

Pierre Gressens

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.

416
papers

19,342
citations

71
h-index

115
g-index

483
ext. papers

22,127
ext. citations

6.1
avg, IF

6.56
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 416 | Deletion of the hypoxia-response element in the vascular endothelial growth factor promoter causes motor neuron degeneration. <i>Nature Genetics</i> , 2001 , 28, 131-8 | 36.3 | 848 |
| 415 | Role of tissue factor in embryonic blood vessel development. <i>Nature</i> , 1996 , 383, 73-5 | 50.4 | 588 |
| 414 | The role of inflammation in perinatal brain injury. <i>Nature Reviews Neurology</i> , 2015 , 11, 192-208 | 15 | 474 |
| 413 | Characterization of phenotype markers and neuronotoxic potential of polarised primary microglia in vitro. <i>Brain, Behavior, and Immunity</i> , 2013 , 32, 70-85 | 16.6 | 408 |
| 412 | Inflammation during fetal and neonatal life: implications for neurologic and neuropsychiatric disease in children and adults. <i>Annals of Neurology</i> , 2012 , 71, 444-57 | 9.4 | 356 |
| 411 | Axl Mediates ZIKA Virus Entry in Human Glial Cells and Modulates Innate Immune Responses. <i>Cell Reports</i> , 2017 , 18, 324-333 | 10.6 | 278 |
| 410 | Systemic inflammation disrupts the developmental program of white matter. <i>Annals of Neurology</i> , 2011 , 70, 550-65 | 9.4 | 269 |
| 409 | Growth factor function of vasoactive intestinal peptide in whole cultured mouse embryos. <i>Nature</i> , 1993 , 362, 155-8 | 50.4 | 244 |
| 408 | The yin and yang of microglia. <i>Developmental Neuroscience</i> , 2011 , 33, 199-209 | 2.2 | 232 |
| 407 | A mouse model for Zellweger syndrome. <i>Nature Genetics</i> , 1997 , 17, 49-57 | 36.3 | 226 |
| 406 | Tertiary mechanisms of brain damage: a new hope for treatment of cerebral palsy?. <i>Lancet Neurology</i> , 2012 , 11, 556-66 | 24.1 | 223 |
| 405 | Effect of ibotenate on brain development: an excitotoxic mouse model of microgyria and posthypoxic-like lesions. <i>Journal of Neuropathology and Experimental Neurology</i> , 1995 , 54, 358-70 | 3.1 | 209 |
| 404 | Melatonin augments hypothermic neuroprotection in a perinatal asphyxia model. <i>Brain</i> , 2013 , 136, 90-105 | 5.2 | 187 |
| 403 | Melatonin reduces inflammation and cell death in white matter in the mid-gestation fetal sheep following umbilical cord occlusion. <i>Pediatric Research</i> , 2007 , 61, 153-8 | 3.2 | 183 |
| 402 | Proinflammatory cytokines and interleukin-9 exacerbate excitotoxic lesions of the newborn murine neopallium. <i>Annals of Neurology</i> , 2000 , 47, 54-63 | 9.4 | 183 |
| 401 | Early microglial activation following neonatal excitotoxic brain damage in mice: a potential target for neuroprotection. <i>Neuroscience</i> , 2003 , 121, 619-28 | 3.9 | 173 |
| 400 | Early microglial colonization of the human forebrain and possible involvement in periventricular white-matter injury of preterm infants. <i>Journal of Anatomy</i> , 2010 , 217, 436-48 | 2.9 | 162 |

