

Joachim Roth

List of Publications by Year in descending order

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92
papers

2,938
citations

126907

33
h-index

189892

50
g-index

95
all docs

95
docs citations

95
times ranked

2512
citing authors

#	ARTICLE	IF	CITATIONS
1	Leptin-Induced Nuclear Translocation of STAT3 Immunoreactivity in Hypothalamic Nuclei Involved in Body Weight Regulation. <i>Journal of Neuroscience</i> , 2001, 21, 2413-2424.	3.6	186
2	Signaling the brain in systemic inflammation: role of sensory circumventricular organs. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 290.	3.0	147
3	Mechanisms of Fever Production and Lysis: Lessons from Experimental LPS Fever. , 2014, 4, 1563-1604.		137
4	Production of Systemic and Hypothalamic Cytokines during the Early Phase of Endotoxin Fever. <i>Neuroendocrinology</i> , 1995, 62, 55-61.	2.5	112
5	Fever and sickness behavior: Friend or foe?. <i>Brain, Behavior, and Immunity</i> , 2015, 50, 322-333.	4.1	110
6	The role of tumor necrosis factor (TNF) in the febrile and metabolic responses of rats to intraperitoneal injection of a high dose of lipopolysaccharide. <i>Pflügers Archiv European Journal of Physiology</i> , 2000, 440, 925-932.	2.8	90
7	Selected Contribution: Role of IL-6 in LPS-induced nuclear STAT3 translocation in sensory circumventricular organs during fever in rats. <i>Journal of Applied Physiology</i> , 2002, 92, 2657-2666.	2.5	77
8	Neurons of the rat preoptic area and the raphe pallidus nucleus innervating the brown adipose tissue express the prostaglandin E receptor subtype EP3. <i>European Journal of Neuroscience</i> , 2003, 18, 1848-1860.	2.6	76
9	Tolerance to Pyrogens. <i>Annals of the New York Academy of Sciences</i> , 1998, 856, 116-131.	3.8	74
10	Neutralization of pyrogen-induced tumour necrosis factor by its type 1 soluble receptor in guinea-pigs: effects on fever and interleukin-6 release. <i>Journal of Physiology</i> , 1998, 509, 267-275.	2.9	67
11	Nuclear STAT3 translocation in guinea pig and rat brain endothelium during systemic challenge with lipopolysaccharide and interleukin-6. <i>Journal of Comparative Neurology</i> , 2005, 491, 1-14.	1.6	66
12	Nuclear translocation of the transcription factor STAT5 in the rat brain after systemic leptin administration. <i>Neuroscience Letters</i> , 2007, 417, 286-291.	2.1	62
13	Nuclear translocation of the transcription factor STAT3 in the guinea pig brain during systemic or localized inflammation. <i>Journal of Physiology</i> , 2004, 557, 671-687.	2.9	58
14	Molecular Aspects of Fever and Hyperthermia. <i>Neurologic Clinics</i> , 2006, 24, 421-439.	1.8	58
15	Neurons and glial cells of the rat organum vasculosum laminae terminalis directly respond to lipopolysaccharide and pyrogenic cytokines. <i>Brain Research</i> , 2010, 1363, 93-106.	2.2	58
16	Differences in the relative involvement of peripherally released interleukin (IL)-6, brain IL-1 β and prostanoids in mediating lipopolysaccharide-induced fever and sickness behavior. <i>Psychoneuroendocrinology</i> , 2011, 36, 608-622.	2.7	55
17	Endogenous antipyretics. <i>Clinica Chimica Acta</i> , 2006, 371, 13-24.	1.1	53
18	Parthenolide attenuates LPS-induced fever, circulating cytokines and markers of brain inflammation in rats. <i>Cytokine</i> , 2011, 56, 739-748.	3.2	52

