
VOLUME 23, ISSUE 1

Attractin: Cautionary Tales for Therapeutic Intervention in Molecules with Pleiotropic Functionality <i>Jonathan S. Duke-Cohan, Jeong H. Kim, & Abdallah Azouz</i>	1
Application of DNA Microarray to Toxicological Research <i>Toshi Shioda</i>	13
Radiation-Induced DNA Damage: Formation, Measurement, and Biochemical Features <i>Jean Cadet, Sophie Bellon, Thierry Douki, Sandrine Frelon, Didier Gasparutto, Evelyne Muller, Jean-Pierre Pouget, Jean-Luc Ravanat, Anthony Romieu, & Sylvie Sauvaigo</i>	33
Poly (ADP-Ribose) Polymerase and DNA-Dependent Protein Kinase: Differential Activation In Vivo <i>Himanshi Narang, Malini Krishna, & Naresh Chandra Verma</i>	45
Expression of NF- κ B and ERK Following Heavy Ion Irradiation <i>Anirban Kumar Mitra, Asiti Sarma, Malini Krishna, & Naresh Chandra Verma</i>	53
Cell Membrane Oxidative Damage Induced by Gamma-Radiation and Apoptotic Sensitivity <i>Kaushala P. Mishra</i>	61
p53 Binding to Target Sites Is Dynamically Regulated Before and After Ionizing Radiation-Mediated DNA Damage <i>Meredith E. Crosby, Marcela Oancea, & Alex Almasan</i>	67

VOLUME 23, ISSUE 2

Alterations in Colonic Barrier Function Caused By a Low Sodium Diet or Ionizing Radiation <i>Richard Naftalin</i>	79
Radiation and Cardiovascular Diseases <i>Akhilesh Trivedi & Mohammed A. Hannan</i>	99
Cellular Inactivation and Chromosomal Aberrations: Initial Damage <i>Arnaud Boissière, Anne Eschenbrenner, François Gobert, Marie-Anne Hervé du Penhoat, François Abel, Michele Lamoureux, Luis Martins, Marie-Françoise Politis, Michèle Ricoul, Alain Touati, Evelyne Sage, Laure Sabatier, & Annie Chetioui</i>	107

Modification of Thymocytes Membrane Radiooxidative Damage and Apoptosis by Eugenol <i>Badri N. Pandey & Kaushala P. Mishra</i>	117
Induction of Apoptosis in Thymocytes by <i>Hippophae rhamnoides</i> : Implications in Radioprotection <i>Harish Chandra Goel, Premkumar Indraghanti, Namita Samanta, & Suresh V. S. Rana</i>	123
Radioprotective Effect of Podophyllotoxin in <i>Saccharomyces cerevisiae</i> <i>Madhu Bala & Harish Chandra Goel</i>	139
Evaluation of Radioprotective Action of Compounds Using <i>Saccharomyces cerevisiae</i> <i>Purva Nemaavarkar, Bishnavath K. Chourasia, & Karpagam Pasupathy</i>	145
Relevance of Radioprotectors in Radiotherapy: Studies with Tocopherol Monoglucoside <i>Cherupally Krishnan Krishnan Nair, Veena Salvi, Tsutomu V. Kagiya, & Rema Rajagopalan</i>	153

VOLUME 23, ISSUE 3

Proteomics <i>David M. Naistat & Roger Leblanc</i>	161
On the Safety of Reduced Nicotinamide Adenine Dinucleotide (NADH) <i>Jörg G. D. Birkmayer, Karl F. R. Nadlinger, & Seth Hallström</i>	179
Lack of Adaptive Response of Human Lymphocytes Exposed In Vivo to Low Doses of Ionizing Radiation <i>Gordana Joksić & Sandra Petrović</i>	195
Chromosomal Aberration Analysis in Chronically Exposed Radiation Workers <i>Kshiti B. Anjaria & Badanidiyoor S. Rao</i>	207
Prevention and Repair of DNA Damage by Selected Phytochemicals as Measured by Single Cell Gel Electrophoresis <i>Sutapa Chakraborty, Madhumita Roy, & Rathin K. Bhattacharya</i>	215
Sulfur Free Radical Reactivity with Curcumin as Reference for Evaluating Antioxidant Properties of Medicinal Zingiberales <i>Pukhrambam Chirangini, Gurumayum J. Sharma, & Swapan K. Sinha</i>	227

