

Curriculum Vitae

PERSONAL INFORMATION

Family name, Given names: Kaczmarek, Monika Marzena (Maiden family name: Zaleska)
 Researcher unique identifiers: Scopus Author ID: [10243382600](#); Google Scholar: [Monika M. Kaczmarek](#); ResearchGate: [Monika M Kaczmarek](#)
 Office address: Tuwima 10 Str., 10-748 Olsztyn, Poland
 Phone: +48 5393112 (office) or +48 5393163 (laboratory)
 e-mail: m.kaczmarek@pan.olsztyn.pl
 URL for web site: www.kaczmareklab.pl

EDUCATION

January 2018 Full Professor (Agriculture Science) President of the Republic of Poland
 June 2010 D.Sc. (Reproductive Endocrinology) Institute of Animal Reproduction and Food Research, Polish Academy of Sciences (IARFR, PAS), Olsztyn, Poland / THESIS: *Role of vascular endothelial growth factor in a regulation of secretion activity of the porcine endometrium*
 July 2004 Ph.D. (Reproductive Endocrinology) IARFR, PAS, Olsztyn, Poland / DISSERTATION: *Effect of Hecate-CG β conjugate on the development of mammary gland tumor in rat* / Supervisor: Prof. Adam J. Ziecik
 July 2002 Postgraduate Studies in Informatics, College of Computer Science and Economics, Olsztyn
 June 2001 MSc (Biotechnology) University of Warmia & Mazury, Olsztyn / THESIS: *Effect of Hecate- β LH conjugate on the viability of two cancer cell lines, KK-1 and BLT-1, and granulosa and luteal cells in vitro*

PROFESSIONAL EXPERIENCE

2015 – Associate Professor, Department of Hormonal Action Mechanisms, IARFR, PAS, Olsztyn, Poland
 2013 – 2017 Associate Professor, Department of Large Animal Diseases with Clinic, Faculty of Veterinary Medicine, University of Life Science, Warsaw, Poland
 2011 – Associate Professor, Head of Molecular Biology Laboratory, IARFR, PAS, Olsztyn, Poland
 2004 – 2011 Assistant Professor, Department of Hormonal Action Mechanisms, IARFR, PAS, Olsztyn, Poland
 2001 – 2004 Assistant, Department of Hormonal Action Mechanisms, IARFR, PAS, Olsztyn, Poland

FELLOWSHIPS

2017 Research fellowship PAS, The Hebrew University of Jerusalem, Rehovot-Jerusalem, Israel, 1 month
 2011 Research fellowship PAS, Epigenetics and Obesity, Pennington Biomedical Research Center, LSU, Baton Rouge, LA USA, 1 month
 2009 – 2010 Fulbright Advance Research Fellowship, Molecular Genetics and Thermogenesis, Pennington Biomedical Research Center, LSU, Baton Rouge, LA, USA, 6 months
 2006 Return Fellowship from Alexander von Humboldt and Hertie Foundations, 12 months
 2004 – 2005 Research Fellowship from Alexander von Humboldt and Hertie Foundations Institute of Physiology, Technical University Munich, Germany, 6 months
 2002 – 2003 Research Fellowship from International Atomic Energy Agency, Veterinary Faculties, Complutense University of Madrid & University of Murcia, Spain, 3 months

MAJOR CURRENT & PAST GRANTS (for full list of past and present grants see [lab web site](#))

2020 – 2026 Welcoming ERA Chair to Centre of Excellence in Nutrigenomics to optimise health and well-being / PI: Mariusz K. Piskula / ROLE: WP5 Leader
 2019 – 2025 *Milky Way to reproductive success: role of leptin in the programming of reproductive functions over generations* / National Science Centre / ROLE: PI
 2018 – 2021 *Role of microRNAs and prostaglandins in regulation of extracellular vesicles biogenesis in porcine trophoblast cells: in vitro studies* / National Science Centre / PI: Maria M. Guzewska / ROLE: Honorary supervisor

