

# Lorenz Hirt

## List of Publications by Year in descending order

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84  
papers

6,342  
citations

101543

36  
h-index

64796

79  
g-index

94  
all docs

94  
docs citations

94  
times ranked

6885  
citing authors

#	ARTICLE	IF	CITATIONS
1	Carotid artery stenting compared with endarterectomy in patients with symptomatic carotid stenosis (International Carotid Stenting Study): an interim analysis of a randomised controlled trial. <i>Lancet, The</i> , 2010, 375, 985-997.	13.7	1,135
2	A peptide inhibitor of c-Jun N-terminal kinase protects against excitotoxicity and cerebral ischemia. <i>Nature Medicine</i> , 2003, 9, 1180-1186.	30.7	649
3	Intrathecal delivery of CNTF using encapsulated genetically modified xenogeneic cells in amyotrophic lateral sclerosis patients. <i>Nature Medicine</i> , 1996, 2, 696-699.	30.7	449
4	Long-term outcomes after stenting versus endarterectomy for treatment of symptomatic carotid stenosis: the International Carotid Stenting Study (ICSS) randomised trial. <i>Lancet, The</i> , 2015, 385, 529-538.	13.7	429
5	Mild Cerebral Ischemia Induces Loss of Cyclin-Dependent Kinase Inhibitors and Activation of Cell Cycle Machinery before Delayed Neuronal Cell Death. <i>Journal of Neuroscience</i> , 2001, 21, 5045-5053.	3.6	223
6	Time course of aquaporin expression after transient focal cerebral ischemia in mice. <i>Journal of Neuroscience Research</i> , 2006, 83, 1231-1240.	2.9	205
7	Neuroprotective Role of Lactate after Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 1780-1789.	4.3	197
8	Terutroban versus aspirin in patients with cerebral ischaemic events (PERFORM): a randomised, double-blind, parallel-group trial. <i>Lancet, The</i> , 2011, 377, 2013-2022.	13.7	185
9	Astrocyte-Specific Expression of Aquaporin-9 in Mouse Brain is Increased after Transient Focal Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 477-482.	4.3	174
10	Sniff nasal pressure: A sensitive respiratory test to assess progression of amyotrophic lateral sclerosis. <i>Annals of Neurology</i> , 1999, 46, 887-893.	5.3	161
11	D-JNK11, a Cell-Penetrating c-Jun-N-Terminal Kinase Inhibitor, Protects Against Cell Death in Severe Cerebral Ischemia. <i>Stroke</i> , 2004, 35, 1738-1743.	2.0	131
12	Protective Role of Early Aquaporin 4 Induction against Postischemic Edema Formation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 423-433.	4.3	127
13	Fas Receptor and Neuronal Cell Death after Spinal Cord Ischemia. <i>Journal of Neuroscience</i> , 2000, 20, 6879-6887.	3.6	125
14	Spinal Cord Ischemia. <i>Stroke</i> , 2000, 31, 208-213.	2.0	117
15	Gene Therapy for Amyotrophic Lateral Sclerosis (ALS) Using a Polymer Encapsulated Xenogenic Cell Line Engineered to Secrete hCNTF. <i>Lausanne University Medical School, Lausanne, Switzerland. Human Gene Therapy</i> , 1996, 7, 851-860.	2.7	108
16	New Evidence of Neuroprotection by Lactate after Transient Focal Cerebral Ischaemia: Extended Benefit after Intracerebroventricular Injection and Efficacy of Intravenous Administration. <i>Cerebrovascular Diseases</i> , 2012, 34, 329-335.	1.7	106
17	Evolution of the Neurochemical Profile after Transient Focal Cerebral Ischemia in the Mouse Brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009, 29, 811-819.	4.3	86
18	Improved long-term outcome after transient cerebral ischemia in aquaporin-4 knockout mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 277-290.	4.3	84