Erratum to Sulfur Free Radical Reactivity with Curcumin as Reference for Evaluating Antioxidant Properties of Medicinal Zingiberales , by Pukhrambam Chirangini, Gurumayum J. Sharma, & Swapan K. Sinha	viii
Modulation of c-Kit/SCF Pathway Leads to Alterations in Topoisomerase-I Activity in Small Cell Lung Cancer <i>Gautam Maulik, Ajit Bharti, Ehsan Khan, Ryan J. Broderick, Takashi Kijima, & Ravi Salgia</i>	237
Effect of Platelet-Derived Growth Factor on the Development and Persistence of Asbestos-Induced Fibroproliferative Lung Disease <i>Jian Li, Halet G. Poovey, Juan Felipe Rodriguez, Arnold R. Brody, & Gary W. Hoyle</i>	253
Comparison of Genotoxicity of Textile Dyestuffs in <i>Salmonella</i> Mutagenicity Assay, In Vitro Micronucleus Assay, and Single Cell Gel/Comet Assay <i>Klaus-M. Wollin & Bernd-D. Görlitz</i>	267
Genotoxicity of Degradation Products of Textile Dyes Evaluated with <i>rec</i>-Assay After PhotoFenton and Ligninase Treatment <i>Ekta Choudhary, Neena Capalash, & Prince Sharma</i>	279
Protective Effect of Diphenylmethyl Selenocyanate Against Carbon Tetrachloride-Induced Hepatotoxicity In Vivo <i>Rajat Kumar Das, Sukta Das, & Sudin Bhattacharya</i>	287
Mutagenic Potential of Mancozeb in <i>Salmonella typhimurium</i> <i>Yogeshwer Shukla, Pankaj Taneja, Annu Arora, & Neeraj Sinha</i>	297
Urinary Excretion of Nickel After Dermal Application of Nigerian Light Crude Oil <i>Ibiba F. Oruambo</i>	303

- Abel, François, 107
Almasan, Alex, 67
Anjaria, Kshiti B., 207
Arora, Annu, 297
Azouz, Abdallah, 1
- Bala, Madhu, 139
Bellon, Sophie, 33
Bharti, Ajit, 237
Bhattachary, Rathin K., 215
Bhattacharya, Sudin, 287
Birkmayer, Jorg G.D., 179
Boissière, Arnaud, 107
Broderick, Ryan J., 237
Brody, Arnold R., 253
- Cadet, Jean, 33
Capalash, Neena, 279
Chakraborty, Sutapa, 215
Chetioui, Annie, 107
Chirangini, Pukhrambam, 227
Choudhary, Ekta, 279
Chourasia, Bishnavath K., 145
Crosby, Meredith E., 67
- Das, Rajat Kumar, 287
Das, Sukta, 287
Douki, Thierry, 33
Duke-Cohan, Jonathan S., 1
- Eschenbrenner, Anne, 107
- Frelon, Sandrine, 33
- Gasparutto, Didier, 33
Gobert, François, 107
Goel, Harish Chandra, 123, 139
Görlitz, Bernd-D., 279
- Hallström, Seth, 179
Hannan, Mohammed A., 99
- Hervé du Penhoat, Marie-Anne, 107
Hoyle, Gary W., 253
- Indraghanti, Premkumar, 123
- Joksic, Gordana, 195
- Kagiya, Tsutomu V., 153
Khan, Ehsan, 237
Kijima, Takashi, 237
Kim, Jeong H., 1
Krishna, Malini, 45, 53
- Lamoureux, Michele, 107
Leblanc, Roger, 161
Li, Jian, 253
- Martins, Luis, 107
Maulik, Gautam, 237
Mishra, Kaushala P., 61, 117
Mitra, Anirban Kumar, 53
Muller, Evelyne, 33
- Nadlinger, Karl F.R., 179
Naftalin, Richard, 79
Nair, Cherupally Krishnan Krishnan, 153
Naistat, David M., 161
Narang, Himanshi, 45
Nemavarkar, Purva, 145
- Oancea, Marcela, 67
Oruambo, Ibiba F., 303
- Pandey, Badri N., 117
Pasupathy, Karpagam, 145
Petrovic, Sandra, 195
Politis, Marie-Françoise, 107
Poovey, Halet G., 253
Pouget, Jean-Pierre, 33
- Rajagopalan, Rema, 153

Rana, Suresh V.S., 123
Rao, Badanidiyoor S., 207
Ravanat, Jean-Luc, 33
Ricoul, Michèle, 107
Rodriguez, Juan Felipe, 253
Romieu, Anthony, 33
Roy, Madhumita, 215

Sabatier, Laure, 107
Sage, Evelyne, 107
Salgia, Ravi, 237
Salvi, Veena, 153
Samanta, Namita, 123
Sarma, Asiti, 53
Sauvaigo, Sylvie, 33

Prince Sharma, 279
Sharma, Gurumayum J., 227
Shioda, Toshi, 13
Shukla, Yogeshwer, 297
Sinha, Neeraj, 297
Sinha, Swapan K., 227

