

Special Issue

Gene Therapy on Ruminant Animals

Message from the Guest Editor

Genetic diseases in the context of gene therapy have been widely studied, and many of these indications have been successfully recapitulated in mice. However, murine homologues are limited as translational models because of their small size and decreased life span compared to humans, and also because the mutations induced by gene targeting do not always faithfully reflect the clinical manifestations of the corresponding diseases in humans. These limitations could be overcome by employing large animal models. This edition focuses on gene therapy of ruminants and will address issues around the use of genetic manipulation tools on ruminants, the context of this genetic manipulation, i.e. infectious diseases, monogenic diseases, and in utero gene therapy, the ethical concerns raised thereof, and finally the potential that ruminants hold as convincing and efficacious models in recapitulating corresponding human indications in a more faithful way compared to mouse models in terms of physiology, body and organ size, lifespan, and metabolism.

Guest Editor

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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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