Prof. Joanna Makulska, PhD. Eng.

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Consultation hours:

Monday 10.00 - 12.00

Research interest:

- **Animal production efficiency**
- **Monitoring and data processing, decision support systems in livestock management**
- **Environmental, economic and social sustainability of animal production**
- **Animal welfare, product quality and impact of agricultural activity on environment**

Research experience:

Visiting Scholar (uczelnia, okres trwania)

- **Institut für Nutztierwissenschaften, Gruppe Tierzucht, ETH, Zurich; Switzerland – 6 months, 1992**
- **National Institute of Animal Science, Foulum, Denmark - 4 months, 1993**

- **Swiss Brown Cattle Breeders' Federation, Zug, Switzerland - 2 weeks, 1997**
- **Royal Veterinary and Agricultural University, Copenhagen, Denmark; 1 month,1998**
- **University of Copenhagen, Denmark, course Advanced Herd Management - 1 month, 2007**
- **University of Copenhagen, Denmark – 1 week, 2011**

DSc, (Habilitation)

2007 - Mathematical modeling in supporting decisions in bull fattening

PhD

1992 - Effect of bull age, intensity and duration of use on some semen characteristics

Professional profiles (examples):

ORCID: https://orcid.org/0000-0002-1784-3616
Research ID: https://publons.com/researcher/2204536/joanna-makulska/

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

Academia: https://urkrakow.academia.edu/JoannaMakulska/

Google Scholar: https://scholar.google.pl/citations?hl=pl&user=yhv77sUAAAAJ
LinkedIn: https://www.linkedin.com/in/joanna-makulska-8a618842/

List of publications: 10 najważniejszych z 5 ostatnich lat (obligatoryjnie)

1. Pokorska J., Kułaj D., Dusza M., Żychlińska-Buczek J**., Makulska J.** New Rapid Method of DNA Isolation from Milk Somatic Cells. *Animal Biotechnology*, 27, 2, 2016, 113–117
2. Adamczyk K., Zaborski D., Grzesiak W., **Makulska J.,** Jagusiak W. Recognition of culling reasons in Polish dairy cows using data mining methods. *Computers and Electronics in Agriculture*, 127, 2016, 26-37
3. Adamczyk K., **Makulska J.,** Jagusiak W., Węglarz A. Associations between strain, herd size, age at first calving, culling reason and lifetime performance characteristics in Holstein-Friesian cows. *Animal*, 11, 2, 2017, 327–334
4. Dusza M., Pokorska J., **Makulska J.,** Kułaj D., Cupiał M. L-selectin gene polymorphism and its association with clinical mastitis, somatic cell score, and milk production in Polish Holstein-Friesian cattle. *Czech Journal Animal Science*, 63, 2018, 256-262.
5. Adamczyk K., Jagusiak W., **Makulska J**. Analysis of lifetime performance and culling reasons in Black-and-White Holstein-Friesian cows compared with crossbreds, *Annals of Animal Science*, vol. 18, nr 4, 2018, ss. 1061-1079, DOI:10.2478/aoas-2018-0036
6. Kułaj D., Pokorska J. ,Ochrem A., Dusza M. , **Makulska J.** Effects of the c.8514C > T polymorphism in the osteopontin gene (OPN) on milk production, milk composition and disease susceptibility in Holstein-Friesian cattle, *Italian Journal of Animal Science*, vol. 18, nr 1, 2019, ss. 546-553, DOI:10.1080/1828051X.2018.1547129
7. Cupiał M., **Makulska J.** Modelling of technological processes in a dairy cattle herd. E3S Web of Conferences, 132, 01001, 2019, XXII International Scientific Conference POLSITA 2019 "Progress of mechanical engineering supported by information technology", Czajowice, Poland, September 19-20, 2019, A. Szeląg-Sikora (Ed.), 1-6. https://doi.org/10.1051/e3sconf /2019132010 01
8. Jouan J., De Graeuwe M., Carof M., Baccar R., Bareille N., Bastian S., Brogna D., Burgio G., Couvreur S., Cupiał M., Dumont B., Jacquot A.-L., Magagnoli S., **Makulska J.,** Maréchal K., Pérès G., Ridier A., Salou T., Tombarkiewicz B., Sgolastra F., Godinot O. Learning Interdisciplinarity and Systems Approaches in Agroecology: Experience with the Serious Game SEGAE. *Sustainability*, 2020, 12, 4351.
DOI: 10.3390/su12114351
9. Węglarz A., Balakowska A., Kułaj D., **Makulska J.** Associations of CAST, CAPN1 and MSTN Genes Polymorphism with Slaughter Value and Beef Quality – A Review, *Annals of Animal Science*, vol. 20, nr 3, 2020, ss. 757-774
DOI: 10.2478/aoas-2020-0006
10. Czubernat A., **Makulska J**., Krogh M. A, Stygar A.H. The use of evolutionary operations to assess the intervention effect on the behaviour of dairy cows. *Roczniki Naukowe Polskiego Towarzystwa Zootechnicznego*, t. 16, 2020, nr 4, 59-68
DOI: 10.5604/01.3001.0014.6073