

Leslie B Vosshall

List of Publications by Year in descending order

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Version: 2024-02-01

86
papers

21,314
citations

32410

55
h-index

60403

85
g-index

112
all docs

112
docs citations

112
times ranked

14148
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A persistent behavioral state enables sustained predation of humans by mosquitoes. <i>ELife</i> , 2022, 11, . | 2.8 | 17 |
| 2 | Sensory Discrimination of Blood and Floral Nectar by <i>Aedes aegypti</i> Mosquitoes. <i>Neuron</i> , 2020, 108, 1163-1180.e12. | 3.8 | 57 |
| 3 | Genome editing in non-model organisms opens new horizons for comparative physiology. <i>Journal of Experimental Biology</i> , 2020, 223, . | 0.8 | 15 |
| 4 | How to turn an organism into a model organism in 10 "easy"™ steps. <i>Journal of Experimental Biology</i> , 2020, 223, . | 0.8 | 73 |
| 5 | Fruitless mutant male mosquitoes gain attraction to human odor. <i>ELife</i> , 2020, 9, . | 2.8 | 39 |
| 6 | General Visual and Contingent Thermal Cues Interact to Elicit Attraction in Female <i>Aedes aegypti</i> Mosquitoes. <i>Current Biology</i> , 2019, 29, 2250-2257.e4. | 1.8 | 50 |
| 7 | <i>Aedes aegypti</i> Mosquitoes Use Their Legs to Sense DEET on Contact. <i>Current Biology</i> , 2019, 29, 1551-1556.e5. | 1.8 | 79 |
| 8 | Genetic variation across the human olfactory receptor repertoire alters odor perception. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9475-9480. | 3.3 | 124 |
| 9 | Small-Molecule Agonists of <i>Ae. aegypti</i> Neuropeptide Y Receptor Block Mosquito Biting. <i>Cell</i> , 2019, 176, 687-701.e5. | 13.5 | 74 |
| 10 | The ion channel ppk301 controls freshwater egg-laying in the mosquito <i>Aedes aegypti</i> . <i>ELife</i> , 2019, 8, . | 2.8 | 74 |
| 11 | Improved reference genome of <i>Aedes aegypti</i> informs arbovirus vector control. <i>Nature</i> , 2018, 563, 501-507. | 13.7 | 426 |
| 12 | A natural variant and engineered mutation in a GPCR promote DEET resistance in <i>C. elegans</i> . <i>Nature</i> , 2018, 562, 119-123. | 13.7 | 18 |
| 13 | Predicting human olfactory perception from chemical features of odor molecules. <i>Science</i> , 2017, 355, 820-826. | 6.0 | 194 |
| 14 | SMELL-S and SMELL-R: Olfactory tests not influenced by odor-specific insensitivity or prior olfactory experience. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11275-11284. | 3.3 | 47 |
| 15 | A Peptide Signaling System that Rapidly Enforces Paternity in the <i>Aedes aegypti</i> Mosquito. <i>Current Biology</i> , 2017, 27, 3734-3742.e5. | 1.8 | 43 |
| 16 | A Taste Circuit that Regulates Ingestion by Integrating Food and Hunger Signals. <i>Cell</i> , 2016, 165, 715-729. | 13.5 | 119 |
| 17 | The neurotranscriptome of the <i>Aedes aegypti</i> mosquito. <i>BMC Genomics</i> , 2016, 17, 32. | 1.2 | 188 |
| 18 | Olfactory perception of chemically diverse molecules. <i>BMC Neuroscience</i> , 2016, 17, 55. | 0.8 | 103 |