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19	JNK inhibition and inflammation after cerebral ischemia. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 800-811.	4.1	80
20	Ischemic Brain Damage in Mice after Selectively Modifying BDNF or NT4 Gene Expression. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 139-144.	4.3	77
21	A Probable Dual Mode of Action for Both L- and D-Lactate Neuroprotection in Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 1561-1569.	4.3	77
22	Early mobilization out of bed after ischaemic stroke reduces severe complications but not cerebral blood flow: a randomized controlled pilot trial. <i>Clinical Rehabilitation</i> , 2012, 26, 451-459.	2.2	73
23	Rationale and Design of a Randomized, Double-Blind, Parallel-Group Study of Terutroban 30 mg/day versus Aspirin 100 mg/day in Stroke Patients: The Prevention of Cerebrovascular and Cardiovascular Events of Ischemic Origin with Terutroban in Patients with a History of Ischemic Stroke or Transient Ischemic Attack (PERFORM) Study. <i>Cerebrovascular Diseases</i> , 2009, 27, 509-518.	1.7	64
24	Spatio-temporal overview of neuroinflammation in an experimental mouse stroke model. <i>Scientific Reports</i> , 2019, 9, 507.	3.3	59
25	Effect of white-matter lesions on the risk of periprocedural stroke after carotid artery stenting versus endarterectomy in the International Carotid Stenting Study (ICSS): a prespecified analysis of data from a randomised trial. <i>Lancet Neurology</i> , The, 2013, 12, 866-872.	10.2	56
26	Synergistic protective effect of caspase inhibitors and bFGF against brain injury induced by transient focal ischaemia. <i>British Journal of Pharmacology</i> , 2001, 133, 345-350.	5.4	55
27	Predictors of Stroke, Myocardial Infarction or Death within 30 Days of Carotid Artery Stenting: Results from the International Carotid Stenting Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2016, 51, 327-334.	1.5	54
28	Nitric oxide is involved in ischemia-induced apoptosis in brain: a study in neuronal nitric oxide synthase null mice. <i>Neuroscience</i> , 2001, 105, 79-86.	2.3	52
29	Hypertonic Lactate to Improve Cerebral Perfusion and Glucose Availability After Acute Brain Injury*. <i>Critical Care Medicine</i> , 2018, 46, 1649-1655.	0.9	49
30	The JNK Inhibitor XG-102 Protects from Ischemic Damage with Delayed Intravenous Administration Also in the Presence of Recombinant Tissue Plasminogen Activator. <i>Cerebrovascular Diseases</i> , 2008, 26, 360-366.	1.7	48
31	Controlled Contrast Transcranial Doppler and Arterial Blood Gas Analysis to Quantify Shunt Through Patent Foramen Ovale. <i>Stroke</i> , 2004, 35, 859-863.	2.0	45
32	c-Jun N-Terminal Kinase Pathway Inhibition in Intracerebral Hemorrhage. <i>Cerebrovascular Diseases</i> , 2010, 29, 564-570.	1.7	40
33	Early Predictive Biomarkers for Lesion After Transient Cerebral Ischemia. <i>Stroke</i> , 2011, 42, 799-805.	2.0	40
34	Incidence, Impact, and Predictors of Cranial Nerve Palsy and Haematoma Following Carotid Endarterectomy in the International Carotid Stenting Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2014, 48, 498-504.	1.5	40
35	Thrombin in ischemic neuronal death. <i>Experimental Neurology</i> , 2006, 198, 199-203.	4.1	39
36	Involvement of caveolin-1 in neurovascular unit remodeling after stroke: Effects on neovascularization and astrogliosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 163-176.	4.3	39

