

Rickard Ignell

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102
papers

3,678
citations

32
h-index

58
g-index

110
ext. papers

4,502
ext. citations

5
avg, IF

5.4
L-index

#	Paper	IF	Citations
102	Sequencing of <i>Culex quinquefasciatus</i> establishes a platform for mosquito comparative genomics. <i>Science</i> , 2010 , 330, 86-8	33.3	352
101	Evolution of mosquito preference for humans linked to an odorant receptor. <i>Nature</i> , 2014 , 515, 222-7	50.4	260
100	Chemosensory coding by neurons in the coeloconic sensilla of the <i>Drosophila</i> antenna. <i>Journal of Neuroscience</i> , 2005 , 25, 8359-67	6.6	220
99	Presynaptic peptidergic modulation of olfactory receptor neurons in <i>Drosophila</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 13070-5	11.5	136
98	Ionotropic Chemosensory Receptors Mediate the Taste and Smell of Polyamines. <i>PLoS Biology</i> , 2016 , 14, e1002454	9.7	131
97	Putative chemosensory receptors of the codling moth, <i>Cydia pomonella</i> , identified by antennal transcriptome analysis. <i>PLoS ONE</i> , 2012 , 7, e31620	3.7	130
96	Neuronal architecture of the mosquito deutocerebrum. <i>Journal of Comparative Neurology</i> , 2005 , 493, 207-40	3.4	114
95	Targeted mutation of a <i>Drosophila</i> odor receptor defines receptor requirement in a novel class of sensillum. <i>Journal of Neuroscience</i> , 2003 , 23, 9906-12	6.6	113
94	Floral to green: mating switches moth olfactory coding and preference. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 2314-22	4.4	111
93	Behavioral insensitivity to DEET in <i>Aedes aegypti</i> is a genetically determined trait residing in changes in sensillum function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 8575-80	11.5	92
92	Responses to sex pheromone and plant odours by olfactory receptor neurons housed in sensilla auricillica of the codling moth, <i>Cydia pomonella</i> (Lepidoptera: Tortricidae). <i>Journal of Insect Physiology</i> , 2005 , 51, 1066-74	2.4	81
91	Functional classification and central nervous projections of olfactory receptor neurons housed in antennal trichoid sensilla of female yellow fever mosquitoes, <i>Aedes aegypti</i> . <i>European Journal of Neuroscience</i> , 2007 , 26, 1611-23	3.5	74
90	The antennal lobe of orthoptera - anatomy and evolution. <i>Brain, Behavior and Evolution</i> , 2001 , 57, 1-17	1.5	69
89	Characterization of antennal trichoid sensilla from female southern house mosquito, <i>Culex quinquefasciatus</i> Say. <i>Chemical Senses</i> , 2009 , 34, 231-52	4.8	68
88	A key malaria metabolite modulates vector blood seeking, feeding, and susceptibility to infection. <i>Science</i> , 2017 , 355, 1076-1080	33.3	59
87	Structure and morphology of wheat gluten films: from polymeric protein aggregates toward superstructure arrangements. <i>Biomacromolecules</i> , 2011 , 12, 1438-48	6.9	58
86	Natural odor ligands for olfactory receptor neurons of the female mosquito <i>Aedes aegypti</i> : use of gas chromatography-linked single sensillum recordings. <i>Journal of Experimental Biology</i> , 2008 , 211, 3020-37		58

