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Collana	Metabolic diseases--laboratory and clinical research
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [213]-232) and index.
Nota di contenuto	General classification of metabolomic approaches -- Stoichiometry-based approaches -- Correlation-based approaches -- Distances- and similarity indices-based approaches : cluster analysis -- Outliers and extreme cases analysis -- Weighted metabolic profiles analysis -- Time-dependent analysis of metabolic systems.
Sommario/riassunto	Metabolism represents a complex system characterised by a high variability in metabolites' structure, concentration and regulation ratio. Such variability is observed at different metabolic scales going from metabolites to metabolic profiles via chemical reactions and metabolic pathways, as well as under static or dynamic aspects. Variations in these components are due to apparition-disappearance, level increase-decrease and/or relative changes in weights or contributions leading to different structural, functional and evolutive states of the metabolic system. This book presents a variety of different computational approaches of the variability in metabolic systems.