Prof. dr hab. Renata Ciereszko, prof. zw.

RESEARCH INTERESTS

1. Endocrine regulation of reproductive functions in pigs.
2. The role of prolactin and its mechanism of action in the pig ovary.
3. Hormonal regulation of reproductive processes in fish.
4. The mechanism of phytoestrogen (genistein, daidzein, biochanin A) action in the ovary of the pig.
5. The mechanism of action and degradation of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). The role of the aromatic hydrocarbon receptor (AhR) in the regulation of ovarian function.
6. The mechanism of tamoxifen protective action in the ovary of tumor-bearing rats treated with chemotherapy.

ORIGINAL RESEARCH ARTICLES (since 1993)

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CHAPTERS IN TEXT BOOKS

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GRANT PROJECTS (since 1993)

Principal investigator

The role of protein kinases in the prolactin mechanism of action in luteal and theca cells during the early luteal phase of pigs, State Committee for Scientific Research, Poland, 1998-2000.
Interactions between the prolactin and aryl hydrocarbon receptor systems in the female. New Research Council Twinning Program, USA; 2003-2004.
Molecular mechanism of phytoestrogen action in porcine granulosa cells, Komitet Badań Naukowych, State Committee for Scientific Research, 2003-2005.
Rola i mechanizm działania estrogenów środowiskowych w komórkach ziarnistych pęcherzyka jajnikowego świni, State Committee for Scientific Research, Poland, 2006-2007.
The role of aryl hydrocarbon receptor in the regulation of the ovary in pigs, State Committee for Scientific Research, Poland, 2007-2009.
The effects of environmental estrogens on the activity of steroidogenic enzymes in granulosa cells of the pig ovary, Ministry of Science and Higher Education, Poland, 2011-2012.
Interactions between genistein and 2,3,7,8-tetrachlorodibenzo-p-dioxin in the regulation of the ovarian granulosa cell functions in the pig, Ministry of Science and Higher Education, Poland, 2011-2013.
Physiological and toxicological aspects of the aryl hydrocarbon receptor (AhR) activation in the regulation of granulosa cell function in pigs, National Science Centre, Poland, 2013-2016.
The protective mechanism of tamoxifen action in the ovary during chemotherapy, National Science Centre, Poland, 2016-2021.

Investigator/Advisor

Effect of temperature-light regime manipulation on out-of-season spawning of yellow perch, Ohio Sea Grant College Program, 1993-1994.
Effects of ontogenesis and environmental factors on testicular function in yellow perch, United States Environmental Protection Agency, 1994-1996.
Effect of organochlorine xenobiotics on ovarian steroidogenesis in yellow perch, Lake Erie Protection Fund, 1995-1996.
The expression of aryl hydrocarbon receptor in the reproductive system of female pigs, Ministry of Science and Higher Education, Poland, 2009-2010.
Comparative analysis of NGS-identified genes induced by TCDD in hamster and porcine granulosa cells, National Science Centre, Poland, 2016-2018.
Molecular and bioinformatic analysis of interactions between dioxins different in their toxicity (DiCDD, TCDD) and enzymes of CYP1 family in porcine granulosa cells, National Science Centre, Poland, 2016-2018.
Molecular aspects of the effects of hormonally active chemicals on ovarian folliculogenesis in neonatal pigs, National Science Centre, Poland, 2016-2019.

PhD ADVISOR

Anna Nynca. 2007. Rola i mechanizm działania estrogenów środowiskowych w komórkach ziarnistych pęcherzyka jajnikowego świni. In Polish. (The role of environmental estrogens and their mechanism of action in follicular granulosa cells of pigs).
Olga Jabłońska 2010. Rola receptora węglowodorów aromatycznych w regulacji funkcji układu rozrodczego świni domowej (*Sus strofa domestica*). In Polish. (The role of aryl hydrocarbon receptor in the regulation of functions of the reproductive system of the pig, *Sus strofa domestica*).
Joanna Piasecka 2013. Wpływ 2.3.7.8-tetrachlorodibenzo-p-dioksyny i genisteiny na funkcjonowanie komórek ziarnistych pęcherzyka jajnikowego świni. In Polish. (The effects of 2.3.7.8-tetrachlorodibenzo-p-dioxin and genistein on granulosa cell functions in pigs)
Agnieszka Kołomycka. 2017. Zmiany w transkryptomie komórek ziarnistych linii AVG-16 poddanych działaniu TCDD. In Polish. (TCDD-induced changes in the transcriptome of granulosal AVG-16 cell line).
Karina Orłowska. 2019. Receptor węglowodorów aromatycznych: interakcje z TCDD oraz wpływ jego aktywacji na proteom komórek ziarnistych świni domowej (*Sus scrofa f. domestica*). In Polish. (The aryl hydrocarbon

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Tomasz Molcan. 2019. Specyficzność substratowa enzymów z rodziny CYP1 świni domowej (*Sus scrofa f. domestica*) względem wybranych estrogenów środowiskowych. In Polish. (Substrate specificity of the CYP1 enzymes in the pig, *Sus strofa domestica*).

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