# **Ulrich Dirnagl**

#### List of Publications by Citations

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#	Paper	IF	Citations
386	Pathobiology of ischaemic stroke: an integrated view. <i>Trends in Neurosciences</i> , <b>1999</b> , 22, 391-7	13.3	3094
385	Near infrared spectroscopy (NIRS): a new tool to study hemodynamic changes during activation of brain function in human adults. <i>Neuroscience Letters</i> , <b>1993</b> , 154, 101-4	3.3	827
384	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000410	9.7	757
383	Ischemic tolerance and endogenous neuroprotection. <i>Trends in Neurosciences</i> , <b>2003</b> , 26, 248-54	13.3	686
382	Stroke-induced immunodeficiency promotes spontaneous bacterial infections and is mediated by sympathetic activation reversal by poststroke T helper cell type 1-like immunostimulation. <i>Journal of Experimental Medicine</i> , <b>2003</b> , 198, 725-36	16.6	672
381	Central nervous system injury-induced immune deficiency syndrome. <i>Nature Reviews Neuroscience</i> , <b>2005</b> , 6, 775-86	13.5	631
380	Neuroprotection in acute stroke: targeting excitotoxicity, oxidative and nitrosative stress, and inflammation. <i>Lancet Neurology, The</i> , <b>2016</b> , 15, 869-881	24.1	551
379	Biomedical research: increasing value, reducing waste. <i>Lancet, The</i> , <b>2014</b> , 383, 101-4	40	527
378	Targeting gene-modified hematopoietic cells to the central nervous system: use of green fluorescent protein uncovers microglial engraftment. <i>Nature Medicine</i> , <b>2001</b> , 7, 1356-61	50.5	517
377	Preconditioning and tolerance against cerebral ischaemia: from experimental strategies to clinical use. <i>Lancet Neurology, The</i> , <b>2009</b> , 8, 398-412	24.1	466
376	Continuous measurement of cerebral cortical blood flow by laser-Doppler flowmetry in a rat stroke model. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1989</b> , 9, 589-96	7.3	425
375	Cortical spreading ischaemia is a novel process involved in ischaemic damage in patients with aneurysmal subarachnoid haemorrhage. <i>Brain</i> , <b>2009</b> , 132, 1866-81	11.2	415
374	Erythropoietin is a paracrine mediator of ischemic tolerance in the brain: evidence from an in vitro model. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 10291-301	6.6	408
373	Estrogen increases bone marrow-derived endothelial progenitor cell production and diminishes neointima formation. <i>Circulation</i> , <b>2003</b> , 107, 3059-65	16.7	391
372	Bone marrow-derived progenitor cells modulate vascular reendothelialization and neointimal formation: effect of 3-hydroxy-3-methylglutaryl coenzyme a reductase inhibition. <i>Arteriosclerosis, Thrombosis, and Vascular Biology,</i> <b>2002</b> , 22, 1567-72	9.4	381
371	Vascular imprints of neuronal activity: relationships between the dynamics of cortical blood flow, oxygenation, and volume changes following sensory stimulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1997</b> , 94, 14826-31	11.5	368
370	Simultaneous recording of cerebral blood oxygenation changes during human brain activation by magnetic resonance imaging and near-infrared spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1996</b> , 16, 817-26	7.3	365

