Louis Lambrechts

List of Publications by Year
in descending order

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93
papers

7,535
citations

71102
41
h-index

62596
80
g-index

110
all docs

110
docs citations

110
times ranked

7428
citing authors

#	Article	IF	Citations
1	Past and future spread of the arbovirus vectors Aedes aegypti and Aedes albopictus. Nature Microbiology, 2019, 4, 854-863.	13.3	699
2	Impact of daily temperature fluctuations on dengue virus transmission by <i>Aedes aegypti</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 7460-7465.	7.1	587
3	Consequences of the Expanding Global Distribution of Aedes albopictus for Dengue Virus Transmission. PLoS Neglected Tropical Diseases, 2010, 4, e646.	3.0	566
4	Improved reference genome of Aedes aegypti informs arbovirus vector control. Nature, 2018, 563, 501-507.	27.8	426
5	Asymptomatic humans transmit dengue virus to mosquitoes. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14688-14693.	7.1	355
6	Virus-derived DNA drives mosquito vector tolerance to arboviral infection. Nature Communications, 2016, 7, 12410.	12.8	199
7	Coevolutionary interactions between host and parasite genotypes. Trends in Parasitology, 2006, 22, 12-16.	3.3	195
8	Genetic specificity and potential for local adaptation between dengue viruses and mosquito vectors. BMC Evolutionary Biology, 2009, 9, 160.	3.2	184
9	Fluctuations at a Low Mean Temperature Accelerate Dengue Virus Transmission by Aedes aegypti. PLoS Neglected Tropical Diseases, 2013, 7, e2190.	3.0	183
10	Carryover effects of larval exposure to different environmental bacteria drive adult trait variation in a mosquito vector. Science Advances, 2017, 3, e1700585.	10.3	172
11	Effects of Fluctuating Daily Temperatures at Critical Thermal Extremes on Aedes aegypti Life-History Traits. PLoS ONE, 2013, 8, e58824.	2.5	157
12	Aedes Mosquitoes and Aedes-Borne Arboviruses in Africa: Current and Future Threats. International Journal of Environmental Research and Public Health, 2018, 15, 220.	2.6	153
13	Host genotype by parasite genotype interactions underlying the resistance of anopheline mosquitoes to Plasmodium falciparum. Malaria Journal, 2005, 4, 3.	2.3	149
14	Three-way interactions between mosquito population, viral strain and temperature underlying chikungunya virus transmission potential. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141078.	2.6	145
15	Dicer-2-Dependent Generation of Viral DNA from Defective Genomes of RNA Viruses Modulates Antiviral Immunity in Insects. Cell Host and Microbe, 2018, 23, 353-365.e8.	11.0	124
16	Large Diurnal Temperature Fluctuations Negatively Influence<i>Aedes aegypti</i>(Diptera: Culicidae) Life-History Traits. Journal of Medical Entomology, 2013, 50, 43-51.	1.8	123
17	Contributions from the silent majority dominate dengue virus transmission. PLoS Pathogens, 2018, 14, e1006965.	4.7	118
18	Genetic Drift, Purifying Selection and Vector Genotype Shape Dengue Virus Intra-host Genetic Diversity in Mosquitoes. PLoS Genetics, 2016, 12, e1006111.	3.5	117

