

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

Name and surname, degree, title: <b>Edyta Hewelke</b> , PhD with “habilitation	
Academic discipline/disciplines	Environmental Engineering, Mining and Energy
Professional development (degrees and titles) in chronological order	1996 - Master of Science in Engineering; 2002 - Doctor of Agricultural Sciences in Environmental Engineering; 2019 - habilitation, Engineering and Technology, Environmental Engineering,
Most important publications/ patents in the last 3 years (maximum 10)	Hewelke, E., Weber, J., Mielnik, L., Spaccini, R., Gozdowski, D., Podlasiński, M., Ćwieląg-Piasecka I., Jamróz E., Jerzykiewicz M., Perzanowska A., Bogužas V., Skinulienė L., Dębicka, M. 2026. Effect of 55 years of different soil management on soil physical properties and stability of soil organic matter. <i>Agriculture, Ecosystems &amp; Environment</i> , 396, 110005 Górska E.B., Stępień W., Hewelke E., Lata J.C., Gworek B., Gozdowski D., Sas-Paszt L., Bazot S., Lisek A., Gradowski M., Baczeńska-Dąbrowska A.H., Dobrzyński J. (2024). Response of soil microbiota to various soil management practices in 100-year-old agriculture field and identification of potential bacterial ecological indicator. <i>Ecological Indicators</i> , 158, 111545. <a href="https://doi.org/10.1016/j.ecolind.2024.111545">https://doi.org/10.1016/j.ecolind.2024.111545</a> Smreczak B., Hewelke E., Kowalik M., Ukalska–Jaruga A., Weber J. (2024). Rational management of agricultural soils under climate change. <i>Soil Science Annual</i> , 75(3)193074. <a href="https://doi.org/10.37501/soilsa/193074">https://doi.org/10.37501/soilsa/193074</a> Hewelke E., Mielnik L., Weber J., Perzanowska A., Jamroz E., Gozdowski D., Szacki P. (2024). Chemical and physical aspects of soil health resulting from long-term no-till management. <i>Sustainability</i> , 16, 9682. <a href="https://doi.org/10.3390/su16229682">https://doi.org/10.3390/su16229682</a> Weber J., Mielnik L., Leinweber P., Hewelke E., Kocowicz A., Jamroz, E., & Podlasiński, M. (2024). The influence of different, long-term fertilizations on the chemical and spectroscopic properties of soil organic matter. <i>Agronomy</i> , 14(4), 837. <a href="https://doi.org/10.3390/agronomy14040837">https://doi.org/10.3390/agronomy14040837</a> Hewelke E., Zaniewski P.T., Pędziwiatr A., Gozdowski D., Górska E.B. (2024). The relations between soil hydrophobicity

	<p>and vegetation in abandoned arable fields on sandy soil. <i>Biologia</i> 1-9. <a href="https://doi.org/10.1007/s11756-024-01776-5">https://doi.org/10.1007/s11756-024-01776-5</a></p> <p>Oleszczuk R., Bajkowski S., Urbański J., Pawluśkiewicz B., Małuszyński M., Małuszyńska I., Jadczyzyn J., Hewelke E. (2024). The Impacts of Beaver Dams on Groundwater Regime and Habitat 6510, <i>Land</i> 13(11), 1902. <a href="https://doi.org/10.3390/land13111902">https://doi.org/10.3390/land13111902</a></p>
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral procedures) in chronological order	
Achievements in the area of projects/grants (in the last 5 years)	<p>2022 - 2025: Soil management effects on soil organic matter properties and carbon sequestration – SOMPACS in EJP Soil, Partner</p> <p>2021 - 2025: COST Action CA20138 - Network on Water-Energy-Food Nexus for a Low-Carbon Economy in Europe and beyond, Management Committee</p>
Subject area of the research project for which the candidate student is being recruited	Physical properties of soil health/quality
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