369	Stroke-induced immunodepression: experimental evidence and clinical relevance. Stroke, 2007, 38, 770-	<b>3</b> 6.7	354
368	Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000411	9.7	352
367	Stroke and the immune system: from pathophysiology to new therapeutic strategies. <i>Lancet Neurology, The</i> , <b>2011</b> , 10, 471-80	24.1	316
366	Decrease in parietal cerebral hemoglobin oxygenation during performance of a verbal fluency task in patients with AlzheimerN disease monitored by means of near-infrared spectroscopy (NIRS)correlation with simultaneous rCBF-PET measurements. <i>Brain Research</i> , <b>1997</b> , 755, 293-303	3.7	310
365	Atorvastatin upregulates type III nitric oxide synthase in thrombocytes, decreases platelet activation, and protects from cerebral ischemia in normocholesterolemic mice. <i>Stroke</i> , <b>2000</b> , 31, 2442-9	6.7	310
364	Pericytes in capillaries are contractile in vivo, but arterioles mediate functional hyperemia in the mouse brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 22290-5	11.5	298
363	Bench to bedside: the quest for quality in experimental stroke research. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2006</b> , 26, 1465-78	7.3	274
362	Capillary perfusion of the rat brain cortex. An in vivo confocal microscopy study. <i>Circulation Research</i> , <b>1994</b> , 75, 55-62	15.7	253
361	Hypoxia-induced stroke tolerance in the mouse is mediated by erythropoietin. <i>Stroke</i> , <b>2003</b> , 34, 1981-6	6.7	252
360	Increased formation of reactive oxygen species after permanent and reversible middle cerebral artery occlusion in the rat. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1998</b> , 18, 196-205	7.3	247
359	Rosuvastatin, a new HMG-CoA reductase inhibitor, upregulates endothelial nitric oxide synthase and protects from ischemic stroke in mice. <i>Brain Research</i> , <b>2002</b> , 942, 23-30	3.7	245
358	Evidence for the efficacy of NXY-059 in experimental focal cerebral ischaemia is confounded by study quality. <i>Stroke</i> , <b>2008</b> , 39, 2824-9	6.7	241
357	Tolerance against ischemic neuronal injury can be induced by volatile anesthetics and is inducible NO synthase dependent. <i>Stroke</i> , <b>2002</b> , 33, 1889-98	6.7	239
356	Role of glial cells in cerebral ischemia. <i>Glia</i> , <b>2005</b> , 50, 281-6	9	237
355	Reprint: Good laboratory practice: preventing introduction of bias at the bench. <i>Stroke</i> , <b>2009</b> , 29, 221-3	6.7	236
354	Nitric oxide scavenging by hemoglobin or nitric oxide synthase inhibition by N-nitro-L-arginine induces cortical spreading ischemia when K+ is increased in the subarachnoid space. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1998</b> , 18, 978-90	7.3	234
353	Pathophysiology of stroke: lessons from animal models. <i>Metabolic Brain Disease</i> , <b>2004</b> , 19, 151-67	3.9	231
352	Mechanisms of stroke protection by physical activity. <i>Annals of Neurology</i> , <b>2003</b> , 54, 582-90	9.4	230

351	DNA methyltransferase contributes to delayed ischemic brain injury. <i>Journal of Neuroscience</i> , <b>2000</b> , 20, 3175-81	6.6	230
350	Attenuated stroke severity after prodromal TIA: a role for ischemic tolerance in the brain?. <i>Stroke</i> , <b>1999</b> , 30, 1851-4	6.7	226
349	Neogenesis of cerebellar Purkinje neurons from gene-marked bone marrow cells in vivo. <i>Journal of Cell Biology</i> , <b>2001</b> , 155, 733-8	7-3	221
348	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2020</b> , 40, 1769-1777	7.3	220
347	Neuroprotective role of astrocytes in cerebral ischemia: focus on ischemic preconditioning. <i>Glia</i> , <b>2005</b> , 50, 307-20	9	216
346	Stroke-induced immunodepression and post-stroke infections: lessons from the preventive antibacterial therapy in stroke trial. <i>Neuroscience</i> , <b>2009</b> , 158, 1184-93	3.9	208
345	Improving outcome after stroke: overcoming the translational roadblock. <i>Cerebrovascular Diseases</i> , <b>2008</b> , 25, 268-78	3.2	206
344	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> , <b>2001</b> , 21, 5045-53	6.6	205
343	Role of nitric oxide in the coupling of cerebral blood flow to neuronal activation in rats. <i>Neuroscience Letters</i> , <b>1993</b> , 149, 43-6	3.3	202
342	Angiotensin AT2 receptor protects against cerebral ischemia-induced neuronal injury. <i>FASEB Journal</i> , <b>2005</b> , 19, 617-9	0.9	201
341	Physical activity improves long-term stroke outcome via endothelial nitric oxide synthase-dependent augmentation of neovascularization and cerebral blood flow. <i>Circulation Research</i> , <b>2006</b> , 99, 1132-40	15.7	197
340	Cerebral oxygenation changes in response to motor stimulation. <i>Journal of Applied Physiology</i> , <b>1996</b> , 81, 1174-83	3.7	196
339	Products of hemolysis in the subarachnoid space inducing spreading ischemia in the cortex and focal necrosis in rats: a model for delayed ischemic neurological deficits after subarachnoid hemorrhage?. <i>Journal of Neurosurgery</i> , <b>2000</b> , 93, 658-66	3.2	195
338	Empirical evidence of bias in the design of experimental stroke studies: a metaepidemiologic approach. <i>Stroke</i> , <b>2008</b> , 39, 929-34	6.7	185
337	Preventive antibacterial therapy in acute ischemic stroke: a randomized controlled trial. <i>PLoS ONE</i> , <b>2008</b> , 3, e2158	3.7	184
336	Desferrioxamine induces delayed tolerance against cerebral ischemia in vivo and in vitro. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2002</b> , 22, 520-5	7.3	170
335	Results of a preclinical randomized controlled multicenter trial (pRCT): Anti-CD49d treatment for acute brain ischemia. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 299ra121	17.5	167
334	Neuroprotective effects of atorvastatin against glutamate-induced excitotoxicity in primary cortical neurones. <i>Journal of Neurochemistry</i> , <b>2005</b> , 92, 1386-98	6	165