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19	Rat area postrema microglial cells act as sensors for the toll-like receptor-4 agonist lipopolysaccharide. <i>Journal of Neuroimmunology</i> , 2008, 204, 66-74.	2.3	51
20	Spatiotemporal nuclear factor interleukin-6 expression in the rat brain during lipopolysaccharide-induced fever is linked to sustained hypothalamic inflammatory target gene induction. <i>Journal of Comparative Neurology</i> , 2011, 519, 480-505.	1.6	50
21	Fever, sickness behavior, and expression of inflammatory genes in the hypothalamus after systemic and localized subcutaneous stimulation of rats with the toll-like receptor 7 agonist imiquimod. <i>Neuroscience</i> , 2012, 201, 166-183.	2.3	50
22	Endogenous antipyretics: neuropeptides and glucocorticoids. <i>Frontiers in Bioscience - Landmark</i> , 2004, 9, 816.	3.0	48
23	Influence of systemic treatment with cyclooxygenase inhibitors on lipopolysaccharide-induced fever and circulating levels of cytokines and cortisol in guinea-pigs. <i>Pflügers Archiv European Journal of Physiology</i> , 2002, 443, 411-417.	2.8	44
24	Immunohistochemical evidence of functional leptin receptor expression in neuronal and endothelial cells of the rat brain. <i>Neuroscience Letters</i> , 2006, 394, 105-110.	2.1	44
25	The transcription factor nuclear factor interleukin 6 mediates pro- and anti-inflammatory responses during LPS-induced systemic inflammation in mice. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 147-164.	4.1	44
26	Pyrexia, anorexia, adipsia, and depressed motor activity in rats during systemic inflammation induced by the Toll-like receptors-2 and -6 agonists MALP-2 and FSL-1. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006, 290, R180-R187.	1.8	43
27	Afferent nerves are involved in the febrile response to injection of LPS into artificial subcutaneous chambers in guinea pigs. <i>Physiology and Behavior</i> , 2000, 71, 305-313.	2.1	42
28	The putative JAK-STAT inhibitor AG490 exacerbates LPS-fever, reduces sickness behavior, and alters the expression of pro- and anti-inflammatory genes in the rat brain. <i>Neuropharmacology</i> , 2013, 71, 98-111.	4.1	40
29	Interleukin-6 mediates lipopolysaccharide-induced nuclear STAT3 translocation in astrocytes of rat sensory circumventricular organs. <i>Brain Research</i> , 2003, 980, 151-155.	2.2	37
30	Inhibition of nitric oxide synthase results in a suppression of interleukin-1 β -induced fever in rats. <i>Life Sciences</i> , 1998, 62, PL345-PL350.	4.3	36
31	Leptin is involved in age-dependent changes in response to systemic inflammation in the rat. <i>Brain, Behavior, and Immunity</i> , 2014, 36, 128-138.	4.1	35
32	Fever induction by localized subcutaneous inflammation in guinea pigs: the role of cytokines and prostaglandins. <i>Journal of Applied Physiology</i> , 2003, 94, 1395-1402.	2.5	34
33	Tumor necrosis factor- α , interleukin-1 β and nitric oxide induce calcium transients in distinct populations of cells cultured from the rat area postrema. <i>Journal of Neuroimmunology</i> , 2009, 206, 44-51.	2.3	34
34	Molecular Aspects of Fever and Hyperthermia. <i>Immunology and Allergy Clinics of North America</i> , 2009, 29, 229-245.	1.9	33
35	Activation of the inflammatory transcription factor nuclear factor interleukin-6 during inflammatory and psychological stress in the brain. <i>Journal of Neuroinflammation</i> , 2013, 10, 140.	7.2	33
36	Modulatory effects of vagal stimulation on neurophysiological parameters and the cellular immune response in the rat brain during systemic inflammation. <i>Intensive Care Medicine Experimental</i> , 2016, 4, 19.	1.9	32

