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Current Knowledge on Bacterial Genotoxins and Their Effects on Host Cells

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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.

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Message from the Editor-in-Chief

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