

Special Issue

Evolutionary Dynamics of Bacteria in the Gut Microbiome Within and Across Hosts

Message from the Guest Editors

The gut microbiota plays a fundamental role in host physiology, immunity, and metabolism, both in humans and in animals. Recent advances in sequencing technologies and microbial ecology have revealed that these communities are not static but are shaped by complex evolutionary dynamics influenced by host-specific environments, selective pressures, and ecological interactions. We are pleased to invite you to contribute to this Special Issue, “Evolutionary Dynamics of Bacteria in the Gut Microbiome Within and Across Hosts”, which aims to bring together multidisciplinary research exploring the adaptation, co-evolution, and diversification of gut bacteria within and between host species. This Special Issue is within the scope of *Biology* and encourages submissions from the fields of microbiology, evolutionary biology, host–microbe interactions, veterinary and human medicine, ecology, and genomics. We welcome both original research articles and comprehensive review papers.

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Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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