

PREFACE	1
<b>Cell protection by low doses of ionizing radiation challenges the concept of linearity</b>	3
L. E. FEINENDEGEN, V. P. BOND, C. A. SONDHHAUS and K. I. ALTMAN	
<b>The control and execution of programmed cell death</b>	23
R. BEGUM, T. K. TANEJA, M. MOHAN, N. PATHAK, N. K. SAH, M. ATHAR and S. E. HASNAIN	
<b>Mutation induction: The influence of the time factor and radiation quality</b>	46
J. KIEFER	
<b>Genetic predisposition and genomic instability: Studies with mouse embryos</b>	54
C. STREFFER	
<b>Poly-ADP-ribosylation of proteins responds to cellular perturbations</b>	62
F. H. A. SCHNEEWEISS and R. N. SHARAN	
<b>DNA repair and biogenesis of mitochondria studied autoradiographically in the mouse brain in situ after a prenatal low dose x-irradiation</b>	73
H. KORR, J. BENDERS, H. T. ROHDE and C. SCHNETZ	
<b>Enhancement of radiomodulatory effect through liposome encapsulated radiomodifier on cancer bearing mice</b>	83
A. ALAM, S. CHAKRABORTY, C. RAPTHAP, P. N. SRIVASTAVA and R. N. SHARAN	
<b>Influence of buthionine sulfoximine on radiation induced chromosome aberrations in mammalian cells</b>	89
A. CHATTOPADHYAY and A. CHATTERJEE	
<b>Deoxy-D-glucose induced modifications of proliferation kinetics and radiation-induced division delay in human tumor cells in vitro</b>	93
B. S. DWARAKANATH, F. ZÖLZER, J. S. ADHIKARI, C. STREFFER and V. JAIN	
<b>Embryotoxic effect of gamma radiation in mice and their modulation by vitamins</b>	104
P. K. GOYAL, N. SINGH, S. GAJAWAT, T. K. PAREEK and P. K. DEV	
<b>Induction and repair of DNA double strand breaks</b>	108
J. KIEFER, R. EGENOLF and S. E. IKPEME	

<b>Status of cancer and its therapy in India</b>	116
P. N. SRIVASTAVA	
<b>Radiation effects of neutrons and protons - clinical results and potential modifications</b>	123
G. SCHMITT	
<b>Predictive assays for individualization of cancer therapy</b>	128
C. STREFFER, TH. BAUCH, G. STÜBEN, F. ZÖLZER and W.-U. MÜLLER	
<b>Predictive role of glutathione in cancer therapy</b>	133
P. UMA DEVI, G. K. JADHAV and P. BHANUMATHI	
<b>A review of intrinsic radiosensitivity as a predictor of patient response to radiotherapy</b>	138
HEMA VAITMANATHAN and SANJAY S. SUPE	
<b>Expression of truncated HBV RNA during the course of chronic hepatitis B: A study on Chinese and Indian patients</b>	144
A. KAIRAT, S. CHIPLUNKAR, DISHA BHAT, W. BEERHEIDE, G. ZHOU, Z.-Y. TANG and C. H. SCHRÖDER	
<b>Chronic low dose arecoline exposure affects DNA, RNA and protein contents and cellular poly-ADP-ribosylation in mice in vivo</b>	149
J. R. SAIKIA, F. H. A. SCHNEEWEISS and R. N. SHARAN	
<b>No role of poly(ADP-ribose) polymerase in EMS induced adaptive response in meiotic cells of <i>Poecilocerus pictus</i></b>	153
K. P. GURUPRASAD, V. VASUDEV, S. K. HARISH and R. VENU	
<b>Effects of carcinogen exposure on poly-ADP-ribosylation of HMG proteins and on chromatin organization</b>	158
THEISARA PARIAT, B. BALACHANDRAN and K N. SHARAN	
<b>The role of free radical detoxifying system in the cellular response to radiotherapy in carcinoma of the uterine cervix</b>	162
L. KRISHNAMOORTHY, G. RAMASWAMY, R. GOMATHY, V. KANNAN, RAMESH and N. ANANTHA	
<b>Mutator phenotype in a Chinese hamster cell strain ?</b>	165
B. PANDIT, G. BHAUMIK and N. P. BHATTACHARYYA	
LIST OF CONTRIBUTING AUTHORS	170