85	Coding and interaction of sex pheromone and plant volatile signals in the antennal lobe of the codling moth <i>Cydia pomonella</i> . <i>Journal of Experimental Biology</i> , 2010 , 213, 4291-303	3	56
84	Spatial organization of antennal olfactory sensory neurons in the female <i>Spodoptera littoralis</i> moth: differences in sensitivity and temporal characteristics. <i>Chemical Senses</i> , 2012 , 37, 613-29	4.8	50
83	Neural coding merges sex and habitat chemosensory signals in an insect herbivore. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130267	4.4	48
82	Love makes smell blind: mating suppresses pheromone attraction in <i>Drosophila</i> females via Or65a olfactory neurons. <i>Scientific Reports</i> , 2014 , 4, 7119	4.9	47
81	A herbivore-induced plant volatile interferes with host plant and mate location in moths through suppression of olfactory signalling pathways. <i>BMC Biology</i> , 2015 , 13, 75	7.3	47
80	Smelling your way to food: can bed bugs use our odour?. <i>Journal of Experimental Biology</i> , 2012 , 215, 623-9	3	46
79	Characterization of the antennal olfactory system of the bed bug (<i>Cimex lectularius</i>). <i>Chemical Senses</i> , 2010 , 35, 195-204	4.8	43
78	Molecular identification of bloodmeals and species composition in <i>Culicoides</i> biting midges. <i>Medical and Veterinary Entomology</i> , 2013 , 27, 104-12	2.4	42
77	Rice volatiles lure gravid malaria mosquitoes, <i>Anopheles arabiensis</i> . <i>Scientific Reports</i> , 2016 , 6, 37930	4.9	42
76	Influence of blood meal on the responsiveness of olfactory receptor neurons in antennal sensilla trichodea of the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Journal of Insect Physiology</i> , 2010 , 56, 659-65	2.4	40
75	Neuropeptides in the antennal lobe of the yellow fever mosquito, <i>Aedes aegypti</i> . <i>Journal of Comparative Neurology</i> , 2014 , 522, 592-608	3.4	37
74	Immunocytochemical localization of serotonin in the central and peripheral chemosensory system of mosquitoes. <i>Arthropod Structure and Development</i> , 2008 , 37, 248-59	1.8	37
73	Organization of Kenyon cells in subdivisions of the mushroom bodies of a lepidopteran insect. <i>Journal of Comparative Neurology</i> , 2005 , 491, 290-304	3.4	35
72	Monoamines and neuropeptides in antennal lobe interneurons of the desert locust, <i>Schistocerca gregana</i> : an immunocytochemical study. <i>Cell and Tissue Research</i> , 2001 , 306, 143-56	4.2	35
71	Plant-Mediated Effects on Mosquito Capacity to Transmit Human Malaria. <i>PLoS Pathogens</i> , 2016 , 12, e1005773	7.6	32
70	Developmental changes in the structure and function of the central olfactory system in gregarious and solitary desert locusts. <i>Microscopy Research and Technique</i> , 2002 , 56, 281-91	2.8	31
69	Functional development of carbon dioxide detection in the maxillary palp of <i>Anopheles gambiae</i> . <i>Journal of Experimental Biology</i> , 2015 , 218, 2482-8	3	30
68	Assessment of diet choice by the yellow fever mosquito <i>Aedes aegypti</i> . <i>Physiological Entomology</i> , 2010 , 35, 274-286	1.9	30