Taneja, Pankaj, 297
Touati, Alain, 107
Trivedi, Akhilesh, 99

Verma, Naresh Chandra, 45, 53

Wollin, Klaus-M., 279

- adaptive response, 195
affymetrix, 13
agouti, 1
Ames test, 297
antioxidant(s), 117, 153, 227
apoptosis, 61, 117, 123, 195
asbestosis, 253
atherosclerosis, 99
attractin, 1
- base lesions, 33
bax, 67
biosimetry, 207
- camptothecin (CPT), 237
cancer, 153
cancer treatment, 237
captopril, 79
carbon tetrachloride (CCl₄), 287
cardiovascular diseases, 99
caspase III, 79
caspase-6, 67
catalase, 287
cell inactivation, 107
cellular radiosensitivity, 61
chemotherapy, 237
chromatin immunoprecipitation, 67
chromosomal aberrations, 107
chronic radiation exposure, 207
cisplatin, 237
c-Kit, 237
colon, 79
comet assay, 215, 279
compared genotoxicity, 279
consumer protection, 279
core ionizations, 107
crude oil exposure, 303
crypts, 79
curcumin, 215, 227
cyclonucleosides, 33
cytochrome c, 79
cytoprotective agents, 153
cytotoxicity, 195
- data mining, 13
degradation products, 267
DNA, 45, 107
DNA fragmentation, 123
DNA microarray, 13
DNA repair, 33, 215
DNA-protein crosslinks, 123
dose modifying factor (DMF), 145
- electrophoresis, 161
ellagic acid, 215
ERK, 53
etoposide, 237
eugenol, 117
- flow cytometry, 195
functional and structural proteomics, 161
- gene expression, 13
genomics, 161
genotoxicity, 267
Gleevec (STI571), 237
glutathione transferase (GST), 287
- HaCaT cells, 279
heavy ion irradiation, 53
Hippophae rhamnoides, 123
human lymphocytes, 195
- indole-3-carbinol, 215
industrial toxicology, 279
initial events, 107
interstrand crosslinks, 123
ionizing radiation, 33, 67, 79, 107
irinotecan (CPT-11), 237
- ladder, 123
leukemia, 67

ligninase, 267
 lipid peroxidation, 61, 117, 287
 liposomes, 61

 Mancozeb, 297
 maximum tolerated dose (MTD), 179
 membrane biogenesis, 1
 membrane damage, 61
 micronuclei, 195
 micronucleus assay, 279
 mutagenesis, 33, 139,
 mutagenicity, 297
 myofibroblasts, 79

 Na absorption, 79
 NADH, 179
 neurodegeneration, 1
 NF- κ B, 53
 nickel excretion, 303
N-methyl-*N'*-nitro-*N*-nitrosoguanidine
 (MNNG), 215
 nuclear enzymes, 45

 OB cadherin, 79
 occupational exposure, 195
 .OH radical, 33
 oligonucleotide synthesis, 33
 one-electron oxidation, 33
 orally absorbable NADH, 179
 organoselenium compound, 287
 oxidative stress, 61
 oxidized guanine, 33

p21, 67
p53, 67
 Perl, 13
 phosphatidylserine externalization, 117
 PhotoFenton, 267
 platelet-derived growth factor (PDGF), 253
 podophyllotoxin, 139
 poly(ADP-ribose)polymerase, 45
 profiling, 161
 protein kinase, 45
 proteome, 161
 psychosocial, 99
 pulmonary fibrosis, 253

puma, 67

 radiation, 45, 99, 153, 227
 radiation damage, 227
 radiation workers, 207
 radioprotection, 139, 153, 227
 radioprotectors, 145
 radiosensitivity, 195
 reactive oxygen species (ROS), 117, 123
rec-assay, 267
 receptor tyrosine kinase, 237
 recombinogenesis, 139
 reduced glutathione (GSH), 287
 resveratrol, 215

Saccharomyces cerevisiae, 139, 145
Salmonella mutagenicity test, 279
Salmonella typhimurium, 297
 SCGE assay, 279
 serum alanine transferase (ALT), 287
 serum aspartate transferase (AST), 287
 single cell electrophoresis (comet) assay, 153
 single cell gel electrophoresis, 215
 small cell lung cancer (SCLC), 237
 smooth muscle actin, 79
 stem cell factor (SCF), 237
 sulfur free radicals, 227
 superoxide dismutase, 287

 tandem lesion, 33
 textile dyes, 267
 textile dyestuffs, 279
 TGF- β , 79
 thymocytes, 117
 tocopherol monoglucoside, 153
 topoisomerase-1 (topo-1), 237
 toxicity studies, 179
 toxicogenetics, 13
 toxicogenomics, 13
 toxicology, 13
 transcriptome, 13
 transgenic mice, 253

 ultrasoft X-rays, 107

 V79 cells, 53

vesicle trafficking, 1

work hazards, 279

Zingiberales, 227

Z-VAD FMK, 79