Special Issue

Current Knowledge on Bacterial Genotoxins and Their Effects on Host Cells

Message from the Guest Editor

Bacterial genotoxins, inducing damage to DNA, are found in different bacterial species. Bacterial genotoxin archetypes are the cytolethal distending toxins (CDTs), holotoxins expressed in many gram-negative bacteria, and colibactin, a secondary metabolite produced through a complex biosynthetic chain by *E. coli* and other *Enterobacteriaceae* species. However, few genotoxins are currently known, and general concerns regarding their mode-of-action and host-cell effects are growing. Indeed, due to their common characteristic of being able to damage DNA, genotoxins may lead to plethora of cell–host responses, from cell-cycle checkpoints to cell death, also including senescence, inflammation, etc. This Special Issue will focus on current knowledge regarding genotoxins. Particularly, their function in host cells and their implications in different pathologies will be emphasized in order to provide an overview and shed new light concerning these specific questions.

Guest Editor

Dr. Gladys Mirey
INRAE, UPS, 31300 Toulouse, France

Deadline for manuscript submissions

closed (20 March 2020)

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/26911

Toxins
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
toxins@mdpi.com

mdpi.com/journal/toxins

Toxins

an Open Access Journal by MDPI

Impact Factor 4.0
CiteScore 8.2
Indexed in PubMed

mdpi.com/journal/toxins

About the Journal

Message from the Editor-in-Chief

Toxinology is an incredibly diverse area of study, ranging from field surveys of environmental toxins to the study of toxin action at the molecular level. The editorial board and staff of *Toxins* are dedicated to providing a timely, peer-reviewed outlet for exciting, innovative primary research articles and concise, informative reviews from investigators in the myriad of disciplines contributing to our knowledge on toxins. We are committed to meeting the needs of the toxin research community by offering useful and timely reviews of all manuscripts submitted. Please consider *Toxins* when submitting your work for publication.

Editor-in-Chief

Prof. Dr. Jay Fox
Department of Microbiology, University of Virginia, Charlottesville, VA, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, AGRIS, and other databases.

Journal Rank:

JCR - Q1 (Toxicology) / CiteScore - Q1 (Toxicology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2025).

MDPI