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|-----|--|------|-----|
| 399 | The role of JAK-STAT signaling within the CNS. <i>Jak-stat</i> , 2013 , 2, e22925 | | 157 |
| 398 | Many roads lead to primary autosomal recessive microcephaly. <i>Progress in Neurobiology</i> , 2010 , 90, 363-83 | 0.9 | 153 |
| 397 | Melatonergic neuroprotection of the murine periventricular white matter against neonatal excitotoxic challenge. <i>Annals of Neurology</i> , 2002 , 51, 82-92 | 9.4 | 151 |
| 396 | Activation of microglial N-methyl-D-aspartate receptors triggers inflammation and neuronal cell death in the developing and mature brain. <i>Annals of Neurology</i> , 2012 , 72, 536-49 | 9.4 | 148 |
| 395 | The Jak/STAT pathway is involved in synaptic plasticity. <i>Neuron</i> , 2012 , 73, 374-90 | 13.9 | 147 |
| 394 | Entry and distribution of microglial cells in human embryonic and fetal cerebral cortex. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007 , 66, 372-82 | 3.1 | 147 |
| 393 | Maternal exposure to LPS induces hypomyelination in the internal capsule and programmed cell death in the deep gray matter in newborn rats. <i>Pediatric Research</i> , 2006 , 59, 428-33 | 3.2 | 145 |
| 392 | Vasoactive intestinal peptide prevents excitotoxic cell death in the murine developing brain. <i>Journal of Clinical Investigation</i> , 1997 , 100, 390-7 | 15.9 | 143 |
| 391 | Neuronal damage accompanies perinatal white-matter damage. <i>Trends in Neurosciences</i> , 2007 , 30, 473-81 | 13.3 | 139 |
| 390 | Effects of alpha(2)-adrenoceptor agonists on perinatal excitotoxic brain injury: comparison of clonidine and dexmedetomidine. <i>Anesthesiology</i> , 2002 , 96, 134-41 | 4.3 | 136 |
| 389 | Mutations in the Tubulin gene TUBB5 cause microcephaly with structural brain abnormalities. <i>Cell Reports</i> , 2012 , 2, 1554-62 | 10.6 | 131 |
| 388 | Intrauterine infection induces programmed cell death in rabbit periventricular white matter. <i>Pediatric Research</i> , 2000 , 47, 736-42 | 3.2 | 120 |
| 387 | Prevention by magnesium of excitotoxic neuronal death in the developing brain: an animal model for clinical intervention studies. <i>Developmental Medicine and Child Neurology</i> , 1995 , 37, 473-84 | 3.3 | 113 |
| 386 | Antenatal sildenafil treatment attenuates pulmonary hypertension in experimental congenital diaphragmatic hernia. <i>Circulation</i> , 2011 , 123, 2120-31 | 16.7 | 112 |
| 385 | Prenatal isolated mild ventriculomegaly: outcome in 167 cases. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2006 , 113, 1072-9 | 3.7 | 110 |
| 384 | Cocaine-induced disturbances of corticogenesis in the developing murine brain. <i>Neuroscience Letters</i> , 1992 , 140, 113-6 | 3.3 | 110 |
| 383 | Neuroprotective effects of dexmedetomidine against glutamate agonist-induced neuronal cell death are related to increased astrocyte brain-derived neurotrophic factor expression. <i>Anesthesiology</i> , 2013 , 118, 1123-32 | 4.3 | 108 |
| 382 | Stem cell therapy for neonatal brain injury: perspectives and challenges. <i>Annals of Neurology</i> , 2011 , 70, 698-712 | 9.4 | 108 |

