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Nota di contenuto	Model Organisms in Spinal Cord Regeneration; Contents; Preface; List of Contributors; Part I Mammalian Models of CNS Regeneration; 1 The Role of Inhibitory Molecules in Limiting Axonal Regeneration in the Mammalian Spinal Cord; 1.1 Introduction; 1.1.1 CNS Neurons Have Widely Differing Phenotypes; 1.2 Difficulties in Assessing Axonal Regeneration in the Mammalian Spinal Cord; 1.2.1 Experimental Lesions and Problems of Interpretation; 1.2.2 Tracing Regenerating Axons; 1.2.2.1 Regeneration of Corticospinal Axons is Difficult to Assess 1.2.2.2 Regeneration of Ascending Dorsal Column Axons Can Be Measured Simply and Accurately 1.3 Myelin Proteins as Inhibitors of Axonal Regeneration; 1.3.1 Nogo; 1.3.2 OMgp; 1.3.3 MAG; 1.3.4 The Nogo-66 Receptor, NgR1, (RTN4R), and Related Molecules; 1.3.5 Co-Receptors: LINGO-1, p75 and TROY (TAJ); 1.3.6 Signal Transduction from Myelin-Derived Inhibitory Molecules; 1.3.7 The Role of Nogo-A in Axonal Regeneration in the Spinal Cord; 1.3.7.1 Variations in the Extent

of Axonal Regeneration in Different Strains of Nogo Knockout Mice  
1.3.7.2 Effects of Antibodies Against Nogo on Axonal Regeneration in Spinal Cord  
1.3.7.3 Neuronal Nogo-A; 1.3.8 The Role of NgR1, NgR2 and Their Co-Receptors in Axonal Regeneration Within the Spinal Cord;  
1.3.8.1 The Distribution of NgR1 and NgR2 Does Not Suggest a General Regeneration-Inhibitory Function in the CNS; 1.3.8.2 Knockout Mice Do Not Provide a Clear Picture of the Role of NgR1 in Regeneration; 1.3.8.3 Pharmacological Blockade of NgR1 Enhances Axonal Sprouting and Regeneration  
1.3.8.4 The Pattern of Expression of LINGO-1 and p75 Does Not Suggest a General Role in Inhibiting Regeneration in Vivo  
1.3.8.5 LINGO-1, p75 and TROY Have Important Roles in Neurite Outgrowth in Vitro, But Their Significance for Axonal Regeneration in Vivo Has Not Yet Been Established; 1.3.9 Effects of MAG and OMgp on Axon Regeneration in the Mammalian CNS; 1.3.10 Strong Evidence That Myelin Proteins Are Not Always Effective Inhibitors of Axonal Regeneration in Vivo; 1.4 Inhibitors at the Lesion Site (Fig. 1.5); 1.4.1 CSPGs  
1.4.1.2 Relationship Between the Distribution of CSPGs and Failure of Axonal Regeneration  
1.4.1.3 Chondroitinase ABC and Axonal Regeneration; 1.4.1.4 Scar-Reducing and Growth-Promoting Effects of Decorin; 1.4.2 Axonal Guidance Molecules Are Present in the Spinal Cord and Their Receptors Are Expressed by Specific Classes of Neuron;  
1.4.2.1 Semaphorins; 1.4.2.2 Ephrins; 1.4.2.3 Slits and Netrins in the Mammalian Spinal Cord; 1.5 The Most Consistent Effects of Interfering with Inhibitory Molecules or Their Signaling Are on Raphespinal Axons  
1.6 Interfering with Downstream Effectors of Inhibitory Signaling

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Sommario/riassunto

This handbook provides a comprehensive overview for students, clinicians and researchers planning to enter the field of neural regeneration, combining the latest knowledge with an understanding of all important model organisms in one handy volume. By covering the strengths and weaknesses as well as possible applications of different models it saves researchers both time and resources in their choice of the appropriate model organism. An equally valuable introduction for the novice planning to enter the field.

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2. Record Nr.	UNISA996208082303316
Titolo	Asia-Pacific journal of atmospheric sciences
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Disciplina	551.505
Soggetti	Atmospheric science - Asia Atmospheric science - Pacific Area Meteorology - Asia Meteorology - Pacific Area Climatology Environmental sciences Atmospheric science Meteorology Periodicals. Pacific Area Asia Korea
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3. Record Nr.	UNINA9910566472103321
Autore	Aboudzadeh M. Ali
Titolo	Function of Polymers in Encapsulation Process
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Descrizione fisica	1 online resource (212 p.)
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Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Sommario/riassunto	An interdisciplinary book that brings together, at an international level, a high-quality collection of reviews and original research articles dealing with the importance of natural or synthetic polymers in encapsulation processes and their applications. A deep understanding and relevant theoretical calculations for exploring the functions of the materials (involved in the formulations) have also been presented along with fundamental investigations. This book has explored the latest research on the function of polymers in encapsulation technology including fundamental theory and experiments together with reviews and articles. Moreover, the present book offers easy-to-achieve approaches that have been developed so far and could create a platform for industrial material production.