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Personal website / Working group website: Intps://bioexplor.eu Projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)): 1. Research project "Unlocking Bioactivity of Forest Plants Associated Mycobiome as Sources of Nove Carotenoids and other BioPigments: Intensifying their Potential using Nanotechnology", National Centre of Science (NCN), POLONEZ BIS 1 programme, 2021/43/P/NZ9/02241, 11.2022 – 10.2024 (PI project manager). PhD topic: Bioprospecting Endophytic Fungi of some Medicinal Plants for Natural Bioactive Compounds Biological Sciences Short description of the research problem to be solved in the PhD (minimum 1000 characters): Natural bioactive compounds are considered the cornerstone in the development of high-value products. Their bioactivity has supported their applications in medicine, agriculture, and the food industry. The search for new bioactive compounds and the study of their potential biological activities has emerged as one of the most promising and ambitious developments in science. For example, there is a continuous need for new antibiotics due to the emergence of resistant microbes, and a global need for other drugs to target unmet clinical needs for a range of diseases. Hence, new natural compounds must be identified and developed now, more than ever, to meet this urgent and growing demand for novel drugs. The utilization of microbial communities, especially fungi, has several advantages which rendered it more robust from it are available in the phormace, the culture medium for fungal growth and metabolism is relatively cheap and simple. Today, the bioprospecting research still needs much attention because few products from it are available in the phormaceutical market. Thus, the research proland specielizations, softwares, language, analytical technique		Potent Production Platform of the Acetylcholinesterase Inhibitor Huperzine A by Gamma-Irradiated Alternaria brassicae Under Solid-State Fermentation. Applied Microbiology and Biotechnology. https://doi.org/10.1007/s00253-021-11678-0; 4. Mousa SA, El-Sayed ER, Mahmoud SR, Abo El-Seoud MA, Elmehalawy AA, Abdou DAM (2021) Novel mycosynthesis of Co3O4, CuO, Fe3O4, NiO, and ZnO nanoparticles by the endophytic Aspergillus terreus and evaluation of their antioxidant and antimicrobial activities. Applied Microbiology and Biotechnology. https://doi.org/10.1007/s00253-020-11046-4; 5. El-Sayed ER, Zaki AG, Ahmed AS, Ismaiel AA (2020) Production of the anticancer drug taxol by the endophytic fungus Epicoccum nigrum TXB502: enhanced production by gamma irradiation mutagenesis and immobilization technique. Applied Microbiology and Biotechnology. https://doi.org/10.1007/s00235-020-10712-x
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b) Agreement number:	a) Project title:	

 c) Number of months in the project to support PhD (in months; starting from 	
1st of October 2022):	
Project website:	