

Special Issue

Application of Gene Editing Technology in Animal Husbandry

Message from the Guest Editor

We invite contributions that focus on the development and refinement of gene editing techniques themselves and their application in creating transgenic animal models. A key area of interest is the in-depth investigation of gene editing effects at the cellular and molecular levels. This includes studies on the mechanisms of DNA repair following edits, the subsequent epigenetic alterations such as DNA methylation changes, and the complex regulatory networks involving non-coding RNAs like circular RNAs and long non-coding RNAs. Furthermore, we encourage submissions that address critical safety aspects, including the comprehensive assessment of nanotoxicity in reproductive and fetal cells, the analysis of off-target effects using advanced sequencing methods, and the impact of edits on cellular processes like apoptosis, oxidative stress, and global patterns of gene expression. Studies exploring the use of somatic cell nuclear transfer for the propagation of edited genetics are also welcome.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

Animals is an on-line open access journal that was first published in 2011. *Animals* adheres to rigorous peerreview and editorial processes and publishes only high quality manuscripts that address important issues in the many varied disciplines that involve animals, with a focus on animal science, animal welfare and animal ethics. *Animals* is covered in the Science Citation Index Expanded (SCIE) in Web of Science, with the latest Impact Factor: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

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