.**, de Carvalho C.N., Figueiredo S., Tampakaki E., Vassou D., Poulakakis N. & Kafetzopoulos D. Molecular identification and geographic origin of a post-Medieval elephant finding from southwestern Portugal using high-throughput sequencing. *Scientific Reports*, [10:19252](#). Open Access. (Citations: 11, Web Accesses: 3902).
- 2019 Spilani L., Bougiouri K., Antoniou A., **Psonis N.**, Poursanidis D., Lymberakis P., Poulakakis N. Multigene phylogeny, phylogeography and population structure of *Podarcis cretensis* species group in south Balkans. *Molecular Phylogenetics and Evolution*, [138, 193-204](#). (Citations: 16)
- 2018 **Psonis N.**, Antoniou A., Karameta E., Leaché A.D., Kotsakiozi P., Darriba D., Kozlov A., Stamatakis A., Poursanidis D., Kukushkin V.O., Jablonski D., Crnobrnja – Isailović J., Gherghel I., Lymberakis P. & Poulakakis N. Resolving complex phylogeographic patterns in the Balkan Peninsula using closely related wall-lizard species as a model system. *Molecular Phylogenetics and Evolution*, [125, 100-115](#). (Citations: 48)
- 2017 **Psonis N.**, Antoniou A., Kukushkin V.O., Jablonski D., Petrov B., Crnobrnja – Isailović J., Gherghel I., Sotiropoulos K., Lymberakis P. & Poulakakis N. Hidden diversity in the *Podarcis tauricus* (Sauria, Lacertidae) species subgroup in the light of multilocus phylogeny and species delimitation. *Molecular Phylogenetics and Evolution*, [106, 6-17](#). (Citations: 63)



- 2016 Hedman H.D., Kapsalas G., Karameta E., **Psonis N.**, Poulakakis N., Foufopoulos J. & Pafilis P. First record of *Podarcis peloponnesiacus* (Bibron & Bory, 1833) from outside the Peloponnese. *Herpetozoa* [29 \(3/4\)](#). (Citations: 11)
- 2016 **Psonis N.**, Lymberakis P., Poursanidis D. & Poulakakis N. (2016) Contribution to the study of *Acanthodactylus* (Sauria: Lacertidae) mtDNA diversity focusing on the *A. boskianus* species group. *Mitochondrion* [30, 78–94](#). (Citations: 8)
- 2015 **Psonis N.**, Vardinoyannis K., Mylonas M. & Poulakakis N. (2015) Unraveling the evolutionary history of the genus *Chilostoma* Fitzinger, 1833 (Mollusca, Gastropoda, Pulmonata) in Greece. *Molecular Phylogenetics and Evolution* [91, 210-225](#). (Citations: 13)
- 2015 **Psonis N.**, Vardinoyannis K., Mylonas M. & Poulakakis N. (2015) Evaluation of taxonomy of *Helix cincta* (Muller, 1774) and *Helix nucula* (Mousson, 1854); insights using mitochondrial DNA sequence data. *Journal of Natural History* [49:5-8, 383-392](#). (Citations: 18)

Pre-prints - Under review

Bettisworth B., **Psonis N.**, Poulakakis N., Pavlidis P., Stamatakis A. Read Length Dominates Phylogenetic Placement Accuracy of Ancient DNA Reads. Pre-print available in [bioRxiv](#) (06.2024). **Accepted** in *Molecular Biology and Evolution*.

**Psonis N.**, Tabakaki E., Vassou D., Papadabtonakis S., Souleles A., Nafplioti A., Tsampazis K., Papadopoulou A., Xanthopoulos K., Panailidis P., Georgiadou A., Papakosta D., Koursioti S., Evangelinou M., Papadopoulou V., Evaggeloglou P., Korka E., Christidis I., Ioannou M., Kontogianni T., Arkoumanis A., Stamatakis A., Poulakakis N., Papageorgopoulou C., & Pavlidis P. Genetic affinities between an ancient Greek colony and its metropolis: the case of Amvrakia in western Greece. **Under Review** in *Genome Biology*.

• **PARTICIPATION ON BOOK WRITING**

2020 Atlas of Amphibians and Reptiles of Greece, BROKEN HILL PUBLISHERS LTD ISBN: 978-9925-588-03-9, January 2020, [PDF](#).

To-be-published

Theodoridou M., Vassou D., Felicetti A., Tabakaki E., **Psonis N.** & Kafetzopoulos D. Forth to the Past: Modeling complex scientific aDNA protocols. **Accepted** in Volume: *Big Data in Anthropology and Archaeology*, Book Series: Quantitative Archaeology and Archaeological Modelling.

