

Special Issue

Ecology of Influenza A Viruses

Message from the Guest Editors

Wild aquatic birds act the major natural reservoir of the influenza A virus (IAV) gene pool from which novel IAVs can emerge to infect other avian and mammalian species. From an ecological aspect, IAVs are natural components of wetland ecosystems in which they occupy trophic niches represented by susceptible hosts while interacting with other biotic and environmental components. But ecosystem interactions underlie possible bidirectional viral flows between natural and anthropogenic habitats.

Natural avian reservoirs enable the perpetuation of low-pathogenic avian influenza viruses (LPAIVs) that, in poultry, can occasionally evolve into highly pathogenic (HP) strains, posing a risk for animal and public health. But the increasing potential involvement of wild birds in HP avian influenza caused by H5 subtype circulation and long-distance spread by migratory populations opens a new scenario.

Our aim is to provide a collection related to IAV ecology and evolutionary adaptation to natural reservoir and spillover hosts. Manuscripts covering all aspects of research relating to IAV–host–environment interactions are welcomed.

Guest Editors

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

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