
VOLUME 24, ISSUE 1

In Memoriam: Professor Giorgio L. Bronzetti <i>Edgar M. Moran</i>	1
Cell Membrane-Associated MT1-MMP-Dependant Activation of Pro-MMP-2 in A375 Melanoma Cells <i>Aniruddha Banerji, Jayati Chakraborti, Aparna Mitra, & Amitava Chatterjee</i>	3
Alterations in Bronchoalveolar Lavage Constituents, Oxidant/Antioxidant Status, and Lung Histology Following Intratracheal Instillation of Respirable Suspended Particulate Matter <i>Anupam Pradhan, Mohd Waseem, Shashi Dogra, Ashok Kumar Khanna, & Jawahir Lal Kaw</i>	19
Cell Cycle Regulators Modulating Con A Mitogenesis and Apoptosis in Low-Dose Radiation <i>Bhavani Shankar & Krishna B. Sainis</i>	33
Arsenic-Induced Micronuclei Formation in Mammalian Cells and Its Counteraction by Tea <i>Dona Sinha, Madhumita Roy, Maqsood Siddiqi, & Rathin K. Bhattacharya</i>	45
Aniline Derivative—Induced Methemoglobin in Rats <i>Harpal Singh & Elissa T. Purnell</i>	57
Hemolytic Potential of Structurally Related Aniline Halogenated Hydroxylamines <i>Harpal Singh & Elissa T. Purnell</i>	67

VOLUME 24, ISSUE 2

Special Issue on the Cancer-Preventing Activity of Tea and Its Polyphenols: Foreword <i>R. K. Bhattacharya, Guest Editor</i>	77
Inhibitory Effect(s) of Polymeric Black Tea Polyphenols on the Formation of B(a)P-Derived DNA Adducts in Mouse Skin <i>Rajesh Krishnan & Girish B. Maru</i>	79
Black Tea Protects Thymocytes in Tumor-Bearing Animals by Differential Regulation of Intracellular ROS in Tumor Cells and Thymocytes <i>Debaprasad Mandal, Lakshmishri Lahiry, Arindam Bhattacharyya, Sreya Chattopadhyay, Maqsood Siddiqi, Gaurisankar Sa, & Tanya Das</i>	91
Antioxidant Potential of Black Tea Against 7, 12-Dimethylbenz(a)anthracene-Induced Oxidative Stress in Swiss Albino Mice <i>Neetu Kalra, Sahdeo Prasad, & Yogeshwer Shukla</i>	105

Correlation of Apoptosis with Comet Formation Induced by Tea Polyphenols in Human Leukemia Cells	115
<i>Trina Kundu, Rathin K. Bhattacharya, Maqsood Siddiqi, & Madhumita Roy</i>	
Amelioration of Sodium Arsenite-Induced Clastogenicity by Tea Extracts in Chinese Hamster V79 Cells	129
<i>Dona Sinha, R. K. Bhattacharya, M. Siddiqi, & Madhumita Roy</i>	
Black Tea (<i>Camellia sinensis</i>) as a Chemopreventive Agent in Oral Precancerous Lesions	141
<i>Ajanta Halder, Ranjan Raychowdhury, Asish Ghosh, & Madhusnata De</i>	