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37	Localized vs. systemic inflammation in guinea pigs: a role for prostaglandins at distinct points of the fever induction pathways?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005, 289, R340-R347.	1.8	31
38	Critical role for peripherally-derived interleukin-10 in mediating the thermoregulatory manifestations of fever and hypothermia in severe forms of lipopolysaccharide-induced inflammation. <i>Pflugers Archiv European Journal of Physiology</i> , 2014, 466, 1451-1466.	2.8	31
39	Lack of cross tolerance between LPS and muramyl dipeptide in induction of circulating TNF- α and IL-6 in guinea pigs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1997, 273, R1529-R1533.	1.8	30
40	Fever and production of cytokines in response to repeated injections of muramyl dipeptide in guinea-pigs. <i>Pflugers Archiv European Journal of Physiology</i> , 1997, 434, 525-533.	2.8	28
41	Cylindromatosis mediates neuronal cell death in vitro and in vivo. <i>Cell Death and Differentiation</i> , 2018, 25, 1394-1407.	11.2	28
42	STAT3 and COX-2 activation in the guinea-pig brain during fever induced by the Toll-like receptor-3 agonist polyinosinic:polycytidylic acid. <i>Cell and Tissue Research</i> , 2007, 328, 549-561.	2.9	27
43	Effects of prostaglandin E2 on cells cultured from the rat organum vasculosum laminae terminalis and median preoptic nucleus. <i>Neuroscience</i> , 2016, 313, 23-35.	2.3	27
44	Inflammatory cytokine and C-reactive protein concentrations in dogs with systemic inflammatory response syndrome. <i>Journal of Veterinary Emergency and Critical Care</i> , 2018, 28, 9-19.	1.1	27
45	Primary Cultures from Rat Dorsal Root Ganglia: Responses of Neurons and Glial Cells to Somatosensory or Inflammatory Stimulation. <i>Neuroscience</i> , 2018, 394, 1-13.	2.3	23
46	Alteration of Endotoxin Fever and Release of Arginine Vasopressin by Dehydration in the Guinea Pig. <i>Neuroendocrinology</i> , 1992, 56, 680-686.	2.5	22
47	Macrophage-activating lipopeptide-2 (MALP-2) induces a localized inflammatory response in rats resulting in activation of brain sites implicated in fever. <i>Brain Research</i> , 2008, 1205, 36-46.	2.2	20
48	CCL3/MIP-1 α is not involved in the LPS-induced fever and its pyrogenic activity depends on CRF. <i>Brain Research</i> , 2009, 1269, 54-60.	2.2	20
49	Is interleukin-6 the necessary pyrogenic cytokine?. <i>Journal of Thermal Biology</i> , 2004, 29, 383-389.	2.5	19
50	The viral mimetic polyinosinic:polycytidylic acid (poly I:C) induces cellular responses in primary cultures from rat brain sites with an incomplete blood-brain barrier. <i>Neuroscience Letters</i> , 2012, 530, 64-68.	2.1	19
51	Fever induction by systemic stimulation with macrophage-activating lipopeptide-2 depends upon TLR2 but not CD36. <i>Innate Immunity</i> , 2012, 18, 541-559.	2.4	18
52	Characterization of the febrile response induced by fibroblast-stimulating lipopeptide-1 in guinea pigs. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R152-R161.	1.8	17
53	Interleukin-10 modulates the synthesis of inflammatory mediators in the sensory circumventricular organs: implications for the regulation of fever and sickness behaviors. <i>Journal of Neuroinflammation</i> , 2013, 10, 22.	7.2	16
54	Increased CSF aquaporin-4, and interleukin-6 levels in dogs with idiopathic communicating internal hydrocephalus and a decrease after ventriculo-peritoneal shunting. <i>Fluids and Barriers of the CNS</i> , 2016, 13, 12.	5.0	16