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37	Homer1 Scaffold Proteins Govern Ca <sup>2+</sup> Dynamics in Normal and Reactive Astrocytes. <i>Cerebral Cortex</i> , 2017, 27, 2365-2384.	2.9	37
38	Risk Factors For Stroke, Myocardial Infarction, or Death Following Carotid Endarterectomy: Results From the International Carotid Stenting Study. <i>European Journal of Vascular and Endovascular Surgery</i> , 2015, 50, 688-694.	1.5	36
39	Sympathetic activity and early mobilization in patients in intensive and intermediate care with severe brain injuries: a preliminary prospective randomized study. <i>BMC Neurology</i> , 2016, 16, 169.	1.8	35
40	Cell-specific modulation of monocarboxylate transporter expression contributes to the metabolic reprogramming taking place following cerebral ischemia. <i>Neuroscience</i> , 2016, 317, 108-120.	2.3	35
41	Sniff nasal pressure: a sensitive respiratory test to assess progression of amyotrophic lateral sclerosis. <i>Annals of Neurology</i> , 1999, 46, 887-93.	5.3	35
42	Coagulation factor Xa activates thrombin in ischemic neural tissue. <i>Journal of Neurochemistry</i> , 2009, 111, 828-836.	3.9	34
43	Spinal cord lesion after long-term intrathecal clonidine and bupivacaine treatment for the management of intractable pain. <i>Pain</i> , 2004, 109, 189-194.	4.2	31
44	Neurotrophin-3 Promotes Cell Death Induced in Cerebral Ischemia, Oxygen-Glucose Deprivation, and Oxidative Stress: Possible Involvement of Oxygen Free Radicals. <i>Neurobiology of Disease</i> , 2002, 9, 24-37.	4.4	28
45	Hypoxia/hypoglycemia preconditioning prevents the loss of functional electrical activity in organotypic slice cultures. <i>Brain Research</i> , 2005, 1051, 117-122.	2.2	28
46	Evaluating the potential of hyperpolarised [1- <sup>13</sup> C] L-lactate as a neuroprotectant metabolic biosensor for stroke. <i>Scientific Reports</i> , 2020, 10, 5507.	3.3	26
47	Nucleotide sequence of human papillomavirus (HPV) type 41: an unusual HPV type without a typical E2 binding site consensus sequence. <i>Virus Research</i> , 1991, 18, 179-189.	2.2	25
48	Caveolin-1 Regulates Perivascular Aquaporin-4 Expression After Cerebral Ischemia. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 371.	3.7	22
49	High-resolution spatial mapping of changes in the neurochemical profile after focal ischemia in mice. <i>NMR in Biomedicine</i> , 2012, 25, 247-254.	2.8	21
50	Non-Invasive Diagnostic Biomarkers for Estimating the Onset Time of Permanent Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1848-1855.	4.3	20
51	Thrombin-induced ischemic tolerance is prevented by inhibiting c-jun N-terminal kinase. <i>Brain Research</i> , 2007, 1148, 217-225.	2.2	19
52	Increase of aquaporin 9 expression in astrocytes participates in astrogliosis. <i>Journal of Neuroscience Research</i> , 2018, 96, 194-206.	2.9	19
53	Ragged-red fibers and complex I deficiency in a neonate With arthrogyrosis congenita. <i>Pediatric Neurology</i> , 1997, 17, 249-251.	2.1	15
54	Endogenous Protease Nexin-1 Protects against Cerebral Ischemia. <i>International Journal of Molecular Sciences</i> , 2013, 14, 16719-16731.	4.1	15

