

## Summary

This book aims to serve as a reference which combines the description and protocols for the promising field of tissue engineering and regenerative medicine. This book also focused on the fabrication of composite tissue engineering scaffolds through the electrospinning and freeze-drying processes. Evaluation of the scaffolds was also reported. The book focused on several areas: (1) description of scaffolding materials; (2) description of different processing route to fabricate scaffolds; (3) establishment of the scaffold fabrication technique using PCL polymers and HA by using electrospinning technique; (4) Fabrication of three dimensional composite scaffolds using PCL and HA via freeze-drying technique; (5) evaluation of the composite scaffolds. Successful scaffold fabrication can have vast potential in tissue engineering and regenerative medicine.