VOLUME 24, ISSUE 3

Editorial: How to Evaluate Folk Remedy Data for Human Use: Two Approaches	145
<i>William L. Marcus</i>	
Role of c-MET in Upper Aerodigestive Malignancies—From Biology to Novel Therapies	149
<i>Sascha Dietrich, Radha Uppalapati, Tanguy Y. Seiwert, & Patrick C. Ma</i>	
Silica Induces Human Cyclooxygenase-2 Gene Expression Through the NF- κ B Signaling Pathway	163
<i>Jung-Kyoung Choi, Seok-Geun Lee, Joo Yong Lee, Hae-Yun Nam, Woon-kyu Lee, Kweon-Haeng Lee, Hyung Jung Kim, & Young Lim</i>	
Decreased T-Cell Proliferation and Skewed Immune Responses in LLC-Bearing Mice	175
<i>Rashid M. Rashid, Nicholas J. Achille, John M. Lee, Deanne M.R. Lathers, & M. Rita I. Young</i>	
Evaluation of Genotoxicity of Medicinal Plant Extracts by the Comet and VITOTOX® Tests	193
<i>Saroj Arora, Ethel Brits, Swayamjot Kaur, Kamaljeet Kaur, Rajbir S. Sohi, Subodh Kumar, & Luc Verschaeve</i>	
Use of Black Tea in Modulating Clastogenic Effects of Arsenic in Mice In Vivo	201
<i>Manomita Patra, Ajanta Halder, Niladri Bhowmik, & Madhusnata De</i>	
Black Tea Extract Can Modulate Protein Expression of H-ras, c-Myc, p53, and Bcl-2 Genes During Pulmonary Hyperplasia, Dysplasia, and Carcinoma In Situ	211
<i>Prosenjit Saha, Sarmistha Banerjee, Chaiti Ganguly, Sugata Manna, Chinmay K. Panda, & Sukta Das</i>	
Protective Effect of Bacoside A on Cigarette Smoking-Induced Brain Mitochondrial Dysfunction in Rats	225
<i>Kothandapani Anbarasi, Ganapathy Vani, & Chennam Srinivasulu Shyamala Devi</i>	

Mortality and Cancer Incidence Among Children and Adolescents in Hawaii 20 Years After a Heptachlor Contamination Episode <i>Gertraud Maskarinec</i>	235
Eupatilin Inhibits Proliferation of <i>ras</i> -Transformed Human Breast Epithelial (MCF10A- <i>ras</i>) Cells <i>Do-Hee Kim, Hye-Kyung Na, Tae Young Oh, Chang-Yell Shin, & Young-Joon Surh</i>	251
Eupatilin, a Pharmacologically Active Flavone Derived from Artemisia Plants, Induces Apoptosis in Human Gastric Cancer (AGS) Cells <i>Mins-Jung Kim, Do-Hee Kim, Hye-Kyung Na, Tae Young Oh, Chang-Yell Shin, & Young-Joon Surh</i>	261
Comparison of Pathological Features of Gastric Carcinoma in Turkey and Germany <i>Yesim Gürbüz & Günter Klöppel</i>	271
Gastric Glassy Cells: A Study of 3202 Gastrectomy Specimens from Dwellers of the Atlantic and Pacific Basins <i>C. A. Rubio, K. Mandai, J. G. Jónasson, A. King, G. Nesi, Z. Kogan, R. Pisano, M. Miller, & D. Owen</i>	281
Enhancement of Radiation Cytotoxicity in Murine Cancer Cells by Electroporation: In Vitro and In Vivo Studies <i>Pratip Shil, Surendra H. Sanghvi, Pandit B. Vidyasagar, & Kaushala P. Mishra</i>	291
Radioprotective and Antioxidant Properties of Low-Altitude <i>Podophyllum hexandrum</i> (LAPH) <i>Rajesh Arora, Raman Chawla, Satish Chander Puri, Ravinder Sagar, Shikha Singh, Raj Kumar, Ashok Kumar Sharma, Jagdish Prasad, Surender Singh, Gurpreet Kaur, Pankaj Chaudhary, Ghulam Nabi Qazi, & Rakesh Kumar Sharma</i>	299
Radioprotection by Oral Administration of <i>Aegle marmelos</i> (L.) Correa In Vivo <i>Ganesh Chandra Jagetia & Ponemone Venkatesh</i>	315

