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., 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). Telomere biology as an endpoint for examination of the effects of chemicals and other environmental exposures. 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.


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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Mutagenesis, DNA Repair, Genotoxicology

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Carcinogenesis, Mutagenesis, DNA damage, Oxidative stress

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Genetic toxicology, DNA damage, DNA repair, mutagenesis, cell cycle checkpoints, high throughput screening, botanical dietary supplements

Helga Stopper, Julius Maximilians University Wurzburg, Department of Toxicology, Wurzburg, Germany
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Yukari Totsuka, National Cancer Center Research Institute Cancer Development and Progression Group Division of Carcinogenesis and Prevention, Tokyo, Japan
Carcinogenesis

Mahara Valverde, National Autonomous University of Mexico, Department of Medicine and Environmental Toxicology, Ciudad de México, Mexico
Transformativ effects of metals, DNA repair mechanisms, oxidative stress, Adipogenesis, Comet assay, DNA damage, DNA damage response (DDR), Carcinogenesis

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Comet assay, Genetic toxicology, DNA damage and repair, DNA reactivity, cytotoxicity, safety testing

Perumal Venkatachalam, Sri Ramachandra Institute of Higher Education and Research, Chennai, Tamil Nadu, India
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genotoxicity, mutagenicity, toxicogenomics, natural toxins, anti-mutagens, in vitro 3D cultures
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.

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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.

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