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Descrizione fisica	1 online resource (227 pages)
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Note generali	Includes index.
Nota di contenuto	Part 1: Functions of Macropinocytosis -- Chapter 1: Functional Diversity of Macropinocytosis -- Chapter 2: Macropinocytosis and Cancer: From Tumor Stress to Signaling Pathways -- Chapter 3: The amoebal model for micropinocytosis -- Chapter 4: Extracellular ATP and macropinocytosis -- Chapter 5: Macropinocytosis and Cell Migration: Don't drink an drive -- Chapter 6: Macropinocytosis in phagocyte function and immunity -- Part 2: Signaling Mechanisms Driving Macropinocytosis -- Chapter 7: Roles of 3' Phosphoinositides in Macropinocytosis -- Chapter 8: Signaling pathways that regulate macropinocytosis in mammalian cells -- Chapter 9: Wnt, GSK3 and Macropinocytosis -- Chapter 10: Kras addiction promotes cancer cell adapation in harsh microenvironment through micropinocytosis -- Chapter 11: Kras-independent macropinocytosis in pancreatic cancer.
Sommario/riassunto	This book presents the functions and mechanisms of macropinocytosis, an actin-driven endocytic uptake process. Key points, including the evolutionary origins of macropinocytosis and major signaling pathways that regulate this uptake mechanism, are highlighted. A wide-array of functions of macropinocytosis are described, including cellular metabolism, cell death, cell migration and antigen presentation. Macropinocytosis has recently been recognized as a critical pathway in disease pathology and treatment. Therefore, a broad overview of macropinocytosis will benefit clinicians, as well as translational and basic research scientists. Moreover, as one of the main clathrin-independent endocytic routes, compiling all the critical information about macropinocytosis in one collection, this book will also be helpful to educators and their students.