- **PRESENTATIONS IN CONFERENCES & PROCEEDINGS**

First author: 15 out of 24

International: 20 out of 24

- 2024 Papadopoulou A.\*, **Psonis N.\***, Vassou D., Tabakaki E., Koptekin D., Neuenschwander S., Rodríguez-Varela R., Anchieri L., Hübner L., Papadantonakis S., Nafplioti A., Koursiaoti S., Stravopodi E., Kontaxi C., Aravantinos L.V., Kyparissi-Apostolika N., Yilmaz Y., Yorulmaz S., Daskalaki E., Allentoft M., Götherström A., Özer F., Somel, M., Pavlidis P., Stamatakis A., Malaspinas A-S., & Poulakakis N. "The genetic history of Neolithic to Bronze Age Aegean at the crossroad between Anatolia and Europe" EMBO-EMBL symposium: Reconstructing the human past using ancient and modern genomics', Heidelberg, Germany, 17-20 September. **\*equal contribution**
- 2024 Papadopoulou A.\*, **Psonis N.\***, Vassou D., Tabakaki E., Koptekin D., Neuenschwander S., Rodríguez-Varela R., Anchieri L., Hübner L., Papadantonakis S., Nafplioti A., Koursiaoti S., Stravopodi E., Kontaxi C., Aravantinos L.V., Kyparissi-Apostolika N., Yilmaz Y., Yorulmaz S., Daskalaki E., Allentoft M., Götherström A., Özer F., Somel, M., Pavlidis P., Stamatakis A., Malaspinas A-S., & Poulakakis N. "The genetic history of Neolithic to Bronze Age Aegean at the crossroad between Anatolia and Europe" Annual meeting for the Society for Molecular Biology and Evolution (SMBE), Symposium 'Paleogenomics and human evolutionary history: new insights and novel methods', Puerto Vallarta, Mexico, 07-11 July. **\*equal contribution**
- 2022 Mavridou D., Tsafaras S., Karyati E., Vassou D., Tabakaki E., **Psonis N.**, Papageorgopoulou C., Xatnthopoulos K., Georgiadou A., Aidonis A., Papadopoulou V., Vasios A., Papakosta D., Korke E., Evaggeloglou P., Christidis I., Ioannou M., Panailidis P. "Museum Archaeo-Bio Open Lab experience using new technologies and interactive multimedia applications" 26<sup>th</sup> International Council Of Museums General Conference, Prague, Czech Republic, 20-28 August.
- 2022 **Psonis N.**, Vassou D., Kontaxi C., Stravopodi E., Tabakaki E., Nafplioti A., Pavlidis P., Stamatakis A., & Poulakakis N. Ancient DNA confirms the presence of aurochs (*Bos primigenius*) in Neolithic Greece. *Proceedings of the 15th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, Mytilini, Greece, 12-15 October.
- 2022 Vassou D., **Psonis N.**, Tabakaki E., Koursiotti S., Papakosta D., Xanthopoulos K., Papadopoulou V.N., Tsetsos F., Galanis A., Papagerogopoulou C., Nafplioti A., Pavlidis P., Stamatakis A., & Poulakakis N. Human genomes from Ancient Amvrakia, Epirus, north-western Greece. *Proceedings of the 15th International*



- Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, Mytilini, Greece, 12-15 October.
- 2021 **Psonis N.** Vassou D., Tabakaki E., Stravopodi E., & Kafetzopoulos D. Early Bronze Age Aegean genomes from Perachora cave, Corinth, Greece. *27th Annual Meeting of the European Association of Archaeologists (EAA) (Virtual Conference)*, Kiel, 08-11 September.
- 2021 Theodoridou M., Vassou D., Felicetti A., Tabakaki E., **Psonis N.**, & Kafetzopoulos D., *Forth to the past: Modeling Complex Scientific Ancient DNA Protocols. 27th Annual Meeting of the European Association of Archaeologists (EAA) (Virtual Conference)*, Kiel, 08-11 September.
- 2021 **Psonis N.** Vassou D., Nicolaou L., Poulakakis N., Roussiakis S., Iliopoulos G., Sfenthourakis S & Kafetzopoulos D. Mitogenomics of the extinct Cyprus dwarf hippopotamus. *Ancient Biomolecules of Plants, Animals, and Microbes (Virtual Conference)*, Wellcome Genome Campus, UK, 29-31 March.
- 2019 Patramanis I., Tabakaki E., Vassou D., **Psonis N.**, Papadopoulou V., Pavlidis P. & Kafetzopoulos D. Dynamic demographic models for the study of the Second Greek Colonization (8th - 6th century BCE). *International Conference "Reconstructing the Human Past - Using Ancient and Modern Genomics"*, EMBL Heidelberg, Germany, 31 March – 03 April.
- 2018 Karakasi D, Antoniou A., **Psonis N.**, Gkiokas S., Vardinoyannis K., Mylonas M., & Poulakakis N. Investigating the phylogenetic relationships within the snail genus *Albinaria*. *Proceedings of the 9th Hellenic Ecological Congress*, [p.47](#), Heraklion, Crete, Greece, 04-07 October, [In Greek].
- 2016 Bougiouri K., Spilani L., Antoniou A., Lymberakis P., **Psonis N.** & Poulakakis N. Examining the Population Structure and Phylogeography of *Podarcis cretensis* in Crete, Greece. *Proceedings of the 9th Symposium on the Lacertids of the Mediterranean Basin & 1st Symposium on Mediterranean Lizards*, [p.9](#), Limassol, Cyprus, 20-23 June.
- 2016 Spilani L., Bougiouri K., Antoniou A., Lymberakis P., **Psonis N.** & Poulakakis N. Molecular Systematics and Species Delimitation of *Podarcis cretensis*, *P. levendis* and *P. peloponnesiacus* of the south Aegean region. *Proceedings of the 9th Symposium on the Lacertids of the Mediterranean Basin & 1st Symposium on Mediterranean Lizards*, [p.36](#), Limassol, Cyprus, 20-23 June.
- 2015 Kotsakiozi P., Antoniou A., Karameta E., **Psonis N.**, Sagonas K., Lymberakis P., Pavlidis P., Stamatakis A. & Poulakakis N. Phylogeography of the *Mediodactylus kotschy* (Reptilia: Gekkonidae) in the Eastern Mediterranean region using ddRAD-tag genomic data. *Proceedings of the 13th International Congress on the*

- Zoogeography and Ecology of Greece and Adjacent Regions*, [p.57](#), Heraklion, Crete, Greece, 07-11 October.
- 2015 **Psonis N.**, Karameta E., Antoniou A., Kotsakiozi P., Sagonas K., Lymberakis P., Pavlidis P., Stamatakis A. & Poulakakis N. Molecular Phylogeny of the Balkan *Podarcis* (Sauria, Lacertidae) using ddRAD-tag genomic data. *Proceedings of the 13th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, [p.72](#), Heraklion, Crete, Greece, 07-11 October.
- 2015 **Psonis N.**, Antoniou A., Kukushkin V.O., Petrov B., Crnobrnja – Isailović J., Gherghel I., Jablonski D., Lymberakis P. & Poulakakis N. Investigating the phylogeography and population structure of the *Podarcis tauricus* group. *Proceedings of the 7th Biennial Conference of the International Biogeography Society*, [p.179](#), Bayreuth, Germany, 08-12 January.
- 2014 **Psonis N.**, Dimopoulou A., Lymberakis P., Blosat B., & Poulakakis N. Study of the genetic diversity of *Natrix natrix* (Squamata: Colubridae) in Cyprus. *Proceedings of the 7th Hellenic Ecological Congress*, [p.278](#), Mytilini, Greece, 09-12 October, [In Greek].
- 2013 **Psonis N.**, Dimopoulou A., Kapli P., Lymberakis P., Nikolaou C. & Poulakakis N. The genetic differentiation of the endemic *Hierophis cypriensis* (Squamata: Colubridae) in Cyprus. *Proceedings of the 7th Hellenic Ecological Congress*, [p.277](#), Mytilini, Greece, 09-12 October, [In Greek].
- 2014 **Psonis N.**, Antoniou A., Kukushkin O.V., Petrov B., Crnobrnja – Isailović J, Gherghel I., Jablonski D., Lymberakis P & Poulakakis N. Molecular Phylogeny and phylogeography of the *Podarcis tauricus* group (Sauria, Lacertidae). *Proceedings of the 7th Hellenic Ecological Congress*, [p.174](#), Mytilini, Greece, 09-12 October, [In Greek].
- 2013 **Psonis N.**, Kukushkin V.O., Petrov B., Crnobrnja – Isailović J., Gherghel I., Lymberakis P. & Poulakakis N. Phylogeny and phylogeography of the *Podarcis tauricus* group; insights from mitochondrial and nuclear data. *Proceedings of the SEH 17th European Congress of Herpetology*, [p.157](#), Veszprém, Hungary, 22-27 August.
- 2012 **Psonis N.**, Vardinoyannis K., Mylonas M. & Poulakakis N. Molecular phylogeny of the two “close related” snail genera *Helicigona* & *Campylaea* (Gastropoda: Pulmonata) in Greece. *Proceedings of the 12th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, [p.128](#), Athens, Greece, 18-22 June.
- 2012 **Psonis N.**, Vardinoyannis K., Mylonas M. & Poulakakis N. Molecular phylogeny of the two “close related” snail genera *Helicigona* & *Campylaea* (Gastropoda:

