

Special Issue

Advances in Molecular Genetics in Domestic Animals

Message from the Guest Editors

The development of molecular genetics in recent decades has had a significant impact on the adaptation of animal production to a number of big challenges. There are needs for the sustainable production of animal food, increasing the quality of animal products, improving the welfare of domestic animals, automatization (robotization) of conventional production technologies, reducing the negative impact of animal production on the environment. The development of new methodological (analytical) methods of molecular genetics provides a powerful "tool" for numerous aspects of the adaptation and development of animal production. Advanced molecular genetics enables direct and complete understanding of phylogenetic processes within and between breeds, the improvement of selection efficiency, direct and indirect selection for preferred genotypes and traits, elimination (suppression) of certain genetic diseases, improvement of breeds fitness and resistance traits, and much more. This Special Issue focuses on the advances in molecular genetics in domestic animals, the development and application of new analytical and methodological approaches in the field and more.

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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