Halina Machelska

List of Publications by Year
in descending order

70 papers	3,487 citations	159585 30 h-index	138484 58 g-index
108 all docs	108 docs citations	108 times ranked	2927 citing authors

#	Article	IF	Citations
1	Attacking pain at its source: new perspectives on opioids. Nature Medicine, 2003, 9, 1003-1008.	30.7	535
2	A stomatin-domain protein essential for touch sensation in the mouse. Nature, 2007, 445, 206-209.	27.8	225
3	A nontoxic pain killer designed by modeling of pathological receptor conformations. Science, 2017, 355, 966-969.	12.6	175
4	Modulation of Peripheral Sensory Neurons by the Immune System: Implications for Pain Therapy. Pharmacological Reviews, 2011, 63, 860-881.	16.0	165
5	Pain control in inflammation governed by selectins. Nature Medicine, 1998, 4, 1425-1428.	30.7	164
6	Advances in Achieving Opioid Analgesia Without Side Effects. Frontiers in Pharmacology, 2018, 9, 1388.	3.5	127
7	Immunohistochemical localization of endomorphin-1 and endomorphin-2 in immune cells and spinal cord in a model of inflammatory pain. Journal of Neuroimmunology, 2002, 126, 5-15.	2.3	120
8	Control of inflammatory pain by chemokine-mediated recruitment of opioid-containing polymorphonuclear cells. Pain, 2004, 112, 229-238.	4.2	115
9	Relative contribution of peripheral versus central opioid receptors to antinociception. Brain Research, 2007, 1160, 30-38.	2.2	111
10	Leukocytes in the regulation of pain and analgesia. Journal of Leukocyte Biology, 2005, 78, 1215-1222.	3.3	104
11	Adoptive transfer of M2 macrophages reduces neuropathic pain via opioid peptides. Journal of Neuroinflammation, 2016, 13, 262.	7.2	95
12	Opioid Receptors in Immune and Glial Cellsâ€"Implications for Pain Control. Frontiers in Immunology, 2020, 11, 300.	4.8	92
13	Peripheral analgesic and antiinflammatory effects of opioids. Zeitschrift Fur Rheumatologie, 2001, 60, 416-424.	1.0	81
14	T lymphocytes containing Î²-endorphin ameliorate mechanical hypersensitivity following nerve injury. Brain, Behavior, and Immunity, 2010, 24, 1045-1053.	4.1	76
15	Endogenous peripheral antinociception in early inflammation is not limited by the number of opioid-containing leukocytes but by opioid receptor expression. Pain, 2004, 108, 67-75.	4.2	72
16	Immune cellâ€"derived opioids protect against neuropathic pain in mice. Journal of Clinical Investigation, 2009, 119, 278-86.	8.2	68
17	Tissue Monocytes/Macrophages in Inflammation. Anesthesiology, 2004, 101, 204-211.	2.5	66
18	Targeting of opioid-producing leukocytes for pain control. Neuropeptides, 2007, 41, 355-363.	2.2	65

