

Special Issue

Molecular Insights into Zoology

Message from the Guest Editor

The study of animals, including their structure, physiology, classification, and ecological and evolutionary processes, has always interested researchers. The classical zoological approach can be improved by contemporary molecular biology tools that could provide important answers to classic problems. This integrated and transformative approach can be used not only for living species but also for extinct species, reconstructing the phylogeny and evolution at the genomic and molecular levels. The advent of omics sciences and other emerging technologies has totally altered the scientific research approach, first with transcriptomic and genomic analysis but also with metagenomic analysis from environmental samples. The most important challenges could be data integration, technical limitations due to protocol adaptation, and animal welfare restrictions. Moreover, it is possible to consider the integration with other disciplines as ecological dynamics that enhance our understanding of biodiversity, ecosystem health, and the adaptive responses of species to environmental changes.

Guest Editor

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