Book reviews


It is now some five years since the last symposium on motor neurone disease at the Johns Hopkins Hospital. The present volume is a report on the proceedings of the latest symposium on this condition. The editor has produced a balanced presentation from clinical and epidemiological, pathological and electrophysiological disciplines. The 13 chapters are contained in 140 pages including the references so that each is a fairly short and, in all cases, readable review of a particular approach to the problem. The reader already familiar with the problems of motor neurone disease may find little new information in this book but it does summarise usefully the present state of knowledge of the condition. Some pointers for further research are outlined, the application of studies of axonal transport to motor neurone disease, and the question of slow viruses in the aetiology of the condition. I think, however, that the reader will be left with the impression that, despite the accumulation of much information on the disease, there is as yet little evidence that we are much nearer to an understanding of its aetiology.

This is a clear summary of the present state of knowledge of motor neurone disease and it should certainly be read by everyone who has an interest in that condition.

J. P. BALLANTYNE


A new edition of Russell and Rubinstein—still in my opinion the best published account of tumours of the nervous system—is always welcome. There is inevitably a sensation of déjà vu while browsing in the new edition, but there are many subtle changes throughout; often only one or two sentences but they all provide some further relevant information. There are also some more obvious changes. Thus the section on the pathogenesis of tumours of the nervous system is considerably larger, and draws attention to the progress that has taken place in recent years in the field of experimental oncology. Some might have wished more detail in this section but the authors, correctly I think, have restricted themselves to a concise but lucid overview of the current situation, and all the important references are there. There are new illustrations; there are, where relevant, more electron micrographs and scanning electron micrographs: and observations on tissue culture are now incorporated in individual chapters. One of my complaints about the third edition was the absence of any useful account of the so-called intracranial haemangiopericytoma but current views on the nature and existence of this tumour are now clearly presented.

There is little else one can say. The book remains excellent value, despite the increase in its price, and I suppose that the greatest compliment one can pay its distinguished authors is that the fourth edition is even better than the third.

J. HUME ADAMS


This is much more than a second edition of the work which became a classic in its first form. The three authors put two years into the revising of their review of the subject and inculcating the advances up to 1976 to produce this new and magnificent presentation nonpareil. Advanced techniques of freeze fracturing and scanning electron microscopy, autoradiography and histochemistry are critically discussed from a strong platform of personal experience. Chapters on ependyma, choroid plexus, blood vessels, and peripheral nerve sheath have been included in the new text. About half of the photographs from the original, smaller volume have been retained. The 118 illustrations (with only four diagrams) are magnificent EM plates which define structure and relate it to accepted physiological facts in an economical but thorough text. Where functional relationships are not yet clarified, the authors express the problems with the support of about 1500 well chosen references contained in the final 50 pages.

The layout of the book is logical, beginning with the nerve cell body then its processes and the synapses within the central nervous system and beyond, including the neuromuscular synapses. The section on synapses can hardly be singled out as more valuable than others but the descriptions of the chemical interneuronal synapses will be...