

David Howells

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

104
papers

11,453
citations

43
h-index

107
g-index

113
ext. papers

14,421
ext. citations

7.3
avg, IF

6.01
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 104 | 1,026 experimental treatments in acute stroke. <i>Annals of Neurology</i> , 2006 , 59, 467-77 | 9.4 | 1049 |
| 103 | Update of the stroke therapy academic industry roundtable preclinical recommendations. <i>Stroke</i> , 2009 , 40, 2244-50 | 6.7 | 948 |
| 102 | How to increase value and reduce waste when research priorities are set. <i>Lancet, The</i> , 2014 , 383, 156-65 | 40 | 826 |
| 101 | Can animal models of disease reliably inform human studies?. <i>PLoS Medicine</i> , 2010 , 7, e1000245 | 11.6 | 803 |
| 100 | A call for transparent reporting to optimize the predictive value of preclinical research. <i>Nature</i> , 2012 , 490, 187-91 | 50.4 | 795 |
| 99 | The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>PLoS Biology</i> , 2020 , 18, e3000410 | 9.7 | 757 |
| 98 | Pooling of animal experimental data reveals influence of study design and publication bias. <i>Stroke</i> , 2004 , 35, 1203-8 | 6.7 | 399 |
| 97 | Publication bias in reports of animal stroke studies leads to major overstatement of efficacy. <i>PLoS Biology</i> , 2010 , 8, e1000344 | 9.7 | 380 |
| 96 | Hypothermia in animal models of acute ischaemic stroke: a systematic review and meta-analysis. <i>Brain</i> , 2007 , 130, 3063-74 | 11.2 | 355 |
| 95 | Reporting animal research: Explanation and elaboration for the ARRIVE guidelines 2.0. <i>PLoS Biology</i> , 2020 , 18, e3000411 | 9.7 | 352 |
| 94 | How can we improve the pre-clinical development of drugs for stroke?. <i>Trends in Neurosciences</i> , 2007 , 30, 433-9 | 13.3 | 267 |
| 93 | Evidence for the efficacy of NXY-059 in experimental focal cerebral ischaemia is confounded by study quality. <i>Stroke</i> , 2008 , 39, 2824-9 | 6.7 | 241 |
| 92 | Reprint: Good laboratory practice: preventing introduction of bias at the bench. <i>Stroke</i> , 2009 , 29, 221-3 | 6.7 | 236 |
| 91 | The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 1769-1777 | 7.3 | 220 |
| 90 | Evaluation of excess significance bias in animal studies of neurological diseases. <i>PLoS Biology</i> , 2013 , 11, e1001609 | 9.7 | 184 |
| 89 | Risk of Bias in Reports of In Vivo Research: A Focus for Improvement. <i>PLoS Biology</i> , 2015 , 13, e1002273 | 9.7 | 160 |
| 88 | A multicentre, randomized, double-blinded, placebo-controlled Phase III study to investigate EXTending the time for Thrombolysis in Emergency Neurological Deficits (EXTEND). <i>International Journal of Stroke</i> , 2012 , 7, 74-80 | 6.3 | 158 |

