Special Issue

Large Animal Experimental and Epidemiological Models for Diseases

Message from the Guest Editors

Animal models play a crucial role in the study of both infectious and non-infectious diseases, enabling researchers to replicate disease processes and test interventions in a controlled environment. Large experimental animal models, such as dogs, pigs, sheep, and non-human primates, are increasingly used in biomedical research because they bridge the gap between small animal models and humans. They offer better anatomical and physiological similarities to humans, particularly for non-infectious diseases such as metabolic, reproductive, and neurodegenerative conditions. In public health and livestock management, large animal epidemiological models represent disease transmission dynamics among animals and humans. They help in evaluating control measures and predicting outcomes in infectious and zoonotic diseases, as well as antibiotic resistance. This Special Issue will showcase reviews and original research articles that provide up-to-date information and future perspectives on large animal experimental and epidemiological models of diseases, with possible topics including (but not limited to) prevention, pathobiology, diagnosis, prediction, treatment, outbreaks, and control.

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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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