

**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"> <li>1. Kulesza A, Paczek L, <b>Burdzinska A</b>. The Role of COX-2 and PGE2 in the Regulation of Immunomodulation and Other Functions of Mesenchymal Stromal Cells. <i>Biomedicines</i>. <b>2023</b> Feb 3;11(2):445. doi: 10.3390/biomedicines11020445. <b>IF – 4,7</b></li> <li>2. Poplawski P, Zarychta-Wiśniewska W, <b>Burdzińska A</b>, Bogusławska J, Adamiok-Ostrowska A, Hanusek K, Rybicka B, Białas A, Kossowska H, Iwanicka-Rokicka R, Koblowska M, Pączek L, Piekielko-Witkowska A. Renal cancer secretome induces migration of mesenchymal stromal cells. <i>Stem Cell Res Ther</i>. 2023 Aug 10;14(1):200. doi: 10.1186/s13287-023-03430-4., <b>IF – 8,0</b>.</li> <li>3. <b>Burdzinska A</b>, 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>. <b>2022</b> Nov 11;23(22):13917. doi: 10.3390/ijms232213917. <b>IF – 6,2</b></li> <li>4. Kulesza A, Zielniok K, Hawryluk J, Paczek L, <b>Burdzinska A</b>. Ibuprofen in Therapeutic Concentrations Affects the Secretion of Human Bone Marrow Mesenchymal Stromal Cells, but Not Their Proliferative and Migratory Capacity. <i>Biomolecules</i>. <b>2022</b> Feb 10;12(2):287. doi: 10.3390/biom12020287. <b>IF – 4,879</b></li> <li>5. Bajor M, Graczyk-Jarzyńska A, Marhelava K, <b>Burdzinska A</b>, Muchowicz A, Goral A, Zhylyko A, Soroczynska K, Retecki K, Krawczyk M, Kłopotowska M, Pilch Z, Paczek L, Malmberg KJ, Wälchli S, Winiarska M, Zagózdzon R. PD-L1 CAR effector cells induce self-amplifying cytotoxic effects against target cells. <i>J Immunother Cancer</i>. <b>2022</b> Jan;10(1):e002500. doi: 10.1136/jitc-2021-002500. <b>IF – 13,75</b></li> <li>6. Dymowska M, Aksamit A, Zielniok K, Kniotek M, Kaleta B, Roszczyk A, Zych M, Dabrowski F, Paczek L, <b>Burdzinska A</b>. Interaction between Macrophages and Human Mesenchymal Stromal Cells Derived from Bone Marrow and Wharton's Jelly-A Comparative Study. <i>Pharmaceutics</i>. <b>2021</b> Nov 1;13(11):1822. doi: 10.3390/pharmaceutics13111822. <b>IF – 6,32</b></li> <li>7. Zielniok K, <b>Burdzinska A</b>, Murcia Pienkowski V, Koppolu A, Rydzanicz M, Zagózdzon 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>. <b>2021</b> Jul 29;22(15):8160. doi: 10.3390/ijms22158160. <b>IF – 5,92</b></li> <li>8. Lotfy A, Elgamal A, <b>Burdzinska A</b>, Swelum AA, Soliman R, Hassan AA, Shiha G. Stem cell therapies for autoimmune hepatitis. <i>Stem Cell Res Ther</i>. <b>2021</b> Jul 7;12(1):386. doi: 10.1186/s13287-021-02464-w. <b>IF – 6,832</b></li> <li>9. Zielniok K, <b>Burdzinska A</b>, Kaleta B, Zagózdzon R, Paczek L. Vadadustat, a HIF Prolyl Hydroxylase Inhibitor, Improves Immunomodulatory Properties of Human Mesenchymal Stromal Cells. <i>Cells</i>. <b>2020</b> Nov 1;9(11):2396. doi: 10.3390/cells9112396., <b>IF – 6,6</b></li> </ol>

	10. Zielniok K, <b>Burdzinska A</b> , Paczek L. Roxadustat for Anemia in Patients with Chronic Kidney Disease. N Engl J Med. <b>2020</b> Jul 2;383(1):e3. doi: 10.1056/NEJMc1913712., <b>IF – 91,25</b>
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. Allogeneic transplantation of mesenchymal stromal cells in veterinary patients – assessment of efficacy</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 <a href="mailto:anna_burdzinska@sggw.edu.pl">anna_burdzinska@sggw.edu.pl</a></p>