Candidate supervisor's information summary form

Name and surname, degree, title: **dr hab. Marcin Gołębiewski, prof. SGGW**	
Discipline/ disciplines of science	Animal Science and Fisheries
Professional development (degrees and titles) in chronological order	MSc – 2006r. PhD – 2010r. Hab. – 2018r.
Most important publications/patens over the last 3 years (maximum 10)	*Patents:* 1.Gołębiewski M., Wójcik A., Wierzbicki M. Device for the hygiene of udders and teats of animals: P.415237 from 2015-12-11; decision of the Patent Office of March 19, 2018. 2. Gołębiewski M., Wójcik A., Wierzbicki M. Device for bathing the udder and teats of animals: P.415181 from 2015-12-08; decision of the Patent Office of March 19, 2018. 3. Gołębiewski M., Wójcik A., Wierzbicki M. Disposable cloth for pre-milking hygiene of the mammary gland of animals: P.415178 of 2015-12-08; decision of the Patent Office of April 18, 2018. 4. Gołębiewski M., Wójcik A., Wierzbicki M. Application of the preparation for the hygiene of the udder and teats of animals: P.415238 of 2015-12-11; ; decision of the Patent Office of June 18, 2018. 5. Gołębiewski M., Wójcik A., Wierzbicki M. Application of the preparation for the hygiene of the udder and teats of animals: P.415244 of 2015-12-11; ; decision of the Patent Office of June 18, 2018. 6. Gołębiewski M., Wójcik A., Wierzbicki M. Application of the preparation for the hygiene of the udder and teats of animals: P.415241 of 2015-12-11; ; decision of the Patent Office of June 22, 2018. 7. Gołębiewski M., Wójcik A., Wierzbicki M. Preparation for use in the prevention and treatment of mammary gland infections in animals: P.415242 of 2015-12-11; decision of the Patent Office of June 22, 2018. 8. Gołębiewski M., Wójcik A., Wierzbicki M. Application of the preparation for the hygiene of the udder and teats of animals: P.415243 of 2015-12-11; decision of the Patent Office of June 22, 2018. *Articles:* 1. Kalińska A., Wójcik A., Slósarz J., Kruzińska B., Michalczuk M., Jaworski S., Wierzbicki M., Gołębiewski M. 2018. Occurrence and aetiology of Staphylococcal mastitis – a review. Animal Science Papers and Reports vol. 36 (2018), no. 3, 263-173. 2. Kalińska A., Jaworski S., Wierzbicki M., Gołębiewski M. 2019. Silver and Copper Nanoparticles—An Alternative in Future Mastitis Treatment and Prevention? Int. J. Mol. Sci. 20, 1672; doi:10.3390/ijms20071672.
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	Auxiliary promoter Defended PhDs: 1. Dr Agata Wójcik: 27/02/2018 2. Dr Karolina wnęk: 17/10/2019 3. Dr Tomasz Piotrowski: 29/10/2019 Promoter - opened PhDs: 1. Aleksandra Kalińska-Łukasiewicz 2. Daniel Radzikowski
Project/grants achievements (from the last 10 years)	1. Project: Optimization of beef production in Poland, in accordance with the strategy "from fork to farm" co-financed by the European Regional Development Fund under the Innovative Economy Operational Program, under the Innovative Economy Operational Program, Priority 1. Research and development of modern technologies, Action 1.3. Support for R&D projects for entrepreneurs carried out by research units, Sub-measure 1.3.1. Development projects; Agreement No.UDA-POIG.01.03.01-00-204 / 09-03. 2010-2014. Substantive supervision over measure 2A. 2. Project of the Ministry of Science and Higher Education. Innovation Incubator, Agreement number: DS / 1559 // 9 / W16 / POIG / II / 2014

