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Titolo	Tumor Cell Metabolism : Pathways, Regulation and Biology / / edited by Sybille Mazurek, Maria Shoshan
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ISBN	3-7091-1824-7
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Descrizione fisica	1 online resource (371 p.)
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Soggetti	Cancer - Research Molecular biology Oncology Cancer Research Molecular Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Metabolic Remodeling in Bioenergetic Disorders and Cancer -- Tumor Cell Complexity and Metabolic Flexibility -- Autophagy and Tumor Cell Metabolism.-Tumour Hypoxia and the Hypoxia-Inducible Transcription -- MYC Regulation of Metabolism and Cancer -- Pyruvate Kinase M2: A Metabolic Tuner -- Role of the Pentose Phosphate Pathway in Tumour Metabolism -- Enzymes of the Tumour Metabolome in Diagnostic Applications -- Contribution of pH Alterations to the Tumor Microenvironment -- Mitochondrial Mutations in Cancer Progression: Causative, Bystanders, or Modifiers of Tumorigenesis? The Relevance of the Mitochondrial H+-ATP Synthase -- Canceromics Studies Unravel Tumor’s Glutamine Addiction -- Essential Role of Mitochondria in Pyrimidine Metabolism -- Metabolic Fluxes in Cancer Metabolism -- Targeted 13C-Labeled Tracer Fate Associations for Drug Efficacy Testing in Cancer.
Sommario/riassunto	The four sections of this book cover cell and molecular biology of tumor metabolism, metabolites, tumor microenvironment, diagnostics

and epigenetics. Written by international experts, it provides a thorough insight into and understanding of tumor cell metabolism and its role in tumor biology. The book is intended for scientists in cancer cell and molecular biology, scientists in drug and diagnostic development, as well as for clinicians and oncologists.