



Molecular Mechanisms of *Helicobacter pylori* Pathogenesis and Host Factors

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Deadline for manuscript
submissions:

closed (31 December 2022)

Message from the Guest Editors

Dear Colleagues,

Helicobacter pylori is considered the most common etiologic agent worldwide in adults and children. It infects 50% of humankind and represents the most important risk factor for gastric malignancies. The evolution versus different gastric diseases is correlated with *H. pylori* features, including genomic plasticity, capacity for adaptation to individual host conditions, modulation of the reaction to the host immune system response, and presence and production of various virulence factors; and with host factors, for example, genetic background or physiological and immunological state, especially those that enhance or reduce the inflammatory response to the infection. In addition, environmental factors such as smoking, diet, high salt, and meat consumption could be implicated.

This Special Issue has the goal to focus on new clinical, epidemiological, and experimental evidence as well as possible mechanisms of *H. pylori* and host factors involved in gastric and other diseases. Finally, it will review the known clinical indications for *H. pylori* vaccination.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Environmental Research and Public
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