



animals



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Recent Advances in Genetic Mechanism and Evolution of Sex Determination and Chromosomes

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Message from the Guest Editor

Dear Colleagues,

Sex determination is essential for sexual reproduction and it has evolved differently depending on the organism. Genetic and evolutionary mechanisms, such as the evolution and origin of sex chromosomes that genetically determine sex, turnover of sex chromosomes and mechanisms of environment-dependent sex determination, have recently been studied through the fusion of genomics, molecular biology and evolutionary genetics. Through this Special Issue, we would like to report recent progress on the genetic mechanisms of diverse sex determination factors and sex chromosomes, and their evolutionary mechanisms.

The issue focuses on recent advances in genetic mechanisms, and the evolutionary processes of sex chromosomes and sex determination in animals. The scope of the issue is broad, and topics on various animals, vertebrate and invertebrate will be accepted. This issue aims to help a diverse readership gain a comprehensive understanding of the latest knowledge on the evolution of sex determination, complementing integrated knowledge on the genetic mechanism of sex determination and its evolutionary mechanisms.



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Special Issue



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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: 3.0 (2022, ranks 12 /62 (Q1) in ‘Agriculture, Dairy & Animal Science’; 13/143 (Q1) in ‘Veterinary Sciences’), 5-Year Impact Factor: 3.2.

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