333	Endothelin-1 potently induces Leðis cortical spreading depression in vivo in the rat: a model for an endothelial trigger of migrainous aura?. <i>Brain</i> , <b>2002</b> , 125, 102-12	11.2	160
332	Serial analysis of gene expression identifies metallothionein-II as major neuroprotective gene in mouse focal cerebral ischemia. <i>Journal of Neuroscience</i> , <b>2002</b> , 22, 5879-88	6.6	158
331	The neurovascular unit as a selective barrier to polymorphonuclear granulocyte (PMN) infiltration into the brain after ischemic injury. <i>Acta Neuropathologica</i> , <b>2013</b> , 125, 395-412	14.3	156
330	Cellular immunodepression preceding infectious complications after acute ischemic stroke in humans. <i>Cerebrovascular Diseases</i> , <b>2008</b> , 25, 50-8	3.2	154
329	Stroke propagates bacterial aspiration to pneumonia in a model of cerebral ischemia. <i>Stroke</i> , <b>2006</b> , 37, 2607-12	6.7	154
328	Immune surveillance of mouse brain perivascular spaces by blood-borne macrophages. <i>European Journal of Neuroscience</i> , <b>2001</b> , 14, 1651-8	3.5	152
327	Autoregulation of cerebral blood flow in experimental focal brain ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1990</b> , 10, 327-36	7-3	152
326	Increased hypoxic tolerance by chemical inhibition of oxidative phosphorylation: "chemical preconditioning". <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1997</b> , 17, 257-64	7.3	149
325	Human cerebrospinal fluid monoclonal N-methyl-D-aspartate receptor autoantibodies are sufficient for encephalitis pathogenesis. <i>Brain</i> , <b>2016</b> , 139, 2641-2652	11.2	148
324	Pathobiology of injury after stroke: the neurovascular unit and beyond. <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1268, 21-5	6.5	144
323	Stroke induced Sarcopenia: muscle wasting and disability after stroke. <i>International Journal of Cardiology</i> , <b>2013</b> , 170, 89-94	3.2	142
322	Withdrawal of statin treatment abrogates stroke protection in mice. <i>Stroke</i> , <b>2003</b> , 34, 551-7	6.7	140
321	Differential mechanisms of neuroprotection by 17 beta-estradiol in apoptotic versus necrotic neurodegeneration. <i>Journal of Neuroscience</i> , <b>2001</b> , 21, 2600-9	6.6	140
320	Essential role of interleukin-6 in post-stroke angiogenesis. <i>Brain</i> , <b>2012</b> , 135, 1964-80	11.2	139
319	Age dependency of changes in cerebral hemoglobin oxygenation during brain activation: a near-infrared spectroscopy study. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1995</b> , 15, 1103-8	7.3	138
318	Physical model for the spectroscopic analysis of cortical intrinsic optical signals. <i>Physics in Medicine and Biology</i> , <b>2000</b> , 45, 3749-64	3.8	137
317	Distinguishing between exploratory and confirmatory preclinical research will improve translation. <i>PLoS Biology</i> , <b>2014</b> , 12, e1001863	9.7	136
316	Respiratory chain inhibition induces tolerance to focal cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1999</b> , 19, 1229-37	7-3	135