67	Sex and age modulate antennal chemosensory-related genes linked to the onset of host seeking in the yellow-fever mosquito, <i>Aedes aegypti</i> . <i>Scientific Reports</i> , 2019 , 9, 43	4.9	29
66	Chicken volatiles repel host-seeking malaria mosquitoes. <i>Malaria Journal</i> , 2016 , 15, 354	3.6	29
65	A(maize)ing attraction: gravid <i>Anopheles arabiensis</i> are attracted and oviposit in response to maize pollen odours. <i>Malaria Journal</i> , 2017 , 16, 39	3.6	29
64	Enantiomeric selectivity in behavioural and electrophysiological responses of <i>Aedes aegypti</i> and <i>Culex quinquefasciatus</i> mosquitoes. <i>Bulletin of Entomological Research</i> , 2011 , 101, 541-50	1.7	29
63	Projection patterns of gustatory neurons in the suboesophageal ganglion and tritocerebrum of mosquitoes. <i>Journal of Comparative Neurology</i> , 2005 , 492, 214-33	3.4	29
62	Multiband modulation spectroscopy for the determination of sex and species of mosquitoes in flight. <i>Journal of Biophotonics</i> , 2018 , 11, e201800014	3.1	28
61	Concurrent modulation of neuronal and behavioural olfactory responses to sex and host plant cues in a male moth. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015 , 282, 20141884	4.4	28
60	Detection and perception of generic host volatiles by mosquitoes modulate host preference: context dependence of (-)-1-octen-3-ol. <i>Royal Society Open Science</i> , 2016 , 3, 160467	3.3	28
59	Impact of elevated CO ₂ background levels on the host-seeking behaviour of <i>Aedes aegypti</i> . <i>Journal of Experimental Biology</i> , 2014 , 217, 598-604	3	25
58	Age-dependent regulation of host seeking in <i>Anopheles coluzzii</i> . <i>Scientific Reports</i> , 2019 , 9, 9699	4.9	24
57	Non-canonical odor coding ensures unbreakable mosquito attraction to humans		24
56	Blood meal induced regulation of the chemosensory gene repertoire in the southern house mosquito. <i>BMC Genomics</i> , 2017 , 18, 393	4.5	23
55	Juvenile-hormone-mediated plasticity of aggregation behaviour and olfactory processing in adult desert locusts. <i>Journal of Experimental Biology</i> , 2001 , 204, 249-59	3	23
54	Sweet attraction: sugarcane pollen-associated volatiles attract gravid <i>Anopheles arabiensis</i> . <i>Malaria Journal</i> , 2018 , 17, 90	3.6	22
53	Feeding-induced changes in allatostatin-A and short neuropeptide F in the antennal lobes affect odor-mediated host seeking in the yellow fever mosquito, <i>Aedes aegypti</i> . <i>PLoS ONE</i> , 2017 , 12, e0188243 ^{3.7}		22
52	The role of grass volatiles on oviposition site selection by <i>Anopheles arabiensis</i> and <i>Anopheles coluzzii</i> . <i>Malaria Journal</i> , 2017 , 16, 65	3.6	21
51	Evaluation of reference genes for insect olfaction studies. <i>Parasites and Vectors</i> , 2015 , 8, 243	4	20
50	Fresh, dried or smoked? Repellent properties of volatiles emitted from ethnomedicinal plant leaves against malaria and yellow fever vectors in Ethiopia. <i>Malaria Journal</i> , 2011 , 10, 375	3.6	20

