MUTATION RESEARCH - GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS
A section of Mutation Research

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DESCRIPTION

*Mutation Research - Genetic Toxicology and Environmental Mutagenesis (MRGTEM)* publishes papers advancing knowledge in the field of genetic toxicology. Papers are welcomed in the following areas:

New developments in genotoxicity testing of chemical agents (e.g. improvements in methodology of assay systems and interpretation of results). Alternatives to and refinement of the use of animals in genotoxicity testing. Nano-genotoxicology, the study of genotoxicity hazards and risks related to novel man-made nanomaterials. Studies of epigenetic changes in relation to genotoxic effects. The use of structure-activity relationships in predicting genotoxic effects. The isolation and chemical characterization of novel environmental mutagens. The measurement of genotoxic effects in human populations, when accompanied by quantitative measurements of environmental or occupational exposures. The application of novel technologies for assessing the hazard and risks associated with genotoxic substances (e.g. OMICS or other high-throughput approaches to genotoxicity testing).

MRGTEM is now accepting submissions for a new section of the journal: Current Topics in Genotoxicity Testing, that will be dedicated to the discussion of current issues relating to design, interpretation and strategic use of genotoxicity tests. This section is envisaged to include discussions relating to the development of new international testing guidelines, but also to wider topics in the field. The evaluation of contrasting or opposing viewpoints is welcomed as long as the presentation is in accordance with the journal's aims, scope, and policies.


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Other Mutation Research sections:
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Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis (MR)
Mutation Research - Reviews (MRR)

AUDIENCE
Environmental Scientists, Occupational Health Researchers, Mutageneticists, Toxicologists

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Drug safety and metabolism

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DNA repair, genotoxic stress, transcriptional regulation of DNA repair genes

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Comet Assay, DNA damage and mutagenesis, nutrition and cancer, DNA repair in mammalian cells, human biomonitoring; molecular epidemiology

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Nanomaterial toxicology, molecular epidemiology, genetic toxicology

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Genetic toxicology, nanotoxicology, DNA damage mechanisms, biomarkers, molecular biology of prostate cancer

**Yuri E. Dubrova**, University of Leicester, Leicester, United Kingdom
Germline, Mutation, Radiation, Mutagens, Anticancer Drugs, Instability, Mouse

**Maria Dusinska**, Norwegian Institute for Air Research, Kjeller, Norway
Cytotoxicity, DNA damage, mutagenicity, cancer biomarkers

**David A. Eastmond**, University of California Riverside, Riverside, California, United States
Mechanisms of toxicity and carcinogenesis of agricultural and environmental chemicals in humans and other mammals

**Patricia Escobar**, Merck Research Laboratories West Point, Lansdale, Pennsylvania, United States
Genetic Toxicology, Bacterial mutagenicity, DNA damage, Chromosomal Damage, genetox screening assay, mutagenic impurities, pharmaceutical industry

**Christopher Farabaugh**, Charles River Skokie, Skokie, Illinois, United States
Genetic toxicology, in vitro toxicology, Ames, chromosome aberrations, in vitro micronucleus, in vivo micronucleus, comet, mouse lymphoma, environmental science, ornithology, chemistry

**Solange Garcia**, Federal University of Rio Grande do Sul, Porto Alegre, Brazil
Occupational and Environmental Toxicology; Nanotoxicology; Metals; Chemical agents

**Kyle Glover**, Haskell Global Centers for Health and Environmental Sciences, Wilmington, Delaware, United States
Gene Expression, immune response, nanotoxicology, DNA damage, toxicogenomics, carcinogens

**Shuichi Hamada**, LSI Medience Corporation Kashima Laboratory, Kamisu-shi, Ibaraki-ken, Japan
Carcinogen; DNA damage; drug administration, gastrointestinal tract

**Manoors Prakash Hande**, National University of Singapore, Singapore, Singapore
Telomeres and telomerase in ageing and cancer, DNA damage response and repair, toxicogenomics and environmental toxicology, radiation biology, biological response markers of exposure, experimental therapeutics

**Andreas Hartmann**, Novartis Pharma AG, Basel, Switzerland
Comet assay, Micronucleus test, Drug development, Non-clinical safety testing

**Jiliang He**, Zhejiang University School of Medicine Institute of Environmental Medicine, Hangzhou, China
Environmental health, environmental genetic toxicology, environmental sanitation supervision

**Cheryl Hobbs**, Integrated Laboratory Systems Inc, Research Triangle Park, North Carolina, United States
DNA damage, genotoxicity

**Yuko Ibuki**, University of Shizuoka, Shizuoka, Japan
Ultraviolet rays, Environmental chemicals, Epigenetics, Histone modifications, DNA damage, DNA repair

**Marina Isidori**, University of Campania Luigi Vanvitelli Department of Environmental Biological and Pharmaceutical Sciences and Technologies, Caserta, Italy
Acute and chronic aquatic toxicity; pharmaceuticals in the environment; environmental risk assessment; mutagenesis; genotoxicity; endocrine disruptors; cytotoxicity; food safety.

