# A Study on Characteristics of SLIDING Fiber and the Potential of Application in Biomedical

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Today there is a need for upgraded functional biomaterials to replace or effectively regenerate the damaged tissue. In this research, The goal is to develop the SLIDING fiber studied in this lab and further confirm its applicability in the biomedical field. SLIDING fiber has been shown to contain a single cell/genome/drug for effective in vivo injection. The study was conducted to maintain the advantages of SLIDING fiber, which enables surgery without open surgery and to learn how to interject a combination of SLIDING fiber with different properties. Various analytical equipment were used to analyze the upgraded SLIDING fiber in comparison with previous SLIDING fiber. Through this, the reconstructed sliding fiber will have the potential as a cell carriers and evaluate whether it will have a positive effect on tissue engineering.