

Contents

List of contributors	ix
1 Botanical microscopy – the current state of the art <i>J. Heslop-Harrison</i>	1
2 Fixation of plant cells for electron microscopy <i>J. Coetzee</i>	17
3 The use of low temperature methods for structural and analytical studies of plant transport processes <i>Anthony W. Robards</i>	39
4 Stereo-transmission electron microscopy of thick sections and whole cells <i>Chris Hawes</i>	65
5 Quantitative morphological analysis of botanical micrographs <i>L. G. Briarty</i>	91
6 Vesicle dynamics <i>M. W. Steer</i>	129
7 Laser Doppler microscopy of plant cells <i>Richard P. C. Johnson and Graeme R. A. Dunbar</i>	157
8 On the form and arrangement of cell wall microfibrils <i>J. H. M. Willison and R. M. Abeysekera</i>	181
9 Immunofluorescence applications in plant cells <i>R. B. Knox and M. B. Singh</i>	205
10 The plant cytoskeleton <i>P. K. Hepler</i>	233
11 Microtubule rearrangements during plant cell growth and development: an immunofluorescence study <i>K. Roberts, J. Burgess, I. Roberts, and P. Linstead</i>	263

12 Plant cell wall formation	285
<i>Werner Herth</i>	
13 Structural changes in protein bodies of cotton radicles during seed maturation and germination	311
<i>E. L. Vigil, R. L. Steere, M. N. Christiansen, and E. F. Erbe</i>	
14 Intercellular transport studied by micro-injection methods	335
<i>P. B. Goodwin and M. G. Erwee</i>	
Index	359