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| 87 | Systematic reviews and meta-analysis of preclinical studies: why perform them and how to appraise them critically. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 737-42 | 7.3 | 156 |
| 86 | Inflammation following stroke. <i>Journal of Clinical Neuroscience</i> , 2006 , 13, 1-8 | 2.2 | 154 |
| 85 | Systematic review and metaanalysis of the efficacy of FK506 in experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, 713-21 | 7.3 | 144 |
| 84 | Pericytes and Neurovascular Function in the Healthy and Diseased Brain. <i>Frontiers in Cellular Neuroscience</i> , 2019 , 13, 282 | 6.1 | 117 |
| 83 | How to make better use of thrombolytic therapy in acute ischemic stroke. <i>Nature Reviews Neurology</i> , 2011 , 7, 400-9 | 15 | 108 |
| 82 | Cerebrospinal fluid concentrations of pterins and metabolites of serotonin and dopamine in a pediatric reference population. <i>Pediatric Research</i> , 1993 , 34, 10-4 | 3.2 | 108 |
| 81 | Systematic review and meta-analysis of the efficacy of melatonin in experimental stroke. <i>Journal of Pineal Research</i> , 2005 , 38, 35-41 | 10.4 | 106 |
| 80 | Stem cell-based therapy for experimental stroke: a systematic review and meta-analysis. <i>International Journal of Stroke</i> , 2012 , 7, 582-8 | 6.3 | 104 |
| 79 | Modification of the method of thread manufacture improves stroke induction rate and reduces mortality after thread-occlusion of the middle cerebral artery in young or aged rats. <i>Journal of Neuroscience Methods</i> , 2006 , 155, 285-90 | 3 | 99 |
| 78 | The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>British Journal of Pharmacology</i> , 2020 , 177, 3617-3624 | 8.6 | 99 |
| 77 | New dopaminergic neurons in Parkinson's disease striatum. <i>Lancet, The</i> , 2000 , 356, 44-5 | 40 | 96 |
| 76 | A systematic review and meta-analysis of erythropoietin in experimental stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 961-8 | 7.3 | 92 |
| 75 | Stem cell transplantation in traumatic spinal cord injury: a systematic review and meta-analysis of animal studies. <i>PLoS Biology</i> , 2013 , 11, e1001738 | 9.7 | 90 |
| 74 | Factors affecting the apparent efficacy and safety of tissue plasminogen activator in thrombotic occlusion models of stroke: systematic review and meta-analysis. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 1905-13 | 7.3 | 88 |
| 73 | Bringing rigour to translational medicine. <i>Nature Reviews Neurology</i> , 2014 , 10, 37-43 | 15 | 87 |
| 72 | An enriched environment improves sensorimotor function post-ischemic stroke. <i>Neurorehabilitation and Neural Repair</i> , 2010 , 24, 802-13 | 4.7 | 87 |
| 71 | Standardized mean differences cause funnel plot distortion in publication bias assessments. <i>ELife</i> , 2017 , 6, | 8.9 | 83 |
| 70 | A concerted appeal for international cooperation in preclinical stroke research. <i>Stroke</i> , 2013 , 44, 1754-60.7 | 6.7 | 81 |

