

# Peter Mombaerts

## List of Publications by Year in descending order

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57  
papers

7,843  
citations

87843

38  
h-index

143943

57  
g-index

59  
all docs

59  
docs citations

59  
times ranked

4381  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualizing an Olfactory Sensory Map. <i>Cell</i> , 1996, 87, 675-686.	13.5	1,825
2	Odorant Receptor Expression Defines Functional Units in the Mouse Olfactory System. <i>Journal of Neuroscience</i> , 2002, 22, 3033-3043.	1.7	363
3	Variable Patterns of Axonal Projections of Sensory Neurons in the Mouse Vomeronasal System. <i>Cell</i> , 1999, 97, 199-208.	13.5	355
4	Structure and Emergence of Specific Olfactory Glomeruli in the Mouse. <i>Journal of Neuroscience</i> , 2001, 21, 9713-9723.	1.7	314
5	A Contextual Model for Axonal Sorting into Glomeruli in the Mouse Olfactory System. <i>Cell</i> , 2004, 117, 817-831.	13.5	298
6	Axonal Wiring in the Mouse Olfactory System. <i>Annual Review of Cell and Developmental Biology</i> , 2006, 22, 713-737.	4.0	284
7	Axon Guidance of Mouse Olfactory Sensory Neurons by Odorant Receptors and the $\beta$ 2 Adrenergic Receptor. <i>Cell</i> , 2004, 117, 833-846.	13.5	277
8	Odorant receptor gene choice is reset by nuclear transfer from mouse olfactory sensory neurons. <i>Nature</i> , 2004, 428, 393-399.	13.7	247
9	Visualizing in deceased COVID-19 patients how SARS-CoV-2 attacks the respiratory and olfactory mucosae but spares the olfactory bulb. <i>Cell</i> , 2021, 184, 5932-5949.e15.	13.5	245
10	Minigenes Impart Odorant Receptor-Specific Axon Guidance in the Olfactory Bulb. <i>Neuron</i> , 2002, 35, 681-696.	3.8	223
11	Peripheral Olfactory Projections Are Differentially Affected in Mice Deficient in a Cyclic Nucleotide-Gated Channel Subunit. <i>Neuron</i> , 2000, 26, 81-91.	3.8	218
12	Detection of Near-Atmospheric Concentrations of CO <sub>2</sub> by an Olfactory Subsystem in the Mouse. <i>Science</i> , 2007, 317, 953-957.	6.0	216
13	Local Permutations in the Glomerular Array of the Mouse Olfactory Bulb. <i>Journal of Neuroscience</i> , 2000, 20, 6927-6938.	1.7	204
14	Specificity of Glomerular Targeting by Olfactory Sensory Axons. <i>Journal of Neuroscience</i> , 2002, 22, 2469-2477.	1.7	180
15	Mapping of Class I and Class II Odorant Receptors to Glomerular Domains by Two Distinct Types of Olfactory Sensory Neurons in the Mouse. <i>Neuron</i> , 2009, 61, 220-233.	3.8	180
16	Combinatorial Coexpression of Neural and Immune Multigene Families in Mouse Vomeronasal Sensory Neurons. <i>Current Biology</i> , 2003, 13, 394-400.	1.8	164
17	Local and cis Effects of the H Element on Expression of Odorant Receptor Genes in Mouse. <i>Cell</i> , 2007, 130, 373-384.	13.5	162
18	Hierarchical deconstruction of mouse olfactory sensory neurons: from whole mucosa to single-cell RNA-seq. <i>Scientific Reports</i> , 2015, 5, 18178.	1.6	148

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19	A Divergent Pattern of Sensory Axonal Projections Is Rendered Convergent by Second-Order Neurons in the Accessory Olfactory Bulb. <i>Neuron</i> , 2002, 35, 1057-1066.	3.8	146
20	Odorant responses of olfactory sensory neurons expressing the odorant receptor MOR23: A patch clamp analysis in gene-targeted mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1970-1975.	3.3	142
21	Regulation of the Probability of Mouse Odorant Receptor Gene Choice. <i>Cell</i> , 2011, 147, 907-921.	13.5	124
22	Structural requirements for the activation of vomeronasal sensory neurons by MHC peptides. <i>Nature Neuroscience</i> , 2009, 12, 1551-1558.	7.1	120
23	SR1, a Mouse Odorant Receptor with an Unusually Broad Response Profile. <i>Journal of Neuroscience</i> , 2009, 29, 14545-14552.	1.7	105
24	Protocols for two- and three-color fluorescent RNA in situ hybridization of the main and accessory olfactory epithelia in mouse. <i>Journal of Neurocytology</i> , 2004, 33, 657-669.	1.6	97
25	Expression of Nonclassical Class I Major Histocompatibility Genes Defines a Tripartite Organization of the Mouse Vomeronasal System. <i>Journal of Neuroscience</i> , 2008, 28, 2332-2341.	1.7	80
26	A Family of Nonclassical Class I MHC Genes Contributes to Ultrasensitive Chemodetection by Mouse Vomeronasal Sensory Neurons. <i>Journal of Neuroscience</i> , 2014, 34, 5121-5133.	1.7	79
27	The promoter of the mouse odorant receptor gene M71. <i>Molecular and Cellular Neurosciences</i> , 2005, 28, 535-546.	1.0	75
28	Trpc2-Expressing Sensory Neurons in the Main Olfactory Epithelium of the Mouse. <i>Cell Reports</i> , 2014, 8, 583-595.	2.9	69
29	Linear correlation between the number of olfactory sensory neurons expressing a given mouse odorant receptor gene and the total volume of the corresponding glomeruli in the olfactory bulb. <i>Journal of Comparative Neurology</i> , 2016, 524, 199-209.	0.9	64
30	Differential impact of Lhx2 deficiency on expression of class I and class II odorant receptor genes in mouse. <i>Molecular and Cellular Neurosciences</i> , 2007, 34, 679-688.	1.0	63
31	A transcriptomic atlas of mammalian olfactory mucosae reveals an evolutionary influence on food odor detection in humans. <i>Science Advances</i> , 2019, 5, eaax0396.	4.7	59
32	Small subfamily of olfactory receptor genes: structural features, expression pattern and genomic organization. <i>Gene</i> , 1999, 236, 281-291.	1.0	54
33	Temporal patterns of odorant receptor gene expression in adult and aged mice. <i>Molecular and Cellular Neurosciences</i> , 2013, 57, 120-129.	1.0	54
34	A ventral glomerular deficit in Parkinson's disease revealed by whole olfactory bulb reconstruction. <i>Brain</i> , 2017, 140, 2722-2736.	3.7	53
35	Coordinated coexpression of two vomeronasal receptor V2R genes per neuron in the mouse. <i>Molecular and Cellular Neurosciences</i> , 2011, 46, 397-408.	1.0	50
36	Multiplex assessment of the positions of odorant receptor-specific glomeruli in the mouse olfactory bulb by serial two-photon tomography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E5873-82.	3.3	48

