

Contents

Preface	vii
Contributors	ix
Abbreviations.....	xiv

Volume 1

CHAPTER 1: General pathology of the central nervous system	1
<i>Harry V Vinters and BK Kleinschmidt-DeMasters</i>	
CHAPTER 2: Vascular disease, hypoxia and related conditions.....	59
<i>Raj Kalaria, Isidro Ferrer and Seth Love</i>	
CHAPTER 3: Disorders of the perinatal period	210
<i>Rebecca D Folkerth and Marc R Del Bigio</i>	
CHAPTER 4: Malformations.....	270
<i>Brian N Harding and Jeffrey A Golden</i>	
CHAPTER 5: Metabolic and neurodegenerative diseases of childhood	399
<i>Thomas S Jacques and Brian N Harding</i>	
CHAPTER 6: Lysosomal diseases.....	439
<i>Steven U Walkley, Kinuko Suzuki and Kunihiko Suzuki</i>	
CHAPTER 7: Mitochondrial disorders.....	523
<i>Patrick F Chinnery, Nichola Z Lax, Evelyn Jaros, Robert W Taylor, Douglas M Turnbull and Salvatore DiMauro</i>	
CHAPTER 8: Peroxisomal disorders	562
<i>Phyllis L Faust and James M Powers</i>	
CHAPTER 9: Nutritional and toxic diseases	589
<i>Jillian Kril, Leila Chimelli, Christopher M Morris and John B Harris</i>	
CHAPTER 10: Trauma	637
<i>Colin Smith, Susan S Margulies and Ann-Christine Dubaime</i>	
CHAPTER 11: Epilepsy.....	683
<i>Maria Thom and Sanjay Sisodiya</i>	
CHAPTER 12: Extrapyramidal diseases of movement.....	740
<i>Tamas Revesz, H Brent Clark, Janice L Holton, Henry H Houlden, Paul G Ince and Glenda M Halliday</i>	
CHAPTER 13: Degenerative ataxic disorders	799
<i>H Brent Clark</i>	
CHAPTER 14: Motor neuron disorders	817
<i>Paul G Ince, J Robin Highley and Stephen B Wharton</i>	

CHAPTER 15: Ageing of the brain.....	849
<i>James Lowe</i>	
CHAPTER 16: Dementia.....	858
<i>James Lowe and Raj Kalaria</i>	

Volume 2

CHAPTER 17: Psychiatric diseases	975
<i>Margaret M Esiri, Steven A Chance, Jean Debarros and Tim J Crow</i>	
CHAPTER 18: Prion diseases.....	1016
<i>Mark W Head, James W Ironside, Bernardino Ghetti, Martin Jeffrey, Pedro Piccardo and Robert G Will</i>	
CHAPTER 19: Viral infections.....	1087
<i>Seth Love, Clayton A Wiley and Sebastian Lucas</i>	
CHAPTER 20: Bacterial infections	1192
<i>Martina Deckert</i>	
CHAPTER 21: Parasitic infections.....	1230
<i>Sebastian Lucas</i>	
CHAPTER 22: Fungal infections.....	1281
<i>Sebastian Lucas</i>	
CHAPTER 23: Demyelinating diseases	1297
<i>G R Wayne Moore and Christine Stadelmann-Nessler</i>	
CHAPTER 24: Diseases of peripheral nerves.....	1413
<i>Robert E Schmidt and Juan M Bilbao</i>	
CHAPTER 25: Diseases of skeletal muscle.....	1515
<i>Caroline A Sewry, Susan C Brown, Rahul Phadke and Francesco Muntoni</i>	
CHAPTER 26: Introduction to tumours	1623
<i>Arie Perry and David N Louis</i>	
CHAPTER 27: Astrocytic tumours.....	1638
<i>Daniel J Brat</i>	
CHAPTER 28: Oligodendroglial tumours.....	1673
<i>Guido Reifenberger</i>	
CHAPTER 29: Ependymal tumours.....	1693
<i>Guido Reifenberger</i>	
CHAPTER 30: Choroid plexus tumours.....	1709
<i>Hope T Richard, Jason F Harrison and Christine E Fuller</i>	
CHAPTER 31: Other glial neoplasms	1717
<i>Daniel J Brat</i>	

VI Contents

CHAPTER 32: Neuronal and mixed neuronal-glia tumours 1726 <i>Daniel J Brat</i>	CHAPTER 40: Lymphomas and haemopoietic neoplasms 1850 <i>Martina Deckert</i>
CHAPTER 33: Neuroepithelial tumours of the pineal region 1756 <i>Alexandre Vasiljevic, Anne Jouvet and Michelle Fevre Montange</i>	CHAPTER 41: Pituitary and suprasellar tumours 1870 <i>Sylvia L Asa</i>
CHAPTER 34: Embryonal tumours 1765 <i>Charles Eberhart</i>	CHAPTER 42: Cysts and tumour-like conditions 1908 <i>Arie Perry</i>
CHAPTER 35: Tumours of the peripheral nerves 1788 <i>Arie Perry and Robin Reid</i>	CHAPTER 43: Metastatic disease 1919 <i>Matthew D Cykowski and Gregory N Fuller</i>
CHAPTER 36: Tumours of the meninges 1803 <i>Arie Perry</i>	CHAPTER 44: Hereditary tumour syndromes 1926 <i>Arie Perry</i>
CHAPTER 37: Mesenchymal non-meningothelial tumours 1828 <i>Christine E Fuller and Knarik Arkun</i>	CHAPTER 45: Paraneoplastic syndromes 1945 <i>Marc K Rosenblum</i>
CHAPTER 38: Germ cell tumours 1834 <i>Marc K Rosenblum</i>	CHAPTER 46: CNS reactions to anti-neoplastic therapies 1954 <i>Arie Perry</i>
CHAPTER 39: Melanocytic tumours and haemangioblastoma 1844 <i>Arie Perry</i>	Index I-1