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|-----|--|------|-----|
| 381 | Distribution and differentiation of microglia in the human encephalon during the first two trimesters of gestation. <i>Journal of Comparative Neurology</i> , 2006 , 499, 565-82 | 3.4 | 105 |
| 380 | The germinative zone produces the most cortical astrocytes after neuronal migration in the developing mammalian brain. <i>Neonatology</i> , 1992 , 61, 4-24 | 4 | 102 |
| 379 | Depletion of bone marrow-derived macrophages perturbs the innate immune response to surgery and reduces postoperative memory dysfunction. <i>Anesthesiology</i> , 2013 , 118, 527-36 | 4.3 | 101 |
| 378 | Severe microcephaly induced by blockade of vasoactive intestinal peptide function in the primitive neuroepithelium of the mouse. <i>Journal of Clinical Investigation</i> , 1994 , 94, 2020-7 | 15.9 | 97 |
| 377 | Blood-brain barrier dysfunction in disorders of the developing brain. <i>Frontiers in Neuroscience</i> , 2015 , 9, 40 | 5.1 | 94 |
| 376 | Dexmedetomidine increases hippocampal phosphorylated extracellular signal-regulated protein kinase 1 and 2 content by an alpha 2-adrenoceptor-independent mechanism: evidence for the involvement of imidazoline I1 receptors. <i>Anesthesiology</i> , 2008 , 108, 457-66 | 4.3 | 94 |
| 375 | Molecular mechanisms of neonatal brain injury. <i>Neurology Research International</i> , 2012 , 2012, 506320 | 1.7 | 92 |
| 374 | Gestational hypoxia induces white matter damage in neonatal rats: a new model of periventricular leukomalacia. <i>Brain Pathology</i> , 2004 , 14, 1-10 | 6 | 92 |
| 373 | Microglial reaction in axonal crossroads is a hallmark of noncystic periventricular white matter injury in very preterm infants. <i>Journal of Neuropathology and Experimental Neurology</i> , 2012 , 71, 251-64 | 3.1 | 91 |
| 372 | The impact of neonatal intensive care practices on the developing brain. <i>Journal of Pediatrics</i> , 2002 , 140, 646-53 | 3.6 | 90 |
| 371 | Impaired neuronal migration and endochondral ossification in Pex7 knockout mice: a model for rhizomelic chondrodysplasia punctata. <i>Human Molecular Genetics</i> , 2003 , 12, 2255-67 | 5.6 | 89 |
| 370 | BDNF-induced white matter neuroprotection and stage-dependent neuronal survival following a neonatal excitotoxic challenge. <i>Cerebral Cortex</i> , 2005 , 15, 250-61 | 5.1 | 87 |
| 369 | Hippocampal Radial Glial Subtypes and Their Neurogenic Potential in Human Fetuses and Healthy and Alzheimer's Disease Adults. <i>Cerebral Cortex</i> , 2018 , 28, 2458-2478 | 5.1 | 86 |
| 368 | Arrest of neuronal migration by excitatory amino acids in hamster developing brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 15463-8 | 11.5 | 86 |
| 367 | Impaired oligodendrocyte maturation in preterm infants: Potential therapeutic targets. <i>Progress in Neurobiology</i> , 2016 , 136, 28-49 | 10.9 | 85 |
| 366 | The effects of dexmedetomidine on perinatal excitotoxic brain injury are mediated by the alpha2A-adrenoceptor subtype. <i>Anesthesia and Analgesia</i> , 2006 , 102, 456-61 | 3.9 | 85 |
| 365 | Microlissencephaly: a heterogeneous malformation of cortical development. <i>Neuropediatrics</i> , 1998 , 29, 113-9 | 1.6 | 84 |
| 364 | Melatonin modulates neonatal brain inflammation through endoplasmic reticulum stress, autophagy, and miR-34a/silent information regulator 1 pathway. <i>Journal of Pineal Research</i> , 2016 , 61, 370-80 | 10.4 | 83 |

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|-----|---|------|----|
| 363 | Gastrointestinal dysfunction in mice with a targeted mutation in the gene encoding vasoactive intestinal polypeptide: a model for the study of intestinal ileus and Hirschsprung's disease. <i>Peptides</i> , 2007 , 28, 1688-99 | 3.8 | 83 |
| 362 | Prenatal ischemia and white matter damage in rats. <i>Journal of Neuropathology and Experimental Neurology</i> , 2005 , 64, 998-1006 | 3.1 | 83 |
| 361 | Selective activation of central subtypes of the nicotinic acetylcholine receptor has opposite effects on neonatal excitotoxic brain injuries. <i>FASEB Journal</i> , 2002 , 16, 423-5 | 0.9 | 83 |
| 360 | Expanding the clinical and neuroradiologic phenotype of primary microcephaly due to ASPM mutations. <i>Neurology</i> , 2009 , 73, 962-9 | 6.5 | 82 |
| 359 | Different types of nutritional deficiencies affect different domains of spatial memory function checked in a radial arm maze. <i>Neuroscience</i> , 2008 , 152, 859-66 | 3.9 | 80 |
| 358 | Cytomegalovirus-induced brain malformations in fetuses. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014 , 73, 143-58 | 3.1 | 79 |
| 357 | Alternative oxidase expression in the mouse enables bypassing cytochrome c oxidase blockade and limits mitochondrial ROS overproduction. <i>PLoS Genetics</i> , 2013 , 9, e1003182 | 6 | 79 |
| 356 | Inner ear lesions in congenital cytomegalovirus infection of human fetuses. <i>Acta Neuropathologica</i> , 2011 , 122, 763-74 | 14.3 | 78 |
| 355 | Effects of dexmedetomidine on hippocampal focal adhesion kinase tyrosine phosphorylation in physiologic and ischemic conditions. <i>Anesthesiology</i> , 2005 , 103, 969-77 | 4.3 | 78 |
| 354 | Neuroprotective effects of leptin in vivo and in vitro. <i>NeuroReport</i> , 2001 , 12, 3947-51 | 1.7 | 78 |
| 353 | Melatonin promotes oligodendroglial maturation of injured white matter in neonatal rats. <i>PLoS ONE</i> , 2009 , 4, e7128 | 3.7 | 77 |
| 352 | Lipopolysaccharide-induced alteration of mitochondrial morphology induces a metabolic shift in microglia modulating the inflammatory response in vitro and in vivo. <i>Glia</i> , 2019 , 67, 1047-1061 | 9 | 77 |
| 351 | Brain-derived neurotrophic factor-mediated effects on mitochondrial respiratory coupling and neuroprotection share the same molecular signalling pathways. <i>European Journal of Neuroscience</i> , 2012 , 35, 366-74 | 3.5 | 75 |
| 350 | Effects of interleukin-10 on neonatal excitotoxic brain lesions in mice. <i>Developmental Brain Research</i> , 2003 , 141, 25-32 | | 75 |
| 349 | Mechanisms and disturbances of neuronal migration. <i>Pediatric Research</i> , 2000 , 48, 725-30 | 3.2 | 75 |
| 348 | Transplacental cocaine exposure: a mouse model demonstrating neuroanatomic and behavioral abnormalities. <i>Journal of Child Neurology</i> , 1994 , 9, 234-41 | 2.5 | 75 |
| 347 | Recombinant peroxiredoxin 5 protects against excitotoxic brain lesions in newborn mice. <i>Free Radical Biology and Medicine</i> , 2003 , 34, 862-72 | 7.8 | 74 |
| 346 | Topiramate prevents excitotoxic damage in the newborn rodent brain. <i>Neurobiology of Disease</i> , 2005 , 20, 837-48 | 7.5 | 73 |

