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Descrizione fisica	1 online resource (338 pages)
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Nota di contenuto	1. Introductory Chapter: Role of Extracellular Vesicles in Human Diseases and Therapy -- 2. Mechanisms of Extracellular Vesicle Biogenesis, Cargo Loading, and Release -- 3. Extracellular Vesicles and Their Interplay with Biological Membranes -- 4. Morphology and Formation Mechanisms of Cellular Vesicles Harvested from Blood -- 5. High-Throughput Single Extracellular Vesicle Profiling -- 6. Extracellular Vesicles as Intercellular Communication Vehicles in Regenerative Medicine -- 7. Roles of Extracellular Vesicles in Human Reproduction -- 8. Exosomes and HIV-1 Association in AIDS-Defining Patients -- 9. The Role of Extracellular Vesicles in Immunomodulation and Pathogenesis of Leishmania and Other Protozoan Infections -- 10. Retracted: The Role of Extracellular Vesicles in the Progression of Tumors towards Metastasis -- 11. Exosomes in Cancer Diagnosis and Radiation Therapy -- 12. Diversity of Extracellular Vesicles (EV) in Plasma of Cancer Patients -- 13. Extracellular Vesicles as Biomarkers and Therapeutic Targets in Cancers -- 14. Extracellular Vesicles and Ovarian Cancer -- 15. Engineering of Extracellular Vesicles as Nano Therapy for Breast Cancer -- 16. Roles of Extracellular Vesicles in Cancer Metastasis -- 17. Tumor-Derived Exosome and Immune Modulation -- 18. Extracellular Vesicles for Cancer Immunotherapy: Biomarkers and Beyond.
Sommario/riassunto	Extracellular vesicles (EVs) are nanoscale vesicles secreted by cells that mediate horizontal cargo transport from donor to recipient cell, thereby establishing cell-cell communication and signaling. This book provides

critical information on the fundamentals of EVs, their roles in diseases like cancer, and their use in disease management. The chapters emphasize the emerging data confirming the role of EVs in the pathogenesis of diseases and discuss the scientific advances that have made it feasible to characterize and engineer EVs, leading to their use as tools in biomarker discovery and disease diagnosis, prognosis, therapeutic application, and theranostics. This volume is a valuable resource for basic biologists, translational scientists, and clinicians.
