From the Nose to the Brain: Animals' Olfactory and Vomeronasal Systems

Guest Editor:

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Message from the Guest Editor

The award of the Nobel Prize in 2004 to Richard Axel and Linda Buck marked a huge advance in the knowledge of the sense of smell. As a consequence, the last 15 years have witnessed an exponential progression in the number of studies about the olfactory and vomeronasal systems, which have forced a reformulation of prevalent ideas and hypotheses about both the processing of the olfactory signals and the chemocommunication mediated by the vomeronasal system.

However, we are far from resolving such basic questions as the morphological and functional diversity of the olfactory subsystems, the molecular and biophysical natures of olfactory sensory transduction and, the still unresolved, anatomical and physiological basis of the vomeronasal system.

With the advent of the COVID-19 pandemic, one of the cardinal symptoms of which is the loss of smell, to elucidate the cellular and molecular mechanisms of the coronavirus-induced anosmia may be instrumental in understanding the infectivity of SARS-CoV-2.

We welcome experts in the fields to participate in this Special Issue, by means of papers dealing with the anatomy, physiology, pathology, and molecular biology of the olfactory subsystems.

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Special Issue

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Message from the Editor-in-Chief

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