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| 69 | Changes in the solubility and phosphorylation of β -synuclein over the course of Parkinson's disease. <i>Acta Neuropathologica</i> , 2011 , 121, 695-704 | 14.3 | 78 |
| 68 | Vampire bat salivary plasminogen activator (desmoteplase) inhibits tissue-type plasminogen activator-induced potentiation of excitotoxic injury. <i>Stroke</i> , 2005 , 36, 1241-6 | 6.7 | 75 |
| 67 | The resistance to ischemia of white and gray matter after stroke. <i>Annals of Neurology</i> , 2004 , 56, 695-701 | 9.4 | 67 |
| 66 | 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> , 2014 , 71, 91-9 | 17.2 | 66 |
| 65 | 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> , 2016 , 14, e1002468 | 9.7 | 60 |
| 64 | Preclinical drug evaluation for combination therapy in acute stroke using systematic review, meta-analysis, and subsequent experimental testing. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 962-75 | 7.3 | 58 |
| 63 | Efficacy of antidepressants in animal models of ischemic stroke: a systematic review and meta-analysis. <i>Stroke</i> , 2014 , 45, 3055-63 | 6.7 | 53 |
| 62 | Improving the efficiency of the development of drugs for stroke. <i>International Journal of Stroke</i> , 2012 , 7, 371-7 | 6.3 | 42 |
| 61 | Effect of chronic angiotensin-converting enzyme inhibition on striatal dopamine content in the MPTP-treated mouse. <i>Journal of Neurochemistry</i> , 1999 , 73, 214-9 | 6 | 42 |
| 60 | The ARRIVE guidelines 2.0: Updated guidelines for reporting animal research. <i>BMC Veterinary Research</i> , 2020 , 16, 242 | 2.7 | 42 |
| 59 | Inducing stroke in aged, hypertensive, diabetic rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2010 , 30, 729-33 | 7.3 | 34 |
| 58 | Evolution of ischemic damage and behavioural deficit over 6 months after MCAo in the rat: Selecting the optimal outcomes and statistical power for multi-centre preclinical trials. <i>PLoS ONE</i> , 2017 , 12, e0171688 | 3.7 | 33 |
| 57 | Exercise reduces infarct volume and facilitates neurobehavioral recovery: results from a systematic review and meta-analysis of exercise in experimental models of focal ischemia. <i>Neurorehabilitation and Neural Repair</i> , 2014 , 28, 800-12 | 4.7 | 32 |
| 56 | The ARRIVE guidelines 2019: updated guidelines for reporting animal research | | 32 |
| 55 | The ARRIVE guidelines 2.0: updated guidelines for reporting animal research. <i>BMJ Open Science</i> , 2020 , 4, e100115 | 4.6 | 30 |
| 54 | The influence of stroke risk factors and comorbidities on assessment of stroke therapies in humans and animals. <i>International Journal of Stroke</i> , 2012 , 7, 386-97 | 6.3 | 29 |
| 53 | Hypertension and experimental stroke therapies. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 1141-7 | 7.3 | 28 |
| 52 | A combined pre-clinical meta-analysis and randomized confirmatory trial approach to improve data validity for therapeutic target validation. <i>Scientific Reports</i> , 2015 , 5, 13428 | 4.9 | 26 |

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|----|---|-----|----|
| 51 | Dopaminergic innervation of the human striatum in Parkinson's disease. <i>Movement Disorders</i> , 2005 , 20, 810-8 | 7 | 24 |
| 50 | Reprint: Good laboratory practice: preventing introduction of bias at the bench. <i>International Journal of Stroke</i> , 2009 , 4, 3-5 | 6.3 | 23 |
| 49 | A Pathway Proteomic Profile of Ischemic Stroke Survivors Reveals Innate Immune Dysfunction in Association with Mild Symptoms of Depression - A Pilot Study. <i>Frontiers in Neurology</i> , 2016 , 7, 85 | 4.1 | 21 |
| 48 | A novel population of smooth muscle actin-positive cells activated in a rat model of stroke: an analysis of the spatio-temporal distribution in response to ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 2055-65 | 7.3 | 20 |
| 47 | Evidence-based translational medicine. <i>Stroke</i> , 2013 , 44, 1466-71 | 6.7 | 20 |
| 46 | Human Ischaemic Cascade Studies Using SH-SY5Y Cells: a Systematic Review and Meta-Analysis. <i>Translational Stroke Research</i> , 2018 , 9, 564-574 | 7.8 | 19 |
| 45 | CNS regeneration: clinical possibility or basic science fantasy?. <i>Journal of Clinical Neuroscience</i> , 2003 , 10, 523-34 | 2.2 | 19 |
| 44 | Hypothermia protects human neurons. <i>International Journal of Stroke</i> , 2014 , 9, 544-52 | 6.3 | 18 |
| 43 | Can the time window for administration of thrombolytics in stroke be increased?. <i>CNS Drugs</i> , 2003 , 17, 995-1011 | 6.7 | 18 |
| 42 | Salvaged stroke ischaemic penumbra shows significant injury: studies with the hypoxia tracer FMISO. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011 , 31, 934-43 | 7.3 | 17 |
| 41 | Protocol for a retrospective, controlled cohort study of the impact of a change in Nature journals' editorial policy for life sciences research on the completeness of reporting study design and execution. <i>Scientometrics</i> , 2016 , 108, 315-328 | 3 | 17 |
| 40 | Risk of bias reporting in the recent animal focal cerebral ischaemia literature. <i>Clinical Science</i> , 2017 , 131, 2525-2532 | 6.5 | 16 |
| 39 | Striatal dopaminergic neurons are lost with Parkinson's disease progression. <i>Movement Disorders</i> , 2006 , 21, 2208-11 | 7 | 16 |
| 38 | Characterization of fluoromisonidazole binding in stroke. <i>Stroke</i> , 2006 , 37, 1862-7 | 6.7 | 16 |
| 37 | NXY-059, a Failed Stroke Neuroprotectant, Offers No Protection to Stem Cell-Derived Human Neurons. <i>Journal of Stroke and Cerebrovascular Diseases</i> , 2018 , 27, 2158-2165 | 2.8 | 15 |
| 36 | Characterisation of the timing of binding of the hypoxia tracer FMISO after stroke. <i>Brain Research</i> , 2009 , 1288, 135-42 | 3.7 | 15 |
| 35 | STroke imAging pRevention and treatment (START): A longitudinal stroke cohort study: Clinical trials protocol. <i>International Journal of Stroke</i> , 2015 , 10, 636-44 | 6.3 | 14 |
| 34 | Surgical damage stimulates proliferation of dopamine uptake sites in normal mouse brain. <i>Brain Research</i> , 1993 , 622, 285-8 | 3.7 | 14 |

