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## **Olfaction In Vector Host Interactions**

Ecology and control of vector-borne diseases. This is a multi-authored book with a focus on the role of olfaction (the sense of smell) in the multitude of interactions between arthropods and their blood hosts. Blood-feeding arthropods (mostly insects, ticks

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and mites) depend on a vertebrate host for survival and reproduction.

## **Olfaction in vector-host interactions | Ecology and ...**

Olfaction in Vector-Host Interactions. January 2010; DOI: 10.3920/978-90-8686-698-4. Authors: ... To understand the vector-host interactions that can lead to an increased Plasmodium transmission ...

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Olfaction in Vector-host Interactions. Wageningen, Netherlands:Wageningen Academic Press. p. 327-348.  
Interpretive Summary: Ticks impact the health of livestock and humans world-wide through their roles as pests and vectors of diseases such as heartwater, theileriosis, anaplasmosis, babesiosis, Lyme disease, ehrlichiosis, tick-borne encephalitis and Crimean Congo Haemorrhagic fever.

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## **Publication : USDA ARS**

Olfaction in vector-host interactions. Ed. by Willem Takken and Bart G. J. Knols. Wageningen Academic Publishers 2010 437 pages \$131.00 Hardcover Ecology and control of vector-borne diseases; v.2 RA639 Biological and medical scientists address olfaction-mediated behavior relating to how blood-feeding arthropods interact with their vertebrate ...

## **Olfaction in vector-host interactions. - Free Online Library**

Aedes vector-host olfactory interactions in sylvatic and domestic dengue transmission environments Abstract Interactions between Aedes ( Stegomyia ) species and non-human primate (NHP) and human hosts govern the transmission of the pathogens, dengue, zika, yellow fever and chikungunya viruses.

## **Aedes vector-host olfactory interactions in sylvatic and**

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Book: Olfaction in vector-host interactions August 5, 2010 - 19:49 -- Bart G.J. Knols This is a book authored by 37 experts in this field with a focus on the role of olfaction (the sense of smell) in the multitude of interactions between arthropods and their blood hosts.

**Book: Olfaction in vector-host interactions | MalariaWorld**  
Olfaction in vector-host interactions . By W. Takken and B.G.J. Knols. Abstract. This book addresses the topic how blood-feeding arthropods interact with their vertebrate hosts. As the transmission of infectious vector-borne pathogens is much dependent on the contact between vector and host, the efficacy of host location is of profound ...

## **Olfaction in vector-host interactions - CORE**

Considerable progress has been made in the field of olfaction

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with respect to mosquito-host interactions. The recent publication of the *An. gambiae* genome ( Holt et al., 2002 ) as well as ongoing sequencing projects of other important mosquito vectors offers new opportunities to advance our knowledge on mosquito olfaction by the ...

## **Olfactory regulation of mosquito-host interactions ...**

Vector-host interactions are largely dependent on the ability of vectors to present effective responses to olfactory, visual, mechanical, acoustic, hygric, and thermal host cues [1,2,3 •,4]. Although they can be detected in an isolated way, it is the spatial and temporal combination of these cues that provide vectors the most robust evidence of the presence and location of a potential host [ 5 , 6 , 7 ].

## **Mechanism and plasticity of vectors' host-seeking behavior ...**

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Olfaction in vector-host interactions 145 7. Host-seeking behaviour of mosquitoes: responses to olfactory stimuli in the laboratory synthetic odour blends that have been tested for their possible effect on the behaviour of host-seeking mosquitoes. We also briefly describe methods and bioassays deployed to identify candidate semiochemicals.

## **7. Host-seeking behaviour of mosquitoes: responses to ...**

Olfaction in mosquito-host interactions / [editors, Gregory R. Bock (organizer) and Gail Cardew]. Symposium on Olfaction in MosquitwHost Interactions, held at the Ciba Foundation, London, 31 Oct.-2 Nov. 1995. ... mechanisms of olfaction in host-seeking behaviour of vector mosquitoes; (b)

## **OLFACTION IN MOSQUITO-HOST INTERACTIONS**

Ultimately, these efforts may lead to the design of novel methods of disrupting vector-host interactions and thereby

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reduce the vectorial capacity of these insects. Olfactory signal transduction is widely conserved across a broad spectrum of organisms, including mammals, fish, crustaceans, nematodes, and insects (reviewed in ref. 1). The olfactory signaling cascade is initiated by seven-transmembrane-domain G-protein-coupled receptors (GPCRs) that either directly or indirectly bind ...

## **Candidate odorant receptors from the malaria vector ...**

This new work contains the first integrated discussion of the role of olfaction in mosquito-host interactions. It covers the practical applications of this knowledge in attempting to control malaria as a problem for world health.

## **Ciba Foundation Symposium 200 - Olfaction in Mosquito-Host ...**

book olfaction in vector host interactions w takken b g j knols published in 2010 in wageningen by wageningen academic press



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## **Olfaction In Vector Host Interactions Ecology And Control**

...

1-Octen-3-ol (octenol) is a common attractant released by vertebrates which in combination with carbon dioxide (CO<sub>2</sub>) attracts hematophagous arthropods including mosquitoes. A receptor neuron contained within basiconic sensilla on the maxillary palps of adult mosquitoes responds selectively to 1-octen-3-ol.

## **Functional Characterization of the Octenol Receptor Neuron ...**

in: Takken W. Knols B.G.J. Olfaction in Vector-Host Interactions. Wageningen Academic Publishers , 2010 : 143-180 View in

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## **Sweaty skin: an invitation to bite?: Trends in Parasitology**

In this context, we are examining the molecular events of olfaction as this sense predominates the overall host preference and other essential behaviors in mosquitoes and other insects. This aspect of the mosquito's behavior is especially important as it makes a significant contribution to the vectorial capacity of this arthropod vector, as ...

## **Mosquitoes are Vectors for Many Pathogens with ...**

REVIEW Transmission mechanisms shape pathogen effects on host-vector interactions: evidence from plant viruses Kerry Mauck<sup>1</sup>, Nilsa A. Bosque-Pérez<sup>2</sup>, Sanford D. Eigenbrode<sup>2</sup>, Consuelo M. De Moraes<sup>1</sup> and Mark C. Mescher\*,<sup>1</sup> <sup>1</sup>Department of Entomology, The Pennsylvania State University, University Park, Pennsylvania, 16802 USA; and <sup>2</sup>Department of Plant, Soil

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and Entomological Sciences, University ...

## **REVIEW Transmission mechanisms shape pathogen effects on ...**

Cardé RT, Gibson G. Host finding by female mosquitoes: mechanisms of orientation to host odours and other cues. In: Takken W, Knols BGJ, editors. Ecology of Vector-Borne Diseases, V. 2, Olfaction in Vector-Host Interactions. Wageningen Academic Publishers; Wageningen, The Netherlands: 2010. pp. 115-141.

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