PROFILE FOR INSTITUTE WEBSITE

Current photo in graphic file e.g. 2025	
Name and surname, Title	**Małgorzata Palusińska PhD**
Position	Assistant Professor
Hirsch Index and Number of citations (according to Scopus) on the day of completing the form	h-index: 12, citations 554
Research areas (in points, min. 200 characters, max. 500 characters)	• molecular and genetic mechanisms of leukemia • genetics and molecular biology • metal transporters • plant biotechnology
Total number of completed research projects; currently implemented research projects (title and number) and selected max. 3 completed projects (title and number) from the newest ones, i.e. 2024, 2023, 2022…	Total number of projects: 7 Currently ongoing research projects: • OPUS “Epigenetic reprograming and all-trans-retinoic acid in therapy of myelodysplastic syndromes” 2021/41/B/NZ5/04397, project investigator • LIDER “Nanostructured polymer scaffolds for supporting bone regeneration”, LIDER, 0176/L-14/2023, project investigator Completed projects: • OPUS “Epigenetic effect on therapeutic activities of all-trans-retinoic acid in acute myeloid leukemia” 2019/33/B/NZ5/02399, project investigator • OPUS “Regulation of Cd-dependent Zn root-to-shoot translocation: molecular background” 2014/15/B/NZ9/02303, project investigator • DSM UW “Tissue-specific expression of *NtZIP5* in the presence of Fe, Cu and Mn deficiency”, principal investigator
Total number of publications; ORCID (number and hyperlink to the profile); SCOPUS (number and hyperlink to the	Number of publications: 19 ORCID: https://orcid.org/0000-0002-0399-5280 SCOPUS: https://www.scopus.com/authid/detail.uri?authorId=57191034625

profile); indicate selected publications (max. 5)	Selected publications: • Palusińska M, Barabasz A, Antosiewicz DM. NtZIP5A/B is involved in the regulation of Zn/Cu/Fe/Mn/Cd homeostasis in tobacco. Metallomics. 2024 Sep 5;16(9):mfae035. doi: 10.1093/mtomcs/mfae035. PMID: 39085042. • Skopek R, Palusińska M, Kaczor-Keller K, Pingwara R, Papierniak-Wyglądała A, Schenk T, Lewicki S, Zelent A, Szymański Ł. Choosing the Right Cell Line for Acute Myeloid Leukemia (AML) Research. Int J Mol Sci. 2023 Mar 11;24(6):5377. doi: 10.3390/ijms24065377. PMID: 36982453; PMCID: PMC10049680. • Palusińska M, Barabasz A, Kozak K, Papierniak A, Maślińska K, Antosiewicz DM. Zn/Cd status-dependent accumulation of Zn and Cd in root parts in tobacco is accompanied by specific expression of ZIP genes. BMC Plant Biol. 2020 Jan 22;20(1):37. doi: 10.1186/s12870-020-2255-3. PMID: 31969116; PMCID: PMC6977228. • Szymański Ł, Skopek R, Palusińska M, Schenk T, Stengel S, Lewicki S, Kraj L, Kamiński P, Zelent A. Retinoic Acid and Its Derivatives in Skin. Cells. 2020 Dec 11;9(12):2660. doi: 10.3390/cells9122660. PMID: 33322246; PMCID: PMC7764495. • Matras M, Borzym E, Stone D, Way K, Stachnik M, Maj-Paluch J, Palusińska M, Reichert M. Carp edema virus in Polish aquaculture - evidence of significant sequence divergence and a new lineage in common carp Cyprinus carpio (L.). J Fish Dis. 2017 Mar;40(3):319-325. doi: 10.1111/jfd.12518. Epub 2016 Jul 25. PMID: 27453481.
Total number of patents; selected patents (max. 2) and a hyperlink to personal patent achievements (UP RP), on the day of completing the form	
Selected scientific achievements from the newest, i.e. 2023, 2022, 2021... (in points, min. 800 characters, max. 1000 characters)	• 2020–2025: identification of potential new drugs for acute myeloid leukemia (AML) • 2015–2024: cloning and characterization of a new *NtZIP5* gene (ZRT-IRT-like Protein) in tobacco (Nicotiana tabacum) and determination of its role, alongside other ZIP genes, in Zn and Cd homeostasis • 2015: first identification of CEV (Carp Edema Virus) in carp farming in Poland
Number and list of defended PhD students from the latest, i.e. 2024, 2023, 2022...	
Organizational activities, dissemination of knowledge and others (in points, min. 300 characters, max. 1000 characters)	• conducting workshops and teaching activities during events such as the Night of Biologists, the Ochota Campus Explorers' Day, and the Fascinating World of Plants Day • supervision of PhD candidates and students • conducting lectures and laboratories for students