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UPWr Base of Knowledge - link:	<a href="https://bazawiedzy.upwr.edu.pl/info/autor/UPWre0774fc6ad174f4ab0bbc77317eaed85/Maciej%2BFilipiak+title?l">https://bazawiedzy.upwr.edu.pl/info/autor/UPWre0774fc6ad174f4ab0bbc77317eaed85/Maciej%2BFilipiak+title?l</a>
Researchgate:	
Personal website / Working group website:	
Participation in projects in last 5 years (chronological; with distinction into PI (kierownik) and RF (wykonawca)):	Project no.: B130/0003/21 (international) An exemplary concept for the protection and management of cultural landscapes on the example of the Pełcznica Gorge near Książ (contractor) Previously, the manager of two large grants funded by the Scientific Research Committee and National Science Centre and others, financed from other sources (Forest Research Institute, State Forests)
PhD topic:	Natural regeneration of the native elms ( <i>Ulmus</i> ) population in Lower Silesia
Research discipline in Doctoral School:	Biological Sciences
Short description of the research problem to be solved in the PhD (minimum 1000 characters):	<p>In Lower Silesia, similarly to Europe, there are three species of elm trees - <i>Ulmus. glabra</i>, <i>U. laevis</i> and <i>U. minor</i> (these are the only representatives of this genus in Europe). The number of these trees, compared to the original one, has been significantly reduced as a result of a strong reduction and transformation of the habitats they prefer (mainly riparian forests), and several dozen years of pressure from the so-called Dutch elm disease (DED) caused by the fungal pathogen <i>Opiostoma novo ulmi</i>, the origin of which is most likely anthropogenic. Apart from issues related to the development of the disease mentioned above, a very important and currently discussed topic concerns the share of individual elm species in communities of potential natural vegetation, especially in riparian communities. The level of natural regeneration of individual species may be of key importance here. It is suggested that the basis of the doctoral dissertation would be work conducted on the basis of selected (from the list provided by the supervisor) populations of studied trees. This work should include:</p> <ul style="list-style-type: none"> <li>- analysis of flowering (optional) and seed-bearing capacity,</li> <li>- collection of elm fruits (after falling to the ground),</li> <li>- assessment of the germination capacity of seeds and the possibility of producing seedlings in natural conditions (sowing seeds on experimental plots according to a modified method used in previous, similar works) and artificial conditions (nursery),</li> <li>- assessment of the number of seedlings from natural sowing and the number of young individuals formed vegetatively from root suckers (mainly applies to field elm - <i>U. minor</i>).</li> </ul>
Professional skills for PhD candidate (e.g. master program, specializations, softwares, language, analytical techniques, minimum 500 characters):	Completed (with a score of at least 4.5) master's studies in a field that includes botany, plant biology or dendrology (e.g. biology, landscape architecture, horticulture, forestry). Knowledge of English at level B2 and higher. Ability to efficiently use computer programs. Basic experience in conducting field research and natural inventories. Basic experience in using and writing scientific texts independently and efficiently. Basic knowledge of mathematical statistics and the use of statistical programs
a) Project title:	0
b) Agreement number:	0
c) Number of months in the project to support PhD student (in months; starting from 1st of October 2024):	0
Project website:	