Content		
Volume		
V Reogi		
	Acon degeneration and rescue Axon degeneration and rescue generation and rescue ophn W. Griffin, Ahmet Höke, Thien T. Nguyen	
32 Biomin	morenitors and stem felle wrager syran	
Preface		
Contributors		
Neural repair		
introduction		
Section A:		
Section A1: mechanisms	Trophic factor delivery bysiesungoupping	
1 Anatom of neuro		
superser Oswald S		
2 Learning and mod		
Kimberly		
Richard F		
305 Short-te post-teta Ralf Schn		
4 Long-ter depressi		
Zafar I. B		
5 Cellular associat		
John H. B Evangelo		

## Contents (contents of Volume I)

Preface	xiii
Contributors	xv
Neural repair and rehabilitation: an	
introduction	xxvii
Section A: Neural plasticity	1
Section A1: Cellular and molecular mechanisms of neural plasticity	3
Index	
Anatomical and biochemical plasticity of neurons: regenerative growth of axons sprouting, pruning, and denervation	1) (1 8 8
supersensitivity Oswald Steward	5
Learning and memory: basic principles	
and model systems	26
Richard F. Thompson	
Short-term plasticity: facilitation and	
post-tetanic potentiation longized spis Ralf Schneggenburger	44
4 Long-term potentiation and long-term	
depression Zafar I. Bashir, Peter V. Massey	60
5 Cellular and molecular mechanisms of	
associative and nonassociative learning John H. Byrne, Diasinou Fioravante, Evangelos G. Antzoulatos	79

۷

And the second s

CNIC	evetom		internet state Paulo	
GINS	system		Section B1: Basic cellular and molecular	26
3	Plasticity of mature and developing		processes	
)	Plasticity of mature and developing	07		
		97	16 Neuronal death and rescue: neurotrophic	
	JOILH. Kaas, IIII P. POIIS		factors and anti-apoptotic mechanisms	27
			Thomas W. Gould, Ronald W. Oppenheim	
7	Activity-dependent plasticity in the	052185	6416 di V05 // Del Del motor una tu-	
	intact spinal cord	109	17 Arran degeneration and resource	20
	Jonathan R. Wolpaw		17 Axon degeneration and rescue	29
			John W. Ghinn, Annet Hoke, mien I. Nguyen	
3	Plasticity of cerebral motor functions:			
	implications for repair and rehabilitation	126	18 Adult neurogenesis and neural precursors,	
	Catherine L. Ojakangas, John P. Donoghue		progenitors, and stem cells in the	
			adult CNS	30
9	Plasticity in visual connections: retinal		Jeffrey D. Macklis, Gerd Kempermann	
	ganglion cell axonal development and			
	regeneration	147	10 Aven guidenes during development	
	Kurt Haas, Hollis T. Cline		19 Axon guidance during development	201
	Nort Housy House in carried		Gimes W. Massa Timethy F. Kapady	321
10	Dissticity in auditory functions	162	Simon w. Moore, filmothy E. Kennedy	
.0	losof D. Dauschoskos	102		
	JUSET P. RAUSCHECKEI		20 Synaptogenesis	34
	H10-0-521-856-8-8		Matthew S. Kayser, Matthew B. Dalva	
11	Cross-modal plasticity in sensory			
	systems	180		
	Krishnankutty Sathian		Section B2: Determinants of regeneration	363
			in the injured nervous system	
12	Attentional modulation of cortical			
	plasticity	194	21 Inhibitors of avonal regeneration	36
	Bharathi Jagadeesh		Tim Spencer, Marco Domeniconi	50.
			Mario T Filbin	
Sect	ion A3: Plasticity after injury to the CNS	207	Mare I. Hibin	
13	Plasticity in the injured spinal cord	209	22 Effects of the glial scar and extracellular	
10	Serae Rossianol	200	matrix molecules on axon regeneration	390
			Jared H. Miller, Jerry Silver	
14	Disstisity often busin lesions	220		
14	Plasticity after brain lesions	228	23 Trophic factors and their influence on	
	Randolph J. Nudo, mes Eisner-Janowicz,		regeneration	40
	Ann M. Stowe		Ioel M. Levine, Lorne M. Mendell	
	nformation contained herein is totally free from		not least because chrical standards are	
15	From bench to bedside: influence of		authors, enlaters and publishers therefore	
	theories of plasticity on human		24 Intraneuronal determinants of	
	neurorehabilitation	248	regeneration	42
	Acons Fleel Leonarda C Cohon		Lisa McKerracher Michael F Selzer	

Harris .

Contents vii

Halian .

Section B3:Promotion of regeneration443in the injured nervous system			30 Assessment of sensorimotor function after spinal cord injury and repair Ronaldo M. Ichiyama, Roland R. Roy,	548
25	Cell replacement in spinal cord injury Itzhak Fischer, Angelo C. Lepore, Steve Sang Woo Han, Alan R. Tessler	445	V. Reggie Edgerton Section B4: Translational research: application to human neural injury	563
26	Dysfunction and recovery in demyelinated and dysmyelinated axons Stephen G. Waxman	468	<ul> <li>Alzheimer's disease, model systems and experimental therapeutics</li> <li>Donald L. Price, Tong Li, Huaibin Cai, Philip C. Wong</li> </ul>	565
21	nerve regeneration Wesley J. Thompson	487	32 Biomimetic design of neural prostheses Gerald E. Loeb, Cesar E. Blanco	587
28	Transplantation of Schwann cells and olfactory ensheathing cells to promote	512	<ul> <li>Brain–computer interfaces for communication and control</li> <li>Jonathan R. Wolpaw and Niels Birbaumer</li> </ul>	602
	Mary Bartlett Bunge, Patrick M. Wood	515	<ul> <li>34 Status of neural repair clinical trials in</li> <li>brain diseases</li> <li>Olle F. Lindvall, Peter Hagell</li> </ul>	615
29	Trophic factor delivery by gene therapy Ken Nakamura, Un Jung Kang	532	Index	633

....