

Special Issue

Different Components of the Chemical Communication Mechanisms in Domestic Animals

Message from the Guest Editors

Chemical communication is of the utmost importance for domestic animals, being highly connected with several behavioral and physiological mechanisms and playing a crucial role in different aspects of their lives (social behavior, territory marking, ecological interactions). Chemical communication systems are all based on these key components: a transmitter of the message, a volatile chemosignal, and a receiver producing a biological response. The multidisciplinary evolution of science and the simplification and development of analytical chemistry techniques allow opening research paths toward deciphering the chemical code. This Special Issue aims to focus on all the chemical communication components underlying domestic animal interactions, from the secretion to the perception and integration of the chemical signals, including their identification and the description of their functioning and mechanisms of action from peripheral to central nervous regions. Innovative research approaches (e.g. functional genomics and proteomics, reverse chemical ecology) and interdisciplinary studies on these topics (e.g., in vivo, in vitro, and in silico methods) are particularly welcomed.

Guest Editors

Dr. Cécile Bienboire-Frosini

Department of Molecular Biology and Chemical Communication, IRSEA, 84400 Apt, France

Dr. Rajesh Durairaj

Department of Molecular Biology and Chemical Communication, IRSEA, 84400 Apt, France

Deadline for manuscript submissions

closed (31 July 2023)



Veterinary Sciences

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.5
Indexed in PubMed



mdpi.com/si/118130

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

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About the Journal

Message from the Editor-in-Chief

Veterinary Sciences (ISSN 2306-7381) is an international and interdisciplinary scholarly open access journal that aims at publishing research in all fields of veterinary medicine in a democratic way. We encourage scientists to publish their original research articles, reviews, communications, and short notes in as much detail as possible. Articles submitted that involve subjecting animals to unnecessary pain or suffering will not be accepted, and all articles must be submitted with the necessary ethical approval (please refer to the Ethical Guidelines for more information).

Editor-in-Chief

Prof. Dr. Patrick Butaye

1. Department of Pathobiology, Pharmacology and Zoological Medicine, Faculty of Veterinary Medicine, Ghent University, Salisburylaan 133, B9820 Merelbeke, Belgium

2. Department of Infectious Diseases and Public Health, Jockey Club College of Veterinary Medicine and Life Sciences, City University of Hong Kong, 31 To Yuen Street, Kowloon, Hong Kong SAR 999077, China

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