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基因工程专利维持特征及影响因素分析

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Genetic engineering patent renewal characters and their influencing factors

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摘要 专利价值分析可以更好地测度创新活动产出和认识创新活动规律。该文构建包含USPTO授权基因工程发明专利特征和专利维持状况的专门数据库,经SAS 9.1.3软件运行logistic回归模型,考察基因工程专利维持的影响因素,揭示生物技术创新活动特点。对1991-1996年间授权的1063项基因工程发明专利的实证研究发现:基因工程专利呈现高维持率特征,61%的专利维持到法定年限,平均维持时间长度为13.65年;logistic模型分析结果表明,基因工程专利维持受到专利所有权人数量(组织间合作)、所有权人规模、被引用情况和内部连续创新活动的显著影响。这些研究认识对技术政策制定和创新战略管理有丰富的借鉴意义。

关键词: 专利维持 基因工程专利 合作创新 内部连续创新

Abstract: The assessment of patent value plays an important role in measuring innovation outputs and understanding innovative activities. With an aim of the relationship exploration among bio-tech patent renewal, patent value, and influencing factors, a database of genetic engineering patents, which includes characteristics of patent and the owner (s), and the patent renewal data collected from USPTO are retrieved. Based on a logistic regression model and SAS 9.1.3 calculation, the factors which affect the renewal of genetic engineering patent are found and then used to discuss the specific phenomena of bio-tech innovative activities. Through analyzing 1,063 US genetic engineering patents granted during the period of 1991-1996, it is found that genetic engineering patents have high renewal rate, and 61% patents which are mostly owned by large entities are renewed to full time and the average age is 13.65 years. The result of logistic regression shows that the renewal of genetic engineering patents is effectively influenced by the assignee number, the scale of entity, forward citation, and internal sequential innovation. This fact has insightful implication for technology policy-making and innovation strategy management.

Keywords: patent renewal genetic engineering patent cooperative innovation internal sequential innovation

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