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摘要：原子力显微镜(Atomic force microscopy, AFM)由于自身的优势，在生物领域内应用越来越广泛。同时，DNA分子由于其稳定的物理化学性质而成为纳米领域的重要实验材料，近阶段把它作为模板应用在构建纳米线等方面的研究越来越多，而怎样建立有规则图样的DNA模板就成为一个关键问题。本文介绍用原子力显微镜观察液流操纵后的DNA规则图案。

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[AFM investigation of the DNA patterns formed by water flows](#)

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Abstract: Recently, atomic force microscopy (AFM) has been increasingly used in biological sciences, especially in imaging and manipulation of single DNA molecules. Due to its unique physicochemical stability and mechanical rigidity, DNA becomes a promising material for nanotechnology. Many articles focus on how to use DNA molecules as a template for nanowires. Therefore, how to fabricate various patterns of DNA molecules becomes a key technical problem. This article introduces our method by using a liquid flow to manipulate single DNA molecules to form special patterns, which were revealed by AFM.

Key words:

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