- Achille, Nicholas J., 175
Anbarasi, Kothandapani, 225
Arora, Rajesh, 299
Arora, Saroj, 193
- Banerjee, Sarmistha, 221
Banerji, Aniruddha, 3
Bhattacharya, Rathin K., 45, 77, 115, 129
Bhattacharyya, Arindam, 91
Bhowmik, Niladri, 201
Brits, Ethel, 193
- Chakraborti, Jayati, 3
Chatterjee, Amitava, 33
Chattopadhyay, Sreya, 91
Chaudhary, Pankaj, 299
Chawla, Raman, 299
Choi, Jung-Kyoung, 163
- Das, Sukta, 221
Das, Tanya, 91
De, Madhusnata, 141, 201
Devi, Chennam Srinivasulu Shyamala, 225
Dietrich, Sascha, 149
Dogra, Shashi, 19
- Ganguly, Chaiti, 221
Ghosh, Asish, 141
Gürbüz, Yesim, 271
- Halder, Ajanta, 141, 201
- Jagetia, Ganesh Chandra, 315
Jónasson, J. G., 281
- Kalra, Neetu, 105
Kaur, Gurpreet, 299
Kaur, Kamaljeet, 193
Kaur, Swayamjot, 193
Kaw, Jawahir Lal, 9
Khanna, Ashok Kumar, 19
- Kim, Do-Hee, 251, 261
Kim, Hyung Jung, 163
Kim, Min-Jung, 261
King, A., 281
Klöppel, Günter, 271
Kogan, Z., 281
Krishnan, Rajesh, 79
Kumar, Raj, 299
Kumar, Subodh, 193
Kundu, Trina, 115
- Lahiry, Lakshmeshri, 91
Lathers, Deanne M.R., 175
Lee, John M., 175
Lee, Joo Yong, 163
Lee, Kweon-Haeng, 163
Lee, Seok-Geun, 163
Lee, Woon-kyu, 163
Lim, Young, 163
- Ma, Patrick C., 149
Mandai, K., 281
Mandal, Debaprasad, 91
Manna, Sugata, 221
Marcus, William L., 145
Maru, Girish B., 79
Maskarinec, Gertraud, 235
Miller, M., 281
Mishra, Kaushala P., 291
Mitra, Aparna, 3
Moran, Edgar M., 1
- Na, Hye-Kyung, 251, 261
Nam, Hae-Yun, 163
Nesi, G., 281
- Oh, Tae Young, 251, 261
Owen, D., 281
- Panda, Chinmay K., 221
Patra, Manomita, 201
Pisano, R., 281
Pradhan, Anupam, 19
- Prasad, Jagdish, 299
Prasad, Sahdeo, 105
Puri, Satish Chander, 299
Purnell, Elissa T., 57, 67
- Qazi, Ghulam Nabi, 299
- Rashid, Rashid M., 175
Raychowdhury, Ranjan, 141
Roy, Madhumita, 45, 115, 129
Rubio, C. A., 281
- Sa, Gaurisankar, 91
Sagar, Ravinder, 299
Saha, Prosenjit, 221
Sainis, Krishna B., 33
Sanghvi, Surendra H., 291
Seiwert, Tanguy Y., 149
Shankar, Bhavani, 33
Sharma, Ashok Kumar, 299
Sharma, Rakesh Kumar, 299
Shil, Pratip, 291
Shin, Chang-Yell, 251, 261
Shukla, Yogeshwer, 105
Siddiqi, Maqsood, 45, 91, 115, 129
Singh, Harpal, 57, 67
Singh, Shikha, 299
Singh, Surender, 299
Sinha, Dona, 45, 129
Sohi, Rajbir S., 193
Surh, Young-Joon, 251, 261
- Uppalapati, Radha, 149
- Vani, Ganapathy, 225
Venkatesh, Ponemone, 315
Verschaeve, Luc, 193
Vidyasagar, Pandit B., 291
- Waseem, Mohd, 19
- Young, M. Rita I., 175

