

Contents

List of Contributors vii

Preface ix

- 1 Vectors for the transformation of plant cells using *Agrobacterium* 1
PHILIP ARMITAGE, RICHARD WALDEN AND JOHN DRAPER
- 2 Transformation of dicotyledonous plant cells using the Ti plasmid of *Agrobacterium tumefaciens* and the Ri plasmid of *A. rhizogenes* 69
JOHN DRAPER, RODERICK SCOTT AND JOHN HAMIL
- 3 Transformation of plant cells by DNA-mediated gene transfer 161
JOHN DRAPER, RODERICK SCOTT, AMAR KUMAR AND GRAHAM DURY
- 4 The isolation of plant nucleic acids 199
JOHN DRAPER AND RODERICK SCOTT
- 5 DNA restriction and analysis by Southern hybridization 237
RODERICK SCOTT
- 6 Analysis of gene organization and expression in plants 263
RODERICK SCOTT, JOHN DRAPER, RICHARD JEFFERSON,
GRAHAM DURY AND LAWRENCE JACOB

Abbreviations 340

Company citation list 342

Index of techniques 347

Subject index 351