

# Neurobiology of Chemical Communication (Frontiers in Neuroscience)

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**Neurobiology of Chemical Communication (Frontiers in Neuroscience)** From CRC Press


Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism, ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds.

In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. **Neurobiology of Chemical Communication** explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans.

The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, *Drosophila*, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones.

An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.

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## **Editorial Review**

### About the Author

**Carla Mucignat-Caretta, PhD**, is associate professor of physiology at the Department of Molecular Medicine, Medical School, University of Padova in Italy. She earned a PhD in neuroscience at the University of Parma, Italy, working on the role of major urinary proteins as pheromones in mice. She next moved to the University of Padova as a researcher and eventually associate professor. Her research focus is on the intraspecific chemical communication in mice, from chemical identification of the stimuli to the behavioral and neurohormonal effects induced in the recipient mice, and to the modifications in the brain circuits implied in deciphering chemical signals throughout the lifespan.

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