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Olfaction represents an ideal model system for the study of mammalian habituation given that it is an anatomically relatively simple system with strong reciprocal connections to the limbic system, driving both reflexive and non-reflexive (motivated) behaviors that are easily quantifiable.

OLFACTION AS A MODEL SYSTEM FOR THE NEUROBIOLOGY OF ...

Many types of computational models exist, and based on their primary purpose, models of the insect olfactory system may be divided into three categories: (a) feature-replication models, which try to reproduce an experimentally observed result to help understand the underlying mechanisms; (b) feature-prediction models, which extrapolate from what has been observed to predict unexplored aspects of neural circuits that can be tested later by experiments; and (c) role-detection models, which ...

Insect Olfaction: A Model System for Neural Circuit ...

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The olfactory system can be divided into two main components: (1) the main olfactory system which consists of the main olfactory epithelium in the nasal cavity where transduction of volatile odors occurs, and the main olfactory bulb and its connections with other parts of the brain; and (2) the accessory olfactory system comprised of the vomeronasal organ where transduction of non-volatile pheromones occurs, and the accessory olfactory bulb and its connections with other brain areas.

Olfactory System - an overview | ScienceDirect Topics

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Olfaction: A Model System for Computational Neuroscience ...

Updated December 03, 2019 The olfactory system is responsible for our sense of smell. This sense, also known as olfaction, is one of our five main senses and involves the

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Detailed Bold detection and identification of molecules in the air. Once detected by sensory organs, nerve signals are sent to the brain where the signals are processed.

Olfactory System - Sense of Smell - ThoughtCo
Olfaction - A Model System for Computational Neuroscience: Davis, Joel L.: Amazon.com.au: Books

Olfaction - A Model System for Computational Neuroscience ...

Olfaction turned into a modern model system because it promises better understanding of ligand binding in GPCRs. Through advances in genetics. Because its ligand binding mechanism was demonstrated to work different from other GPCRs

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The sense of olfaction is complex. Odor perception is influenced by many factors unique to each individual as well as external environmental factors. The basis of odor perception is the contact between chemical

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molecules, mainly in the gaseous state, which can be detected by the olfactory epithelium.

From : Pour la science # 218

What is the process of olfaction - odor perception

interest in olfaction as a model system in neurobiology. Focus lies on the olfactory receptors (ORs) and their identification as G-protein-coupled receptors (GPCRs), which constitute the largest protein family in the mammalian genome. GPCRs regulate fundamental physiological processes, and they are one of the main targets of drug design studies. In

Review What is so special about smell?

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Olfaction - structure and function | Processing the ...

The insect olfactory system has emerged as a prominent model in neuroscience.

Investigation of its organization and function has revealed surprising answers to fundamental questions of how an animal detects, encodes, and processes sensory stimuli.

Insect olfaction from model systems to disease control | PNAS

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