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37	A Sensor for Low Environmental Oxygen in the Mouse Main Olfactory Epithelium. <i>Neuron</i> , 2016, 92, 1196-1203.	3.8	45
38	The role of Olfr78 in the breathing circuit of mice. <i>Nature</i> , 2018, 561, E33-E40.	13.7	43
39	The Zonal Organization of Odorant Receptor Gene Choice in the Main Olfactory Epithelium of the Mouse. <i>Cell Reports</i> , 2020, 30, 4220-4234.e5.	2.9	40
40	Trpc2-expressing sensory neurons in the mouse main olfactory epithelium of type B express the soluble guanylate cyclase Gucy1b2. <i>Molecular and Cellular Neurosciences</i> , 2015, 65, 114-124.	1.0	39
41	Bacterial MgrB peptide activates chemoreceptor Fpr3 in mouse accessory olfactory system and drives avoidance behaviour. <i>Nature Communications</i> , 2019, 10, 4889.	5.8	30
42	Persistence of SARS-CoV-2 RNA in lung tissue after mild COVID-19. <i>Lancet Respiratory Medicine</i> , 2021, 9, e78-e79.	5.2	30
43	Expert curation of the human and mouse olfactory receptor gene repertoires identifies conserved coding regions split across two exons. <i>BMC Genomics</i> , 2020, 21, 196.	1.2	28
44	Exclusive transmission of the embryonic stem cell-derived genome through the mouse germline. <i>Genesis</i> , 2016, 54, 326-333.	0.8	27
45	The extremely broad odorant response profile of mouse olfactory sensory neurons expressing the odorant receptor MOR256â€17 includes trace amine-associated receptor ligands. <i>European Journal of Neuroscience</i> , 2016, 43, 608-617.	1.2	23
46	Efficient derivation of extraembryonic endoderm stem cell lines from mouse postimplantation embryos. <i>Scientific Reports</i> , 2016, 6, 39457.	1.6	21
47	The Î²2-adrenergic receptor as a surrogate odorant receptor in mouse olfactory sensory neurons. <i>Molecular and Cellular Neurosciences</i> , 2014, 58, 1-10.	1.0	18
48	Neuropilin-1 and the Positions of Glomeruli in the Mouse Olfactory Bulb. <i>ENeuro</i> , 2016, 3, ENEURO.0123-16.2016.	0.9	17
49	Odorant receptor gene choice and axonal wiring in mice with deletion mutations in the odorant receptor gene SR1. <i>Molecular and Cellular Neurosciences</i> , 2013, 56, 212-224.	1.0	16
50	Odorant responsiveness of embryonic mouse olfactory sensory neurons expressing the odorant receptors <i>S</i> 1 or <i>MOR</i> 23. <i>European Journal of Neuroscience</i> , 2013, 38, 2210-2217.	1.2	14
51	Odorant receptor proteins in the mouse main olfactory epithelium and olfactory bulb. <i>Neuroscience</i> , 2017, 344, 167-177.	1.1	14
52	Danger perception and stress response through an olfactory sensor for the bacterial metabolite hydrogen sulfide. <i>Neuron</i> , 2021, 109, 2469-2484.e7.	3.8	14
53	The testicular soma of <i>Tsc22d3</i> knockout mice supports spermatogenesis and germline transmission from spermatogonial stem cell lines upon transplantation. <i>Genesis</i> , 2019, 57, e23295.	0.8	12
54	Subpopulations of vomeronasal sensory neurons with coordinated coexpression of type 2 vomeronasal receptor genes are differentially dependent on <i>Vmn2r1</i> . <i>European Journal of Neuroscience</i> , 2018, 47, 887-900.	1.2	10

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55	G-protein coupled receptors Mc4r and Drd1a can serve as surrogate odorant receptors in mouse olfactory sensory neurons. <i>Molecular and Cellular Neurosciences</i> , 2018, 88, 138-147.	1.0	7
56	PDGFRA Is Not Essential for the Derivation and Maintenance of Mouse Extraembryonic Endoderm Stem Cell Lines. <i>Stem Cell Reports</i> , 2017, 9, 1062-1070.	2.3	4
57	Lung donation and SARS-CoV-2 transmission: Missed detection versus missed opportunity?. <i>Immunity, Inflammation and Disease</i> , 2022, 10, e603.	1.3	4