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Title: Possibilities of optimizing the protection of biotechnological inventions in Polish law, based on the analysis of Polish and American law

### **Dissertation abstract**

The purpose of this dissertation is to try to find an answer to the research problem, i.e. whether the protection of biotechnological inventions in Polish law can be optimized, and if so, how. The search for this answer is carried out using an analysis of Polish and American law. The general hypothesis of the dissertation is that it is possible to optimize the legal protection of biotechnological inventions in Polish law. At each stage of the dissertation, an analysis of the protection of biotechnological inventions is carried out successively from the perspective of Polish and then American law. At the end of each chapter, similarities and differences between the systems are indicated, and conclusions are drawn as to the effectiveness of the protection provided, as well as proposals for possible changes to improve it.

The first part of the dissertation examines the genesis of the regulation of biotechnological inventions in Polish and American law with reference to the legal and economic reasons for its creation. The second part considers the concept of a biotechnological invention as defined by each legal system and the prerequisites required to obtain protection. The third part of the research deals with the types of biotechnological inventions in each of the legal systems. The fourth part examines the moral and ethical problems arising in connection with biotechnological inventions and the solutions to these problems applied in Polish and American law. The fifth part of the study is devoted to the scope of protection of individual patentable subject matter such as a product, method or material containing or possessing genetic information. The sixth part considers specific situations in which the rights of the patent holder to a biotechnological invention are limited. The seventh part of the study deals with the method of depositing biological material under Polish and American law. The conclusion summarizes the conclusions as to the effectiveness of the provided protection of biotechnological inventions and gives suggestions for changes to improve it.