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19	Environmental influence on the genetic basis of mosquito resistance to malaria parasites. Proceedings of the Royal Society B: Biological Sciences, 2006, 273, 1501-1506.	2.6	111
20	Mode of transmission and the evolution of arbovirus virulence in mosquito vectors. Proceedings of the Royal Society B: Biological Sciences, 2009, 276, 1369-1378.	2.6	108
21	Reduction of Aedes aegypti Vector Competence for Dengue Virus under Large Temperature Fluctuations. American Journal of Tropical Medicine and Hygiene, 2013, 88, 689-697.	1.4	108
22	Genetic Mapping of Specific Interactions between Aedes aegypti Mosquitoes and Dengue Viruses. PLoS Genetics, 2013, 9, e1003621.	3.5	105
23	Dengue-1 Virus Clade Replacement in Thailand Associated with Enhanced Mosquito Transmission. Journal of Virology, 2012, 86, 1853-1861.	3.4	104
24	Determinants of Arbovirus Vertical Transmission in Mosquitoes. PLoS Pathogens, 2016, 12, e1005548.	4.7	98
25	Increased melanizing activity in Anopheles gambiae does not affect development of Plasmodium falciparum. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16858-16863.	7.1	93
26	Polymorphisms in Anopheles gambiae Immune Genes Associated with Natural Resistance to Plasmodium falciparum. PLoS Pathogens, 2010, 6, e1001112.	4.7	92
27	A satellite repeat-derived piRNA controls embryonic development of Aedes. Nature, 2020, 580, 274-277.	27.8	90
28	Non-retroviral Endogenous Viral Element Limits Cognate Virus Replication in Aedes aegypti Ovaries. Current Biology, 2020, 30, 3495-3506.e6.	3.9	88
29	Cell-Fusing Agent Virus Reduces Arbovirus Dissemination in Aedes aegypti Mosquitoes <i>In Vivo</i>. Journal of Virology, 2019, 93, .	3.4	86
30	Uncovering the Repertoire of Endogenous Flaviviral Elements in Aedes Mosquito Genomes. Journal of Virology, 2017, 91, .	3.4	81
31	Recent African strains of Zika virus display higher transmissibility and fetal pathogenicity than Asian strains. Nature Communications, 2021, 12, 916.	12.8	80
32	Assessing the epidemiological effect of wolbachia for dengue control. Lancet Infectious Diseases, The, 2015, 15, 862-866.	9.1	73
33	Vertical transmission of arboviruses in mosquitoes: A historical perspective. Infection, Genetics and Evolution, 2014, 28, 681-690.	2.3	68
34	Excretion of dengue virus RNA by Aedes aegypti allows non-destructive monitoring of viral dissemination in individual mosquitoes. Scientific Reports, 2016, 6, 24885.	3.3	67
35	Specificity of resistance to dengue virus isolates is associated with genotypes of the mosquito antiviral gene<i>Dicer-2</i>. Proceedings of the Royal Society B: Biological Sciences, 2013, 280, 20122437.	2.6	66
36	Dissecting the Genetic Architecture of Hostâ€“Pathogen Specificity. PLoS Pathogens, 2010, 6, e1001019.	4.7	65

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37	Quantitative genetics of Aedes aegypti vector competence for dengue viruses: towards a new paradigm?. Trends in Parasitology, 2011, 27, 111-114.	3.3	63
38	Diverse laboratory colonies of Aedes aegypti harbor the same adult midgut bacterial microbiome. Parasites and Vectors, 2018, 11, 207.	2.5	63
39	Enhanced Zika virus susceptibility of globally invasive <i>Aedes aegypti</i> populations. Science, 2020, 370, 991-996.	12.6	61
40	Immune priming and clearance of orally acquired RNA viruses in Drosophila. Nature Microbiology, 2018, 3, 1394-1403.	13.3	59
41	Development and validation of four one-step real-time RT-LAMP assays for specific detection of each dengue virus serotype. PLoS Neglected Tropical Diseases, 2018, 12, e0006381.	3.0	53
42	RNA Structure Duplication in the Dengue Virus 3â€² UTR: Redundancy or Host Specificity?. MBio, 2019, 10, .	4.1	51
43	Extensive Genetic Differentiation between Homomorphic Sex Chromosomes in the Mosquito Vector, Aedes aegypti. Genome Biology and Evolution, 2017, 9, 2322-2335.	2.5	45
44	Dengue virus replicates and accumulates in Aedes aegypti salivary glands. Virology, 2017, 507, 75-81.	2.4	44
45	Discovery of flavivirus-derived endogenous viral elements in<i>Anopheles</i>mosquito genomes supports the existence of<i>Anopheles</i>-associated insect-specific flaviviruses. Virus Evolution, 2017, 3, vew035.	4.9	43
46	Epidemiological significance of dengue virus genetic variation in mosquito infection dynamics. PLoS Pathogens, 2018, 14, e1007187.	4.7	41
47	Individual co-variation between viral RNA load and gene expression reveals novel host factors during early dengue virus infection of the Aedes aegypti midgut. PLoS Neglected Tropical Diseases, 2017, 11, e0006152.	3.0	41
48	Can transgenic mosquitoes afford the fitness cost?. Trends in Parasitology, 2008, 24, 4-7.	3.3	36
49	GENETIC CORRELATION BETWEEN MELANIZATION AND ANTIBACTERIAL IMMUNE RESPONSES IN A NATURAL POPULATION OF THE MALARIA VECTOR ANOPHELES GAMBIAE. Evolution; International Journal of Organic Evolution, 2004, 58, 2377-2381.	2.3	32
50	Shifting priorities in vector biology to improve control of vectorâ€borne disease. Tropical Medicine and International Health, 2009, 14, 1505-1514.	2.3	32
51	Anopheles gambiae immune responses to Sephadex beads: Involvement of anti-Plasmodium factors in regulating melanization. Insect Biochemistry and Molecular Biology, 2006, 36, 769-778.	2.7	31
52	BiteOscope, an open platform to study mosquito biting behavior. ELife, 2020, 9, .	6.0	31
53	Manipulating Mosquito Tolerance for Arbovirus Control. Cell Host and Microbe, 2019, 26, 309-313.	11.0	30
54	Targeted full-genome amplification and sequencing of dengue virus types 1â€“4 from South America. Journal of Virological Methods, 2016, 235, 158-167.	2.1	28