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|-----|---|------|----|
| 345 | A novel mouse model of Ureaplasma-induced perinatal inflammation: effects on lung and brain injury. <i>Pediatric Research</i> , 2009 , 65, 430-6 | 3.2 | 71 |
| 344 | Distribution of VIP mRNA and two distinct VIP binding sites in the developing rat brain: relation to ontogenic events. <i>Journal of Comparative Neurology</i> , 1994 , 342, 186-205 | 3.4 | 70 |
| 343 | Neuropathological review of 138 cases genetically tested for X-linked hydrocephalus: evidence for closely related clinical entities of unknown molecular bases. <i>Acta Neuropathologica</i> , 2013 , 126, 427-42 | 14.3 | 69 |
| 342 | Maternal protein restriction early in rat pregnancy alters brain development in the progeny. <i>Developmental Brain Research</i> , 1997 , 103, 21-35 | | 69 |
| 341 | Neurotoxic effects of fluorinated glucocorticoid preparations on the developing mouse brain: role of preservatives. <i>Pediatric Research</i> , 2001 , 50, 706-11 | 3.2 | 68 |
| 340 | Systemic inflammation sensitizes the neonatal brain to excitotoxicity through a pro-/anti-inflammatory imbalance: key role of TNFalpha pathway and protection by etanercept. <i>Brain, Behavior, and Immunity</i> , 2010 , 24, 747-58 | 16.6 | 67 |
| 339 | Neocortical and cerebellar developmental abnormalities in conditions of selective elimination of peroxisomes from brain or from liver. <i>Journal of Neuroscience Research</i> , 2007 , 85, 58-72 | 4.4 | 67 |
| 338 | Positive allosteric modulators of AMPA receptors are neuroprotective against lesions induced by an NMDA agonist in neonatal mouse brain. <i>Brain Research</i> , 2003 , 970, 221-5 | 3.7 | 67 |
| 337 | Magnesium deficiency-dependent audiogenic seizures (MDDASs) in adult mice: a nutritional model for discriminatory screening of anticonvulsant drugs and original assessment of neuroprotection properties. <i>Journal of Neuroscience</i> , 1998 , 18, 4363-73 | 6.6 | 67 |
| 336 | Microglial MyD88 signaling regulates acute neuronal toxicity of LPS-stimulated microglia in vitro. <i>Brain, Behavior, and Immunity</i> , 2010 , 24, 776-83 | 16.6 | 66 |
| 335 | IL-9/IL-9 receptor signaling selectively protects cortical neurons against developmental apoptosis. <i>Cell Death and Differentiation</i> , 2008 , 15, 1542-52 | 12.7 | 66 |
| 334 | Inflammation-induced sensitization of the brain in term infants. <i>Developmental Medicine and Child Neurology</i> , 2015 , 57 Suppl 3, 17-28 | 3.3 | 63 |
| 333 | Tumor necrosis factor-related apoptosis-inducing ligand (TRAIL) signaling and cell death in the immature central nervous system after hypoxia-ischemia and inflammation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 9430-9 | 5.4 | 63 |
| 332 | VIP and PACAP induce selective neuronal differentiation of mouse embryonic stem cells. <i>European Journal of Neuroscience</i> , 2004 , 19, 798-808 | 3.5 | 62 |
| 331 | Brain cell death is reduced with cooling by 3.5°C to 5°C but increased with cooling by 8.5°C in a piglet asphyxia model. <i>Stroke</i> , 2015 , 46, 275-8 | 6.7 | 61 |
| 330 | Molecular mechanisms involved in injury to the preterm brain. <i>Journal of Child Neurology</i> , 2009 , 24, 1112-8 | 2.5 | 61 |
| 329 | Disruption of murine Hexa gene leads to enzymatic deficiency and to neuronal lysosomal storage, similar to that observed in Tay-Sachs disease. <i>Mammalian Genome</i> , 1995 , 6, 844-9 | 3.2 | 60 |
| 328 | Nociceptin/orphanin FQ exacerbates excitotoxic white-matter lesions in the murine neonatal brain. <i>Journal of Clinical Investigation</i> , 2001 , 107, 457-66 | 15.9 | 60 |

