

Contents

Repair of Alkylated DNA by the <i>E. coli</i> Ada Protein P. E. VERDEMATO and P. C. E. MOODY	1
Structural Phylogenetics of DNA Base Excision Repair C. D. MOL, S. PARIKH, T. P. LO, and J. A. TAINER	29
Protein Interactions in Mammalian Pathways of DNA Base Excision Repair R. A. O. BENNETT and B. DEMPLE	71
Poly(ADP-Ribose) Polymerase Is Required for Maintenance of Genomic Integrity During Base Excision Repair G. DE MURCIA, F. DANTZER, C. TRUCCO, V. ROLLI, F. J. OLIVER, C. NIEDERGANG, and J. MÉNISSIER-DE MURCIA	83
Functional Domains of the <i>E. coli</i> UvrABC Proteins in Nucleotide Excision Repair N. GOOSEN, G.F. MOOLENAAR, R. VISSE, and P. VAN DE PUTTE	103
Nucleotide Excision Repair in Yeast: Recent Progress and Implications E. C. FRIEDBERG, W. J. FEAVER, W. HUANG, M. S. REAGAN, W. A. RAMOS, K. RODRIGUEZ, S. H. REED, A. E. TOMKINSON, S. WEI, and Z.-Y. YOU	125
Nucleotide Excision Repair in Man R. BESSHO and A. SANCAR	141
Transcription-Coupled and Global Genome Nucleotide Excision Repair R. A. VERHAGE, M. TIJSTERMAN, P. VAN DE PUTTE, and J. BROUWER	157
DNA Mismatch Repair M. O'DRISCOLL, O. HUMBERT, and P. KARRAN	173

Eukaryotic Mismatch Repair P. SCHÄR and J. JIRICNY	199
Conflicting Roles of Mismatch and Nucleotide Excision Repair in Cellular Susceptibility to Anticancer Drugs J. A. MELLO, E. E. TRIMMER, M. KARTALOU, and J. M. ESSIGMANN	249
Crystallographic Studies of Proteins Involved in Recombinational Repair and Excision Repair K. MORIKAWA	275
Eukaryotic DNA Ligases and DNA Repair R. BOWATER	301
Subject Index	315