

Special Issue

Animal Infectious Diseases and Gut Microbiota

Message from the Guest Editors

This Special Issue aims to systematically dissect the critical role of the gut microbiome in the evolution of animal infectious diseases and the maintenance of health. We encourage original research spanning across biological scales—from macroscopic epidemiological dynamics and risk assessments at the population level to microscopic investigations of mucosal immune regulation, microbiota dysbiosis, and host–pathogen interplay. By fostering multidimensional integration, this collection expects to provide theoretical foundations for precise disease forecasting and provide insights into novel microbiome-directed interventions.

Research areas may include (but are not limited to) the following:

1. Epidemiological investigations, meta-analyses, and risk assessments of animal infectious diseases;
2. Mechanisms of gut microbiota dysbiosis induced by bacterial, viral, or parasitic infections;
3. Host–pathogen interactions and mucosal immune responses;
4. Screening, evaluation, and clinical application of host-specific probiotics;
5. Development of novel microbiome-directed therapeutics, including functional peptides and other ecological interventions.

Guest Editors

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Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Editor-in-Chief

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