315	Global cerebral ischemia in the rat: online monitoring of oxygen free radical production using chemiluminescence in vivo. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1995</b> , 15, 929-40	7.3	135
314	No evidence for early decrease in blood oxygenation in rat whisker cortex in response to functional activation. <i>NeuroImage</i> , <b>2001</b> , 13, 988-1001	7.9	133
313	Preventive antibacterial treatment improves the general medical and neurological outcome in a mouse model of stroke. <i>Stroke</i> , <b>2004</b> , 35, 2-6	6.7	131
312	Sulfonylureas improve outcome in patients with type 2 diabetes and acute ischemic stroke. <i>Stroke</i> , <b>2007</b> , 38, 2526-30	6.7	125
311	Endogenous neuroprotection: mitochondria as gateways to cerebral preconditioning?. <i>Neuropharmacology</i> , <b>2008</b> , 55, 334-44	5.5	121
310	Spinal cord injury-induced immune deficiency syndrome enhances infection susceptibility dependent on lesion level. <i>Brain</i> , <b>2016</b> , 139, 692-707	11.2	119
309	Depletion of Cultivatable Gut Microbiota by Broad-Spectrum Antibiotic Pretreatment Worsens Outcome After Murine Stroke. <i>Stroke</i> , <b>2016</b> , 47, 1354-63	6.7	119
308	Induction of tolerance in rat cortical neurons: hypoxic preconditioning. <i>FEBS Letters</i> , <b>1997</b> , 414, 117-21	3.8	116
307	Microvascular changes during the early phase of experimental bacterial meningitis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1990</b> , 10, 914-22	7.3	116
306	Ion changes in spreading ischaemia induce rat middle cerebral artery constriction in the absence of NO. <i>Brain</i> , <b>2005</b> , 128, 2042-51	11.2	115
305	ZK200775: a phosphonate quinoxalinedione AMPA antagonist for neuroprotection in stroke and trauma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 1096	0 <sup>-1</sup> 5 <sup>1.5</sup>	114
304	Pre- and post-treatment with MK-801 but not pretreatment alone reduces neocortical damage after focal cerebral ischemia in the rat. <i>Brain Research</i> , <b>1990</b> , 527, 62-8	3.7	108
303	Non-invasive functional mapping of the human motor cortex using near-infrared spectroscopy. <i>NeuroReport</i> , <b>1996</b> , 7, 1977-81	1.7	104
302	Assessment of Local Brain Activation. Advances in Experimental Medicine and Biology, 1997, 149-153	3.6	104
301	Modeling stroke in mice - middle cerebral artery occlusion with the filament model. <i>Journal of Visualized Experiments</i> , <b>2011</b> ,	1.6	100
300	The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>British Journal of Pharmacology</i> , <b>2020</b> , 177, 3617-3624	8.6	99
299	SUMO2/3 conjugation is an endogenous neuroprotective mechanism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2011</b> , 31, 2152-9	7.3	97
298	Turnover of rat brain perivascular cells. <i>Experimental Neurology</i> , <b>2001</b> , 168, 242-9	5.7	95

