Adomas Ragauskas

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2008 – 2013	PhD degree in Biomedical Sciences, Ecology and Environmental Sciences (03B); Ecology and Environmental Research Council of Vilnius University and Nature Research Centre. Dissertation theme: "Investigation into population genetic structure of eel *Anguilla anguilla* (L.) and perch *Perca fluviatilis* L. within the context of anthropogenic activity", supervisor – dr. (HP) D. Butkauskas. Research scope: population genetics; genetic diversity of commercially valuable fish species (eel and perch).
2006 – 2008	Vilnius University, Faculty of Natural Sciences, Genetics programme (62101B105), Master's degree in biology. Work theme: "Investigation of European Eel *Anguilla anguilla* (L.) Genetic Variability in Lithuania Using Microsatellite DNA Markers". Work carried out in the Molecular ecology laboratory of the Institute of ecology of Vilnius University. Research scope: population genetics; investigation into intraspecific genetic diversity of eel in Lithuania and Latvia.
2002 – 2006	Vilnius University, Faculty of Natural Sciences, Molecular biology programme (61201B105), Bachelor's degree in biology. Work theme: "Investigation of European Eel *Anguilla anguilla* (L.) Genetic Variability in Lithuania Using Microsatellite DNA Markers". Work carried out in the Population genetics laboratory of the Institute of ecology of Vilnius University. Research scope: population genetics; investigation into intraspecific genetic diversity of eel in Lithuania and Latvia.

PROFESSIONAL EXPERIENCE

2020 05 – until now	**Researcher** (since 2020 05 20 – Nature Research Centre, Molecular ecology laboratory)
2019 05 – 2020 05	**Junior researcher** (since 2019 05 20 – Nature Research Centre, Molecular ecology laboratory)
2014 05 – 2019 05	**Researcher** Nature Research Centre, Molecular ecology laboratory
2013 09 – 2014 05	**Junior researcher** Nature Research Centre, Molecular ecology laboratory
2013 02 – 2013 05	**Biologist** Nature Research Centre, Molecular ecology laboratory

2012 02 – 2013 02 **Senior assistant**
Nature Research Centre, Molecular ecology laboratory
2008 11 – 2012 11 **PhD student**
Nature Research Centre, Molecular ecology laboratory

RESEARCH INTERESTS

Research scope: Investigations into intraspecific genetic and epigenetic (planned in near future) diversity of fish species within phylogeographic, anthropogenic, conservation and microevolution contexts. Anthropogenic activity impacts on the changing and formation of population genetic structure of commercially valuable fish species, especially *Anguilla anguilla* and *Perca fluviatilis*. Ichthyology and molecular ecology. Investigations into intraspecific genetic diversity and microevolution of other taxonomic groups. For my research I am using standard methods of population genetics: DNA extraction from various animal tissues, PCR with mtDNA and/or DNA microsatellite markers, electrophoresis, DNA sequencing and/or microsatellite fragments length analysis.

PUBLICATIONS

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science" database (with citation index):

1. Prakas, P., Butkauskas, D., Švažas, S., Bea, A., Yanenko, V., **Ragauskas, A.**, Vaitkuvienė, D. 2021. The genetic diversity and structure of the European Turtle Dove *Streptopelia turtur*. *Animals* 11(5): 1283. DOI: 10.3390/ani11051283.
2. **Ragauskas, A.**, Butkauskas, D., Prakas, P., Gadliauskienė, K., Gajduchenko, H., Grauda, D. 2020. Complex phylogeographic relationships among the Eurasian perch (*Perca fluviatilis*) populations in the eastern part of the Baltic Sea Region. *Hydrobiologia* 847(3): 925-938.
3. Butkauskas, D., Pilinkovskij, A., **Ragauskas, A.**, Kesminas, V., Fopp-Bayat, D. 2019. Genetic characterization of Atlantic sturgeon stocking material used in Lithuania to restore the Baltic Sea population. *Acta Ichthyologica Et Piscatoria* 49(3): 251-256.
4. **Ragauskas, A.**, Butkauskas, D., Bianchini, ML. 2017. Distinct matrilines in the panmictic population of the European eel *Anguilla anguilla*? *Aquatic Living Resources* 30: 21.
5. **Ragauskas, A.**, Butkauskas, D., Sruoga, A., Kesminas, V., Rashal, I., Tzeng, WN. 2014. Analysis of the genetic structure of the European eel *Anguilla anguilla* using the mtDNA D-loop region molecular marker. *Fisheries Science* 80(3): 463-474.

