Special Issue

Ticks and Tick-Borne Diseases in Animals

Message from the Guest Editors

It is very common that some of tick-borne pathogens are underestimated in the medicine of domestic or wild animals. The consequences of tick-borne pathogens are very varied given the differences between the type of microorganism, the competence or vectorial capacity of the tick species and the environment in which they develop. In fact, there are enormous differences in the tick–host–pathogen relationship depending on the ecosystem that allows or does not allow an adequate relationship between them, ensuring or not that the pathogen remains and survives in the tick and that the tick is capable of finding a host in a reasonable period of time to transmit it. The control of tick-borne pathogens is mainly based on the administration of acaricides, whose efficacy is decreasing due to the development of resistance to them. Other tools can be applied in tick control, such as host and ecosystem management, the study of new drugs, especially those based on natural products, vaccines, and many others. This Special Issue welcomes all these topics, including ecological studies which are the main step to design a reasonable tick and tick-borne diseases control strategy.

Guest Editors

Dr. Ángeles Sonia Olmeda
Department of Animal Health, Veterinary Faculty of UCM, Madrid, Spain

Dr. Félix Valcárcel
Department of Animal Reproduction, INIA-CSIC, Madrid, Spain

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

mdpi.com/journal/microorganisms

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"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

Editor-in-Chief

Dr. Nico Jehmlich
Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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