# (2004-2012)

297	Functional neurological recovery after spinal cord injury is impaired in patients with infections. <i>Brain</i> , <b>2012</b> , 135, 3238-50	11.2	94	
296	Body weight after stroke: lessons from the obesity paradox. <i>Stroke</i> , <b>2011</b> , 42, 3646-50	6.7	94	
295	Visualizing cell death in experimental focal cerebral ischemia: promises, problems, and perspectives. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2012</b> , 32, 213-31	7.3	93	
294	Improved reperfusion and neuroprotection by creatine in a mouse model of stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2007</b> , 27, 452-9	7.3	93	
293	Circulating monocytic cells infiltrate layers of anterograde axonal degeneration where they transform into microglia. <i>FASEB Journal</i> , <b>2005</b> , 19, 647-9	0.9	93	
292	Increased postischemic brain injury in mice deficient in uracil-DNA glycosylase. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 113, 1711-1721	15.9	91	
291	Results of the ICTuS 2 Trial (Intravascular Cooling in the Treatment of Stroke 2). Stroke, 2016, 47, 2888-	2 <b>69</b> 5	89	
290	IL-1lstimulates COX-2 dependent PGElsynthesis and CGRP release in rat trigeminal ganglia cells. <i>PLoS ONE</i> , <b>2011</b> , 6, e17360	3.7	89	
289	Induction of hypoxia inducible factor 1 by oxygen glucose deprivation is attenuated by hypoxic preconditioning in rat cultured neurons. <i>Neuroscience Letters</i> , <b>1998</b> , 254, 117-20	3.3	87	
288	Nitric oxide: a modulator, but not a mediator, of neurovascular coupling in rat somatosensory cortex. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>1999</b> , 277, H799-811	5.2	87	
287	Anti ICAM-1 (CD 54) monoclonal antibody reduces inflammatory changes in experimental bacterial meningitis. <i>Journal of Neuroimmunology</i> , <b>1995</b> , 63, 63-8	3.5	86	
286	Noninvasive assessment of changes in cytochrome-c oxidase oxidation in human subjects during visual stimulation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1999</b> , 19, 592-603	7.3	85	
285	Neurotoxicity mechanisms of thioether ecstasy metabolites. <i>Neuroscience</i> , <b>2007</b> , 146, 1743-57	3.9	84	
284	Effects of cerebral ischemia in mice lacking DNA methyltransferase 1 in post-mitotic neurons. <i>NeuroReport</i> , <b>2001</b> , 12, 3763-6	1.7	84	
283	Cerebrovascular vasodilation to extraluminal acidosis occurs via combined activation of ATP-sensitive and Ca2+-activated potassium channels. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2003</b> , 23, 1227-38	7-3	82	
282	A concerted appeal for international cooperation in preclinical stroke research. Stroke, <b>2013</b> , 44, 1754-6	5 <b>6</b> 6.7	81	
281	Acute pathophysiological processes after ischaemic and traumatic brain injury. <i>Bailliered Best Practice and Research in Clinical Anaesthesiology</i> , <b>2010</b> , 24, 495-509	4	79	
280	HMG-CoA reductase inhibition causes neurite loss by interfering with geranylgeranylpyrophosphate synthesis. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 24-32	6	79	

279	Hyperbaric oxygenation induced tolerance against focal cerebral ischemia in mice is strain dependent. <i>Brain Research</i> , <b>2000</b> , 871, 146-50	3.7	79
278	High prevalence of NMDA receptor IgA/IgM antibodies in different dementia types. <i>Annals of Clinical and Translational Neurology</i> , <b>2014</b> , 1, 822-32	5.3	78
277	Spinal cord injury-induced immunodeficiency is mediated by a sympathetic-neuroendocrine adrenal reflex. <i>Nature Neuroscience</i> , <b>2017</b> , 20, 1549-1559	25.5	76
276	The Hong Kong Principles for assessing researchers: Fostering research integrity. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000737	9.7	75
275	Non-resolving aspects of acute inflammation after spinal cord injury (SCI): indices and resolution plateau. <i>Brain Pathology</i> , <b>2011</b> , 21, 652-60	6	74
274	Neurovascular coupling in rat brain operates independent of hemoglobin deoxygenation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 757-68	7.3	74
273	Selective neuronal vulnerability following mild focal brain ischemia in the mouse. <i>Brain Pathology</i> , <b>2003</b> , 13, 452-64	6	74
272	Analysis of CO2 vasomotor reactivity and vessel diameter changes by simultaneous venous and arterial Doppler recordings. <i>Stroke</i> , <b>1999</b> , 30, 81-6	6.7	73
271	Neuronal gelsolin prevents apoptosis by enhancing actin depolymerization. <i>Molecular and Cellular Neurosciences</i> , <b>2004</b> , 25, 69-82	4.8	71
270	Ischemia Triggered by Red Blood Cell Products in the Subarachnoid Space Is Inhibited by Nimodipine Administration or Moderate Volume Expansion/Hemodilution in Rats. <i>Neurosurgery</i> , <b>2002</b> , 51, 1457-1467	3.2	71
269	Robust research: Institutions must do their part for reproducibility. <i>Nature</i> , <b>2015</b> , 525, 25-7	50.4	69
268	Pharmacological uncoupling of activation induced increases in CBF and CMRO2. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2010</b> , 30, 311-22	7.3	69
267	Nitric oxide modulates spreading depolarization threshold in the human and rodent cortex. <i>Stroke</i> , <b>2008</b> , 39, 1292-9	6.7	69
266	A fluorescence based non-radioactive electrophoretic mobility shift assay. <i>Journal of Biotechnology</i> , <b>2000</b> , 78, 163-70	3.7	69
265	Increased extracellular K+ concentration reduces the efficacy of N-methyl-D-aspartate receptor antagonists to block spreading depression-like depolarizations and spreading ischemia. <i>Stroke</i> , <b>2005</b> , 36, 1270-7	6.7	67
264	Ecstasy-induced cell death in cortical neuronal cultures is serotonin 2A-receptor-dependent and potentiated under hyperthermia. <i>Neuroscience</i> , <b>2006</b> , 139, 1069-81	3.9	67
263	Effect and reporting bias of RhoA/ROCK-blockade intervention on locomotor recovery after spinal cord injury: a systematic review and meta-analysis. <i>JAMA Neurology</i> , <b>2014</b> , 71, 91-9	17.2	66
262	Ischaemia triggered by spreading neuronal activation is inhibited by vasodilators in rats. <i>Journal of Physiology</i> , <b>2001</b> , 531, 515-26	3.9	66

