

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

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| Name and surname, degree, title: Anna Burdzińska, PhD DVM             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Academic discipline/disciplines                                       | Veterinary (75%)<br>Medical sciences (25%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Professional development (degrees and titles) in chronological order  | 2002 graduation and obtaining the title of a veterinarian<br>Faculty of Veterinary Medicine, Warsaw University of Life Sciences (WULS-SGGW)<br>2007 PhD in veterinary medicine (2007)<br>Faculty of Veterinary Medicine, WULS-SGGW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Most important publications/ patents in the last 3 years (maximum 10) | <ol style="list-style-type: none"> <li><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. IF – 4.9</li> <li>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. IF – 4.7</li> <li>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., IF – 8.0.</li> <li><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. IF – 6,2</li> <li>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. IF – 4.8</li> <li>Bajor M, Graczyk-Jarzynka A, Marhelava K, <b>Burdzinska A</b>, Muchowicz A, Goral A, Zhylko A, Soroczynska K, Retecki K, Krawczyk M, Kłopotowska M, Pilch Z, Paczek L, Malmberg KJ, Wälchli S, Winiarska M, Zagozdzon R. PD-L1 CAR effector cells induce self-amplifying cytotoxic effects against target cells. <i>J</i></li> </ol> |

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|                                                                                                                                   | <i>Immunother Cancer.</i> <b>2022</b> Jan;10(1):e002500. doi: 10.1136/jitc-2021-002500. <b>IF – 13.75</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order | <p>1. PhD student: Filip Dabrowski<br/>Institution: 1st Faculty of Medicine, Medical University of Warsaw<br/>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.<br/>Supervisor: Prof. Miroslaw Wielgos; Co-supervisor: dr Anna Burdzińska<br/>status: doctoral dissertation completed in 2018</p> <p>2. PhD student: Agnieszka Kulesza<br/>Institution: Faculty of Medicine, Medical University of Warsaw<br/>Title of the doctoral dissertation: The effect of ibuprofen on the properties of human mesenchymal cells of the bone marrow<br/>Supervisor: dr Anna Burdzinska<br/>Status: open doctoral dissertation (sinse 2022)</p> |
| Achievements in the area of projects/grants (in the last 5 years)                                                                 | <p>Principal Investigator in:</p> <p>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:</p> <p>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>                                                                                                                                                                                                                                                     |
| Subject area of the research project for which the candidate student is being recruited                                           | <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><br>Institute<br>E-mail address<br>Telephone number                                                        | Institute of Veterinary Medicine, WULS-SGGW<br><a href="mailto:anna_burdzinska@sggw.edu.pl">anna_burdzinska@sggw.edu.pl</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |