

Special Issue

Genetic and Epigenetic Regulation of Reproduction

Message from the Guest Editors

Reproduction is fundamental to the continuity of life. Reproductive processes are regulated at both genetic and epigenetic levels. Numerous studies have contributed to our knowledge of the molecular mechanisms underlying the genetic and epigenetic aspects of both natural and assisted/controlled reproduction. The definition of epigenetics refers to heritable changes in gene function and, thus, phenotypes that are not caused by genetic changes. Unlike the genome, the epigenome is highly dynamic and is able to modulate genome function under the influence of exogenous factors. This Special Issue endeavors to underscore the pivotal roles played by genetic and epigenetic factors in processes such as gametogenesis, fertilization, and embryonic development, as well as the genetics of infertility. We invite original research as well as review manuscripts discussing gene expression regulation, DNA methylation, histone modifications, and non-coding RNA involvement in reproductive events. Join us in disseminating groundbreaking discoveries and fostering a comprehensive discourse on the latest advancements in reproductive biology.

Guest Editors

Dr. Dorota Juchno

Department of Zoology, Faculty of Biology and Biotechnology,
University of Warmia and Mazury in Olsztyn, 10-719 Olsztyn, Poland

Dr. Olga Jablonska

Department of Zoology, Faculty of Biology and Biotechnology,
University of Warmia and Mazury in Olsztyn, 10-719 Olsztyn, Poland

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. José L. Quiles
Department of Physiology, Institute of Nutrition and Food Technology
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Avda. Conocimiento s/n, 18100 Armilla, Granada, Spain

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