



toxins



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Helicobacter pylori Toxins and Pathogenesis

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Message from the Guest Editor

Helicobacter pylori (Hp) is an important human pathogen that successfully colonizes the hostile stomach niche. This Gram-negative bacterium is mostly acquired during childhood before causing a lifelong infection that can generate pathologies ranging from chronic gastritis and peptic ulceration to gastric cancer. Several extragastric or extradigestive diseases have been also linked to Hp infection. Hp virulence factors causing direct cell damage that have been well characterized include the type IV secretion system (T4SS) encoded in the *cag* pathogenicity island (*cag* PAI) with its key multifunctional effector protein encoded by the cytotoxin-associated gene A (CagA), a vacuolating cytotoxin A (VacA), and an impressive set of ~60 outer membrane proteins (e.g., BabA, OipA, HopQ, AlpA, AlpB, etc.). The aim of this Special Issue is to provide an overview of the pathogenesis of Hp. Particular attention will be given to efforts directed toward depicting cellular pathways and finding putative new virulence factors or signaling cascades triggered by Hp.



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Special Issue



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Message from the Editor-in-Chief

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