- 2017 – 2020 *Extracellular vesicles as an element of maternal-embryo communication during early pregnancy in pig- impact of carried miRNA on recipient cells* / National Science Centre/ PI: Joanna Najmula / **ROLE: Honorary supervisor**
- 2015 – 2019 *Autocrine, juxtacrine and paracrine actions of miRNAs in early stages of pregnancy in pigs* / National Science Centre/ **ROLE: PI**
- 2015 – 2018 *Development of Personalized Diagnostic of Malignant Tumors based on tumor heterogeneity and integrated genomic, transcriptomic, metabolomic and imaging PET/MRI analysis. Getting Ready for Individualized Therapy* / STRATEGMED, The National Centre for Research and Development / PI: Marek Krętownski / **ROLE: Coordinator at Partner Institution, WP2, WP7**
- 2014 – 2016 *Embryonic/endometrial exosomes as a new component of embryo-maternal interaction in the pig* / Diamond Grant, Ministry of Science and Higher Education / PI: Joanna Najmula / **ROLE: Honorary supervisor**
- 2011 – 2015 *Nutrition and ambient temperature during early development can reduce susceptibility to obesity* / Wellcome Grant, Foundation for Polish Science / PI: Leslie P. Kozak / **ROLE: Senior Investigator/Mentor**
- 2011 – 2015 *Global proteomic profiling of pregnancy specific miRNA targets in primary endometrial cells in vitro* / National Science Centre/ PI: Kamil Krawczynski / **ROLE: Honorary supervisor**
- 2010 – 2014 *Identification of microRNAs participating in the embryo-maternal communication in the pig* / National Science Centre/ **ROLE: PI**
- 2009 – 2012 *Modernization of integrated laboratories of Centre of Excellence BIOANIREP* / EU Innovative Economy Programme / **ROLE: Coordinator**
- 2006 – 2009 *Role of seminal plasma in regulation of prostaglandin synthesis in the porcine oviduct and uterus* / Ministry of Science and Higher Education - National Science Centre/ **ROLE: PI**

SUPERVISION OF GRADUATE STUDENTS & POSTDOCTORAL FELLOWS

- 2013 – **Number of Postdocs: 2** / Molecular Biology Laboratory, IARFR, PAS, Olsztyn, Poland
- 2008 – **Number of Ph.D. students: 7** / Molecular Biology Laboratory & Dept. Hormonal Action Mechanisms, IARFR, PAS, Olsztyn, Poland
- 2005 – **Number of Master & Bachelor students: 12** / IARFR, PAS, Olsztyn, Poland; University of Warmia and Mazury, Olsztyn, Poland; University of Life Science, Warsaw, Poland

ACADEMIC/TEACHING EXPERIENCE

- 2013 – 2017 **Associate Professor**, Faculty of Veterinary Science, Warsaw University of Life Science, Warsaw / TOPICS: Andrology, Biotechnology of gametes and embryos, Reproductive Immunology, Animal reproduction, Biotechniques in reproduction
- 2008 – **Associate Professor**, Institute of Animal Reproduction and Food Research, Polish Academy of Science, PhD Program, Olsztyn / TOPICS: Cell biology, Animal physiology, Molecular biology, Experimental planning
- 2003 – 2004 **Guest Lecturer**, Faculty of Biology, University of Warmia and Mazury, Olsztyn / TOPIC: Cryoconservation of porcine embryos: from superovulation to embryo transfer

POPULARIZATION OF SCIENCE (selection from the last 10 years)

- 2014-2018 European Researchers' Night & FUSION2NIGHT (Olsztyn, Poland)
- 2018 *Food for Thought: The Relationship Between Food, Gut and Brain* (MOOC) <https://www.futurelearn.com/courses/food-for-thought>
- 2019 *Extracellular Vesicles in Health and Disease*, Lecture 2.5 Pregnancy (ISEV MOOC II) <https://www.coursera.org/learn/extracellular-vesicles-health-disease>
- 2019 *Preserving health of future generations - changing diet*. TEDx Talks, TEDxFulbrightWarsaw <https://www.youtube.com/watch?v=g7VH259E5hk&t=3s>
- 2019-2020 *Molecular Biology – Discovering Genes and Searching for DNA*, Childrens' University (Olsztyn, Poland)
- 2020-2021 *Nutritional Programming*, EIT Food – Classroom and Science SOS lectures for high schools (on-site and on-line; Olsztyn, Biała Podlaska, Maków Mazowiecki, Poland)
- 2022 *The Role of Gender Balance and Mentoring in Science + The Role of Experiences in Shaping Physiological Traits*, Podcast FulbrightTalks available at Spotify and YouTube <https://www.youtube.com/watch?v=51cVVg3guxg>

