1. Record Nr. UNINA9910597906903321

Titolo	Regulatory microRNA / / edited by Y-h. Taguchi, Hsiuying Wang
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI - Multidisciplinary Digital Publishing Institute, , [2019] ©2019
Descrizione fisica	1 online resource (348 pages)
Disciplina	581.35
Soggetti	MicroRNA Genetic regulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	About the Special Issue Editors -- Preface to "Regulatory microRNA" -- Circular RNA circHIPK3 Promotes the Proliferation and Differentiation of Chicken Myoblast Cells by Sponging miR-30a-3p -- A Novel Circular RNA Generated by FGFR2 Gene Promotes Myoblast Proliferation and Differentiation by Sponging miR-133a-5p and miR-29b-1-5p -- Relationship between Altered miRNA Expression and DNA Methylation of the DLKI-DIO3 Region in Azacitidine-Treated Patients with Myelodysplastic Syndromes and Acute Myeloid Leukemia with Myelodysplasia-Related Changes -- Integration of miRNA and mRNA Co-Expression Reveals Potential Regulatory Roles of miRNAs in Developmental and Immunological Processes in Calf Ileum during Early Growth -- Aleksandra Soplinska, Ciro Indolfi, Iwona Jastrzebska-Kurkowska, Anna Czlonkowska and Marek Postula -- MicroRNAs as Diagnostic and Prognostic Biomarkers in Ischemic Stroke-A Comprehensive Review and Bioinformatic Analysis -- MicroRNAs as Biomarkers in Amyotrophic Lateral Sclerosi -- Exploring MicroRNA Biomarkers for Parkinson's Disease from mRNA Expression Profiles -- Inferring Novel Autophagy Regulators Based on Transcription Factors and Non-Coding RNAs Coordinated Regulatory Network -- MicroRNAs in Cardiac Autophagy: Small Molecules and Big Role -- miR-338-3p Is Regulated by Estrogens through GPER in Breast Cancer Cells and Cancer-Associated Fibroblasts (CAFS) -- Unleashing the Full Potential

	of Oncolytic Adenoviruses against Cancer by Applying RNA Interference: The Force Awakens -- The Role of Extracellular Vesicles in Cancer: Cargo, Function, and Therapeutic Implications -- Expanding the miRNA Repertoire in Atlantic Salmon; Discovery of IsomiRs and miRNAs Highly Expressed in Different Tissues and Developmental Stages -- Predicting MicroRNA Mediated Gene Regulation between Human and Viruses -- Tensor Decomposition-Based Unsupervised Feature Extraction Can Identify the Universal Nature of Sequence-Nonspecific Off-Target Regulation of mRNA Mediated by MicroRNA Transfection -- MicroRNAs at the Interface between Osteogenesis and Angiogenesis as Targets for Bone Regeneration -- MicroRNA Expression is Associated with Sepsis Disorders in Critically Ill Polytrauma Patients -- Substantial Dysregulation of miRNA Passenger Strands Underlies the Vascular Response to Injury.
Sommario/riassunto	This book includes updated information about microRNA regulation, for example, in the fields of circular RNAs, multiomics analysis, biomarkers and oncogenes. The variety of topics included in this book reaffirms the extent to which microRNA regulation affects biological processes. Although microRNAs are not translated to proteins, their importance for biological processes is not less than proteins. An understanding of their roles in various biological processes is critical to understanding gene function in these biological processes. Although non-coding RNAs other than microRNAs have recently come under investigation, microRNA still remains the front runner as the subject of genetic and biological studies. In reading the collection of papers, readers can grasp the most updated information regarding microRNA regulation.