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|----|--|------|-----------|
| 19 | Laying a controversial smell theory to rest. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6525-6526. | 3.3 | 40 |
| 20 | Genome Engineering with CRISPR-Cas9 in the Mosquito <i>Aedes aegypti</i> . Cell Reports, 2015, 11, 51-60. | 2.9 | 351 |
| 21 | The cation channel TRPA1 tunes mosquito thermotaxis to host temperatures. ELife, 2015, 4, . | 2.8 | 98 |
| 22 | Multimodal Integration of Carbon Dioxide and Other Sensory Cues Drives Mosquito Attraction to Humans. Cell, 2014, 156, 1060-1071. | 13.5 | 380 |
| 23 | A Systematic Nomenclature for the Insect Brain. Neuron, 2014, 81, 755-765. | 3.8 | 564 |
| 24 | Evolution of mosquito preference for humans linked to an odorant receptor. Nature, 2014, 515, 222-227. | 13.7 | 389 |
| 25 | Abdominal-B Neurons Control <i>Drosophila</i> Virgin Female Receptivity. Current Biology, 2014, 24, 1584-1595. | 1.8 | 87 |
| 26 | Opposing Dopaminergic and GABAergic Neurons Control the Duration and Persistence of Copulation in <i>Drosophila</i> . Cell, 2013, 155, 881-893. | 13.5 | 64 |
| 27 | <i>orco</i> mutant mosquitoes lose strong preference for humans and are not repelled by volatile DEET. Nature, 2013, 498, 487-491. | 13.7 | 388 |
| 28 | Small molecule drug screening in <i>Drosophila</i> identifies the 5HT2A receptor as a feeding modulation target. Scientific Reports, 2013, 3, srep02120. | 1.6 | 182 |
| 29 | Functional and Genetic Characterization of Neuropeptide Y-Like Receptors in <i>Aedes aegypti</i> . PLoS Neglected Tropical Diseases, 2013, 7, e2486. | 1.3 | 86 |
| 30 | The Glacial Pace of Scientific Publishing: Why It Hurts Everyone and What We Can Do To Fix It. FASEB Journal, 2012, 26, 3589-3593. | 0.2 | 23 |
| 31 | An olfactory demography of a diverse metropolitan population. BMC Neuroscience, 2012, 13, 122. | 0.8 | 66 |
| 32 | Behavioral Neuroscience: Learning to Suckle with Signature Odor. Current Biology, 2012, 22, R907-R909. | 1.8 | 2 |
| 33 | Amino Acid Residues Contributing to Function of the Heteromeric Insect Olfactory Receptor Complex. PLoS ONE, 2012, 7, e32372. | 1.1 | 131 |
| 34 | Post-fasting olfactory, transcriptional, and feeding responses in <i>Drosophila</i> . Physiology and Behavior, 2012, 105, 544-553. | 1.0 | 60 |
| 35 | A natural polymorphism alters odour and DEET sensitivity in an insect odorant receptor. Nature, 2011, 478, 511-514. | 13.7 | 164 |
| 36 | A Unified Nomenclature System for the Insect Olfactory Coreceptor. Chemical Senses, 2011, 36, 497-498. | 1.1 | 280 |

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|----|---|------|-----------|
| 37 | Single Sensillum Recordings in the Insects Drosophila melanogaster and Anopheles gambiae. Journal of Visualized Experiments, 2010, , 1-5. | 0.2 | 38 |
| 38 | Reprogramming a termite monarchy. Nature Chemical Biology, 2010, 6, 637-638. | 3.9 | 2 |
| 39 | Topographic Mapping--The Olfactory System. Cold Spring Harbor Perspectives in Biology, 2010, 2, a001776-a001776. | 2.3 | 70 |
| 40 | Controversy and consensus: noncanonical signaling mechanisms in the insect olfactory system. Current Opinion in Neurobiology, 2009, 19, 284-292. | 2.0 | 141 |
| 41 | Sensory systems. Current Opinion in Neurobiology, 2009, 19, 343-344. | 2.0 | 5 |
| 42 | A circuit supporting concentration-invariant odor perception in Drosophila. Journal of Biology, 2009, 8, 9. | 2.7 | 126 |
| 43 | Variant Ionotropic Glutamate Receptors as Chemosensory Receptors in Drosophila. Cell, 2009, 136, 149-162. | 13.5 | 1,207 |
| 44 | Sensing Odorants and Pheromones with Chemosensory Receptors. Annual Review of Physiology, 2009, 71, 307-332. | 5.6 | 487 |
| 45 | Insect olfactory receptors are heteromeric ligand-gated ion channels. Nature, 2008, 452, 1002-1006. | 13.7 | 955 |
| 46 | Bilateral olfactory sensory input enhances chemotaxis behavior. Nature Neuroscience, 2008, 11, 187-199. | 7.1 | 167 |
| 47 | Better smelling through genetics: mammalian odor perception. Current Opinion in Neurobiology, 2008, 18, 364-369. | 2.0 | 52 |
| 48 | The Survival Advantage of Olfaction in a Competitive Environment. Current Biology, 2008, 18, 1153-1155. | 1.8 | 74 |
| 49 | Scent of a Fly. Neuron, 2008, 59, 685-689. | 3.8 | 32 |
| 50 | Insect Odorant Receptors Are Molecular Targets of the Insect Repellent DEET. Science, 2008, 319, 1838-1842. | 6.0 | 295 |
| 51 | The Olfactory Sensory Map in Drosophila. Advances in Experimental Medicine and Biology, 2008, 628, 102-114. | 0.8 | 96 |
| 52 | High-resolution Measurement of Odor-Driven Behavior in Drosophila Larvae. Journal of Visualized Experiments, 2008, , . | 0.2 | 21 |
| 53 | Influence of odorant receptor repertoire on odor perception in humans and fruit flies. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 5614-5619. | 3.3 | 54 |
| 54 | Activity-Dependent Plasticity in an Olfactory Circuit. Neuron, 2007, 56, 838-850. | 3.8 | 172 |