# (2003-2016)

261	The Gut Microbiome as Therapeutic Target in Central Nervous System Diseases: Implications for Stroke. <i>Neurotherapeutics</i> , <b>2016</b> , 13, 762-774	6.4	65
260	Near-infrared fluorescence imaging with fluorescently labeled albumin: a novel method for non-invasive optical imaging of blood-brain barrier impairment after focal cerebral ischemia in mice. <i>Journal of Neuroscience Methods</i> , <b>2009</b> , 180, 126-32	3	63
259	Saccadic suppression induces focal hypooxygenation in the occipital cortex. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2000</b> , 20, 1103-10	7-3	63
258	Isoflurane induced prolonged protection against cerebral ischemia in mice: a redox sensitive mechanism?. <i>NeuroReport</i> , <b>2002</b> , 13, 1431-5	1.7	61
257	Blockade of nitric oxide synthesis in rats strongly attenuates the CBF response to extracellular acidosis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>1993</b> , 13, 535-9	7.3	61
256	Catabolic signaling and muscle wasting after acute ischemic stroke in mice: indication for a stroke-specific sarcopenia. <i>Stroke</i> , <b>2014</b> , 45, 3675-83	6.7	60
255	Olfactory Ensheathing Cell Transplantation in Experimental Spinal Cord Injury: Effect size and Reporting Bias of 62 Experimental Treatments: A Systematic Review and Meta-Analysis. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002468	9.7	60
254	In vivo near-infrared fluorescence imaging of matrix metalloproteinase activity after cerebral ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2009</b> , 29, 1284-92	7.3	59
253	CGRP release and c-fos expression within trigeminal nucleus caudalis of the rat following glyceryltrinitrate infusion. <i>Cephalalgia</i> , <b>2005</b> , 25, 225-36	6.1	59
252	Near infrared spectroscopy in the diagnosis of AlzheimerN disease. <i>Annals of the New York Academy of Sciences</i> , <b>1996</b> , 777, 22-9	6.5	59
251	Imaging of leukocytes within the rat brain cortex in vivo. <i>Microvascular Research</i> , <b>1991</b> , 42, 305-15	3.7	59
250	Laminar analysis of cerebral blood flow in cortex of rats by laser-Doppler flowmetry: a pilot study. Journal of Cerebral Blood Flow and Metabolism, <b>1997</b> , 17, 1326-36	7.3	58
249	Fucoidin, a polysaccharide inhibiting leukocyte rolling, attenuates inflammatory responses in experimental pneumococcal meningitis in rats. <i>Neuroscience Letters</i> , <b>1995</b> , 191, 1-4	3.3	58
248	Phosphatidylinositol 3-Akt-kinase-dependent phosphorylation of p21(Waf1/Cip1) as a novel mechanism of neuroprotection by glucocorticoids. <i>Journal of Neuroscience</i> , <b>2007</b> , 27, 4562-71	6.6	57
247	Distinct physiologic properties of microglia and blood-borne cells in rat brain slices after permanent middle cerebral artery occlusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2000</b> , 20, 1537-49	7.3	57
246	Long-term functional outcome in patients with acquired infections after acute spinal cord injury. <i>Neurology</i> , <b>2017</b> , 88, 892-900	6.5	55
245	Dysexecutive syndrome after mild cerebral ischemia? Mice learn normally but have deficits in strategy switching. <i>Stroke</i> , <b>2004</b> , 35, 191-5	6.7	55
244	Ischemia triggered by spreading neuronal activation is induced by endothelin-1 and hemoglobin in the subarachnoid space. <i>Annals of Neurology</i> , <b>2003</b> , 54, 591-8	9.4	55

