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Titolo	Olfaction in mosquito-host interactions [[electronic resource] /] / [editors, Gregory R. Bock (organizer) and Gail Cardew]
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Altri autori (Persone)	BockGregory CardewGail
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Note generali	"Symposium on Olfaction in Mosquito-Host Interactions, held in collaboration with the World Health Organization at the Ciba Foundation, London, 31 Oct.-2 Nov. 1995"--Contents.
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Nota di contenuto	OLFACTION IN MOSQUITO-HOST INTERACTIONS; Contents; Participants; Preface; Chairman's introduction; Introduction I: an overview of mosquito biology, behaviour and importance; Vector insects and their control; Genetics, ecology and behaviour of anophelines; General discussion I; Introduction II: olfactory control of mosquito behaviour; Odour plumes and odour-mediated flight in insects; Olfactory basis of host location by mosquitoes and other haematophagous Diptera; Selection of biting sites by mosquitoes; General discussion II The role of mosquito olfaction in oviposition site location and in the avoidance of unsuitable hostsIntroduction Ill: odours for host-finding mosquitoes; A search for components in human body odour that attract females of Aedes aegypti; Introduction IV: coding mechanisms in insect olfaction; Structure and function of insect of insect olfactory sensilla; General discussion Ill; Central olfactory pathways in mosquitoes and

	other insects; Sensory aspects of host location in mosquitoes; Endogenous factors regulating mosquito host-seeking behaviour; General discussion IV ElectrophysioIogicaI responses from receptor neurons in mosquito maxillary palp sensillaResponses of antennal olfactory receptors in the yellow fever mosquito Aedes aegypti to human body odours; The multiple role of the pheromone- binding protein in olfactory transduction; General discussion V; Genetic and molecular studies of olfaction in Drosophila; Synthesis and future challenges: the response of mosquitoes to host odours; Index of contributors; Subject index
Sommario/riassunto	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. The volume begins with a general overview of mosquito life cycle styles and how odour-mediated host location fits into the repertoire of behaviours that a specific species may exhibit. Certain aspects of insect olfaction and its underlying physiological mechanisms are incorporated within the book.