

Dr Eng. Łukasz Migdał



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Faculty of Animal Science

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Consultation hours: Monday – 12.00-13.00; Wednesday 13.30-15.00

Research interest:

- Genetics – PCR, sequencing, Bioinformatics
- Animal Husbandry - especially rabbits breeding and selection based on molecular methods
- Meat quality and meat analysis

PI in current projects:

1. Local rabbits breeds - cultural heritage within "functional food" idea - Visegrad Fund
2. Increasing of meat rabbits technology efficiency by development of new way of selection - National Centre for Research and Development

Research experience:

Visiting Scholar:

1.09.2016 - 30.09.2016 - scientific internship in Department of Food Hygiene and Safety, Slovak University of Agriculture in Nitra, Slovakia – NGS sequencing training

17.09.2019 – 04.10.2019 - scientific internship in Department of Food Hygiene and Safety, Slovak

University of Agriculture in Nitra, Slovakia – microarray sequencing training and animal products identification techniques

PhD: 2013 PhD thesis “Analysis of polymorphisms within coat colour genes (ASIP, cKIT, MC1R, TYR, TYRP-1) within different colour form of nutrias (*Myocastor coypus Mol.*)”

Faculty of Animal Sciences/ Department of Poultry and Fur Animal Breeding and Animal Hygiene, University of Agriculture in Krakow, Poland

MSc, 2008 ., MSc dissertation: Master’s thesis: “Use of ELISA test in the analysis of IGF-1 gene expression in pigs” Faculty of Animal Sciences, University of Agriculture in Krakow, Poland

Professional profiles:

ORCID: <https://orcid.org/0000-0002-5270-9455>

Mendeley: <https://www.mendeley.com/profiles/ukasz-migda2/>

Research Gate: https://www.researchgate.net/profile/Lukasz_Migdal

Google Scholar: <https://scholar.google.pl/citations?hl=pl&user=p5V3tZIAAAAJ>

List of publications:

Guja I., Lapinski S., Migdal L. , Palka S., Ząbek T., Sergina S.N. (2016) Microsatellite polymorphism in the population of nutria (<i>Myocastor coypus</i>) bred in Poland. Russian Journal of Genetics, 52 (5), 590–594.
Migdal L. , Ząbek T., Migdał A., Łapiński S., Bieniek J., Bugno-Poniewierska M. (2016) Cross species amplification of coat colour genes in nutria (<i>Myocastor coypus mol.</i>), Folia Biologica (Kraków), vol. 64 2, 105-111 DOI: 10.3409/fb64_2.105
Migdał A., Migdal L. , Zagrajczuk A., Kochan J., Nowak A., Okólski A. (2017) Influence of sulphur treatment on the level of prolactin and immunoglobulins in the peripheral blood of mares during the postpartum period. Acta Veterinaria Hungarica 65, 3, 417–428 DOI: 10.1556/004.2017.039
Lapinski S., Gacek L., Gawronska J., Guja I., Kowal J., Migdal L. , Migdal W., Niedbala P. (2018) The effect of phytogenic feed additives on the performance, meat quality and coccidial infection rates of rabbits. Indian Journal of Animal Research 52, 7, 1082-1086 https://doi.org/10.18805/ijar.v0iOF.8482
Migdal L. , Koziol K., Migdał W., Pałka P., Kmiecik M., Migdał A., Bieniek J. (2017) rabbits breeding in poland – possibility of implementation of marker assisted selection (MAS) in breeding. Proceedings of the 11th International Symposium Modern Trends in Livestock Production, 245-355.
Migdal L. , Koziol K., Palka S., Migdal W., Zabek T., Otwinowska-Mindur A., Migdal A., Kmiecik M., Maj D., Bieniek J. (2018) Mutations in leptin (LEP) gene are associated with carcass and meat quality traits in crossbreed rabbits. Animal Biotechnology 29, 2, 153-159 https://doi.org/10.1080/10495398.2017.1347881
Migdal L. , Koziol K., Pałka S., Migdał W., Otwinowska-Mindur A., Kmiecik M., Migdał A., Maj D., Bieniek J. (2018) Single nucleotide polymorphisms within rabbits (<i>Oryctolagus cuniculus</i>) fatty acids binding protein 4 (FABP4) are associated with meat quality traits. Livestock Science, 210, 21-24 https://doi.org/10.1016/j.livsci.2018.01.018
Migdal L. , Radović C., Živković V., Gogić M., Migdał A., Migdał W. (2018) Characterization of meat traits and fatty acids profile from Swallow-Belly Mangalitsa, Moravka pigs and their crossbreeds. Annals of Warsaw University of Life Sciences – SGGW Animal Science No 57 (4): 365–378
Migdal L. , Pałka S., Kmiecik M., Derewicka O. (2019) Association of polymorphisms in the GH and GHR genes with growth and carcass traits in rabbits (<i>Oryctolagus cuniculus</i>) Czech Journal of Animal Science, 64(6): 255–264

<https://doi.org/10.17221/27/2019-CJAS>

Migdał A., **Migdał L.**, Oczkowicz M., Okólski A., Chelmońska-Soyta A (2020) Influence of Age and Immunostimulation on the Level of Toll-Like Receptor Gene (TLR3,4, and 7) expression in foals. *Animals*, 10, 1966 <https://doi.org/10.3390/ani10111966>