

Candidate supervisor's information summary form
 maximum 2 pages – it should be a summary of most important achievements

Name and surname, degree, title: Katarzyna Zabielska-Koczywas, dr hab., PhD, DVM	
Discipline/ disciplines of science	Veterinary Medicine
Professional development (degrees and titles) in chronological order	2009 Doctor of Veterinary Medicine (DVM) 2013 Doctor of Philosophy (PhD) 2019 Post-doctoral degree (dr hab.)
Most important publications/patens over the last 3 years (maximum 10)	<p>Publications:</p> <ol style="list-style-type: none"> 1. Wilk SS, Zabielska-Koczywas KA. Molecular Mechanisms of Canine Osteosarcoma Metastasis. <i>Int J Mol Sci.</i> 2021 Mar 31;22(7):3639. doi: 10.3390/ijms22073639. PMID: 33807419; PMCID: PMC8036641. IF=5,9 2. Maek A, Taciak B, Sobczak K, Grzelak A, Wojcik M, Mieczkowski J, Lechowski R, Zabielska-Koczywas KA. Enhanced Cytotoxic Effect of Doxorubicin Conjugated to Glutathione-Stabilized Gold Nanoparticles in Canine Osteosarcoma-In Vitro Studies. <i>Molecules.</i> 2021 Jun 8;26(12):3487. doi: 10.3390/molecules26123487. PMID: 34201296; PMCID: PMC8227216. IF=4,41 3. Zabielska-Koczywas K, Wojtalewicz A, Uazarowska E, Klejman A, Wojtkowska A, Dolka I, Wojnicki M, Sobczak K, Wojcik M, Shen H, Ferrari M, Lechowski R. Distribution of Glutathione-Stabilized Gold Nanoparticles in Feline Fibrosarcomas and Their Role as a Drug Delivery System for Doxorubicin-Preclinical Studies in a Murine Model. <i>Int J Mol Sci.</i> 2018 Mar 29;19(4):1021. doi: 10.3390/ijms19041021. PMID: 29596317; PMCID: PMC5979397. IF=4,18 4. Zabielska-Koczywas, K., Michalak, K., Wojtalewicz, A., Winiarczyk, M., Adaszek, ., Winiarczyk, S., & Lechowski, R. (2018). Proteomic Differences in Feline Fibrosarcomas Grown Using Doxorubicin-Sensitive and -Resistant Cell Lines in the Chick Embryo Model. <i>International journal of molecular sciences</i>, 19(2), 576. https://doi.org/10.3390/ijms19020576 IF=4,18 5. Contino M, Guglielmo S, Perrone MG, Giampietro R, Rolando B, Carrieri A, Zaccaria D, Chegaev K, Borio V, Riganti C, Zabielska-Koczywas K, Colabufo NA, Fruttero R. New tetrahydroisoquinoline-based P-glycoprotein modulators: decoration of the biphenyl core gives selective ligands. <i>Medchemcomm.</i> 2018 Apr 3;9(5):862-869. doi: 10.1039/c8md00075a. PMID: 30108975; PMCID: PMC6071824. IF=2,39 6. Lechowski R., Gojcka-Zygner O., Wojtkowska A., Zabielska-Koczywa K. Significance of serum SDMA in detection of early stages of kidney disease in hyperthyroid cat - a case study, <i>Mag. Wet.</i>, 2018, 1, 113-115

Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	<p>2017 - doctoral programmes opened for Magdalena Walewska (co-promotor)</p> <p>2018 – Michał Golicz defended doctoral dissertation (co-promotor)</p> <p>2019 – doctoral programmes opened for Anna Małek (DVM) and Anna Wojtalewicz (DVM) (promotor)</p>
Project/grants achievements (from the last 10 years)	<ol style="list-style-type: none"> 1. UMO-2015/17/D/NZ5/04241, Preclinical studies on the role of glutathione stabilized gold nanoparticles conjugated to doxorubicin on feline injection-site sarcomas – mechanism of action, efficacy studies and proteome analyses, (2016-2019), National Science Centre (NCN), Principal Investigator 2. Dec.2012/N/NZ4/02413, The influence of biocomplex of colloid gold nanoparticles conjunct with doxorubicin on feline vaccine-associated fibrosarcomas. Experiments <i>in vitro</i> and <i>in ovo</i>, (2013-2016), National Science Centre (NCN), Principal Investigator 3. UMO-KNOW2018/SGGW/ESR5/01, Proteomic analyses and immunoblotting of primary and secondary doxorubicin-resistant feline fibrosarcomas – <i>in ovo</i> studies, (2018-2019), Leading National Research Centre (KNOW), Principal Investigator 4. 505-10-023500-Q00374-99, The use of <i>in ovo</i> model for gold nanoparticles organ distribution – development and optimalization of the methodology, 2018, SGGW, Principal Investigator 5. 505-10-023500-N00157-99, The transport pathway of glutathione-stabilized gold nanoparticles conjugated to doxorubicin in feline fibrosarcoma cell lines, (2016-2017), SGGW, Principal Investigator 6. 505-10-023500-M00249-99, Canine and human osteosarcoma – assessment of the influence of gold nanoparticles conjugated to doxorubicin. Can the results of veterinary studies be translated into human medicine? (2015-2016), SGGW, Principal Investigator 7. 505-10-023500-k00172-99, The comparison of different forms of doxorubicin - doxorubicin conjugated with colloid gold nanoparticles and liposomal doxorubicin - on feline injection site sarcomas. Experiments <i>in vitro</i> and <i>in ovo</i>, (2013-2014), SGGW, Principal Investigator 8. 505-10-02350050, Assessment of feline vaccine-associated fibrosarcoma growth on chick embryo chorioallantoic membrane from various cell lines, (2012-2013), SGGW, Principal Investigator
Topic – research problem – for which the candidate supervisor seeks a doctoral student	<ol style="list-style-type: none"> 1. The use of gold nanoparticles (AuNPs) and hyperthermia in feline injection-site sarcoma treatment – experiments <i>in vitro</i> and <i>in ovo</i> 2. Chick embryo chorio-allantoic membrane (CAM) model as a 3R model to assess the role of surface modification of gold and silver nanoparticles (AuNPs and AgNPs) on toxicity and organ distribution
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