

Summary Specification of Scientific Accomplishments of a Thesis Supervisor Candidate
maximum 2 pages - it should be a synthesis of the most important elements of accomplishments

Name and surname, degree, scientific title: Anna Burdzinska, PhD, DVM	
Scientific discipline/s	Veterinary (75%) Medical sciences (25%)
Professional development (scientific degrees and titles) chronologically	2002 graduation and obtaining the title of a veterinarian Faculty of Veterinary Medicine, Warsaw University of Life Sciences (WULS-SGGW) 2007 PhD in veterinary medicine (2007) Faculty of Veterinary Medicine, WULS-SGGW
Most important publications/patents from the last 3 years (max. 10)	<ol style="list-style-type: none"> 1. Kulesza A, Paczek L, Burdzinska A. The Role of COX-2 and PGE2 in the Regulation of Immunomodulation and Other Functions of Mesenchymal Stromal Cells. <i>Biomedicines</i>. 2023 Feb 3;11(2):445. doi: 10.3390/biomedicines11020445. IF – 4,7 2. Burdzinska A, Galanty M, Więcek S, Dabrowski FA, Lotfy A, Sadkowski T. The Intersection of Human and Veterinary Medicine-A Possible Direction towards the Improvement of Cell Therapy Protocols in the Treatment of Perianal Fistulas. <i>Int J Mol Sci</i>. 2022 Nov 11;23(22):13917. doi: 10.3390/ijms232213917. IF – 6,2 3. Kulesza A, Zielniok K, Hawryluk J, Paczek L, Burdzinska A. Ibuprofen in Therapeutic Concentrations Affects the Secretion of Human Bone Marrow Mesenchymal Stromal Cells, but Not Their Proliferative and Migratory Capacity. <i>Biomolecules</i>. 2022 Feb 10;12(2):287. doi: 10.3390/biom12020287. IF – 4,879 4. Bajor M, Graczyk-Jarzynka A, Marhelava K, Burdzinska A, Muchowicz A, Goral A, Zhyloko A, Soroczynska K, Retecki K, Krawczyk M, Klopotoska M, Pilch Z, Paczek L, Malmberg KJ, Wälchli S, Winiarska M, Zagodzdon R. PD-L1 CAR effector cells induce self-amplifying cytotoxic effects against target cells. <i>J Immunother Cancer</i>. 2022 Jan;10(1):e002500. doi: 10.1136/jitc-2021-002500. IF – 13,75 5. Dymowska M, Aksamit A, Zielniok K, Kniotek M, Kaleta B, Roszczyk A, Zych M, Dabrowski F, Paczek L, Burdzinska A. Interaction between Macrophages and Human Mesenchymal Stromal Cells Derived from Bone Marrow and Wharton's Jelly-A Comparative Study. <i>Pharmaceutics</i>. 2021 Nov 1;13(11):1822. doi: 10.3390/pharmaceutics13111822. IF – 6,32 6. Zielniok K, Burdzinska A, Murcia Pienkowski V, Koppolu A, Rydzanicz M, Zagodzdon R, Paczek L. Gene Expression Profile of Human Mesenchymal Stromal Cells Exposed to Hypoxic and Pseudohypoxic Preconditioning-An Analysis by RNA Sequencing. <i>Int J Mol Sci</i>. 2021 Jul 29;22(15):8160. doi: 10.3390/ijms22158160. IF – 5,92 7. Lotfy A, Elgamal A, Burdzinska A, Swelum AA, Soliman R, Hassan AA, Shiha G. Stem cell therapies for autoimmune hepatitis. <i>Stem Cell Res Ther</i>. 2021 Jul 7;12(1):386. doi: 10.1186/s13287-021-02464-w. IF – 6,832 8. Zielniok K, Burdzinska A, Kaleta B, Zagodzdon R, Paczek L. Vadadustat, a HIF Prolyl Hydroxylase Inhibitor, Improves Immunomodulatory Properties of Human Mesenchymal Stromal Cells. <i>Cells</i>. 2020 Nov 1;9(11):2396. doi: 10.3390/cells9112396. IF – 6,6 9. Zielniok K, Burdzinska A, Paczek L. Roxadustat for Anemia in Patients with Chronic

	Kidney Disease. N Engl J Med. 2020 Jul 2;383(1):e3. doi: 10.1056/NEJMc1913712., IF – 91,25
Experience in work with PhD students (defended dissertations, initiated dissertation procedures), chronologically	<p>1. PhD student: Filip Dabrowski Institution: 1st Faculty of Medicine, Medical University of Warsaw Title of the doctoral dissertation: Evaluation of the presence of pluripotent cells in the human perinatal tissues - the possibility of using the placenta, amnion, blood and umbilical cord as potential sources of stem cell collection. Supervisor: Prof. Miroslaw Wielgos; Co-supervisor: dr Anna Burdzińska status: doctoral dissertation completed in 2018</p> <p>2. PhD student: Agnieszka Kulesza Institution: Faculty of Medicine, Medical University of Warsaw Title of the doctoral dissertation: The effect of ibuprofen on the properties of human mesenchymal cells of the bone marrow Supervisor: dr Anna Burdzinska Status: open doctoral dissertation</p>
Project/grant accomplishments (from the last 10 years)	<p>Principal Investigator in: 2013-2015 - "The fate of myoblasts and mesenchymal stem cells after transplantation into the urethral sphincter. Comparative study on a large animal model"- a project funded by the Foundation for Polish Science (POMOST program)</p> <p>Principal Investigator deputy in: 2018-2022 - "Evaluation of the influence of the hypoxia-induced factor 1 on the immunomodulatory properties of human mesenchymal stromal cells", a project nr 2017/25/B/NZ6/01380 financed by the National Center for Research (OPUS program), 2014-2018 - "Novel scaffold-based tissue engineering approaches to healing and regeneration of tendons and ligaments" financed by the National Center for Research and Development (Strategmed program), Grant No. STRATEGMED1/233224/10/NCBR/2014; Project START - Task 1.4.</p>
Theme scope - research problem - for the solving of which the PhD student is sought	<p>1. Fabrication of collagen structures enriched with extracellular matrix derived from mesenchymal stromal cells for clinical applications (cooperation with a research group from Cleveland, USA)</p> <p>2. Development of a method for modifying mesenchymal stromal cells in order to enhance their immunomodulatory properties for clinical use</p>
<u>Contact details:</u> Institute E-mail address Telephone	<p>Institute of Veterinary Medicine, WULS-SGGW anna_burdzinska@sggw.edu.pl</p>