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7²	Health tips for research groups. <i>Nature</i> , <b>2018</b> , 557, 302-304	50.4	5
72 71	Health tips for research groups. <i>Nature</i> , <b>2018</b> , 557, 302-304  Effect of 3,4-methylenedioxyamphetamine on dendritic spine dynamics in rat neocortical neuronsinvolvement of heat shock protein 27. <i>Brain Research</i> , <b>2011</b> , 1370, 43-52	50.4 3.7	5
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71	Effect of 3,4-methylenedioxyamphetamine on dendritic spine dynamics in rat neocortical neuronsinvolvement of heat shock protein 27. <i>Brain Research</i> , <b>2011</b> , 1370, 43-52  Standard operating procedures (SOP) in experimental stroke research: SOP for middle cerebral		5
71 70	Effect of 3,4-methylenedioxyamphetamine on dendritic spine dynamics in rat neocortical neuronsinvolvement of heat shock protein 27. <i>Brain Research</i> , <b>2011</b> , 1370, 43-52  Standard operating procedures (SOP) in experimental stroke research: SOP for middle cerebral artery occlusion in the mouse. <i>Nature Precedings</i> , <b>2010</b> ,  5,7-Dihydroxitryptamine toxicity to serotonergic neurons in serum free raphe cultures. <i>European</i>	3.7	5
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71 70 69 68	Effect of 3,4-methylenedioxyamphetamine on dendritic spine dynamics in rat neocortical neuronsinvolvement of heat shock protein 27. <i>Brain Research</i> , <b>2011</b> , 1370, 43-52  Standard operating procedures (SOP) in experimental stroke research: SOP for middle cerebral artery occlusion in the mouse. <i>Nature Precedings</i> , <b>2010</b> ,  5,7-Dihydroxitryptamine toxicity to serotonergic neurons in serum free raphe cultures. <i>European Journal of Pharmacology</i> , <b>2008</b> , 588, 232-8  Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological outcome after temporary middle cerebral artery occlusion (tMCAo). <i>F1000Research</i> , <b>2017</b> , 6, 1827  Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological	3.7 5.3 3.6	5 5 5
71 70 69 68	Effect of 3,4-methylenedioxyamphetamine on dendritic spine dynamics in rat neocortical neuronsinvolvement of heat shock protein 27. <i>Brain Research</i> , <b>2011</b> , 1370, 43-52  Standard operating procedures (SOP) in experimental stroke research: SOP for middle cerebral artery occlusion in the mouse. <i>Nature Precedings</i> , <b>2010</b> ,  5,7-Dihydroxitryptamine toxicity to serotonergic neurons in serum free raphe cultures. <i>European Journal of Pharmacology</i> , <b>2008</b> , 588, 232-8  Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological outcome after temporary middle cerebral artery occlusion (tMCAo). <i>F1000Research</i> , <b>2017</b> , 6, 1827  Stage 1 Registered Report: Effect of deficient phagocytosis on neuronal survival and neurological outcome after temporary middle cerebral artery occlusion (tMCAo). <i>F1000Research</i> , <b>2017</b> , 6, 1827  Complexities, Confounders, and Challenges in Experimental Stroke Research: A Checklist for	3.7 5.3 3.6 3.6	<ul><li>5</li><li>5</li><li>5</li><li>5</li><li>5</li></ul>