49	Combining Attractants and Larvicides in Biodegradable Matrices for Sustainable Mosquito Vector Control. <i>PLoS Neglected Tropical Diseases</i> , 2016 , 10, e0005043	4.8	19
48	Molecular basis for odorant receptor tuning: a short C-terminal sequence is necessary and sufficient for selectivity of mosquito Or8. <i>Insect Molecular Biology</i> , 2015 , 24, 491-501	3.4	18
47	Detection and perception of generic host volatiles by mosquitoes: responses to CO constrains host-seeking behaviour. <i>Royal Society Open Science</i> , 2017 , 4, 170189	3.3	17
46	Comparative study of antennal and maxillary palp olfactory sensilla of female biting midges (Diptera: Ceratopogonidae: Culicoides) in the context of host preference and phylogeny. <i>Journal of Medical Entomology</i> , 2013 , 50, 485-92	2.2	17
45	The role of visual and olfactory plant cues in aphid behaviour and the development of non-persistent virus management strategies. <i>Arthropod-Plant Interactions</i> , 2017 , 11, 1-13	2.2	15
44	Identification of Cattle-Derived Volatiles that Modulate the Behavioral Response of the Biting Midge <i>Culicoides nubeculosus</i> . <i>Journal of Chemical Ecology</i> , 2016 , 42, 24-32	2.7	15
43	Olfactory responses of <i>Rhopalosiphum padi</i> to three maize, potato, and wheat cultivars and the selection of prospective crop border plants. <i>Entomologia Experimentalis Et Applicata</i> , 2015 , 157, 241-253 ^{2.1}		15
42	Identification of plant semiochemicals and characterization of new olfactory sensory neuron types in a polyphagous pest moth, <i>Spodoptera littoralis</i> . <i>Chemical Senses</i> , 2014 , 39, 719-33	4.8	15
41	Local peptidergic signaling in the antennal lobe shapes olfactory behavior. <i>Fly</i> , 2010 , 4, 167-71	1.3	15
40	Integration of behaviourally relevant odours at the central nervous level in solitary and gregarious third instar locusts, <i>Schistocerca gregaria</i> . <i>Journal of Insect Physiology</i> , 1999 , 45, 993-1000	2.4	14
39	Morphology and distribution of ovipositor sensilla of female cotton leaf worm <i>Spodoptera littoralis</i> (Lepidoptera: Noctuidae), and evidence for gustatory function. <i>Entomological Science</i> , 2016 , 19, 9-19	1.1	11
38	Mosquito feeding affects larval behaviour and development in a moth. <i>PLoS ONE</i> , 2011 , 6, e25658	3.7	11
37	Dengue infection modulates locomotion and host seeking in <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020 , 14, e0008531	4.8	11
36	Evaluation of Host-Derived Volatiles for Trapping <i>Culicoides</i> Biting Midges (Diptera: Ceratopogonidae). <i>Journal of Chemical Ecology</i> , 2017 , 43, 662-669	2.7	10
35	Central nervous processing of behaviourally relevant odours in solitary and gregarious fifth instar locusts, <i>Schistocerca gregaria</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1998 , 183, 453-465	2.3	10
34	Functional characterization of mosquito short neuropeptide F receptors. <i>Peptides</i> , 2018 , 103, 31-39	3.8	9
33	Grass Pollen Affects Survival and Development of Larval <i>Anopheles arabiensis</i> (Diptera: Culicidae). <i>Journal of Insect Science</i> , 2017 , 17,	2	9
32	Behavioural response of the house mosquitoes <i>Culex quinquefasciatus</i> and <i>Culex pipiens molestus</i> to avian odours and its reliance on carbon dioxide. <i>Medical and Veterinary Entomology</i> , 2020 , 34, 129-137 ^{2.4}		9

31	Blood Meal Induced Regulation of Gene Expression in the Maxillary Palps, a Chemosensory Organ of the Mosquito <i>Aedes aegypti</i> . <i>Frontiers in Ecology and Evolution</i> , 2019 , 7,	3.7	8
30	Trapping biases of <i>Culex torrentium</i> and <i>Culex pipiens</i> revealed by comparison of captures in CDC traps, ovitraps, and gravid traps. <i>Journal of Vector Ecology</i> , 2015 , 40, 158-63	1.5	8
29	Extruded High Quality Materials from Wheat Gluten. <i>Polymers From Renewable Resources</i> , 2010 , 1, 173-184	1.6	8
28	Shady business: understanding the spatial ecology of exophilic <i>Anopheles</i> mosquitoes. <i>Malaria Journal</i> , 2018 , 17, 351	3.6	8
27	Malaria mosquito chemical ecology. <i>Current Opinion in Insect Science</i> , 2020 , 40, 6-10	5.1	7
26	Visual Cues and Host-Plant Preference of the Bird Cherry-Oat Aphid, <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae). <i>African Entomology</i> , 2014 , 22, 428-436	0.5	7
25	Hold your breath - Differential behavioral and sensory acuity of mosquitoes to acetone and carbon dioxide. <i>PLoS ONE</i> , 2019 , 14, e0226815	3.7	7
24	Regulation of the antennal transcriptome of the dengue vector, <i>Aedes aegypti</i> , during the first gonotrophic cycle. <i>BMC Genomics</i> , 2021 , 22, 71	4.5	7
23	First Polarimetric Investigation of Malaria Mosquitoes as Lidar Targets. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019 , 25, 1-8	3.8	6
22	Real-time dispersal of malaria vectors in rural Africa monitored with lidar. <i>PLoS ONE</i> , 2021 , 16, e0247803	3.7	6
21	The importance of accounting for larval detectability in mosquito habitat-association studies. <i>Malaria Journal</i> , 2016 , 15, 253	3.6	5
20	Modulation of odour-guided behaviour in mosquitoes. <i>Cell and Tissue Research</i> , 2021 , 383, 195-206	4.2	5
19	Mosquito brains encode unique features of human odour to drive host seeking.. <i>Nature</i> , 2022 ,	50.4	5
18	Landing Preference and Reproduction of <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae) in the Laboratory on Three Maize, Potato, and Wheat Cultivars. <i>Journal of Insect Science</i> , 2015 , 15,	2	4
17	Comparative morphological and transcriptomic analyses reveal chemosensory genes in the poultry red mite, <i>Dermanyssus gallinae</i> . <i>Scientific Reports</i> , 2020 , 10, 17923	4.9	4
16	Functional characterization of the dual allatostatin-A receptors in mosquitoes. <i>Peptides</i> , 2018 , 99, 44-55	3.8	4
15	Functional Characterization of the Gustatory Sensilla of Tarsi of the Female Polyphagous Moth. <i>Frontiers in Physiology</i> , 2018 , 9, 1606	4.6	4
14	Distribution of neuropeptides in the antennal lobes of male <i>Spodoptera littoralis</i> . <i>Cell and Tissue Research</i> , 2013 , 354, 431-40	4.2	3

