

1. Record Nr.	UNINA9910431347703321
Titolo	Extracellular matrix omics // Sylvie Ricard-Blum, editor
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-58330-9
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 225 p. 22 illus., 20 illus. in color.)
Collana	Biology of Extracellular Matrix, , 0887-3224 ; ; 7
Disciplina	571.5
Soggetti	Bioinformatics Cell membranes Analytical chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: The extracellular matrix goes - omics: resources and tools -- Chapter 2:The matrisome of model organisms: from in-silico prediction to big-data annotation -- Chapter 3: Detecting changes to the extracellular matrix in liver diseases -- Chapter 4: Characterization of Proteoglycanomes by Mass Spectrometry -- Chapter 5: Historical overview of integrated GAG-omics and proteomics -- Chapter 6: Extracellular matrix networks: from connections to functions -- Chapter 7: Integration of Matrisome Omics: Towards System Biology of the Tumor Matrisome -- Chapter 8: Proteomic and degradomic analysis of body fluids: applications, challenges and considerations -- Chapter 9: Regulation of Cell-Matrix Adhesion Networks: Insights from Proteomics -- Chapter 10: Integrative models for TGF- signaling and extracellular matrix.
Sommario/riassunto	This book covers different omics aspects related to the extracellular matrix (ECM), namely specific omics resources focused on the extracellular matrix (e.g., databases, repositories and atlases), quantitative proteomics applied to specific extracellular matrices (e.g. basement membranes), biological processes such as ECM degradation (degradomics), cell-matrix interactions (adhesomes), signaling pathways, biomarker discovery and diseases, and interactomics (extracellular matrix interaction networks including not only protein-

protein but also protein-glycosaminoglycan interactions). The volume also includes recent advances in glycomics and glycobioinformatics applied to proteoglycans and glycosaminoglycans, which are key biological players. The use of omics data to build dynamic models of ECM-regulated biological pathways is addressed, together with the requirement to standardize omic data, which is a prerequisite for the FAIR (Findability, Accessibility, Interoperability, and Reusability) guiding principles for scientific data management. This book will be of great interest to a broad readership from beginners to advanced researchers, who are interested in extracellular matrix omics and will inspire future research topics. .

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2. Record Nr.	UNINA9910688588103321
Autore	Binns Colin
Titolo	Paediatric Nutrition // Colin Binns and Mi Kyung Lee
Pubbl/distr/stampa	Basel : , : MDPI - Multidisciplinary Digital Publishing Institute, , 2014
Descrizione fisica	1 online resource (348 pages)
Disciplina	615.854083
Soggetti	Diet therapy for children
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Food and nutrition has been central to human culture, philosophy and science since the beginning of civilisation. However the building blocks of food and nutrition, the nutrients, remained unknown until the late 19th century. Over the next 100 years advances in physics, chemistry and physiology led to rapid developments in our knowledge, first with development of an understanding of energy and the macronutrients, followed by the minerals and vitamins. The first vitamins to be explored scientifically were thiamine, vitamin D and C and in 1935 ascorbic acid was synthesised, beginning the 20th century rapid development of knowledge of nutrients.

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