

PUBLIKACJE 2020

1. Pardyak L, Kaminska A, Brzoskwinia M, Hejmej A, Kotula-Balak M, Jankowski J, Ciereszko A, Bilinska B. Differential expression of cell-cell junction proteins in the testis, epididymis, and ductus deferens of domestic turkeys (*Meleagris Gallopavo*) with white and yellow semen. *Poultry Science*. 2020; 99(1); 555-566.
2. Kamińska A, Pardyak L, Marek S, Wróbel K, Kotula-Balak M, Bilińska B, Hejmej A. Notch signaling regulates nuclear androgen receptor AR and membrane androgen receptor ZIP9 in mouse Sertoli cells. *Andrology*. 2020; 8(2); 457-472.
3. Knapczyk-Stwora K, Costa MC, Gabriel A, Grzesiak M, Hubalewska-Mazgaj M, Witek P, Kozirowski M, Slomczynska M. Transcriptome approach evaluating effects of neonatal androgen and anti-androgen treatments on regulation of luteal function in sexually mature pigs. *Animal Reproduction Science*. 2020; 212, 106252.
4. Witek P, Grzesiak M, Kozirowski M, Slomczynska M, Knapczyk-Stwora K. Effect of neonatal exposure to endocrine-active compounds on plasma lipid and steroid concentrations, and morphology of luteal tissue in the adult pig. *Domestic Animal Endocrinology*. 2020; 70; 106381.
5. Kamińska A, Marek S, Pardyak L, Brzoskwinia M, Pawlicki P, Bilińska B, Hejmej A. Disruption of androgen signaling during puberty affects Notch pathway in rat seminiferous epithelium. *Reprod Biol Endocrinol*. 2020; 18(1); 30.
6. Knapczyk-Stwora K, Nynca A, Ciereszko RE, Paukzsto L, Jastrzebski JP, Czaja E, Witek P, Kozirowski M, Slomczynska M. Transcriptomic profiles of the ovaries from piglets neonatally exposed to 4-tert-octylphenol. *Theriogenology* 2020; 153; 102-111.
7. Grzesiak M, Popiolek K, Knapczyk-Stwora K. Extracellular vesicles in follicular fluid of sexually mature gilts' ovarian antral follicles - identification and proteomic analysis. *Journal of Physiology and Pharmacology* 2020; 71: 1.
8. Hrabia A, Socha JK, Saito N, Grzesiak M, Sechman A. Aquaporin 4 in the chicken oviduct during a pause in laying induced by food deprivation. *Comptes Rendus Biologies* 2020; 343(1): 89-99.
9. Grzesiak M, Maj D, Hrabia A. Effects of dietary supplementation with algae, sunflower oil or soybean oil on folliculogenesis in the rabbit ovary during sexual maturation. *Acta Histochemica* 2020; 122: 151581
10. Hułas-Stasiak M, Jakubowicz-Gil J, Dobrowolski P, Grzesiak M, Muszyński S, Świątkiewicz M, Tomaszewska E. Regulation of folliculogenesis by growth factors in piglet ovary exposed prenatally to β -hydroxy- β -methylbutyrate (HMB). *Annals of Animal Science* 2020; 20(3): 899–917.
11. Kurowska P, Mlyczynska E, Dawid M, Grzesiak M, Dupont J, Rak A. The role of vaspin in porcine corpus luteum. *Journal of Endocrinology* 2020; 247(3): 201-212.
12. Grzesiak M. Vitamin D3 action within the ovary – an updated review. *Physiological Research* 2020; 69(3): 371-378.
13. Ziecik AJ, Drzewiecka K, Gromadzka-Hliwa K, Klos J, Witek P, Knapczyk-Stwora K, Gajewski Z, Kaczmarek MM. Altrenogest affects the development and endocrine

milieu of ovarian follicles in prepubertal and mature gilts†. *Biol Reprod.* 2020;103(5):1069-1084.