13	Plasmodium falciparum gametocyte-induced volatiles enhance attraction of Anopheles mosquitoes in the field. <i>Malaria Journal</i> , 2020 , 19, 327	3.6	3
12	Malaria hotspots explained from the perspective of ecological theory underlying insect foraging. <i>Scientific Reports</i> , 2020 , 10, 21449	4.9	3
11	Mosquito Host Seeking in 3D Using a Versatile Climate-Controlled Wind Tunnel System. <i>Frontiers in Behavioral Neuroscience</i> , 2021 , 15, 643693	3.5	3
10	Geographic distribution, phylogeny, and genetic diversity of the fruit- and blood-feeding moth <i>Calyptra thalictri</i> Borkhausen (Insecta: Lepidoptera: Erebidae). <i>Journal of Parasitology</i> , 2014 , 100, 583-91 ^{0.9}		2
9	Cattle-Derived Unsaturated Aldehydes Repel Biting Midges and Mosquitoes.. <i>Journal of Chemical Ecology</i> , 2022 , 1	2.7	2
8	Comparative dissection of the peripheral olfactory system of the Chagas disease vectors <i>Rhodnius prolixus</i> and <i>Rhodnius brethesi</i> . <i>PLoS Neglected Tropical Diseases</i> , 2021 , 15, e0009098	4.8	2
7	Development of a chimeric odour blend for attracting gravid malaria vectors. <i>Malaria Journal</i> , 2021 , 20, 262	3.6	2
6	Mosquitoes on a Diet Reduce Those Pesky Bites. <i>Trends in Parasitology</i> , 2019 , 35, 335-336	6.4	1
5	Host-Related Olfactory Behavior in a Fruit-Piercing Moth (Lepidoptera: Erebidae) in Far Eastern Russia. <i>Journal of Insect Science</i> , 2016 , 16,	2	1
4	De novo transcriptome sequencing of the northern fowl mite, <i>Ornithonyssus sylviarum</i> , shed light on parasitiform poultry mites evolution and its chemoreceptor repertoires.. <i>Parasitology Research</i> , 2022 , 121, 521	2.4	1
3	Influence of light and kairomone baiting systems on trap collections of biting midges in southern Sweden. <i>Journal of Vector Ecology</i> , 2020 , 45, 45-56	1.5	1
2	Contrasting effects of the alkaloid ricinine on the capacity of <i>Anopheles gambiae</i> and <i>Anopheles coluzzii</i> to transmit <i>Plasmodium falciparum</i> . <i>Parasites and Vectors</i> , 2021 , 14, 479	4	1
1	3D-Printed Fluorescence Hyperspectral Lidar for Monitoring Tagged Insects. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2022 , 1-1	3.8	1