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Studies

- Graduate: Agricultural University of Athens. Specialization: Animal Science.
- PhD: University of Hohenheim, Germany. Specialization: Animal Breeding. PhD thesis: 'Model calculations for optimizing breeding schemes in the Karagouniko dairy sheep of Greece'.

Research interests

- Estimation of genetic parameters in livestock populations.
- Genetic association studies in human and animal populations.
- Application of statistical methods in data analysis.

Teaching

Subjects: Animal Breeding (graduate & postgraduate courses).

Research projects

- 'Genomic selection in dairy sheep'. Action: "Cooperation 2011" (2013-2015). Ministry of Education and Religious Affairs. Scientific supervisor.
- 'Self sufficient production of beef meat of fine quality. Action: PAVET 2013 (2014-2015). Ministry of Education and Religious Affairs. Scientific supervisor.
- 'Genome scanning and identification of genes controlling (re)production traits in broilers' (2016-2020). Aviagen Ltd. Scientific supervisor.
- 'Innovation for Sustainable Sheep and Goat Production in Europe (iSAGE)' (2017-2020). Horizon 2020 - Research and Innovation Framework Programme. Scientific consultant of Agricultural and Livestock of Western Greece (Industry Partner).
- 'Genome Wide Association Scanning and Gene Network Analysis of Body Weight in broilers' Grant: MIS 5005869. Union (European Social Fund - ESF) through the Operational Programme Human Resources Development, Education and Lifelong Learning 2014-2020. Scientific supervisor.
- SMALL RuminanTs breeding for Efficiency and Resilience (SMARTER). (2018-2022). Horizon 2020 - Research and Innovation Framework Programme. Scientific consultant of Agricultural and Livestock of Western Greece (Industry Partner).

Extension service

Agricultural and Livestock of Western Greece (1999-2015, 2017-2022), Agricultural Association of Parakoila Lesvou (1999-2014), Agricultural Association of Petra Lesvou (2012-2015), Breeders' Association of Skyros Horse (2012-2014), Association of Pastoral Farmers of Epirus (2018-2022), Breeders' Association of Lesvos sheep (2018-2022), Skalochori Association of Lesvos (2018-2022).

Publications/Presentations (selected)

- Liandris E, Kominakis A, Andreadou M, Kapeoldassi K, Chadio S, Tsiligianni T, Gazouli M, Ikononopoulos I, 2012. Associations between single nucleotide polymorphisms of *GDF9* and *BMP15* genes and litter size in two dairy sheep breeds of Greece. *Small Rum. Res.* 107(1): 16-21.