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19	IL-4 induces M2 macrophages to produce sustained analgesia via opioids. JCI Insight, 2020, 5, .	5.0	65
20	Pain inhibition by blocking leukocytic and neuronal opioid peptidases in peripheral inflamed tissue. FASEB Journal, 2012, 26, 5161-5171.	0.5	63
21	Leukocyte opioid receptors mediate analgesia via Ca 2+ -regulated release of opioid peptides. Brain, Behavior, and Immunity, 2016, 57, 227-242.	4.1	61
22	Mobilization of Opioid-containing Polymorphonuclear Cells by Hematopoietic Growth Factors and Influence on Inflammatory Pain. Anesthesiology, 2004, 100, 149-157.	2.5	57
23	Selectins and integrins but not platelet-endothelial cell adhesion molecule-1 regulate opioid inhibition of inflammatory pain. British Journal of Pharmacology, 2004, 142, 772-780.	5.4	53
24	Analgesic effects of a novel pH-dependent Î¼-opioid receptor agonist in models of neuropathic and abdominal pain. Pain, 2018, 159, 2277-2284.	4.2	51
25	Pain Control by Immune-Derived Opioids. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 533-536.	1.9	49
26	Opioid receptor signaling, analgesic and side effects induced by a computationally designed pH-dependent agonist. Scientific Reports, 2018, 8, 8965.	3.3	47
27	Leukocyte-Derived Opioid Peptides and Inhibition of Pain. Journal of NeuroImmune Pharmacology, 2006, 1, 90-97.	4.1	44
28	Dual Peripheral Actions of Immune Cells in Neuropathic Pain. Archivum Immunologiae Et Therapiae Experimentalis, 2011, 59, 11-24.	2.3	40
29	Recent advances in understanding neuropathic pain: glia, sex differences, and epigenetics. F1000Research, 2016, 5, 2743.	1.6	40
30	Impaired Nociception and Peripheral Opioid Antinociception in Mice Lacking Both Kinin B1 and B2 Receptors. Anesthesiology, 2012, 116, 448-457.	2.5	38
31	Polyglycerol-opioid conjugate produces analgesia devoid of side effects. ELife, 2017, 6, .	6.0	32
32	Stronger Antinociceptive Efficacy of Opioids at the Injured Nerve Trunk Than at Its Peripheral Terminals in Neuropathic Pain. Journal of Pharmacology and Experimental Therapeutics, 2013, 346, 535-544.	2.5	30
33	Pain and knee damage in male and female mice in the medial meniscal transection-induced osteoarthritis. Osteoarthritis and Cartilage, 2020, 28, 475-485.	1.3	27
34	Why is morphine not the ultimate analgesic and what can be done to improve it?. Journal of Pain, 2000, 1, 51-56.	1.4	26
35	Peripheral Non-Viral MIDGE Vector-Driven Delivery of Î²-Endorphin in Inflammatory Pain. Molecular Pain, 2009, 5, 1744-8069-5-72.	2.1	25
36	Î¼-Opioid Receptor Antibody Reveals Tissue-Dependent Specific Staining and Increased Neuronal Î¼-Receptor Immunoreactivity at the Injured Nerve Trunk in Mice. PLoS ONE, 2013, 8, e79099.	2.5	25

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37	The effects of cocaine-induced seizures on the proenkephalin mRNA level in the mouse hippocampus: A possible involvement of the nitric oxide pathway. Neuroscience Letters, 1994, 168, 81-84.	2.1	24
38	Distinct roles of exogenous opioid agonists and endogenous opioid peptides in the peripheral control of neuropathy-triggered heat pain. Scientific Reports, 2016, 6, 32799.	3.3	24
39	Kappa opioid receptor agonists inhibit the pilocarpine-induced seizures and toxicity in the mouse. European Neuropsychopharmacology, 1994, 4, 527-533.	0.7	21
40	Effects of pentylenetetrazol kindling on glutamate receptor genes expression in the rat hippocampus. Brain Research, 1998, 785, 355-358.	2.2	21
41	Opioids and TRPV1 in the peripheral control of neuropathic pain â€" Defining a target site in the injured nerve. Neuropharmacology, 2016, 101, 330-340.	4.1	20
42	pKa of opioid ligands as a discriminating factor for side effects. Scientific Reports, 2019, 9, 19344.	3.3	19
43	Interleukin-4 Induces the Release of Opioid Peptides from M1 Macrophages in Pathological Pain. Journal of Neuroscience, 2021, 41, 2870-2882.	3.6	16
44	Cutaneous Nociceptors Lack Sensitisation, but Reveal Î¼-Opioid Receptor-Mediated Reduction in Excitability to Mechanical Stimulation in Neuropathy. Molecular Pain, 2012, 8, 1744-8069-8-81.	2.1	13
45	Mu-Opioid Receptor Agonist Induces Kir3 Currents in Mouse Peripheral Sensory Neurons â€" Effects of Nerve Injury. Frontiers in Pharmacology, 2018, 9, 1478.	3.5	13
46	Involvement of the nitric oxide pathway in nociceptive processes in the central nervous system in rats. Regulatory Peptides, 1994, 53, S75-S76.	1.9	11
47	Immune cell-mediated opioid analgesia. Immunology Letters, 2020, 227, 48-59.	2.5	11
48	Breaking the pain barrier. Nature Medicine, 2003, 9, 1353-1354.	30.7	10
49	Uncovering the analgesic effects of a pH-dependent mu-opioid receptor agonist using a model of nonevoked ongoing pain. Pain, 2020, 161, 2798-2804.	4.2	10
50	Knock-In Mice Expressing a 15-Lipoxygenating Alox5 Mutant Respond Differently to Experimental Inflammation Than Reported Alox5â^'/â^' Mice. Metabolites, 2021, 11, 698.	2.9	9
51	A low pKa ligand inhibits cancer-associated pain in mice by activating peripheral mu-opioid receptors. Scientific Reports, 2020, 10, 18599.	3.3	7
52	Immune System, Pain and Analgesia. , 2008, , 407-427.		5
53	Immunohistochemical Analysis of Opioid Receptors in Peripheral Tissues. Methods in Molecular Biology, 2015, 1230, 155-165.	0.9	5
54	Modulation of morphine and cocaine effects by inhibition of nitric oxide synthase. Regulatory Peptides, 1994, 54, 233-235.	1.9	4

