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## 生物医药创新网络演化机理研究——以上海张江为例

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## The evolution of biopharmaceutical innovation network——A case study on Zhangjiang

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**摘要** 在资源和知识流动性日益增强的背景下,全球生物医药产业实现了从企业内部独立研发向合作创新的阶段性跨越,创新网络成为新药研发的主要组织形式。但生物医药创新网络的形成与演化机理尚待研究。本文以上海张江生物医药为典型案例,从合作创新和集体学习两个维度,解析我国生物医药创新网络的生成机制。研究表明,合作创新是生物医药创新网络形成的内在驱动力;集体学习则通过知识、资源的流动与扩散,加速了创新网络结构的拓展。随着地理空间开放度和合作扁平度的变动,生物医药创新网络呈现出从企业内部创新网络、本地化创新网络向全球化创新网络过渡的阶段性变化特征。

**关键词:** 生物医药创新网络 演化规律 张江

**Abstract:** With the increasingly enhancing the fluidity of resources and knowledge, a staged breakthrough from inside enterprises independent R&D to cooperative innovation is stridden over in the global biopharmaceutical industry, and innovative network becomes the main organization form in R&D for the new medicine. However, the generation and evolution law of biopharmaceutical innovative network still need to the further researched. By taking Zhangjiang in Shanghai as an example, the evolution law of biopharmaceutical innovative network has been analyzed from two dimensions of cooperative innovation and collaborative learning. The result shows that cooperative innovation is the inner drive for the development of biopharmaceutical innovative network; collaborative learning accelerates the structural expansion of innovative network. With the change in geographical spatial openness and cooperative flatness, biopharmaceutical innovation network goes through the evolution of inner-enterprise innovation network, local innovation network, and global innovation networks.

**Keywords:** biopharmaceutical innovation network evolution law Zhangjiang

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