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| Titolo | The GTPase superfamily [[electronic resource] /] / [editors, Joan Marsh (organizer) and Jamie Goode] |
| Pubbl/distr/stampa | Chichester ; ; New York, : Wiley, 1993 |
| ISBN | 1-282-34785-3<br>9786612347856<br>0-470-51445-0<br>0-470-51446-9 |
| Descrizione fisica | 1 online resource (302 p.) |
| Collana | Ciba Foundation symposium ; ; 176 |
| Altri autori (Persone) | MarshJoan<br>GoodeJamie |
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| Soggetti | G proteins<br>Guanosine triphosphatase<br>Guanosine triphosphatase genes<br>Electronic books. |
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| Note generali | "Symposium on the GTPase superfamily, held at the Ciba Foundation, London, 17-19 November 1992"--P. [v].<br>"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 Ca2+ channels as GAPS; Regulators of small GTPases<br>A GTPase cycle in initiation of protein translocation across the endoplasmic reticulum membraneA 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 |

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| | 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<br>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. |