14. Wartalski K, Gorczyca G, Wiater J, Tabarowski Z, Palus-Chramiec K, Setkowicz Z, Duda M. Efficient generation of neural-like cells from porcine ovarian putative stem cells - morphological characterization and evaluation of their electrophysiological properties. *Theriogenology.* 2020;155:256-268.
15. Gorczyca G, Wartalski K, Tabarowski Z, Duda M. Proteolytically degraded alginate hydrogels and hydrophobic microbioreactors for porcine oocyte encapsulation. *J Vis Exp.* 2020;(161).
16. Kamińska A, Marek S, Pardyak L, Brzoskwinia M, Bilinska B, Hejmej A. Crosstalk between androgen-ZIP9 signaling and Notch pathway in rodent Sertoli Cells. *Int J Mol Sci.* 2020;21(21):8275.
17. Kamińska A, Marek S, Pardyak L, Brzoskwinia M, Pawlicki P, Bilińska B, Hejmej A. Disruption of androgen signaling during puberty affects Notch pathway in rat seminiferous epithelium. *Reprod Biol Endocrinol.* 2020;18(1):30.
18. Dietrich MA, Adamek M, Jung-Schroers V, Rakus K, Chadzińska M, Hejmej A, Hliwa P, Bilińska B, Karol H, Ciereszko A. Characterization of carp seminal plasma Wap65-2 and its participation in the testicular immune response and temperature acclimation. *Vet Res.* 2020;51(1):142.
19. Profaska-Szymik M, Galuszka A, Korzekwa AJ, Hejmej A, Gorowska-Wojtowicz E, Pawlicki P, Kotula-Balak M, Tarasiuk K, Tuz R. Implication of membrane androgen receptor (ZIP9) in cell senescence in regressed testes of the bank vole. *Int J Mol Sci.* 2020;21(18):6888.
20. Brzoskwinia M, Pardyak L, Rak A, Kaminska A, Hejmej A, Marek S, Kotula-Balak M, Bilinska B. Flutamide alters the expression of chemerin, apelin, and vaspin and their respective receptors in the testes of adult rats. *Int J Mol Sci.* 2020;21(12):4439.
21. Kotula-Balak M, Gorowska-Wojtowicz E, Milon A, Pawlicki P, Tworzydło W, Płachno BJ, Krakowska I, Hejmej A, Wolski JK, Bilinska B. Towards understanding leydigoma: do G protein-coupled estrogen receptor and peroxisome proliferator-activated receptor regulate lipid metabolism and steroidogenesis in Leydig cell tumors? *Protoplasma.* 2020;257(4):1149-1163.
22. Duliban M, Gurgul A, Szmatoła T, Pawlicki P, Milon A, Arent ZJ, Grzmil P, Kotula-Balak M, Bilinska B. Mouse testicular transcriptome after modulation of non-canonical oestrogen receptor activity. *Reprod Fertil Dev.* 2020;32(10):903-913.
23. Kotula-Balak M, Duliban M, Pawlicki P, Tuz R, Bilinska B, Płachno BJ, Arent ZJ, Krakowska I, Tarasiuk K. The meaning of non-classical estrogen receptors and peroxisome proliferator-activated receptor for boar Leydig cell of immature testis. *Acta Histochem.* 2020;122(3):151526.
24. Duliban M, Gorowska-Wojtowicz E, Tworzydło W, Rak A, Brzoskwinia M, Krakowska I, Wolski JK, Kotula-Balak M, Płachno BJ, Bilinska B. Interstitial Leydig cell tumorigenesis-leptin and adiponectin signaling in relation to aromatase expression in the human testis. *Int J Mol Sci.* 2020;21(10):3649.
25. Kalamon N, Błaszczak K, Szłaga A, Billert M, Skrzypski M, Pawlicki P, Górowska-Wójtowicz E, Kotula-Balak M, Błasiak A, Rak A. Levels of the neuropeptide phoenixin-

14 and its receptor GRP173 in the hypothalamus, ovary and periovarian adipose tissue in rat model of polycystic ovary syndrome. *Biochem Biophys Res Commun.* 2020;528(4):628-635.