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55	Body temperature, behavior, and plasma cortisol changes induced by chronic infusion of <i>Staphylococcus aureus</i> in goats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2004, 287, R863-R869.	1.8	14
56	Peripheral and central cyclooxygenase (COX) products may contribute to the manifestation of brain-controlled sickness responses during localized inflammation induced by macrophage-activating lipopeptide-2 (MALP-2). <i>Neuroscience Letters</i> , 2010, 479, 107-111.	2.1	14
57	Age-Dependent Changes of Adipokine and Cytokine Secretion From Rat Adipose Tissue by Endogenous and Exogenous Toll-Like Receptor Agonists. <i>Frontiers in Immunology</i> , 2020, 11, 1800.	4.8	14
58	Prostaglandin D2 modulates calcium signals induced by prostaglandin E2 in neurons of rat dorsal root ganglia. <i>Neuroscience Letters</i> , 2015, 597, 159-163.	2.1	13
59	Age Dependent Hypothalamic and Pituitary Responses to Novel Environment Stress or Lipopolysaccharide in Rats. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 55.	2.0	12
60	LPS Primes Brain Responsiveness to High Mobility Group Box-1 Protein. <i>Pharmaceuticals</i> , 2021, 14, 558.	3.8	12
61	The Role of Local Induction of Tumor Necrosis Factor by LPS within a Subcutaneous Air Pouch in the Development of a Febrile Response in Guinea Pigs. <i>NeuroImmunoModulation</i> , 2000, 7, 169-176.	1.8	11
62	The central pyrogenic action of interleukin-6 is related to nuclear translocation of STAT3 in the anteroventral preoptic area of the rat brain. <i>Journal of Thermal Biology</i> , 2001, 26, 299-305.	2.5	11
63	Chemokine ligand (CCL)-3 promotes an integrated febrile response when injected within pre-optic area (POA) of rats and induces calcium signaling in cells of POA microcultures but not TNF- $\hat{1}\pm$ or IL-6 synthesis. <i>Brain, Behavior, and Immunity</i> , 2013, 34, 120-129.	4.1	11
64	Changes of abdominal temperature and circulating levels of cortisol and interleukin-6 in response to intra-arterial infusions of tumor necrosis factor- $\hat{1}\pm$ or tumor necrosis factor- $\hat{1}^2$ in guinea pigs. <i>European Journal of Pharmacology</i> , 1997, 334, 249-254.	3.5	10
65	The relevance of kalikrein-kinin system via activation of B 2 receptor in LPS-induced fever in rats. <i>Neuropharmacology</i> , 2017, 126, 84-96.	4.1	10
66	Effects of gabapentinoids on responses of primary cultures from rat dorsal root ganglia to inflammatory or somatosensory stimuli. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2020, 31, .	1.3	10
67	Intraperitoneal and subcutaneous injections of the TLR9 agonist ODN 1668 in rats: Brain inflammatory responses are related to peripheral IL-6 rather than interferons. <i>Journal of Neuroimmunology</i> , 2014, 277, 105-117.	2.3	9
68	Neurons and astrocytes of the chicken hypothalamus directly respond to lipopolysaccharide and chicken interleukin-6. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2020, 190, 75-85.	1.5	9
69	Effects of thermal stimulation on neurons and astrocytes cultured from the rat median preoptic nucleus. <i>NeuroReport</i> , 2018, 29, 1468-1472.	1.2	8
70	Serum neuropeptide concentrations in cows with intrapartum uterine torsion. <i>Animal Reproduction Science</i> , 2018, 196, 193-196.	1.5	8
71	Visualizing and Profiling Lipids in the OVLT of Fat-1 and Wild Type Mouse Brains during LPS-Induced Systemic Inflammation Using AP-SMALDI MSI. <i>ACS Chemical Neuroscience</i> , 2019, 10, 4394-4406.	3.5	8
72	Manifestation of lipopolysaccharide-induced tolerance in neuro-glial primary cultures of the rat afferent somatosensory system. <i>Inflammation Research</i> , 2021, 70, 429-444.	4.0	8