- Nezamidoust M, Kominakis A, Safari A, 2013. Use of Wood's model to analyze the effects of milking methods on lactation curve in sheep. *Small Rum. Res.* 113(1): 195-204.
- Maniatis G, Demiris N, Kranis A, Banos G, Kominakis A, 2013. Genetic analysis of sexual dimorphism of body weight in broilers. *J. Appl. Gen.* 54 (1): 61-70.
- Maniatis G, Demiris N, Kranis A, Banos G, Kominakis A, 2013. Model comparison and estimation of genetic parameters for body weight in commercial broilers. *Can. J. Anim. Sci.* 93(1): 67-77.
- Kassi E., Sule, E., Kominakis, E., Spilioti E., Moutsatsou, P., 2014. Lack of Association Between Estrogen Receptor-Alpha Single-Nucleotide Polymorphism (Codon 594 G-->A) and Postmenopausal Osteoporosis: A Pilot Study. *Hospital Chronicles*, 9(2): 1-4.
- Maniatis G, Demiris N, Kranis A, Banos G, Kominakis A, 2015. Comparison of inference methods of genetic parameters with an application to body weight in broilers. *Archives Animal Breeding*, 58: 277-286.
- Mastranestasis I, Kominakis A., Hager-Theodorides A, Ekateriniadou LV, Ligda, Ch, Theodorou, K. 2016. Associations between genetic polymorphisms and phenotypic traits in the Lesvos dairy sheep. *Small Rum. Res.* 144: 205–210
- Kassi E, Semaniakou A, Sertedaki A, Evangelopoulos ME, Kazazoglou T, Kominakis A, Sfagos C, Charmandari E, Chrousos GP, Moutsatsou P, 2016. Sequencing analysis of the human glucocorticoid receptor (*NR3C1*) gene in multiple sclerosis patients. *Journal of the Neurological Sciences* 363:165–169.
- Kominakis, A, Hager-Theodorides AL, Saridaki A, Antonakos G, Tsiamis, G, 2017. Genome-wide population structure and evolutionary history of the Frizarta dairy sheep. *Animal*. doi:10.1017/S1751731117000428.
- Kominakis A, Hager-Theodorides AL, Saridaki A, Zoidis E, Antonakos G, Tsiamis G, 2017. Combined GWAS and 'Guilt By Association' based prioritization analysis identified functional candidate genes for body size in sheep. *Genet Sel Evol.* 49(1):41 doi: 10.1186/s12711-017-0316-3.
- Kominakis A, Tarsani E, Maniatis G, Olori V, Kranis, A, 2018. Estimation of heritability of body weight in broilers using pedigree and dense genome-wide SNP data. 11th World Congress on Genetics Applied to Livestock Production. Aotea Centre Auckland, New Zealand, 11–16 February 2018. Poster presentation.
- Tarsani E, Kranis A, Maniatis G, Kominakis A, 2018. Investigating the functional role of 1,012 candidate genes identified by a Genome Wide Association Study for body weight in broilers. 11th World Congress on Genetics Applied to Livestock Production. Aotea Centre Auckland, New Zealand, 11–16 February 2018. Oral presentation.
- Tarsani E, Kominakis A, Theodorou G, Palamidi I, 2018. Exploiting extreme phenotypes to investigate haplotype structure and detect signatures of selection for body weight in broilers. XVth European Poultry Conference. Dubrovnik, 17 - 21 September 2018.
- Kominakis A, Antonakos G., Saridaki A. 2019. Estimation of genomic breeding values for three milk traits in the Frizarta dairy sheep. Poster Presentation. EAAP meeting Ghent, 2019.
- Tarsani E, Kranis A, Maniatis G, Avendano S, Hager-Theodorides A, Kominakis, A. 2019. Fine-mapping additive and dominant SNP effects impacting on egg number in female broilers. XIth European Symposium on Poultry Genetics, Prague, October 2019.
- Tarsani E, Kranis A, Maniatis G, Avendano S, Hager-Theodorides A, Kominakis, 2019. Discovery and characterization of functional modules associated with body weight in broilers. *Scientific Reports*. Pub Date : 2019-06-24 , DOI: 10.1038/s41598-019-45520-5.
- Kominakis A., Saridaki A, Antonakos G, 2019. Novel candidate genes for somatic cell count in Frizarta dairy sheep. *International Journal of Genetics and Genomics*. Vol. 7, No. 4, 2019, pp. 103-109. doi: 10.11648/j.ijgg.2019070.

- Tarsani E, Theodorou G, Palamidi I, Kominakis, A. 2020. Identification of candidate genes for body weight in broilers using extreme phenotype GWAS. *Int. Journ. Gen. Genomics*. Vol. 8, No. 1, 2020, pp. 29-40. doi: 10.11648/j.ijgg.20200801.14.
- Tarsani, E, Kranis A, Maniatis, G, Avendano S, Hager-Theodorides A, Kominakis, A. 2020. Deciphering the mode of action and position of genetic variants impacting on egg number in broiler breeders. *BMC Genomics* (accepted).
- Kominakis A, Tarsani E, Hager A, Hadjigeorgiou I, 2020. Exploiting most informative markers to predict group membership of North Aegean sheep, EAAP 2020 Porto. Presentation (accepted).
- Kominakis A, Hager A, Tarsani E, Hadjigeorgiou I, 2020. A variant in intron 11 of *RXFP2* gene is associated with the polled phenotype in North Aegean sheep populations. EAAP 2020. Porto. Presentation (accepted).