1. Record Nr. UNISA996209486103316

Titolo	The International hydrographic review
Pubbl/distr/stampa	Monte-Carlo, Monaco Principality, : International Hydrographic Bureau, [1947]-
Descrizione fisica	1 online resource
Disciplina	551.460611
Soggetti	Hydrography Hydrographie Hydrografie Bibliography Periodicals.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Periodico
Note generali	Published: Lemmer [Netherlands] : GITC bv, 2000- Refereed/Peer-reviewed
Nota di bibliografia	Vol. 27-v. include section: International hydrographic bibliography (title varies).

2. Record Nr. UNINA9910437621003321

Titolo	Biophysical approaches to translational control of gene expression / / Jonathan D. Dinman, editor
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	9786613936059 1-283-62360-9 1-4614-3991-4
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (324 p.)
Collana	Biophysics for the life sciences
Altri autori (Persone)	DinmanJonathan D
Disciplina	612.014
Soggetti	Gene expression Genetic translation Physical biochemistry
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 and index.
Nota di contenuto	X-ray analysis of prokaryotic and eukaryotic ribosomes -- A passage through the ribosome by Cryo-EM -- Molecular dynamics simulations of the ribosome -- Structural analyses of the ribosome by chemical modification methods -- Methods for studying the interactions of translation factors with the ribosome -- Riboproteomic approaches to understanding IRES elements -- Rapid kinetic analysis of protein synthesis -- Investigating RNAs Involved in Translational Control by NMR and SAXS -- Analyses of RNA-ligand interactions by fluorescence anisotropy -- Approaches for the Identification and Characterization of RNA-Protein Interactions -- A multidisciplinary approach to RNA Localization -- Virtual Screening for RNA-interacting Small Molecules -- The ‘fifth’ RNA nucleotide: a role for ribosomal RNA pseudouridylation in control of gene expression at the translational level -- Translational Control of Synaptic Plasticity and Memory.
Sommario/riassunto	When quantum mechanics was first proposed a century ago, nobody could have anticipated how deeply it would affect our lives. Today, we are connected and powered through devices whose existence is predicated on the basic principles of this strange physics. Not even the biological sciences have escaped its reach. As scientists query the

deepest mysteries of the living world, the physical scales probed and the types of questions asked are increasingly blurring the lines between biology and physics. The hybrid field of biophysics represents the new frontier of the 21st century. The ribosome has been at the heart of three Nobel Prizes. Understanding its essential nature and how it interacts with other proteins and nucleic acids to control protein synthesis has been one of the central foundations in our understanding of the biology at the molecular level. With the advent of atomic scale structures, methods to visualize and separate individual molecules, and the computational power to model the complex interactions of over a million atoms at once, our understanding of how gene expression is controlled at the level of protein translation is now deeply ensconced in the biophysical realm. This book provides a premier resource to a wide audience, whether it be the general reader seeking a broad view of the field, a clinician interested in the role of protein translation in human disease, the bench researcher looking for state-of-the-art technologies, or computational scientists involved in cutting edge molecular modeling.