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73	Antipyretic effect of central [Pyr1]apelin13 on LPS-induced fever in the rat. <i>Regulatory Peptides</i> , 2013, 184, 6-13.	1.9	7
74	Cytoglobin Attenuates Neuroinflammation in Lipopolysaccharide-Activated Primary Preoptic Area Cells via NF- κ B Pathway Inhibition. <i>Frontiers in Molecular Neuroscience</i> , 2019, 12, 307.	2.9	6
75	Mitochondrial pyruvate carrier as a key regulator of fever and neuroinflammation. <i>Brain, Behavior, and Immunity</i> , 2021, 92, 90-101.	4.1	6
76	The use of siRNA as a pharmacological tool to assess a role for the transcription factor NF-IL6 in the brain under <i>in vitro</i> and <i>in vivo</i> conditions during LPS-induced inflammatory stimulation. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2017, 28, 563-571.	1.3	5
77	Primary culture of the rat spinal dorsal horn: a tool to investigate the effects of inflammatory stimulation on the afferent somatosensory system. <i>Pflügers Archiv European Journal of Physiology</i> , 2020, 472, 1769-1782.	2.8	5
78	Thermoregulatory vasomotor reactions during endotoxin fever in guinea pigs. <i>Journal of Thermal Biology</i> , 1995, 20, 431-436.	2.5	4
79	Circulating and broncho-alveolar interleukin-6 in relation to body temperature in an experimental model of bovine <i>Chlamydia psittaci</i> infection. <i>PLoS ONE</i> , 2017, 12, e0189321.	2.5	4
80	Neuroinflammation in Primary Cultures of the Rat Spinal Dorsal Horn Is Attenuated in the Presence of Adipose Tissue-Derived Medicinal Signalling Cells (AdMSCs) in a Co-cultivation Model. <i>Molecular Neurobiology</i> , 2022, 59, 475-494.	4.0	4
81	Inflammation, fever, and body temperature under febrile conditions. <i>Journal of Basic and Clinical Physiology and Pharmacology</i> , 2017, 28, 519-520.	1.3	3
82	Febrile and cortisol responses induced in guinea pigs by localized peripheral inflammatory stimulation. <i>Journal of Thermal Biology</i> , 2001, 26, 319-324.	2.5	2
83	A paradoxical role for alarin in the nervous control of energy homeostasis and thermoregulation: orexigenic but hypermetabolic. <i>Temperature</i> , 2015, 2, 49-50.	3.0	2
84	Microbubble-mediated sonothrombolysis with BR38 of a venous full blood thrombus in a rat embolic stroke model. <i>Annals of Translational Medicine</i> , 2021, 9, 1061-1061.	1.7	2
85	Sensitization of primary cultures from rat dorsal root ganglia with lipopolysaccharide (LPS) requires a robust inflammatory response. <i>Inflammation Research</i> , 2022, 71, 187-190.	4.0	2
86	Who is the gatekeeper to let inflammation enter the brain? A concerted action of endothelial and perivascular cells. <i>Brain, Behavior, and Immunity</i> , 2015, 48, 29-30.	4.1	1
87	Eating too much fat inflames the brain: This may make you hot and anxious. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 14-15.	4.1	1
88	Association of bovine uterine involution disturbances with serum neuropeptide concentrations. <i>Veterinary World</i> , 2020, 13, 1854-1857.	1.7	1
89	SK-Channel Activation Alters Peripheral Metabolic Pathways in Mice, but Not Lipopolysaccharide-Induced Fever or Inflammation. <i>Journal of Inflammation Research</i> , 2022, Volume 15, 509-531.	3.5	1
90	Gabapentinoids Suppress Lipopolysaccharide-Induced Interleukin-6 Production in Primary Cell Cultures of the Rat Spinal Dorsal Horn. <i>NeuroImmunoModulation</i> , 0, , 1-14.	1.8	1

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91	Fever: Mediators and Mechanisms. , 2017, , 861-890.		0
92	Serum Levels of Neuropeptides in Cows with Left Abomasal Displacement. Veterinary Sciences, 2018, 5, 103.	1.7	0