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| 33 | Conventional protein kinase C-mediated phosphorylation inhibits collapsin response-mediated protein 2 proteolysis and alleviates ischemic injury in cultured cortical neurons and ischemic stroke-induced mice. <i>Journal of Neurochemistry</i> , 2016 , 137, 446-59 | 6 | 13 |
| 32 | The benefit of hypothermia in experimental ischemic stroke is not affected by pethidine. <i>International Journal of Stroke</i> , 2013 , 8, 180-5 | 6.3 | 12 |
| 31 | Human in vitro models of ischaemic stroke: a test bed for translation. <i>Translational Stroke Research</i> , 2012 , 3, 306-9 | 7.8 | 12 |
| 30 | The effect of rapamycin treatment on cerebral ischemia: A systematic review and meta-analysis of animal model studies. <i>International Journal of Stroke</i> , 2019 , 14, 137-145 | 6.3 | 12 |
| 29 | Applications of Nanotechnology in the Diagnosis and Therapy of Stroke. <i>Seminars in Thrombosis and Hemostasis</i> , 2020 , 46, 592-605 | 5.3 | 11 |
| 28 | Scope of preclinical testing versus quality control within experiments. <i>Stroke</i> , 2009 , 40, e497 | 6.7 | 9 |
| 27 | Neuroprotection After Traumatic Brain Injury. <i>JAMA Neurology</i> , 2016 , 73, 149-50 | 17.2 | 8 |
| 26 | Fish oil diet associated with acute reperfusion related hemorrhage, and with reduced stroke-related sickness behaviors and motor impairment. <i>Frontiers in Neurology</i> , 2014 , 5, 14 | 4.1 | 8 |
| 25 | Hypothermia revisited: Impact of ischaemic duration and between experiment variability. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017 , 37, 3380-3390 | 7.3 | 7 |
| 24 | History of animal models of stroke. <i>International Journal of Stroke</i> , 2011 , 6, 77-8 | 6.3 | 7 |
| 23 | Stem cells: do they replace or stimulate?. <i>Stroke</i> , 2003 , 34, 2082-3 | 6.7 | 6 |
| 22 | Identification and characterization of outcome measures reported in animal models of epilepsy: Protocol for a systematic review of the literature-A TASK2 report of the AES/ILAE Translational Task Force of the ILAE. <i>Epilepsia</i> , 2017 , 58 Suppl 4, 68-77 | 6.4 | 5 |
| 21 | Fish oil supplementation associated with decreased cellular degeneration and increased cellular proliferation 6 weeks after middle cerebral artery occlusion in the rat. <i>Neuropsychiatric Disease and Treatment</i> , 2015 , 11, 153-64 | 3.1 | 5 |
| 20 | Circadian Biology and Stroke. <i>Stroke</i> , 2021 , 52, 2180-2190 | 6.7 | 5 |
| 19 | Transcranial contrast-enhanced ultrasound in the rat brain reveals substantial hyperperfusion acutely post-stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020 , 40, 939-953 | 7.3 | 4 |
| 18 | Reporting animal research: Explanation and Elaboration for the ARRIVE guidelines 2019 | | 4 |
| 17 | Animal Models of Ischemic Stroke Versus Clinical Stroke: Comparison of Infarct Size, Cause, Location, Study Design, and Efficacy of Experimental Therapies 2017 , 481-523 | | 3 |
| 16 | A complementary role for tetraspanin superfamily member TSSC6 and ADP purinergic P2Y receptor in platelets. <i>Thrombosis Research</i> , 2018 , 161, 12-21 | 8.2 | 3 |