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| 327 | Erythropoietin is neuroprotective against NMDA-receptor-mediated excitotoxic brain injury in newborn mice. <i>Neurobiology of Disease</i> , 2006 , 24, 357-66 | 7.5 | 59 |
| 326 | Pathogenesis of migration disorders. <i>Current Opinion in Neurology</i> , 2006 , 19, 135-40 | 7.1 | 59 |
| 325 | Temporal Characterization of Microglia/Macrophage Phenotypes in a Mouse Model of Neonatal Hypoxic-Ischemic Brain Injury. <i>Frontiers in Cellular Neuroscience</i> , 2016 , 10, 286 | 6.1 | 59 |
| 324 | Moderate growth restriction: deleterious and protective effects on white matter damage. <i>Neurobiology of Disease</i> , 2007 , 26, 253-63 | 7.5 | 58 |
| 323 | ZIKA virus elicits P53 activation and genotoxic stress in human neural progenitors similar to mutations involved in severe forms of genetic microcephaly. <i>Cell Death and Disease</i> , 2016 , 7, e2440 | 9.8 | 57 |
| 322 | Reactive astrocyte COX2-PGE2 production inhibits oligodendrocyte maturation in neonatal white matter injury. <i>Glia</i> , 2017 , 65, 2024-2037 | 9 | 57 |
| 321 | Maternal deprivation induces deficits in temporal memory and cognitive flexibility and exaggerates synaptic plasticity in the rat medial prefrontal cortex. <i>Neurobiology of Learning and Memory</i> , 2012 , 98, 207-14 | 3.1 | 56 |
| 320 | Pharmacological and genetic inhibition of NADPH oxidase does not reduce brain damage in different models of perinatal brain injury in newborn mice. <i>Neurobiology of Disease</i> , 2008 , 31, 133-44 | 7.5 | 56 |
| 319 | Functional partnership between mGlu3 and mGlu5 metabotropic glutamate receptors in the central nervous system. <i>Neuropharmacology</i> , 2018 , 128, 301-313 | 5.5 | 55 |
| 318 | Oligodendrocyte precursor survival and differentiation requires chromatin remodeling by Chd7 and Chd8. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8246-E8255 | 11.5 | 53 |
| 317 | Inhaled nitric oxide reduces brain damage by collateral recruitment in a neonatal stroke model. <i>Stroke</i> , 2012 , 43, 3078-84 | 6.7 | 53 |
| 316 | Chronic mild stress during gestation worsens neonatal brain lesions in mice. <i>Journal of Neuroscience</i> , 2007 , 27, 7532-40 | 6.6 | 53 |
| 315 | Ventricular dilatations. <i>Childs Nervous System</i> , 2003 , 19, 517-23 | 1.7 | 53 |
| 314 | Neuroinflammation, myelin and behavior: Temporal patterns following mild traumatic brain injury in mice. <i>PLoS ONE</i> , 2017 , 12, e0184811 | 3.7 | 52 |
| 313 | Cyclooxygenase-2 mediates the sensitizing effects of systemic IL-1-beta on excitotoxic brain lesions in newborn mice. <i>Neurobiology of Disease</i> , 2007 , 25, 496-505 | 7.5 | 52 |
| 312 | In situ polymerase chain reaction: localization of HSV-2 DNA sequences in infections of the nervous system. <i>Journal of Virological Methods</i> , 1994 , 46, 61-83 | 2.6 | 52 |
| 311 | Preterm delivery disrupts the developmental program of the cerebellum. <i>PLoS ONE</i> , 2011 , 6, e23449 | 3.7 | 52 |
| 310 | Pharmacokinetics of melatonin in preterm infants. <i>British Journal of Clinical Pharmacology</i> , 2013 , 76, 725-33 | 3.8 | 51 |