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55	Differential Susceptibility of Two Field Aedes aegypti Populations to a Low Infectious Dose of Dengue Virus. PLoS ONE, 2014, 9, e92971.	2.5	26
56	Improving Dengue Virus Capture Rates in Humans and Vectors in Kamphaeng Phet Province, Thailand, Using an Enhanced Spatiotemporal Surveillance Strategy. American Journal of Tropical Medicine and Hygiene, 2015, 93, 24-32.	1.4	26
57	Vector biology prospects in dengue research. Memorias Do Instituto Oswaldo Cruz, 2012, 107, 1080-1082.	1.6	25
58	Full-genome dengue virus sequencing in mosquito saliva shows lack of convergent positive selection during transmission by Aedes aegypti. Virus Evolution, 2017, 3, vex031.	4.9	25
59	ZikaPLAN: Zika Preparedness Latin American Network. Global Health Action, 2017, 10, 1398485.	1.9	25
60	Larval Exposure to the Bacterial Insecticide Bti Enhances Dengue Virus Susceptibility of Adult Aedes aegypti Mosquitoes. Insects, 2018, 9, 193.	2.2	24
61	Novel genome sequences of cell-fusing agent virus allow comparison of virus phylogeny with the genetic structure of Aedes aegypti populations. Virus Evolution, 2020, 6, veaa018.	4.9	24
62	A major genetic locus controlling natural Plasmodium falciparum infection is shared by East and West African Anopheles gambiae. Malaria Journal, 2007, 6, 87.	2.3	23
63	EFFECT OF INFECTION BY PLASMODIUM FALCIPARUM ON THE MELANIZATION IMMUNE RESPONSE OF ANOPHELES GAMBIAE. American Journal of Tropical Medicine and Hygiene, 2007, 76, 475-480.	1.4	22
64	A Survey of Virus Recombination Uncovers Canonical Features of Artificial Chimeras Generated During Deep Sequencing Library Preparation. G3: Genes, Genomes, Genetics, 2018, 8, 1129-1138.	1.8	21
65	No maternal effects after stimulation of the melanization response in the yellow fever mosquito <i>Aedes aegypti</i>. Oikos, 2008, 117, 1269-1279.	2.7	20
66	Mosquitoâ€bacteria interactions during larval development trigger metabolic changes with carryâ€over effects on adult fitness. Molecular Ecology, 2022, 31, 1444-1460.	3.9	18
67	Larval habitat determines the bacterial and fungal microbiota of the mosquito vector <i>Aedes aegypti</i>. FEMS Microbiology Ecology, 2022, 98, .	2.7	17
68	ZikaPLAN: addressing the knowledge gaps and working towards a research preparedness network in the Americas. Global Health Action, 2019, 12, 1666566.	1.9	13
69	Exome-wide association study reveals largely distinct gene sets underlying specific resistance to dengue virus types 1 and 3 in Aedes aegypti. PLoS Genetics, 2020, 16, e1008794.	3.5	13
70	Evolutionary dynamics of dengue virus populations within the mosquito vector. Current Opinion in Virology, 2016, 21, 47-53.	5.4	12
71	Tudor-SN Promotes Early Replication of Dengue Virus in the Aedes aegypti Midgut. IScience, 2020, 23, 100870.	4.1	12
72	No evidence for local adaptation of dengue viruses to mosquito vector populations in <scp>T</scp>hailand. Evolutionary Applications, 2016, 9, 608-618.	3.1	11