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| 15 | Animal Models of Stroke Versus Clinical Stroke: Comparison of Infarct Size, Cause, Location, Study Design, and Efficacy of Experimental Therapies 2013 , 531-568 | | 2 |
| 14 | Leukaemia inhibitory factor prevents injury induced proliferation of striatal dopamine uptake sites. <i>NeuroReport</i> , 1995 , 6, 1857-60 | 1.7 | 2 |
| 13 | Modeling Risk Factors and Confounding Effects in Stroke. <i>Neuromethods</i> , 2010 , 93-119 | 0.4 | 2 |
| 12 | Longitudinal Stroke Recovery Associated With Dysregulation of Complement System-A Proteomics Pathway Analysis. <i>Frontiers in Neurology</i> , 2020 , 11, 692 | 4.1 | 2 |
| 11 | Neuroprotection: where to now?. <i>Future Neurology</i> , 2007 , 2, 513-521 | 1.5 | 1 |
| 10 | Quality of preclinical evidence for neuroprotection in stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, S144-S144 | 7.3 | 1 |
| 9 | Combined meta-analysis of preclinical cell therapy studies shows overlapping effect modifiers for multiple diseases.. <i>BMJ Open Science</i> , 2021 , 5, e100061 | 4.6 | 1 |
| 8 | Derivation of phenotypically diverse neural culture from hESC by combining adherent and dissociation methods. <i>Journal of Neuroscience Methods</i> , 2018 , 308, 286-293 | 3 | 0 |
| 7 | Differences in fatigue-like behavior in the lipopolysaccharide and poly I:C inflammatory animal models. <i>Physiology and Behavior</i> , 2021 , 232, 113347 | 3.5 | 0 |
| 6 | What has preclinical systematic review ever done for us?. <i>BMJ Open Science</i> , 2022 , 6, e100219 | 4.6 | 0 |
| 5 | Ischaemic tolerance and mitochondrial uncoupling--can we learn from the cell?. <i>Cerebrovascular Diseases</i> , 2005 , 19, 206-8 | 3.2 | |
| 4 | Does tissue plasminogen activator mediate neurodegeneration in the 1-methyl-4-phenyl-1, 2, 3, 6-tetrahydropyridine (MPTP) mouse model of Parkinson's disease?. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005 , 25, S434-S434 | 7.3 | |
| 3 | Neurotoxicity and Stroke 2014 , 1483-1509 | | |
| 2 | Differential susceptibility of human neural progenitors and neurons to ischaemic injury. <i>Brain Research Bulletin</i> , 2020 , 156, 25-32 | 3.9 | |
| 1 | Pharmacological PDGFR inhibitors imatinib and sunitinib cause human brain pericyte death in vitro.. <i>Toxicology and Applied Pharmacology</i> , 2022 , 116025 | 4.6 | |