

Contents

Dedication, xi

HISTORICAL PERSPECTIVE

1. A History of Mu, 1
A. TOUSSAINT

MU AS A BACTERIOPHAGE

2. Phage Mu: An Overview, 25
M.M. HOWE
3. Regulation of Transcription, 41
N. GOOSEN AND P. VAN DE PUTTE
4. The SE Region, 53
L. PAOLOZZI AND N. SYMONDS
5. Late Genes, Particle Morphogenesis, and DNA Packaging, 63
M.M. HOWE
6. The Invertible G Segment, 75
C. KOCH, G. MERTENS, F. RUDT, R. KAHMANN, R. KANAAR, R. PLASTERK, P. VAN DE PUTTE, R. SANDULACHE, AND D. KAMP
7. Regulation and Expression of the *mom* Gene, 93
R. KAHMANN AND S. HATTMAN

INTEGRATION, TRANSPOSITION, AND REPLICATION

8. Integration of Infecting Mu DNA, 111
R.M. HARSHEY
9. Transposition of Mu DNA In Vivo, 137
G. CHACONAS
10. Transposition-Replication of Mu In Vitro: Use of Cell-free Reaction Systems for the Study of the Reaction Mechanism, 159
K. MIZUUCHI AND N.P. HIGGINS

11. Replication of Mu DNA In Vivo, 177

M.L. PATO AND B.T. WAGGONER

MU AND OTHER SYSTEMS

12. Transposable Elements: An Overview, 191

D. SHERRATT

13. Transposable Mu-like Phages, 201

M.S. DUBOW

14. Mu as a Genetic Tool, 215

F. VAN GIJSEGEM, A. TOUSSAINT, AND M. CASADABAN

15. Some Lessons of Mu, 251

J.A. SHAPIRO

16. The Evolution of Mu, 259

D. KAMP

Appendixes

1. Genetic and Physical Maps, 271

M.M. HOWE

2. Mu DNA Sequences, 275

Part A: Sequence of the Left End of Mu, 277

H. PRIESS, C. SCHMIDT, AND D. KAMP

Part B: Sequence of the Right End of Mu, 297

R. KAHMANN AND D. KAMP

3. Useful Mu and Mini-Mu Derivatives, 309

M. FAELEN

Bibliography, 317

Subject Index, 349