- Pulmonata) in Greece. *Proceedings of the 12th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, [p.128](#), Athens, Greece, 18-22 June.
- 2012 **Psonis N.**, Vardinoyannis K., Mylonas M. & Poulakakis N. Molecular Phylogeny of *Helix cincta* (Muller, 1774) and *Helix nucula* (Mousson, 1854) in the eastern Mediterranean. *Proceedings of the 12th International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions*, [p.129](#), Athens, Greece, 18-22 June.
- 2011 Mylonas, M., Vardinoyannis, K., Demetropoulos, S., **Psonis, N.**, Demetropoulos, A. The genus *Turanena* (Gastropoda: Enidae) in the Eastern Mediterranean islands. *Proceedings of the 6th Congress of the European Malacological societies*, Vitoria-Gasteiz, Spain, 18-22 July.
- 2011 **Psonis, N.**, Vardinoyannis, K., Mylonas, M., Poulakakis, N. Incorporation of Genetic Diversity in the Species-Area Relationship: a first approach. *Proceedings of the 5<sup>th</sup> Biennial Conference of the International Biogeography Society*, [p.175](#), Heraklion, Crete, Greece, 07-11 January.
- **PARTICIPATION IN WORKSHOPS, PRACTICAL COURSES, SEMINARS, LECTURES AND OTHER MEETINGS**
- 2024 Lecture series on Neolithization: a history of genes and culture in the context of the European program “NEOMATRIX”, 05 – 06 December, Foundation for Research and Technology – Hellas (FORTH), Heraklion, Crete, Greece.
- 2023 Physalia Practical Course on Population Genomic Inference from low-coverage Whole-Genome Sequencing data, 02 - 05 October, Online event.
- 2023 Seminar on The Natura 2000 network and the protection of biodiversity in Greece – an overview of legislation by WWF Hellas, 13 February, Online event.
- 2023 *IUCN Red List Assessor Training Workshop*, by IUCN and the National Red List of Greece working group, 16-20 January 2023, Online event.
- 2022 Symposium on ancient DNA by SciLifeLab, 29 October, Stockholm University, Stockholm, Sweden, Hybrid event – attended virtually.
- 2022 Wetlab Workshop on capture enrichment in the context of the European program “NEOMATRIX”, 27 April – 29 April, Stockholm University, Stockholm, Sweden.
- 2021 Workshop on *ancient DNA kinship analyses* in the context of the European program “NEOMATRIX”, 29 November – 02 December, Foundation for Research and Technology – Hellas (FORTH), Heraklion, Crete, Greece.
- 2020 Webinar “*The Ups, Downs, Ins & Outs of Computational Genomics in Anthropology*”, 23 November, Online event.

- 2018 Physalia Practical Course on *Introduction in Population Genomics*, 14 - 18 May, Berlin Botanical Garden, Berlin, Germany.
- 2017 Pre-conference tutorial on *Phylogenomics* during the 10th Annual Hellenic Bioinformatics Conference, 6-9 September, Foundation for Research and Technology – Hellas (FORTH), Heraklion, Crete, Greece.
- 2014 Workshop on *Data Management* in the context of the European program “Hellenic Network for Biodiversity Research: Construction and operation of the national Lifewatch research infrastructure (ESFRI)”, 30 June - 2 July, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.
- 2014 EMBO Practical Course on *Computational Molecular Evolution*, 5 - 14 May, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece
- 2013 Second Metabarcoding Spring School in Crete in the context of MARBIGEN project (FP7-REGPOT-2010-11), 13-17 May, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.
- 2012 Workshop on *Next-Generation Sequencing technologies and Informatics tools for studying Marine Biodiversity and Adaptation* in the context of MARBIGEN project (FP7-REGPOT-2010-11), 01-03 October, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.
- 2012 Course on *The basic principles of Coalescent theory and Applications*, in the context of MARBIGEN project (FP7-REGPOT-2010-11), 20-24 February, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.
- 2011 Workshop on *Microbial Diversity, Genomics and Metagenomics* in the context of MARBIGEN project (FP7-REGPOT-2010-11), 14-16 December, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.
- 2011 Workshop on *Genomics in Biodiversity*, 16 September 2011, Institute of Marine Biology and Genetics, Hellenic Centre for Marine Research, Gouves, Heraklion, Crete, Greece.

