

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

Name and surname, degree, title: Anna Burdzińska, PhD DVM	
Academic discipline/disciplines	Veterinary (100%)
Professional development (degrees and titles) in chronological order	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 in the last 3 years (maximum 10)	<ol style="list-style-type: none"> <li>1. Bogusławska J, Grzanka M, Popławski P, Zarychta-Wiśniewska W, <b>Burdzińska A</b>, Hanusek K, et al. Non-coding RNAs secreted by renal cancer include piR_004153 that promotes migration of mesenchymal stromal cells. <i>Cell Commun Signal</i>. <b>2025</b>;23(1):3. doi:10.1186/s12964-024-02001-1.; <b>IF – 8,9</b></li> <li>2. <b>Burdzinska A</b>, Szopa IM, Majchrzak-Kuligowska K, Roszczyk A, Zielniok K, Zep P, Dąbrowski FA, Bhale T, Galanty M, Paczek L. The Comparison of Immunomodulatory Properties of Canine and Human Wharton Jelly-Derived Mesenchymal Stromal Cells. <i>Int J Mol Sci</i>. <b>2024</b> Aug 16;25(16):8926. doi: 10.3390/ijms25168926. <b>IF – 4.9</b></li> <li>3. 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>4. Popławski 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>5. <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>6. 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 – 4.8</b></li> <li>7. Bajor M, Graczyk-Jarzynka A, Marhelava K, <b>Burdzinska A</b>, Muchowicz A, Goral A, Zhylo A, Soroczynska K, Retecki K, Krawczyk M,</li> </ol>

	<p>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></p>
<p>Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order</p>	<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. Mirosław 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 (sinse 2022)</p>
<p>Achievements in the area of projects/grants (in the last 5 years)</p>	<p>Principal Investigator in: 2021-2022 - "Understanding the immunomodulatory effects of mesenchymal stromal cells – an introduction to in vivo studies in animals with naturally occurring disease" – an internal project of the Medical University of Warsaw.</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),</p>
<p>Subject area of the research project for which the candidate student is being recruited</p>	<ol style="list-style-type: none"> <li>1. Development of a canine intestinal barrier model using organoids and investigation of the absorption of selected nanoparticles</li> <li>2. Studies on the application of immunomodulatory cell-based therapies in dogs (mesenchymal stromal cells, CAR-T)</li> <li>3. Studies on methods for processing canine bone tissue and evaluation of its suitability for the treatment of bone defects in veterinary patients</li> </ol>
<p><u>Contact details:</u> Institute E-mail address Telephone number</p>	<p>Institute of Veterinary Medicine, WULS-SGGW <a href="mailto:anna_burdzinska@sggw.edu.pl">anna_burdzinska@sggw.edu.pl</a></p>