

Special Issue

The Neonate: Care and Immunity

Message from the Guest Editors

The neonates' metabolism differs markedly from adolescent and adults. The immune system develops in mammals at prenatal period and majority of neonates are able to respond against majority of environmental antigens at birth, however this response is weaker and easier to break comparing to adults. The passive transfer of maternal immunity happens in mammals via placenta or/and via colostrum. The intensity, quality of this process influence significantly the immune protection of the neonate at first weeks and months of life. During first weeks of life the significant changes associated with maturation of the gastrointestinal, as well as urinary tract happen. The process of maturation and development may be disturbed by factors affecting in the prenatal, perinatal and postnatal periods. Changes in the course of pregnancy, the course of parturition and interactions of neonates after birth with the environment factors influence the health, development, survival and longevity of animals. Comparing to human medicine there is a gap of knowledge in animals. This special issue will present the findings of some research groups involved in the neonatal problems of livestock animals.

Guest Editors

Prof. Tadeusz Stefaniak

Uniwersytet Przyrodniczy we Wrocławiu, Wrocław, Poland

Dr. Paulina Jawor

Uniwersytet Przyrodniczy we Wrocławiu, Wrocław, Poland

Prof. Dr. Anna Rząsa

Department of Immunology, Pathophysiology and Veterinary Preventive Medicine, Wrocław University of Environmental and Life Sciences, Norwida 31, 50-375 Wrocław, Poland

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Animals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
animals@mdpi.com

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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: 2.7 (2024, ranks 15/86 (Q1) in 'Agriculture, Dairy & Animal Science'; 21/170 (Q1) in 'Veterinary Sciences'), 5-Year Impact Factor: 3.2.

Editor-in-Chief

Prof. Dr. Clive J. C. Phillips

1. Institute of Veterinary Medicine and Animal Sciences, Estonian University of Life Sciences, Kreutzwaldi 1, 51014 Tartu, Estonia
2. Curtin University Sustainability Policy (CUSP) Institute, Kent St., Bentley 6102, Australia

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