Record Nr.	UNINA9910437844003321
Titolo	Ten Years of Progress in GW/P Body Research / / edited by Edward K. L. Chan, Marvin J. Fritzler
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 2013
ISBN	1-283-93386-1 1-4614-5107-8
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (279 p.)
Collana	Advances in experimental medicine and biology, , 0065-2598 ; ; 768
Disciplina	572.8/8 572.869
Soggetti	Human genetics Cell biology Biochemistry Human Genetics Cell Biology Biochemistry, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes bibliographical references and index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface The GW body Story as an Example of Autoantibodies with Significant Impacts to Molecular Cell Biology The Discovery of GW Bodies The Discovery and Analysis of P Bodies Autoantibodies to Argonaute 2 (Su antigen) GW/P Bodies and Autoimmune Disease Function of GW182 and GW Bodies in siRNA and miRNA Pathways Post-Transcriptional Stimulation of Gene Expression by MicroRNAs Gawky (Gw) is the Drosophila Melanogaster GW182 Homologue The Role of GW182 Proteins in miRNA-mediated Gene Silencing Quantifying Argonaute Proteins in and out of GW/P-bodies: Implications in microRNA Activities Deadenylation and P-bodies Relationship of GW/P-bodies with Stress Granules Relationship of other Cytoplasmic Ribonucleoprotein (RNP) Bodies to GW/P Bodies A SNP in the Trinucleotide Repeat Region of the TNRC6A Gene Maps to a

1.

GW bodies are novel cytoplasmic foci that were discovered and named by Dr. Chan's group in 2002. These bodies are now known to be active cytoplasmic foci involved with the new gene regulation process mediated by microRNA that leads to translational repression and mRNA degradation. The detailed biological functions of these cytoplasmic structures are still being uncovered and the idea for this book is to provide the history of the discovery and the major work from different laboratories that has led to the characterization and elucidation of the structure and function of these new multiple subcellular structures.