

Special Issue

Early Embryo Development in Livestock

Message from the Guest Editor

Although our understanding of the basic processes underlying gamete development, fertilization, and early embryogenesis has significantly improved in the last 60 years, the application of enormous advances in biotechnology encompassing various omic approaches (genomics, proteomics, metabolomics, lipidomics, epigenomics, etc.), computing (artificial intelligence/machine learning), imaging and cryopreservation will be important prerequisites for affecting advancement in reproductive technologies and thereby improving the reproductive efficiency of livestock. In addition, by using SCNT or cloning techniques, or generating genetically engineered livestock (transgenic/iPS cells) for the purposes of improving productivity, disease resistance and for mass production of pharmaceutically important proteins, will exponentially improve the efficiency of agriculture production, as well as profits for everyone involved in the livestock industry.

For this Special Issue, we will present state-of-the-art work in the area of early embryo development in livestock, assembling the most recent advances in this field in one place.

Guest Editor

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Message from the Editor-in-Chief

Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

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