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57	The trigeminovascular system in bacterial meningitis. <i>Microscopy Research and Technique</i> , <b>2001</b> , 53, 188	<b>-92</b> 8	3
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44	Protocol for a systematic review of guidelines for rigour in the design, conduct and analysis of biomedical experiments involving laboratory animals <i>BMJ Open Science</i> , <b>2018</b> , 2, e000004	4.6	2
43	Wisdom of the expert crowd prediction of response for 3 neurology randomized trials. <i>Neurology</i> , <b>2020</b> , 95, e488-e498	6.5	1
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41	Standard operating procedures (SOP) in experimental stroke research: SOP for middle cerebral artery occlusion in the mouse. <i>Nature Precedings</i> , <b>2009</b> ,		1
40	Neuronal activation induced changes in microcirculatory haemoglobin oxygenation: to dip or not to dip. <i>International Congress Series</i> , <b>2002</b> , 1235, 137-144		1
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35	Cerebral Blood Flow, Hemoglobin Oxygenation, and Water Diffusion Changes During Stroke: Fingerprinting with Near-Infrared Spectroscopy and MRI <b>2001</b> , 232-240		1
34	Preclinical research: Meet patients to sharpen up research. <i>Nature</i> , <b>2017</b> , 551, 300	50.4	1
33	Allosteric release of nitric oxide from hemoglobin does not mediate neurovascular coupling. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2005</b> , 25, S207-S207	7.3	1
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28	External validity in translational biomedicine: understanding the conditions enabling the cause to have an effect <i>EMBO Molecular Medicine</i> , <b>2021</b> , e14334	12	1

27	Die Bedeutung des intestinalen Mikrobioms beim ischlischen Schlaganfall. <i>Aktuelle Neurologie</i> , <b>2018</b> , 45, 127-134		О
26	Therapierelevante Pathophysiologie des akuten ischfinischen Schlaganfalls: Was ist gesichert?. <i>Aktuelle Neurologie</i> , <b>2004</b> , 31, 113-121		O
25	Improving quality of preclinical academic research through auditing: A feasibility study. <i>PLoS ONE</i> , <b>2020</b> , 15, e0240719	3.7	0
24	Incorporating equity, diversity, and inclusiveness into the Hong Kong Principles. <i>PLoS Biology</i> , <b>2021</b> , 19, e3001140	9.7	O
23	Quality Control and Standard Operating Procedures. <i>Neuromethods</i> , <b>2016</b> , 291-300	0.4	O
22	Statistics in Experimental Stroke Research: From Sample Size Calculation to Data Description and Significance Testing. <i>Neuromethods</i> , <b>2016</b> , 301-315	0.4	
21	Ischemic Stroke: Basic Pathophysiology and Clinical Implication <b>2016</b> , 3385-3405		
20	Hoffnung auf Neuroprotektion. <i>InFo Neurologie &amp; Psychiatrie</i> , <b>2013</b> , 15, 22-22	Ο	
19	Das Centrum fl Schlaganfallforschung Berlin (CSB). <i>E-Neuroforum</i> , <b>2009</b> , 15, 132-135		
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15	Increased extracellular potassium concentration reduces the efficacy of N-methyl-D-aspartate receptor antagonists to block spreading depression in human and rat brain slices. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2005</b> , 25, S470-S470	7.3	
14	Neuroimmunology435-466		
13	Role of superoxide anion in rat cerebral blood flow response to somatosensory stimulation <i>Nosotchu</i> , <b>1994</b> , 16, 231-238	0.1	
12	The Physiological Basis of Functional Magnetic Resonance Imaging**Supported by the Deutsche Forschungsgemeinschaft (Vi 97/7년, Di 454/4년), the Sander-Stiftung (90.023.2), and the Human Frontiers Science Program Organization. <b>1995</b> , 499-508		
11	Regulation of Cerebral Blood Flow by Ions <b>1997</b> , 75-77		
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9 Zerebrale Ischihie **1999**, 510-541

8	Complexities, Confounders, and Challenges in Experimental Stroke Research: A Checklist for Researchers and Reviewers. <i>Neuromethods</i> , <b>2016</b> , 317-331	0.4
7	Statistics in Experimental Stroke Research: From Sample Size Calculation to Data Description and Significance Testing. <i>Neuromethods</i> , <b>2010</b> , 249-261	0.4
6	Old Dogmas, Surprising Complexities, and Novel Therapeutic Targets <b>2014</b> , 1-8	
5	Ischemic Stroke: Basic Pathophysiology and Clinical Implication <b>2021</b> , 1-22	
4	Improving quality of preclinical academic research through auditing: A feasibility study <b>2020</b> , 15, e0240	)719
3	Improving quality of preclinical academic research through auditing: A feasibility study <b>2020</b> , 15, e0240	)719

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