

Special Issue

Molecular Mechanisms of Somatic Cell Cloning and Other Assisted Reproductive Technologies in Mammals

Message from the Guest Editors

In summary, this Special Issue provides the possibility to publish research articles, comprehensive reviews and short communications focused on exploring or recognizing an extensive range of biological, molecular, genetic and epigenetic determinants profoundly affecting the efficiencies of somatic cell cloning and other ARTs at the levels of nuclear donor cells (somatic and stem cells), male and female gametes (spermatozoa and oocytes) and in vitro- or in vivo-produced embryos. Thorough identification of the aforementioned determinants can contribute greatly to the amelioration, optimization and implementation of SCNT-, IVF-, and ICSI-mediated IVP approaches as well as a wide array of ARTs involving the procedures of in vivo embryo production. This is the predominant prerequisite for the enhancement of practically applying the above-indicated strategies as important, reliable and feasible ARTs for the purposes of experimental and applied embryology, biotechnology, ex situ biodiversity preservation, transgenics, biomedicine, biopharmacy and the creation of animal models for the etiopathogenesis and pathophysiology of human diseases.

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