

1. Record Nr.	UNINA9910877842003321
Titolo	The GTPase superfamily // [editors, Joan Marsh (organizer) and Jamie Goode]
Pubbl/distr/stampa	Chichester ; ; New York, : Wiley, 1993
ISBN	1-282-34785-3 9786612347856 0-470-51445-0 0-470-51446-9
Descrizione fisica	1 online resource (302 p.)
Collana	Ciba Foundation symposium ; ; 176
Altri autori (Persone)	MarshJoan GoodeJamie
Disciplina	574.19/245
Soggetti	G proteins Guanosine triphosphatase Guanosine triphosphatase genes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Symposium on the GTPase superfamily, held at the Ciba Foundation, London, 17-19 November 1992"--P. [v]. "A Wiley-Interscience publication."
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	THE GTPase SUPERFAMILY; Contents; Introduction; Three-dimensional structure and properties of wild-type and mutant H-ras-encoded p21; Elongation factors in protein synthesis; RAS function and protein kinase cascades; Cell transformation by ras and regulation of its protein product; Identification of ras targets using a genetic approach; G proteins in signal transduction: the regulation of phospholipase C; The G protein cascade of visual transduction: kinetics and regulation; General discussion I Voltage-dependent Ca ²⁺ channels as GAPS; Regulators of small GTPases A GTPase cycle in initiation of protein translocation across the endoplasmic reticulum membrane A cell-physiological description of GE, a GTP-binding protein that mediates exocytosis; Dynamin, a GTPase involved in the initial stages of endocytosis; The VPS1 protein is a dynamin-like GTPase required for sorting proteins to the yeast vacuole; General discussion II : Ras-mediated signalling pathway during

vulval development in *Caenorhabditis elegans*; The cycle of SEC4 function in vesicular transport; Mx proteins: GTPases involved in the interferon-induced antiviral state

Should the tubulins be members of the GTPase superfamily? Final general discussion; Summing-up; Index of contributors; Subject index

Sommario/riassunto

Using a multidisciplinary approach, it features contributions and discussions of the latest research from leading scientists working on all aspects of GTPase activity. Covers all known members of the important superfamily of enzymes--the GTPases. Considers numerous key cellular functions and how they are regulated by GTPases. Also describes various regulatory proteins that modulate GTPase activity.