Scientific articles published in journals (books), indexed in „Clarivate Analytics Web of Science" database (without citation index):

1. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2014. Investigation into genetic diversity of perch inhabiting Lake Drūkšiai and other water bodies of Lithuania on the basis of mtDNA analysis. *Zoology and Ecology* 24(2): 154-159.
2. Butkauskas, D., **Ragauskas, A.**, Sruoga, A., Ložys, L., Tzeng, WN. 2009. Current knowledge about European eel *Anguilla anguilla* (L.) mtDNA D-loop region haplotypic variety. *Acta Zoologica Lituanica* 19(4): 253-267.
3. Sruoga, A., Butkauskas, D., **Ragauskas, A.**, Ložys, L. 2007. Investigation of genetic variability in the European eel (*Anguilla anguilla* (L.)) in Lithuania using microsatellite DNA markers. *Acta Zoologica Lituanica* 17(2): 116-123.

Reviewed scientific articles, published in Lithuania:

1. **Ragauskas, A.**, Butkauskas, D. 2013. The formation of the population genetic structure of the European eel *Anguilla anguilla* (L.): a short review. *Ekologija* 59(4): 143-154.

PARTICIPATION IN INTERNATIONAL AND NATIONAL SCIENTIFIC PROGRAMMES AND PROJECTS

2020 – 2022 **Project implementer** Project "Expert evaluation of current situation of carp selection and creation and monitoring of programme based on recommendations for new strains that are adapted to local conditions" ("KARPIAI", 2020-06-30 contract Nr. MT-20-8 with the National payment agency under the Ministry of Agriculture of the Republic of Lithuania).

2017 – 2021 **Project implementer** Long-term institutional research and experimental (social, culture) expansion programme named "Molecular basics of biological diversity and ecology of wildlife".

2018 – 2019 **Project implementer** Project of Nature Research Centre together with Science and innovation and technology agency (implementing institution) named "Creation of innovative multifunctional biotextile with integrated silicium dioxide and succinite additions and research of the impact of this product". Financed by 01.2.2.-MITA-K-702 application "Promotion of commercial and international MTEP results" (acronym IFSITEX, dotation contract 2018-05-02 Nr. 01.2.2-MITA-K-702-02-0002).

2010 – 2012 **Project implementer** International programme financed by Science Councils of Lithuania, Latvia and Taiwan named "Evaluation of nuclear power impact on perch (*Perca fluviatilis*) population by means of genetic based analysis and application of fish otoliths as natural recorders of radiocontamination and thermal pollution" (project contract Nr. TAP-01/2010; TAP-01/2011; TAP LLT 09/2012).

INTERNSHIP AND TRAINING

2022 09 Based on the "Erasmus" programme, a few days were consultations and training of scientists and one student from Daugavpils according to the "Population Genetics of Aquatic Organisms" theme.

2018 Few weeks supervision for three students (two bachelors and one master) from Latvia. These students carried out investigations into perch genetic diversity.

2005-2007 Three Student Scientific Practices organized by Lithuanian Science Council that were carried out in the Population genetics laboratory of the Institute of ecology of Vilnius University:

Student Scientific Practice III was carried out by supervision of dr. Dalius Butkauskas. Theme: "Determination of the genetic structure of introduced and natural eel populations based on microsatellite markers".

Student Scientific Practice II was carried out by supervision of dr. Dalius Butkauskas. Theme: "Investigation of European Eel *Anguilla anguilla* (L.) Genetic Variability in Lithuania Using Microsatellite DNA Markers".

Student Scientific Practice I was carried out by supervision of prof., habil. dr. Aniolas Sruoga. Theme: "Investigation of European Eel *Anguilla anguilla* (L.) Genetic Variability in Lithuania Using Microsatellite DNA Markers".

PARTICIPATION IN SCIENTIFIC CONFERENCES

International scientific conferences:

1. **Ragauskas, A.**, Urbonaitė, I., Butkauskas, D. 2018. First results of investigation into genetic diversity of Eurasian perch (*Perca fluviatilis*) mtDNA ATP6 gene. 7th Baltic Genetics Congress 245. Riga
2. Butkauskas, D., Grauda, D., **Ragauskas, A.** 2018. High variability of D-loop characteristic of Eurasian perch *Perca fluviatilis* and roach *Rutillus rutilus.* 7th International Molecular Biology and Biotechnology Congress 57. Konya
3. Pilinkovskij, D., Butkauskas, Pažusytė, A., D., **Ragauskas, A.**, Kesminas, V. 2016. Molecular tools for genetic monitoring and re-establishment of population of *A. oxyrinchus* in Lithuania. International Sturgeon Meeting ISM-2016 48. Krasnodar
4. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2015. Analysis of the genetic structure of the European eel (*Anguilla anguilla*) using the mtDNA cyt *b* molecular marker. 6th Baltic Genetics Congress 35. Tartu
5. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2014. Investigation into genetic diversity of perch within the context of NPP activity. 11th International Congress on the Biology of Fish 193. Edinburgh