- **TEACHING ACTIVITIES**

- 2024 Course Instructor - “BIOL-455DEM: Analysis of Ancient Genomes: Study of the Past and Human Evolution”. Spring Semester, Department of Biology, University of Crete. Within the framework of the program: **Acquisition of academic teaching experience to young scientists holding a PhD (2023-2024)**.
- 2019 – 2024 Invited lecturer – “Ancient DNA and applications” annual lecture in the context of the course “New technologies in Environmental Science”, Postgraduate M.Sc. Program of Environmental Biology, Biology Department, University of Crete, Greece.
- 2021 Lecturer – “A general introduction to ancient DNA analysis” online lecture in the context of the Aegean Seminars for Computational Ecology and Evolution, 28 April.
- 2021 Invited lecturer – “Ancient DNA and applications” online lecture, in the context of seminar series for graduate students of the Department of Biological Sciences, University of Cyprus, Cyprus, 31 March.
- 2018 – 2019 Instructor – “Principles of Molecular and Cellular Biology” course in the Postgraduate MSc Program of Bioinformatics, Medical School of the University of Crete, Greece.
- 2018 Instructor – “Analysis of ancient DNA” computational practical course in the context of the Aegean Seminars for Computational Ecology and Evolution, Izmir, Turkey, 16-22 September.
- 2018 Lecturer – “Ancient DNA Analysis” workshop in the context of the 26<sup>th</sup> annual CIDOC - ICOM Conference, Heraklion, Greece, 30 September.
- 2014 Teaching Assistant – “DNA extraction” practical lab course in the context of the course Evolutionary Ecology, University of Crete, Department of Biology, 30 April.
- 2012 Teaching Assistant – “Description of the Respiratory System in Mammals” lecture in the context of the course *Animal Physiology*, University of Crete, Department of Biology, 29 April.

- **SUPERVISION OF GRADUATE AND UNDERGRADUATE STUDENTS**

- 2017 – Two (2) Master students (unofficial supervisor) and two (2) Bachelor students (official supervisor to one of them). Ancient DNA Lab, IMBB-FORTH, Greece.
- 2012 – 2017 Two (2) Master students and 1-2 Bachelor students per year (unofficial supervisor for all). Molecular Systematics Lab, Natural History Museum of Crete, University of Crete, Greece

- **REVIEWING ACTIVITIES**

Peer-reviewed journal referee in 15 journals (**25** reviews)

- 2024 – Science Bulletin, 1 review  
2024 – PLOS ONE, 2 reviews  
2023 – Human Genomics, 1 review  
2023 – Archiv für Molluskenkunde, 1 review  
2022 – Journal of Zoological Systematics and Evolutionary Research, 1 review  
2020 – Communications Biology, 1 review  
2019 – Zoologica Scripta, 4 reviews  
2019 – Molecular Ecology, 1 review  
2018 – Mitochondrial DNA Part A, 1 review  
2018 – Herpetological Monographs, 1 review  
2017 – Asian Herpetological Research, 1 review  
2017 – The European Zoological Journal, 4 reviews  
2017 – BMC Zoology, 1 review  
2017 – Russian Journal of Herpetology, 1 review  
2016 – Molecular Phylogenetics and Evolution, 4 reviews

- **ORGANISATION OF SCIENTIFIC MEETINGS**

- 2015 Proceedings Editor, 13<sup>th</sup> International Congress on the Zoogeography and Ecology of Greece and Adjacent Regions, Heraklion, Greece, 07-11 October, 583 authors.
- 2011 Organizing Board Member, 12<sup>th</sup> Annual Meeting of Master studies in Environmental Sciences of the Biology Department, University of Crete, Chania, Greece, 30 June – 02 July.
- 2011 Organizing volunteer, 9<sup>th</sup> Annual Meeting of the European Association of Vertebrate Palaeontologists, Heraklion, Greece, 14-19 June.
- 2011 Organizing volunteer, 5<sup>th</sup> Biennial Conference of the International Biogeography Society, Heraklion, Greece, 07-11 January



- **TRANSLATIONS**

2017 Colorbook *Adventures in Archaeological Science*, Christina Warinner (editor), Max Planck Institute for the Science of Human History, 24 November 2017, Jena, Germany, [15 pages](#). [From English to Greek].

