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Nota di contenuto	Part1. Molecular Mechanisms in Angiogenesis -- 1.Endothelial Growth Factor Receptors in Angiogenesis -- 2.The Role of Integrins in Angiogenesis -- 3.Toll-Like Receptors in Angiogenesis -- 4.Vascular Stem Cells in Regulation of Angiogenesis -- 5.Role of Transforming Growth Factor Beta Family in Angiogenesis -- 6.Angiogenesis-based Strategy by Hepatocyte Growth Factor for the Treatment of Ischemic Organ Diseases: From Biology to Clinical Trials -- 7.Functions of MicroRNAs in Angiogenesis -- 8.Mast Cells in Angiogenesis. The role of Angiogenic Cytokines -- Part2.Therapeutic Implications of Angiogenesis in Cancer -- 9.Therapeutic Implications of Angiogenesis in Cancer -- 10.The Role of Angiogenesis in Non-small Cell Lung

Cancer Tumor Behavior -- 11. Angiogenesis and Prostate Cancer: Friends or Foes -- Part 3. Therapeutic Implications of Angiogenesis in Eye Disorders -- 12. Angiogenesis-based Therapies for Eye Diseases -- 13. Anti-Angiogenesis Therapy in Diabetic Retinopathy -- Part 4. Therapeutic Implications of Angiogenesis in Cardiovascular Disorders and Peripheral Vascular Disease -- 14. Therapeutic Angiogenesis, Cell Therapy and Peripheral Vascular Disease -- 15. Cell-based Therapy in Ischemic Heart Disease -- 16. Angiogenesis and Atherosclerosis -- 17. microRNAs, Angiogenesis and Atherosclerosis -- 18. Trials of Angiogenesis Therapy in Patients with Ischemic Heart Disease -- Part 5. Therapeutic Implications of Angiogenesis in Miscellaneous Disease States -- 19. Perspectives in New Advances in Retinal Neovascularization Pathogenesis and Therapeutic Approaches -- 20. Role of Estrogens and Androgens in Angiogenesis -- 21. Brain Angiogenesis after Stroke -- 22. Stimulated Microgravity and Induction of Angiogenesis; A New Perspective in Wound Healing -- 23. Role of Skeletal Muscle Angiogenesis in Peripheral Artery Disease.

Sommario/riassunto

This book covers the latest developments in the therapeutic implications of angiogenesis, ranging from angiogenesis in the brain, angiogenesis in cancer, angiogenesis' role in atherosclerosis and heart disease as well as metabolic disorders and peripheral vascular disease. The book is comprehensive in its coverage of angiogenesis in a diverse set of diseases and examines the role of cellular and subcellular structures during the development of angiogenesis. Well-organized and thorough, this is an ideal book for researchers and biomedical engineers working in the field of therapeutic implications of angiogenesis. This book also: Covers the basics of the physiology of angiogenesis, including VEGF pathways in angiogenesis, integrins in angiogenesis, angiogenesis and exercise physiology, and more Details the role of angiogenesis in atherosclerosis and heart disease, including vascular endothelial growth factor and atherosclerotic plaque progression as well as angiogenesis and heart failure Illustrates in detail brain angiogenesis after stroke and the relationship between angiogenesis and Alzheimer's disease .