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|----|---|------|-----------|
| 55 | Molecular Architecture of Smell and Taste in <i>Drosophila</i> . <i>Annual Review of Neuroscience</i> , 2007, 30, 505-533. | 5.0 | 787 |
| 56 | Two chemosensory receptors together mediate carbon dioxide detection in <i>Drosophila</i> . <i>Nature</i> , 2007, 445, 86-90. | 13.7 | 601 |
| 57 | Genetic variation in a human odorant receptor alters odour perception. <i>Nature</i> , 2007, 449, 468-472. | 13.7 | 549 |
| 58 | An essential role for a CD36-related receptor in pheromone detection in <i>Drosophila</i> . <i>Nature</i> , 2007, 450, 289-293. | 13.7 | 504 |
| 59 | Into the mind of a fly. <i>Nature</i> , 2007, 450, 193-197. | 13.7 | 68 |
| 60 | Atypical Membrane Topology and Heteromeric Function of <i>Drosophila</i> Odorant Receptors In Vivo. <i>PLoS Biology</i> , 2006, 4, e20. | 2.6 | 852 |
| 61 | Functional conservation of an insect odorant receptor gene across 250 million years of evolution. <i>Current Biology</i> , 2005, 15, R119-R121. | 1.8 | 245 |
| 62 | Social Signals: The Secret Language of Mice. <i>Current Biology</i> , 2005, 15, R255-R257. | 1.8 | 19 |
| 63 | Genetic and Functional Subdivision of the <i>Drosophila</i> Antennal Lobe. <i>Current Biology</i> , 2005, 15, 1548-1553. | 1.8 | 540 |
| 64 | Chemotaxis Behavior Mediated by Single Larval Olfactory Neurons in <i>Drosophila</i> . <i>Current Biology</i> , 2005, 15, 2086-2096. | 1.8 | 224 |
| 65 | Wake Up and Smell the Pheromones. <i>Neuron</i> , 2005, 45, 179-181. | 3.8 | 18 |
| 66 | A psychophysical test of the vibration theory of olfaction. <i>Nature Neuroscience</i> , 2004, 7, 337-338. | 7.1 | 100 |
| 67 | Human olfactory psychophysics. <i>Current Biology</i> , 2004, 14, R875-R878. | 1.8 | 42 |
| 68 | Olfaction: Attracting Both Sperm and the Nose. <i>Current Biology</i> , 2004, 14, R918-R920. | 1.8 | 29 |
| 69 | Or83b Encodes a Broadly Expressed Odorant Receptor Essential for <i>Drosophila</i> Olfaction. <i>Neuron</i> , 2004, 43, 703-714. | 3.8 | 1,159 |
| 70 | Diverse Odor-Conditioned Memories Require Uniquely Timed Dorsal Paired Medial Neuron Output. <i>Neuron</i> , 2004, 44, 521-533. | 3.8 | 120 |
| 71 | Decoding olfaction in <i>Drosophila</i> . <i>Current Opinion in Neurobiology</i> , 2003, 13, 103-110. | 2.0 | 45 |
| 72 | Two-Photon Calcium Imaging Reveals an Odor-Evoked Map of Activity in the Fly Brain. <i>Cell</i> , 2003, 112, 271-282. | 13.5 | 752 |

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|----|---|------|-----------|
| 73 | Putting smell on the map. Trends in Neurosciences, 2003, 26, 169-170. | 4.2 | 10 |
| 74 | Axonal Targeting of Olfactory Receptor Neurons in Drosophila Is Controlled by Dscam. Neuron, 2003, 37, 221-231. | 3.8 | 194 |
| 75 | Toward a Molecular Description of Pheromone Perception. Neuron, 2003, 39, 881-883. | 3.8 | 9 |
| 76 | Diversity and expression of odorant receptors in Drosophila. , 2003, , 567-591. | | 5 |
| 77 | How the Brain Sees Smells. Developmental Cell, 2001, 1, 588-590. | 3.1 | 5 |
| 78 | The Molecular Logic of Olfaction in Drosophila. Chemical Senses, 2001, 26, 207-213. | 1.1 | 79 |
| 79 | Olfaction in Drosophila. Current Opinion in Neurobiology, 2000, 10, 498-503. | 2.0 | 131 |
| 80 | Comparative Genomics of the Eukaryotes. Science, 2000, 287, 2204-2215. | 6.0 | 1,573 |
| 81 | An Olfactory Sensory Map in the Fly Brain. Cell, 2000, 102, 147-159. | 13.5 | 973 |
| 82 | A Spatial Map of Olfactory Receptor Expression in the Drosophila Antenna. Cell, 1999, 96, 725-736. | 13.5 | 1,104 |
| 83 | Circadian rhythms in drosophila can be driven by period expression in a restricted group of central brain cells. Neuron, 1995, 15, 345-360. | 3.8 | 135 |
| 84 | Topographic organization of sensory projections to the olfactory bulb. Cell, 1994, 79, 981-991. | 13.5 | 1,172 |
| 85 | New short period mutations of the Drosophila clock gene per. Neuron, 1992, 9, 575-581. | 3.8 | 76 |
| 86 | New Clock Mutations in Drosophila. Annals of the New York Academy of Sciences, 1991, 618, 1-10. | 1.8 | 18 |