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

2021 – 2022 Member, Research Network “European Association of Archaeologists”

2019 – Member, Research Network “Hellenic Evolutionary Society”

2014 – Member, Research Network “Hellenic Herpetological Society”

2013 – 2022 Member, Research Network “Societas Europaea Herpetologica”

2011 – 2015 Member, Research Network “International Biogeographical Society”

2010 – Member, Research Network “Hellenic Ecological Society”

2009 – Member, Research Network “Hellenic Zoological Society”

- **LAB SKILLS AND FIELD EXPERIENCE**

Molecular biology wetlab

- Tissue sampling from animals, DNA Extraction, PCR, Sanger Sequencing
- Gene Cloning
- Microsatellite Genotyping
- Genomic (ddRADseq) Illumina “libraries” preparation (Next Generation Sequencing)

Ancient DNA

- *In situ* excavation and museum collection sampling of biological residues
- Cleanroom processes including handling and processing of archaeological – paleontological biological material, ancient DNA extraction, ancient DNA genomic shotgun double-stranded and single-stranded Illumina “libraries” preparation
- In solution capture – enrichment using *in silico* designed RNA baits

Zoology

- Field sampling of reptiles, amphibians and invertebrates (many expeditions in the Greek mainland area, in Crete and on Ionian and Aegean Islands)
- Morphological identification of reptile and amphibian specimens (collaboration with the Vertebrates lab, Natural History Museum of Crete)

- **COMPUTER SKILLS**

Bioinformatics (see below for list of software)

- Sequence alignment, phylogeny reconstruction, divergence times estimation, species delimitation, biogeographic analyses, statistical tests, model selection, haplogroup network reconstruction
- Population Genetics analyses for the detection of population structure, admixture and demographic events
- Next Generation Sequencing workflow for genomic (ddRADseq) data and phylogenomic analyses using computer clusters
- Workflow for ancient DNA data analysis (raw NGS data handling and filtering, mapping to reference genome, damage patterns and contamination estimation, sex determination, kinship detection, molecular identification of species, phenotypic imputation (hair – eyes color), mtDNA and Y-chr haplogroup assignment, ancient pathogen detection via metagenomics, population genomics)

Other software

- Microsoft Office™ (Word, Power Point, Excel)
- Design applications (PhotoShop™, CorelDRAW, Inkscape)
- Statistic applications (SPSS)
- Bibliography organizers (EndNote, ReadCube, Paperpile)

Coding languages

- Moderate knowledge of Unix systems and familiarity with bash scripting
- Basics in Python language
- Some familiarity with R language

List of bioinformatics software

- Molecular phylogenetic and population genetics applications

Adegenet, Arlequin, BayesAss, BEAST, BEAST 2, BP&P, ClustalX, Clump, CLUMPAK, CodonCode Aligner, Dendroscope, DensiTree, Distruct, DNAsp, ExaML, ExaBayes, FinchTV, FigTree, Fstat, Geneland, Genepop, kgtests, Lagrance, MAFFT, MEGA, ML-relate, Modeltest, MrBayes, Network, PAML, PartitionFinder, PAUP, PGDSpider, Phase, Phylocom, pyRAD, RAxML, RASP, Seaview, Sequencher, Sequin, SPLITS, STACEY, TCS, Tracer, TreeView

- Ancient DNA computational tools

AdapterRemoval, AdmixTools, ADMIXTURE, angsd, BCFtools, BEAGLE, BWA, BOWTIE, cutadapt, dice, Dsuite, EAGER, fastq\_screen, FastQC, GATK, Haplogrep, HOPS, kraken, KrakenTools, Krona, malt, mapDamage, MaxSSmap, megan, MITObim,

plink, PMDtools, preseq, picard, qualimap, READ, SAMtools, schmutzi, seqkit, SeqPrep, seqtk, sequenceTools, Rx\_method, Ry\_method, Tablet, treemix, vcftools, Yfitter, yhaplo, Yleaf.

- **PERSONALITY**

- Organized
- Independent
- Creative
- Patient
- Co-operative