ORGANISATION OF SCIENTIFIC MEETINGS

- 2017 **VIII Conference of Polish Society for Biology of Reproduction** (September 7-9) – national meeting / Head of the Organizing Committee and member of the Scientific Committee / Number of participants: 160 / Poland / URL: [TBR2017](#)
- 2016 **Extracellular Vesicles: Friends and Foes** symposium (June 7-9) – international meeting / Member of the Organizing Committee / Number of participants: 70 / Israel / URL: [EVFF2016](#)
- 2016 **Polish Scientific Networks** conference (June 30-July 2) – international meeting / Member of the Organizing & Scientific Committees / Expected number of participants: 200 / Poland / URL: [PSN2016: Science & Business](#)
- 2015 **Polish Scientific Networks** conference (June 18-20) – international meeting / Head of the Organizing Committee & Scientific Committee member / Number of participants: 170/ Poland / URL: [PSN2015](#)
- 2013 **9th International Conference on Pig Reproduction** (June 9-12) – international meeting / Member of the Organizing Committee/ Number of participants: 180 / Poland

COMMISSIONS OF TRUST

- 2021 – **Executive Academic Council** / TopMinds Programme / Poland
- 2020 – [NCN Council](#) / National Science Centre / Poland (Head of Life Science Commission 2023-2024)
- 2018 – **Review panel member** / The Polish National Agency for Academic Exchange / Poland
- 2017–2022 **Board of Directors** / Polish-U.S. Fulbright Commission / Poland
- 2016–2018 **Scientific Board** / National Science Congress / Poland
- 2016–2020 **Review panel member** / National Science Centre / Poland
- 2015–2021 **Editorial Board, Associate editor** / Reproductive Biology / ELSEVIER
- 2014 – **Review panel member** / Polish-U.S. Fulbright Commission / Poland
- 2007 – 2011 **Scientific Evaluation Commission** / IARFR PAS/ Poland
- 2007 – [Scientific Advisory Board](#) / IARFR PAS/ Poland (**presidium member** 2012-2018, 2023-)

SELECTED AD HOC REVIEWS

BBA - General Subjects; Biofactors; BMC Genomics; British Journal of Cancer; Communications Biology; FASEB J; Journal of Clinical Endocrinology & Metabolism; Molecular and Cellular Endocrinology; Molecular Genetics and Genomics; Molecular Reproduction and Development; Proteomics; Reproduction; Reproduction, Fertility & Development; Reproductive Biology & Endocrinology.

MEMBERSHIPS OF SCIENTIFIC SOCIETIES & ORGANIZATIONS

- 2019 – Polish Society for Extracellular Vesicles (**Founder, Board member** 2019-2023)
- 2015 – Society for the Study of Reproduction (**Public Affairs Committee** 2019-2022)
- 2011 – 2016 Academy of Young Scholars, Polish Academy of Science (**vice-chair** 2014-2016)
- 2007 – 2016 European Society for Domestic Animal Reproduction
- 2005 – Polish Society for Biology of Reproduction (**vice-chair** 2017-2021; **chair** 2021-)

