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Collana	Advances in Experimental Medicine and Biology, , 0065-2598 ; ; 1229
Disciplina	612.1
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Lingua di pubblicazione	Inglese
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Nota di contenuto	Section I Overview -- 1. An overview of non-coding RNAs and cardiovascular system -- Section II Bioinformatics and Interactions -- 2. Bioinformatics research methodology of non-coding RNAs in cardiovascular diseases -- 3. Online databases and non-coding RNAs in cardiovascular diseases -- 4. Interactions among non-coding RNAs involved in regulating of cardiovascular diseases -- 5. RNA-binding proteins (RBPs) and non-coding RNAs in cardiovascular diseases -- Section III Non-coding RNAs regulation in cardiovascular system -- 6. Involvement of epigenetic control and non-coding RNAs in cardiovascular system -- 7. Non-coding RNAs as Epigenetic Gene Regulators in Cardiovascular Diseases -- 8. Non-coding RNAs and physiological cardiac hypertrophy -- 9. Non-coding RNAs and cardiac regeneration -- 10. Role of non-coding RNA in diabetic cardiomyopathy -- 11. Comprehensive overview of non-coding RNAs in cardiac development -- Section IV Non-coding RNAs and Cardiovascular diseases -- 12. Non-coding RNAs and heart failure --

13. Non-coding RNAs and pathological cardiac hypertrophy -- 14. Non-coding RNAs and cardiac aging -- 15. Non-coding RNAs and ischemic cardiovascular diseases -- 16. Non-coding RNAs and coronary artery disease -- 17. Non-coding RNAs and cardiac arrhythmias -- 18. Non-coding RNA and cardiac electrophysiological disorders -- 19. Non-coding RNAs and atrial fibrillation -- 20. Y RNAs: Biogenesis, Function and Implications for the Cardiovascular System -- 21. Translational potential of non-coding RNAs for cardiovascular disease -- Section V Potential biomarkers and Therapeutic implications -- 22. Circulating non-coding RNAs and Cardiovascular Diseases -- 23. Small interfering RNAs and RNA therapeutics in Cardiovascular Diseases -- Section VI Future Prospects -- 24. Prospective advances in non-coding RNAs investigation.

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### Sommario/riassunto

This book presents the latest research on non-coding RNAs in cardiovascular disease, a major cause of death worldwide. Non-coding RNAs play a significant role in development, proliferation, differentiation and apoptosis. Since altered non-coding RNA expression is often associated with various diseases, their potential use in diagnostics, prognostics and therapeutics is an important current area of study. The book consists of six parts: 1) An overview of non-coding RNAs and cardiovascular system, 2) Bioinformatics and interactions, 3) Non-coding RNA regulation in cardiovascular system, 4) Non-coding RNAs and cardiovascular diseases, 5) Potential biomarkers and therapeutic implications, 6) Future prospects. It is particularly useful for researchers and students in the field of non-coding RNA and cardiovascular biology, as well as for cardiologists, pharmacologists and physiologists.

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