- (-)-epigallocatechin gallate (EGCG), 45
7,12-dimethyl benz(a)anthracene, 105
 γ -rays, 291
Acacia nilotica, 193
acute radiation toxicity, 315
Aegle marmelos (bael), 315
AGS cells, 261
Akt, 261
aniline metabolites, 57, 67
anti-CD3, 175
antioxidant, 19, 201, 299
antioxidant enzymes, 105
AP-1, 251
APC, 175
apoptosis, 33, 91, 211, 261
apoptotic index, 115
arsenic, 201
arsenite, 129
Artemisia asiatica, 251, 261
Assam tea extract (AT), 45
ATP, 225
bacoside A, 225
Bcl-2, 211
benzo(a)pyrene, 79
black tea extract, 105
black tea, 91, 141, 201
bone marrow cells, 47
bronchoalveolar lavage, 19
C/P ratio, 225
cancer, 175, 211
cancer epidemiology, 235, 271
cancer incidence, 235
cancer invasion, 3
carcinogenesis, 149, 201
caspase, 115, 261
catalase, 129
cell cycle, 261
cell cycle arrest, 251
cell cycle proteins, 33
cell death, 261
cell membrane, 3
cell migration, 149
cell proliferation, 251, 261
cell scattering, 149
cell survival, 261
chemoprevention, 211, 261
childhood morbidity, 235
childhood mortality, 235
chromosomal aberration, 141, 201
cigarette smoking, 225
c-Jun, 251
clastogenic effects, 201
clastogenicity, 129
c-MET, 149
c-Myc, 211
collagenase, 3
comet assay, 193
comet tail moment, 115
concanavalin A (con A), 33, 175
COX-2, 163
cyclin D1, 251
cytochrome P-450 activity, 79
cytokines, 175
Darjeeling tea extract (DT), 45
dendritic cells, 175
dietary protection, 201
diltiazem, 47
dimethyl arsenic acid (DMA V), 45
DNA adducts, 79
DNA fragmentation, 115
Ehrlich ascites carcinoma, 91, 291
electroporation, 291
endopeptidase, 3
environment, 281
epigallocatechin gallate, 211
epigallocatechin gallate tea polyphenols, 115
ERK, 261
erythrocytes, 67
erythropoietin, 47
eupatilin, 251, 261
extracellular matrix, 3
fibrosarcoma, 291
fluorescence, 291
gastric cancer, 271
gastric mucosa, 281
gene expression, 211
genotoxicity, 45
glassy cells, 281
glutathione, 47, 315
glutathione
green tea extract (GT), 45
halogenated phenylhydroxylamines, 57, 67
Hawaii epidemiology, 235
hematotoxicity, 57
hemolysis, 57, 67
hemolytic anemia, 67
hepatocyte growth factor/scatter factor (HGF/SF), 149
heptachlor contamination, 235
heptachlor toxicity, 235
histological classification, 271
H-ras, 211
immune response, 33
immunohistochemistry, 271
integrin $\alpha_v\beta_3$, 3
intratracheal exposure, 19
Juglans regia, 193
leukoplakia, 141
Lewis lung carcinoma, 175
lignans, 299
lipid peroxidation, 47, 105, 225, 315
low-altitude *Podophyllum hexandrum*, 299
low-dose radiation, 33
lung carcinogenesis, 211
lung histopathology, 19
MCF-10A-*ras* cells, 251
membrane fluidity, 291
metastasis, 3
methemoglobinemia, 57
micronuclei (MN), 45, 141
microsomes, 79
mitochondria, 33, 225
mitochondrial enzymes, 225
MMP-2, 3

mouse skin, 79
 MT1-MMP, 3
 MUC expression, 271
 mutagenicity, 193

 NF- κ B, 163
 NIK, 163
 nitrogen species, 19

 oral cancer, 141
 oxidative phosphorylation, 225
 oxidative stress, 105, 291

 p21, 261
 p21^{waf1/Cip1}, 251
 p27, 261
 p53, 211, 261
 phytochemical analysis, 315
 plant extracts, 193

 polymeric black tea polyphenols, 79
 population surveillance, 235
 protooncogenes, 149
 pulmonary cancer, 211
 pulmonary fibrosis, 163
 pulmonary silicosis, 163

 radiation, 47, 291, 315
 radioprotection, 299, 315
 reactive oxygen species (ROS), 19, 91, 291
 receptor tyrosine kinase (RTK), 149
 red blood cells, 67
 red cell toxicity, 57

 signal transduction, 149
 silica, 163
 sodium arsenate (As V), 45
 sodium arsenite (As III), 45

 splenocytes, 175
 superoxide dismutase, 129
 survival, 315

 T cells, 175
 TAK1, 163
 tea extracts, 129
Terminalia chebula, 193
 theaflavin (TF), 45, 115, 211
 thymocytes, 91
 TIMP-2, 3
 Triphala, 193
 tumor growth, 291

 upper aerodigestive cancer, 149
 urban respirable particles, 19

 V79, 45
 VITOTOX[®] test, 193