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55	Comment on â€œNeutrophils: are they hyperalgesic or anti-hyperalgesic?â€• Journal of Leukocyte Biology, 2006, 80, 729-730.	3.3	2
56	Tailorâ€Made Coreâ€Multishell Nanocarriers for the Delivery of Cationic Analgesics to Inflamed Tissue. Advanced Therapeutics, 2019, 2, 1900007.	3.2	2
57	Electrophysiological Patch Clamp Assay to Monitor the Action of Opioid Receptors. Methods in Molecular Biology, 2015, 1230, 197-211.	0.9	2
58	Skinâ€"Nerve Preparation to Assay the Function of Opioid Receptors in Peripheral Endings of Sensory Neurons. Methods in Molecular Biology, 2015, 1230, 215-228.	0.9	2
59	Immunohistochemical Analysis of Opioid Receptors in Peripheral Tissues. Methods in Molecular Biology, 2021, 2201, 71-82.	0.9	2
60	Local burn injury profoundly enhances endogenous opioid systems activity in rats. Pharmacological Research, 1992, 25, 260-261.	7.1	1
61	L-Nitroarginine methyl ester attenuates the development of morphine tolerance and dependence in mice. Regulatory Peptides, 1994, 53, S209-S210.	1.9	1
62	Pain control and the immune system. Current Opinion in Anaesthesiology, 1999, 12, 579-581.	2.0	1
63	PatchÂClamp Analysis of Opioid-Induced Kir3 Currents in Mouse Peripheral Sensory Neurons Following Nerve Injury. Methods in Molecular Biology, 2021, 2201, 127-137.	0.9	1
64	Peripheral nociceptive integration. Pain Forum, 1998, 7, 87-89.	1.1	0
65	Immune-derived Opioids: Production and Function in Inflammatory Pain. , 2007, , 159-169.		0
66	Peripheral analgesic and anti-inflammatory effects of opioids â€" neuro-immune crosstalk. , 2003, , 137-148.		0
67	Peripheral Opioid Analgesia Neuroimmune Interactions and Therapeutic Implications. , 2003, , .		0
68	Peripheral Neuroimmune Interactions and Neuropathic Pain. , 2014, , 105-116.		0
69	Analysis of Potassium and Calcium Imaging to Assay the Function of Opioid Receptors. Methods in Molecular Biology, 2015, 1230, 187-196.	0.9	0
70	Real-Time Quantitative Reverse Transcription PCR for Detection of Opioid Receptors in Immune Cells. Methods in Molecular Biology, 2021, 2201, 83-95.	0.9	0