MAJOR INVITED INTERNATIONAL PRESENTATIONS

- 2023 *From trash bin to gold mine: implications of extracellular vesicles in early pregnancy.* Visegrád Group Society for Developmental Biology 3rd Meeting, Warsaw, Poland
- 2023 *Role of extracellular vesicles in early pregnancy.* 11th International Conference on Pig Reproduction, Ghent, Belgium
- 2021 *Understanding the role of non-coding RNAs in corpus luteum during early pregnancy.* Society for the Study of Reproduction 54th Annual Meeting, St. Louis, USA
- 2018 *Extracellular vesicles: small particles with unique properties for pregnancy success.* Assisted Reproduction Technologies - long term perspectives, Cracow, Poland
- 2017 *Combined large scale proteomic and target prediction studies show direct and indirect effects of miR-26a and miR-125b on porcine luminal epithelium function during early pregnancy.* 10th International Conference on Pig Reproduction, Columbia, Missouri, USA
- 2016 *Large-scale analysis of protein expression changes evoked by miR-26a & miR-125b in luminal epithelium of pregnant porcine uterus.* 18th International Congress on Animal Reproduction, Tours, France
- 2016 *Embryo-maternal interactions: lessons from phylogenetically distant species.* Extracellular vesicles: friends and foes, Rehovot, Israel

- 2015 *Circulating miRNAs in the maternal serum during early pregnancy in the pig.* 48th Annual Conference of Physiology and Pathology of Reproduction/40th Joint Congress of Veterinary and Human Medicine, Zurich, Switzerland
- 2011 *Early malnutrition: programming of fertility by maternal diet.* GEMINI's Periconceptual Developmental Programming Workshop, Jerusalem, Israel
- 2011 *Malnutrition during critical stages of development and reproductive performance of progeny.* TUM Tierwissenschaftlichen Seminar, Technical University Munich, Germany

MAJOR HONORS & AWARDS

- 2013 **Bronze Cross of Merit** for scientific merits awarded by the President of Poland
- 2010 **Scholarship for an Outstanding Young Researcher** from the Polish Ministry of Science and Higher Education (36 months)
- 2007 **Award for an Active Young Scientist** from *Pro Scientia et Vita* Foundation
- 2006 **Team Scientific Award** from the Director of IARFR, PAS for research on the role of LH/hCG receptors in physiology and pathology of the reproductive tract
- 2005 **Young Researcher Scholarship START** from the Foundation for Polish Science (24 months)
- 2004 **Individual Scientific Award for PhD thesis** from the Director of IARFR, PAS

TRAININGS (selection from the last 10 years)

- 2015 Polish Laboratory Animal Science Association (PolLASA) training for persons responsible for the planning, performing, and execution of procedures and experiments with animals used in research or for educational purposes (Olsztyn, Poland)
- 2016 EMBO Laboratory Management Course "The art of Leadership – fewer conflicts, more results" (Heidelberg, Germany)
- 2017 "I am Mentor" training for mentors organized by Collegium Wratislaviense during TopMinds program (Warsaw, Poland)
- 2020 Good Laboratory Practice for Specialists organized by Pure Quality (on-line)
- 2022 Good Laboratory Practice in theory and practice. Preparing a research unit for implementation and certification organized by Hamilton (on-line)

MAJOR COLLABORATIONS

Ajduk Anna, Ph.D., Warsaw University, Faculty of Biology, Warsaw, Poland

Blachnio-Zabielska Agnieszka, Ph.D., Department of Hygiene, Epidemiology, and Metabolic Disorders, Medical University of Bialystok, Poland

Dymkowska Dorota, Ph.D., Laboratory of Cellular Metabolism, Nencki Institute of Experimental Biology PAS, Warsaw, Poland

Heifetz Yael, Ph.D., Department of Entomology, The Hebrew University of Jerusalem, Israel

Kozak Leslie P., Ph.D., Maine Medical Center Research Institute, Scarborough, USA

Meidan Rina, Ph.D., Department of Animal Science, The Hebrew University of Jerusalem, Israel

Meshorer Eran, Ph.D., Department of Genetics, The Hebrew University of Jerusalem, Israel

Skup Małgorzata, Ph.D., Group of Restorative Neurobiology, Nencki Institute of Experimental Biology PAS, Warsaw, Poland

Śliwowska Joanna H., Ph.D., Laboratory of Neurobiology, Poznań University of Life Science, Poland

Ulbrich Susanne E., Ph.D., Department of Environmental Systems Science, ETH Zürich, Switzerland

Wu Li-Hui Kay, Ph.D., Institute for Translational Research in Biomedicine, Kaohsiung Chang-Gung Memorial Hospital, Taiwan

Zabielski Piotr, Ph.D. Department of Physiology Medical University of Bialystok, Poland