	3.2014-9.2015. Manager. 1.49 million 3 .. Grant NCBR Leader VII. Pt: Development of an innovative system for the prevention and treatment of subclinical mastitis in dairy cows based on the synergistic effect of silver and copper nanoparticles. ", Contract number: LIDER / 6/0070 / L-7/15 / NCBR / 2016. 2017-2019; Manager. 4. As part of the "Voucher for Innovations" grant from the Polish Agency for Enterprise Development. Pt: "Development and implementation into business practice of an intelligent system for automatic monitoring of individual cattle feeding efficiency" Smart Feeding "maintained in the group system" Smart Trough "." Agreement No. 1 / WNZ / SGGW / 2017. 28.07.2017-30.09.2017 Manager. 5. As part of the "Voucher for Innovations" grant from the Polish Agency for Enterprise Development. Pt: "Creation of an innovative algorithm for automatic balancing of feed rations for dairy cattle" Agreement no. 2 / WNZ / SGGW / 2017. August 21, 2017 - August 31, 2018 Manager. 6. NCBR grant. Priority axis: Support for R&D works by enterprises; Action: R&D projects of enterprises; Sub-measure; Industrial research and development work carried out by enterprises. Pt: Development of new functions for the e-herd dairy cow monitoring system, monitoring of the daily cycle and reproduction. ", Application no .: POIR.01.01.01-00-0564 / 17. Recruitment number: 3 / 1.1.1 / 2017; 2017-2018; PLN 687,498.04; The Contractor. 7. NCBR grant. Priority axis: Support for R&D works by enterprises; Activity: R&D projects of enterprises; Sub-action; Industrial research and development work carried out by enterprises. Pt: Development of an innovative module for locating and analyzing the locomotion of dairy cows as an element of e-herd dairy cow monitoring. ", Contractor. application no .: POIR.01.01.01-00-0761 / 17. Recruitment number: 5 / 1.1.1 / 2017; 2018; PLN 1,150,998.75; 8. NCBR grant. Priority axis: Support for R&D works by enterprises; Activity: R&D projects of enterprises; Sub-measure; Industrial research and development work carried out by enterprises. Pt: Development of an innovative diagnosis of a very early stage of lameness as an element of the e-herd dairy cow monitoring system. ", Contractor. application no .: POIR.01.01.01-00-0841 / 18. Recruitment number: 4 / 1.1.1 / 2018; 2018; PLN 2 467 768.82; 03/31/2019 - 03/31/2021. 9. As part of the "Voucher for Innovations" grant from the Polish Agency for Enterprise Development. Pt: "Development of a complete IT and technical solution supporting beef cattle breeding" Contract no. 2 / WNZ / SGGW / 2018. 15/09/2018-31/12/2019. Manager. 10. As part of the "Voucher for Innovations" grant of the Polish Agency for Enterprise Development. Pt: "Developing the composition of a protein product from non-genetically modified raw materials, developing a thermal treatment of these raw materials in order to obtain greater protein digestibility, and conducting research to replace soybean meal." Agreement No. 1 / WNZ / SGGW / 2018. 01/09/2018-30/09/2019. Manager. 11. As part of the "Voucher for Innovations" grant of the Polish Agency for Enterprise Development. Pt: "Modification, testing and development of technologies for the production of innovative biosensors monitoring the physiological and behavioral parameters of dairy cows." POIR.02.03.02-22-0017 / 19. Agreement No. 3 / WNZ / SGGW / 2019. 09/15/2019-31/12/2019. Manager. 12.MNiSW, as part of the "Diamond Grant" competition, entitled "Development of an innovative system for the prevention and treatment of mastitis in dry dairy cows using silver, gold, copper and iron nanoparticles.", Project no. DI2017 012347; budget PLN 220,000. Promoter in the promoter's grant. 13. Project: Fri: BovINE Beef Innovation Network Europe; under Horizon 2020; # 862590 - BovINE; budget for WULS-SGGW EUR 57 843.75, Manager for tasks performed at WULS-SGGW. 14.ARiMR, as part of the "Cooperation" competition, entitled: "Building a

	system of connections in the area of innovative technologies for rearing calves and final fattening", No. 00012.DDD.6509.00063.2018.02 from 09/12/2019 to 31/01/2022. R&D team manager. PLN 6877530. 15. As part of the "Voucher for Innovations" grant from the Polish Agency for Enterprise Development. Pt: "Development of an evaporative cooling system for cattle for freestanding barns operating remotely" POIR.02.03.02-10-0015 / 20. Agreement No. 2 / WNZ / SGGW / 2020. 01/01/2021-30/06/2022. Manager. Amount: PLN 490,606.41.
Topic – research problem – for which the candidate supervisor seeks a doctoral student	The thematic scope of the work will include the development and implementation of a comprehensive system for the prevention of mastitis and lameness against bacterial and fungal infections with the use of nanomaterials along with systems for their replacement and claw application under the project "NanoCow - development of a product line for the prevention of mastitis and lameness against infections bacterial-fungal with the use of nanomaterials (NPs). " NCBR; Agrotech; Budget PLN 3.4 million.
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