

Doctor of Science Małgorzata Gumulka

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Consultation hours: Tuesday, 01:00-02:00 p.m.

Research interest:

- Reproduction of birds - sexual behavior, sperm quality and hypothalamic-pituitary-gonadal axis activity.
- Quality of poultry products - eggs and meat.
- Chicken broiler production technology.
- Ethology of birds

Research experience:

Visiting Scholar : The Hebrew University of Jerusalem

DSc, (Habilitation): "Seasonal changes in the mating behaviour, semen quality parameters and the hypothalamic-pituitary-gonadal axis activity in ganders"

PhD: "Research on the duration of the fertility period in hens."

MSc: "Oviposition rhythm in broiler breeder hens"

Professional profiles:

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Research ID: <http://www.researcherid.com/rid/Malgorzata> Gumulka

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

Google Scholar: <http://scholar.google.com/Malgorzata> Gumulka

List of publications:

1. Gumulka M., Hrabia A., Avital-Cohen N., Andres K., Rozenboim I. 2020. The effect of parachlorophenylalanine treatment on the activity of gonadal and lactotrophic axes in native Polish crested chickens stimulated to broodiness. *Poultry Science*. 99:2708–2717.
2. Gumulka M., Połtowicz K. 2020. Comparison of carcass traits and meat quality of intensively reared geese from a Polish genetic resource flock to those of commercial hybrids. *Poultry Science*. 99:839–847
3. Ochrem A., Gumulka M., Gucia M. 2018. Effect of repeated gathering and age on the quality of Zatorska Goose feathers. *Journal of Poultry Science*. 55 (3): 224-231.
4. Dishon L., Avital-Cohen N., Zaguri S. Bartman J., Heiblum R., Druyan S., Porter T.E., Gumulka M., Rozenboim I. 2018. In-ovo green light photostimulation during different embryonic stages affect somatotrophic axis. *Poultry Science*. 97 (6): 1998-2004.

5. Dishon L., Avital-Cohen N., Malamud D., Heiblum R., Druyan S., Porter T. E., Gumulka M., Rozenboim I. 2017. In-ovo monochromatic green light photostimulation enhance embryonic somatotropic axis activity. Poultry Science. 96 (6): 1884-1890.
6. Gumulka M., Rozenboim I. 2017. Effect of the age of ganders on reproductive behavior and fertility in a competitive mating structure. Annals of Animal Science. 17 (3): 733-746.
7. Gumulka M., Rozenboim I. 2015. Mating activity and sperm penetration assay in prediction of the reproduction potential of domestic goose in a harem system. Animal Reproduction Science, 161: 138-145
8. Gumulka M., Rozenboim I. 2015. Effect of breeding stage and photoperiod on gonadal and serotonergic axes in domestic ganders. Theriogenology. 84 (8): 1332-1341.
9. Avital-Cohen N., Heiblum R., Rosenstrauch A., Chaiseha Y., Mobarkey N., Gumulka M., Rozenboim I. 2015. Role of the serotonergic axis in the reproductive failure associated with aging broiler breeder roosters. Domestic Animal Endocrinology, 53: 42- 51.
10. Gumulka M., Rozenboim I. 2013. Mating activity of domestic geese ganders (*Anser anser f. domesticus*) during breeding period in relation to age, testosterone and thyroid hormones. Animal Reproduction Science, 142: 183-190.