

Contents

	<i>page</i>
Preface	ix
Contributors	xi
1 CNS oligarchs; the rise of the oligodendrocyte in a neuron-centric culture	1
EMILY K. MATHEY, ARIEL ARTHUR AND PATRICIA J. ARMATI	
2 Comparative biology of Schwann cells and oligodendrocytes	19
RUDOLF MARTINI, JANOS GROH AND UDO BARTSCH	
3 Control of oligodendrocyte development and myelination in the vertebrate CNS	49
ROBERT H. MILLER	
4 Molecular organization of the oligodendrocyte and myelin	64
GRAHAME KIDD AND BRUCE D. TRAPP	
5 The genetics of oligodendrocytes	103
JOSEPH A. NIELSEN, PIERRE LAU AND LYNN D. HUDSON	
6 Immunobiology of the oligodendrocyte	115
DAVID KREMER, ORHAN AKTAS, HANS-PETER HARTUNG AND PATRICK KÜRY	
7 Oligodendrocytes and disease: repair, remyelination and stem cells	137
NEIL J. SCOLDING	
8 Glial progenitor cells and the dynamics of the oligodendrocyte and its myelin in the aged and injured CNS	154
JURATE LASIENE AND PHILIP J. HORNER	

viii Contents

9	Oligodendroglial pathology in multiple sclerosis TANJA KUHLMANN AND WOLFGANG BRÜCK	171
10	Glutamate receptors, transporters and periventricular leukomalacia TARA M. DESILVA AND PAUL A. ROSENBERG	186
	References	202
	Index	278

The color plate section can be found between pages 114 and 115.