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73	A peridomestic Aedes malayensis population in Singapore can transmit yellow fever virus. PLoS Neglected Tropical Diseases, 2019, 13, e0007783.	3.0	11
74	Feasibility of feeding Aedes aegypti mosquitoes on dengue virus-infected human volunteers for vector competence studies in Iquitos, Peru. PLoS Neglected Tropical Diseases, 2019, 13, e0007116.	3.0	10
75	Experimental adaptation of dengue virus 1 to Aedes albopictus mosquitoes by in vivo selection. Scientific Reports, 2020, 10, 18404.	3.3	10
76	Taking Insect Immunity to the Single-Cell Level. Trends in Immunology, 2020, 41, 190-199.	6.8	10
77	Insect decline: immediate action is needed. Comptes Rendus - Biologies, 2020, 343, 267-293.	0.2	10
78	Potential role of vector-mediated natural selection in dengue virus genotype/lineage replacements in two epidemiologically contrasted settings. Emerging Microbes and Infections, 2021, 10, 1346-1357.	6.5	10
79	Did Zika virus attenuation or increased virulence lead to the emergence of congenital Zika syndrome?. Journal of Travel Medicine, 2021, 28, .	3.0	8
80	Risk of arbovirus emergence via bridge vectors: case study of the sylvatic mosquito Aedes malayensis in the Nakai district, Laos. Scientific Reports, 2020, 10, 7750.	3.3	7
81	Acceptability of Aedes aegypti blood feeding on dengue virus-infected human volunteers for vector competence studies in Iquitos, Peru. PLoS Neglected Tropical Diseases, 2019, 13, e0007090.	3.0	6
82	Mutational analysis of Aedes aegypti Dicer 2 provides insights into the biogenesis of antiviral exogenous small interfering RNAs. PLoS Pathogens, 2022, 18, e1010202.	4.7	6
83	The legacy of ZikaPLAN: a transnational research consortium addressing Zika. Global Health Action, 2021, 14, 2008139.	1.9	5
84	Yearly variations of the genetic structure of Aedes aegypti (Linnaeus) (Diptera: Culicidae) in the Philippines (2017â€“2019). Infection, Genetics and Evolution, 2022, 102, 105296.	2.3	3
85	Predicting Wolbachia potential to knock down dengue virus transmission. Annals of Translational Medicine, 2015, 3, 288.	1.7	2
86	Title is missing!. , 2020, 16, e1008794.		0
87	Title is missing!. , 2020, 16, e1008794.		0
88	Title is missing!. , 2020, 16, e1008794.		0
89	Title is missing!. , 2020, 16, e1008794.		0
90	A peridomestic Aedes malayensis population in Singapore can transmit yellow fever virus. , 2019, 13, e0007783.		0

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91	A peridomestic Aedes malayensis population in Singapore can transmit yellow fever virus. , 2019, 13, e0007783.		0
92	A peridomestic Aedes malayensis population in Singapore can transmit yellow fever virus. , 2019, 13, e0007783.		0
93	A peridomestic Aedes malayensis population in Singapore can transmit yellow fever virus. , 2019, 13, e0007783.		0