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55	Extended preclinical investigation of lactate for neuroprotection after ischemic stroke. <i>Clinical and Translational Neuroscience</i> , 2020, 4, 2514183X2090457.	0.9	15
56	Stroke Damage in Mice after Knocking the Neutrophin-4 Gene into the Brain-Derived Neurotrophic Factor Locus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, 23, 150-153.	4.3	13
57	Cerebrospinal fluid antimicrobial antibodies in Alzheimer disease: A putative marker of an ongoing inflammatory process. <i>Experimental Gerontology</i> , 2007, 42, 355-363.	2.8	13
58	Thromboxane Prostaglandin Receptor Antagonist and Carotid Atherosclerosis Progression in Patients With Cerebrovascular Disease of Ischemic Origin. <i>Stroke</i> , 2014, 45, 2348-2353.	2.0	11
59	Activation of c-Jun in the nuclei of neurons of the CA1 in thrombin preconditioning occurs via PAR1. <i>Journal of Neuroscience Research</i> , 2010, 88, 1338-1347.	2.9	10
60	Aquaporins in neurological disorders. <i>Clinical and Translational Neuroscience</i> , 2018, 2, 2514183X1775290.	0.9	10
61	Risk factor impact on blood flow velocities and clinical outcomes of stented cervical and intracranial stenoses: preliminary observations. <i>Clinical Neurology and Neurosurgery</i> , 2012, 114, 922-929.	1.4	9
62	Neuroprotection by inhibiting the c-Jun N-terminal kinase pathway after cerebral ischemia occurs independently of interleukin-6 and keratinocyte-derived chemokine (KC/CXCL1) secretion. <i>Journal of Neuroinflammation</i> , 2012, 9, 76.	7.2	9
63	Asymptomatic High Flow Subclavian Steal in a Patient with Hemodialysis Access. <i>Journal of Vascular Access</i> , 2010, 11, 63-65.	0.9	8
64	The HD Mutation Does Not Alter Neuronal Death in the Striatum of HdhQ92 Knock-in Mice after Mild Focal Ischemia. <i>Neurobiology of Disease</i> , 2002, 11, 147-154.	4.4	7
65	The effect of continuous positive airway pressure on total cerebral blood flow in healthy awake volunteers. <i>Sleep and Breathing</i> , 2013, 17, 289-296.	1.7	7
66	Hydroxycarboxylic Acid Receptor 1 and Neuroprotection in a Mouse Model of Cerebral Ischemia-Reperfusion. <i>Frontiers in Physiology</i> , 2021, 12, 689239.	2.8	7
67	Lactate Neuroprotection against Transient Ischemic Brain Injury in Mice Appears Independent of HCAR1 Activation. <i>Metabolites</i> , 2022, 12, 465.	2.9	7
68	Predictors of the pulsatility index in the middle cerebral artery of acute stroke patients. <i>Scientific Reports</i> , 2020, 10, 17110.	3.3	6
69	Stroke Damage in Mice After Knocking the Neutrophin-4 Gene Into the Brain-Derived Neurotrophic Factor Locus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2003, , 150-153.	4.3	5
70	Apoptosis and cerebral ischemia. <i>Advances in Cell Aging and Gerontology</i> , 2001, 6, 137-167.	0.1	4
71	Bilateral carotid thrombus formation after strenuous coughing. <i>European Journal of Neurology</i> , 2009, 16, e122-e123.	3.3	4
72	Preconditioning by Preceding Ischemic Cerebrovascular Events. <i>Journal of the American Heart Association</i> , 2021, 10, e020129.	3.7	4

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73	Large deletion (7.2 kb) of mitochondrial DNA with novel boundaries in a case of progressive external ophthalmoplegia.. Journal of Neurology, Neurosurgery and Psychiatry, 1996, 61, 422-423.	1.9	3
74	Ocular mitochondrial myopathy evolving late in life into a disabling proximal myopathy associated with the mitochondrial DNA 3243 A to G mutation. Journal of Neurology, 2001, 248, 332-333.	3.6	3
75	An episode mimicking a versive seizure in acute bilateral pontine stroke. Journal of Clinical Neuroscience, 2011, 18, 1141-1142.	1.5	3
76	Metabolic fingerprints discriminating severity of acute ischemia using in vivo high-field 1 H magnetic resonance spectroscopy. Journal of Neurochemistry, 2020, 152, 252-262.	3.9	2
77	MELAS and other mitochondrial disorders. , 0, , 149-154.		2
78	The effect of continuous positive airway pressure on total cerebral blood flow in 23 healthy awake volunteers. , 2011, , .		1
79	Strokes and TIAs during and after Carotid Artery Doppler: Cause or Coincidence?. Ultrasound in Medicine and Biology, 2015, 41, 418-422.	1.5	1
80	Time course of edema formation and brain aquaporin expression after transient focal cerebral ischemia in mice. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S259-S259.	4.3	1
81	Experimental findings with important clinical implications for stroke treatment. , 2003, , 269-282.		0
82	The Effect of Continuous Positive Airway Pressure on Total Cerebral Blood Flow in 23 Healthy Awake Volunteers. , 2011, , .		0
83	Abstract TP97: Improved Long-Term Outcome after Transient Cerebral Ischemia in Aquaporin-4 Knockout Mice. Stroke, 2013, 44, .	2.0	0
84	Sympathetic Activity and Early Mobilization in Patients with Severe Brain Injuries: A Preliminary Randomized Study. Journal of Neurological Surgery, Part A: Central European Neurosurgery, 2015, 76, .	0.8	0