

1. Record Nr.	UNINA9910847591003321
Autore	Tang Yi-Da
Titolo	Application of Biomaterials in the Treatment of Cardiovascular Diseases [[electronic resource] /] / edited by Yi-Da Tang, Jing Yang, Yufeng Zheng, Yongjun Li, Yong Zeng
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	981-19-7712-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (432 pages)
Altri autori (Persone)	YangJing ZhengYufeng LiYongjun ZengYong
Disciplina	617.4120592
Soggetti	Biotechnology Biomaterials Internal medicine Internal Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1. Summary (types of cardiovascular diseases, common clinical treatment methods and defects of cardiovascular diseases) -- Chapter 2. Anatomy of heart and blood vessel -- Chapter 3. Physicochemical Properties of The Ideal Materials for Cardiac Devices -- Chapter 4. Drug Delivery Systems and Cardiovascular Disease (including genes, proteins, and chemosynthetic drugs) -- Chapter 5. Manufacturing Methods of Materials for Cardiac Implant -- Chapter 6. Stent & Pefusion Balloon -- Chapter 7. Cardiac Valves -- Chapter 8. Occlusion Devices for Cardiovascular Disease -- Chapter 9. Prosthetic Vascular Grafts: Past, Present and Future -- Chapter 10. Cardiac Patch -- Chapter 11. Total Artificial Heart -- Chapter 12. Cardiac Pacemaker and Defibrillator -- Chapter 13. Future Challenges and Perspective.
Sommario/riassunto	This book summarizes the recent advancements for biomaterials in the field of cardiovascular disease, including drug delivery system (gene, protein, drug), implant interventional instrument (heart valve, heart blocker, stent, artificial blood vessel, patch, artificial heart, cardiac

pacemaker, etc.) have been innovated and applied to the clinical uses to treatment of cardiovascular disease. Through the summary of this book, readers will have comprehensive and advanced understanding of the application of biomaterials in the field of cardiovascular disease.

---