National scientific conferences:

1. **Ragauskas, A.** 2013. Comparison of population genetic structure of eel *Anguilla anguilla* (L.) and perch *Perca fluviatilis* L. using mtDNA markers. Lithuanian Academy of Sciences organized junior scientists conference, Bioateitis: perspectives of nature and life sciences: 7-8. Vilnius
2. Butkauskas, D., **Ragauskas, A.**, Sruoga, A., Ložys, L., Rashal, I. 2012. D-loop sequence variation and phylogeographic relationships of perch populations in the Baltic region. 5th International Conference, Baltic Congress of Genetics: 27. Kaunas
3. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2010. Discrimination of *Anguilla anguilla* and *A. japonica* species by comparison of homologous mtDNA D-loop region sequences. 5th International Student Conference, Biodiversity and Functioning of Aquatic Ecosystems in the Baltic Sea Region: 69-70. Palanga
4. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2009. Genetic diversity of the European eel *Anguilla anguilla* (L.): A case study in the Lithuania. 4th International Student Conference, Biodiversity and Functioning of Aquatic Ecosystems in the Baltic Sea Region: 5. Dubingiai
5. **Ragauskas, A.**, Butkauskas, D., Sruoga, A. 2009. European eel *Anguilla anguilla* (L.) mtDNA D-loop region sequence analysis and species conservation. International Conference, Biodiversity, Protection and Prospects of Baltic Seashore Habitats: 43. Klaipėda

PARTICIPATION IN THE STUDY PROCESS

Scientific consultant:

Gabriela Liubartaitė	Bachelor‘s work: “Genotyping of *Cyprinus carpio* in offspring generation of Lithuanian strains utilising microsatellite markers” (Vilnius University, Life Sciences Center, Molecular biology study programme)	2021 – 2022

Supervision of bachelor and master students:

Ieva Lentinaitė	Bachelor‘s work: “Genetic diversity of common carp *Cyprinus carpio* L. strains found in Lithuania” (Vilnius University, Life Sciences Center, Molecular biology study programme)	2020 – 2021
Ieva Urbonaitė	Master‘s work: “Population genetics studies of perch (*Perca fluviatilis* L.) within the context of anthropogenic activity using mtDNA and DNA microsatellites molecular markers” (Vilnius University, Life Sciences Center, Genetics study programme)	2017 – 2019
Ieva Urbonaitė	Bachelor‘s work: “Investigations of genetic structure of perch *Perca fluviatilis* L. using DNA microsatellites” (Vilnius University, Life Sciences Center, Molecular biology study programme)	2016 – 2017
Karolina Gadliauskienė	Master‘s work: “Population genetics studies of Eurasian perch (*Perca fluviatilis* L.) in Lithuania and Latvia based on mtDNA markers” (Vilnius University, Faculty of Natural Sciences, Center of Ecology and Environment, Ecology study programme)	2014 – 2016

OTHERS

Review and expert activities:

Viktorija Juknevičiūtė	Bachelor‘s work: “Diversity of viruses associated with sulfur-metabolizing bacteria” (Vilnius University, Life Sciences Center, Biology study programme)	2022

1. Aside from the mentioned reviewed bachelor’s work, I also reviewed a few scientific articles (two of my reviews are presented in (www.researchgate.net/profile/Adomas_Ragauskas).

Scientific awards and scholarships

1. 2014; Diploma awarded by Lithuanian Academy of Sciences for my “Investigation into population genetic structure of eel *Anguilla anguilla* (L.) and perch *Perca fluviatilis* L. within the context of anthropogenic activity” work in organized “Young scientists scientific works” contest.
2. 2010-2012; In 2010-2011 I gained two PhD scholarships from the Lithuanian State Studies Foundation. In 2012 I also gained a PhD scholarship from the Lithuanian Science Council.
3. 2009; PhD scholarship from the Lithuanian State Science and Studies Foundation (currently the Lithuanian State Studies Foundation).