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Nota di contenuto	Part 1. Cellular and molecular mechanisms in inflammatory diseases Chapter 1. Vascular Diseases as mediator of systemic inflammation Chapter 2. Inflammation and gut microbiote Chapter 3. Cardioimmunology: na interdisciplinar approach Chapter 4. Cell therapy as strategy for respiratory Diseases Chapter 5. Mitochondrial dysfunction as a trigger of inflammation in cardiovascular diseases Chapter 6. Cancer therapy-induced inflammation and its consequences Chapter 7. Coupling glucose phosphorylation to oxygen in brain mitochondria: would it be redox set point? Chapter 8. Methods for the analysis of arachidonic acid- derived metabolites in platelets Part 2. Nanomedicines for inflammatory diseases Chapter 9. In vitro models and molecular markers for assessing nano-based systems inflammatory potential Chapter 10. Using micro- and nanocarriers for myocardial targeted delivery Chapter 11. Nano-based hydrogels for atopic dermatitis treatment Chapter 13. Nanomedicine applied to inflammatory bowel diseases Chapter 14. Nano-based therapies for pulmonary inflammatory diseases Chapter 15. Pulmonary inflammation treated by nanocarriers.		

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Biotechnology involves an interdisciplinary science that provides an interface between biological, molecular and cellular aspects of living organisms with broad technologies applicable in the fields of health, environment and materials. This book "Biotechnology applied to inflammatory diseases: Cellular mechanisms and nanomedicine" is focused on elaborating especially on two trendy areas from Biotechnology. In this volume, different inflammatory pathologies in terms of cellular and molecular mechanisms are characterized to better understand the science behind current precision medicine. The second part of the book focuses on the main biotechnological advancements for the understanding of the molecular mechanisms involved in the progression of various types of inflammatory diseases, highlighting upto-date contributions of nanomedicine. The reader will be able to explore the utilization of technologies for various inflammatory diseases and will be able to enable an engaging and valuable knowledge for further research and clinically applied scenarios. .