**Gareth Jenkins**, Swansea University, Swansea, United Kingdom
DNA mutation, cancer biomarkers, oesophageal cancer, safety assessment, genetic toxicology

**Awadheen N. Jha**, University of Plymouth, Plymouth, United Kingdom
Chemical and radiation mutagenesis, in vitro and molecular toxicology, nanotoxicology, environmental radioactivity, eco-genotoxicology, environmental monitoring, alternative methods in toxicology

**Bernd Kaina**, University of Mainz Institute of Toxicology, Mainz, Germany
DNA repair, apoptosis

**Olga Kovalchuk**, University of Lethbridge, Lethbridge, Alberta, Canada
Epigenetic regulation, genome stability, carcinogenesis, radiation-induced DNA damage, repair and recombination

**Carina Ladeira**, Lisbon Polytechnic Institute Lisbon School of Health Technology, Lisboa, Portugal
Human biomonitoring, genotoxicity, genetic toxicology, histopathology, environmental and occupational health

Yang Luan, Shanghai Jiao Tong University School of Medicine, Shanghai, China
DNA damage; germ cell apoptosis; mutagenicity

Mugimane Manjanatha, National Center for Toxicalogical Research, Jefferson, Arkansas, United States
Transgenic mutation assays, assessment of chemicals and drugs

Nan Mei, National Center for Toxicalogical Research, Jefferson, Arkansas, United States
Toxicity, genotoxicity, mutagenicity, DNA damage, oxidative stress, DNA adduct, gene expression, toxicogenomics, quantitative analysis, benchmark dose

Miroslav Mišík, Medical University of Vienna Institute of Cancer Research, Vienna, Austria
DNA damage, dietary mutagens, comet, micronuclei, metabolically competent cell lines, ecogenotoxicology, plant bioassays

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Occupational exposure, antineoplastic drugs, genotoxicity

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Screening of antimicrobial compounds

Asao Noda, Radiation Effects Research Foundation, Hiroshima, Japan
Genetic engineering, DNA repair

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Genetic toxicology, mechanisms of action of carcinogenic agents, electromagnetic fields & genomic damage, genomic damage through endogenous hormones

Takeji Takamura-Enya, Kanagawa Institute of Technology Faculty of Engineering Department of Applied Chemistry, Atsugi, Japan
fluorescence microscopy, water quality, boron, copper

Veronique Thybaud, Sanofi SA, Paris, France
Biomarkers, DNA damage & repair, cytotoxicity, genetic toxicology, mutagenesis, genotoxicity, Comet assay

Jan Topinka, Czech Academy of Sciences, Praha, Czech Republic
Toxic effects of engineered nanoparticles, combustion generated particles, molecular epidemiology

Yukari Totsuka, National Cancer Center Research Institute Cancer Development and Progression Group Division of Carcinogenesis and Prevention, Tokyo, Japan
Carcinogenesis

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Perumal Venkatachalam, Sri Ramachandra Institute of Higher Education and Research, Chennai, Tamil Nadu, India
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**Kristine Lynne Witt**, National Toxicology Program, Research Triangle Park, North Carolina, United States  
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**Lijun Wu**, Key Laboratory of Ion Beam Bioengineering, Hefei, China  
**Bojana Žegura**, National Institute of Biology, Ljubljana, Slovenia  
genotoxicity, mutagenicity, toxicogenomics, natural toxins, anti-mutagens, in vitro 3D cultures
GUIDE FOR AUTHORS

INTRODUCTION

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*Mutation Research - Genetic Toxicology and Environmental Mutagenesis* is now accepting submissions for a new section of the journal that will be dedicated to the discussion of current issues relating to design, interpretation and strategic use of genotoxicity tests (Current Topics in Genotoxicity Testing). This section is envisaged to include discussions relating to the development of new international testing guidelines, but also to wider topics in the field. The evaluation of contrasting or opposing viewpoints is welcomed as long as the presentation is in accordance with the journal’s aims, scope, and policies.

**Types of Paper**

*Mutation Research - Genetic Toxicology and Environmental Mutagenesis* publishes the following types of article: (I) Research papers- papers reporting results of original, fundamental research. (II) Short communications of up to 5 printed pages. (III) Rapids - are accelerated publications - research papers identified by the Editor as being of significant quality and thereby qualifying for rapid reviewing, and publication within 8-10 weeks of acceptance. (IV) Current issues are generally short, 1-2 page comments on a topical theme, and are published within 10 weeks of acceptance. (V) Volunteered and invited Mini-reviews of less than 10 printed pages, using references generally no later than 2 years old. The journal accepts Letters to the Editor.

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**Current Topics in Genotoxicity Testing**

*Mutation Research - Genetic Toxicology and Environmental Mutagenesis* is now accepting submissions for a new section of the journal that will be dedicated to the discussion of current issues relating to design, interpretation and strategic use of genotoxicity tests (Current Topics in Genotoxicity Testing). This section is envisaged to include discussions relating to the development of new international testing guidelines, but also to wider topics in the field. The evaluation of contrasting or opposing viewpoints is welcomed as long as the presentation is in accordance with the journal’s aims, scope, and policies.

Any submissions that report the results of studies on extracts or complex mixtures (e.g., solvent extracts of herbal preparations; soil, air, or water samples) will receive preliminary review by an Editor. Unless such manuscripts offer significant new insight, such as the chemical identification of previously unknown mutagens or anti-mutagens, they will be returned to the authors without being sent for further review. For further clarification of this journal policy please refer to the Editorial published in Mutation Research 391 (1997) 1.
It is the policy of the Editors to conduct a preliminary review of each submitted manuscript that reports the results of molecular epidemiology studies.

(i) As with any studies involving human subjects, approval by an appropriately constituted ethics review board and informed consent by participants are required.

(ii) Authors are advised to collaborate with qualified epidemiologists with respect to study design and interpretation.

(iii) In studies of the potential genotoxic effects of exposure to environmental agents, it is strongly recommended that quantitative evidence of exposure (such as analysis of personal monitoring devices or measurement of urinary biomarkers, for example) be obtained.

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Divide your article into clearly defined and numbered sections. Subsections should be numbered 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc. (the abstract is not included in section numbering). Use this numbering also for internal cross-referencing: do not just refer to 'the text'. Any subsection may be given a brief heading. Each heading should appear on its own separate line.

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Results should be clear and concise.
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