Candidate supervisor's information summary form

Name and surname, degree, title: Agata Fabiszewska, dr hab. inż.	
Scientific discipline/ disciplines	Food technology and nutrition
Professional development (degrees and titles) in chronological order	2009 - Master of Science in Biotechnology, Interdepartmental Study of Biotechnology, Warsaw University of Life Sciences. 2013 - doctor of agricultural sciences in food technology and nutrition, Faculty of Food Sciences, SGGW in Warsaw
	2023 - PhD in agricultural sciences, in the discipline of food and nutrition technology, Institute of Food Science, SGGW in Warsaw
Most important publications/ patents in the last 3 years (maximum 10)	 1.Fabiszewska A., Paplińska-Goryca M., Misiukiewicz-Stępień P., Woloszynowska M., Nowak D., Zieniuk B. (2022): Expression profile of selected genes involved in storage lipids synthesis in a model oleaginous yeast species <i>Yarrowia lipolytica</i>. International Journal of Molecular Sciences 23(3), nr artykułu 1041. 2.Fabiszewska A., Wierzchowska K., Wołoszynowska M., Nowak D., Zieniuk B. (2022): Brine and post-frying oil management in the fish processing industry – a concept based on oleaginous yeast culture. Processes, 10, 1-12, nr artykułu 294. 3.Wróbel B; Hryniewicz M.; Kulkova, I.; Mazur, K.; Jakubowska, Z.; Borek, K.; Dobrzyński, J.; Konieczna, A.; Miecznikowski, A.; Piasecka-Jóźwiak, K.; Fabiszewska, A. (2023) Fermentation Quality and Chemical Composition of Industrial Hemp (Cannabis sativa L.) Silage Inoculated with Bacterial Starter Cultures—A Pilot Study. Agronomy, 13, 1371. 4.Jasińska K., Zieniuk B., Jankiewicz U., Fabiszewska A. (2023): Bio-Based Materials versus Synthetic Polymers as a Support in Lipase Immobilization: Impact on Versatile Enzyme Activity, Catalysts, 13(2), 1-14, numer artykułu 395. 5.Wierzchowska, K., Derewiaka, D., Zieniuk, B., Fabiszewska A. et al. Whey and post-frying oil as substrates in the process of microbial lipids obtaining: a value-added product with nutritional benefits (2023) Eur. Food. Res. Technol. 249, 2675–2688. 6.Zieniuk B., Stępniewski T., Fabiszewska A.: Do they make a good match? Molecular dynamics studies on CALB-catalyzed esterification of 3-phenylpropionic and cinnamic acids (2023): Archives of Biochemistry and Biophysics, 750, 1-8, numer artykułu:109807. 7.Malajowicz J., Khachatryan K., Oszczęda Z, Karpiński P., Fabiszewska A., Zieniuk B., Krysowaty K. (2023) The Effect of Plasma-Treated Water on Microbial Growth and Biosynthesis of Gamma-Decalactones by <i>Yarrowia Lipolytica</i> Yeast". International Journal of Molecular Sciences 24: 1–20. 8.Fabiszewska A., Pakuls
Experience in work with doctoral students (defended doctoral dissertations, initiated doctoral programmes/procedures) in chronological order	 Ph.D.Bartłomiej Zieniuk,. (dissertation title "Enzymatic synthesis and study of biological activity of esters of phenolic compounds as food additives", supervisor Prof. dr hab. Ewa Białecka-Florjańczyk,), Institute of Food Sciences of the Warsaw University of Life Sciences, defense date 12.10.2021 - assistant supervisor. Katarzyna Wierzchowska, M.Sc. (thesis title "Research on obtaining microbial oil from oleogenous yeast cells and development of the concept of its use in the production of food

Project/grants achievements (in the last 10 years)	emulsions", the beginning of training at the Doctoral School in 2020/21, supervisor Dr. hab. Dorota Nowak) - assistant supervisor 3. Karina Jasinska, M.Sc. (thesis title "Research on enzymatic modification of phenolic compounds and its use to improve the quality of fat-rich food products", the beginning of training at the Doctoral School in 2021/22 - supervisor 4 M.Sc. Suheda UĞUR (working title of thesis "Studies on sustainable microbial oil synthesis, its characteristics and formulation useful for food products", the beginning of training at SGGW Doctoral School in 2023/24) - supervisor 1. Project of the National Science Center MINIATURA 3 2019/03/X/NZ9/00096 "Analysis of the pathways of fat biosynthesis in Yarrowia lipolytica model yeast cells in media containing a lipid carbon source", duration: 24.10.2019 - 23.10.2020(principal investigator) 2. Research project of the Ministry of Education and Science within the framework of the program "Student scientific circles create innovations" SKN/SP/495871/2021 "Plant-based alternative of maturing cheese with mold as an innovation among dairy analogues", completion time: 14.06.2021 - 13.06.2022 (principal investigator) 3. Project of the National Science Center PRELUDIUM 21 2022/45/N/NZ9/02583 "Biochemical pathways of reserve lipid biosynthesis in oleogenic yeast cells by culture in media with hydrophobic carbon source - molecular view" completion time: 2023 - 2025, principal investigator M.Sc. Katarzyna Wierzchowska (project supervisor)
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Biotransformations involving bacteria and yeast lead to the synthesis of aroma compounds and compounds with antioxidant properties with potential use in food additives.
	Extraction of microbial oil with simultaneous disposal of food industry waste and an attempt to use it in food products.
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