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|-----|--|------|----|
| 309 | Neurotrophins and cytokines in neuronal plasticity. <i>Novartis Foundation Symposium</i> , 2008 , 289, 222-33; discussion 233-40 | | 51 |
| 308 | Role of microglia in a mouse model of paediatric traumatic brain injury. <i>Brain, Behavior, and Immunity</i> , 2017 , 63, 197-209 | 16.6 | 50 |
| 307 | Neonatal hypoxic preconditioning involves vascular endothelial growth factor. <i>Neurobiology of Disease</i> , 2007 , 26, 243-52 | 7.5 | 50 |
| 306 | Antiepileptic popular ketogenic diet: emerging twists in an ancient story. <i>Progress in Neurobiology</i> , 2005 , 75, 1-28 | 10.9 | 50 |
| 305 | How to reprogram microglia toward beneficial functions. <i>Glia</i> , 2018 , 66, 2531-2549 | 9 | 50 |
| 304 | Genetic inhibition of caspase-2 reduces hypoxic-ischemic and excitotoxic neonatal brain injury. <i>Annals of Neurology</i> , 2011 , 70, 781-9 | 9.4 | 49 |
| 303 | GAP-43 is essential for the neurotrophic effects of BDNF and positive AMPA receptor modulator S18986. <i>Cell Death and Differentiation</i> , 2009 , 16, 624-37 | 12.7 | 49 |
| 302 | Endocannabinoids potently protect the newborn brain against AMPA-kainate receptor-mediated excitotoxic damage. <i>British Journal of Pharmacology</i> , 2006 , 148, 442-51 | 8.6 | 49 |
| 301 | Neuronal migration depends on intact peroxisomal function in brain and in extraneuronal tissues. <i>Journal of Neuroscience</i> , 2003 , 23, 9732-41 | 6.6 | 49 |
| 300 | Early neurogenesis and teratogenesis in whole mouse embryo cultures. Histochemical, immunocytological and ultrastructural study of the premigratory neuronal-glial units in normal mouse embryo and in mouse embryos influenced by cocaine and retinoic acid. <i>Journal of Neuropathology and Experimental Neurology</i> , 1992 , 51, 206-19 | 3.1 | 49 |
| 299 | Decreased microglial Wnt/ β -catenin signalling drives microglial pro-inflammatory activation in the developing brain. <i>Brain</i> , 2019 , 142, 3806-3833 | 11.2 | 48 |
| 298 | Melatonin prevents learning disorders in brain-lesioned newborn mice. <i>Neuroscience</i> , 2007 , 150, 712-9 | 3.9 | 48 |
| 297 | Deleterious effects of IL-9-activated mast cells and neuroprotection by antihistamine drugs in the developing mouse brain. <i>Pediatric Research</i> , 2001 , 50, 222-30 | 3.2 | 48 |
| 296 | Mutations in Citron Kinase Cause Recessive Microlissencephaly with Multinucleated Neurons. <i>American Journal of Human Genetics</i> , 2016 , 99, 511-20 | 11 | 47 |
| 295 | Dietary omega-3 deficiency exacerbates inflammation and reveals spatial memory deficits in mice exposed to lipopolysaccharide during gestation. <i>Brain, Behavior, and Immunity</i> , 2018 , 73, 427-440 | 16.6 | 47 |
| 294 | Integrative genomics of microglia implicates DLG4 (PSD95) in the white matter development of preterm infants. <i>Nature Communications</i> , 2017 , 8, 428 | 17.4 | 47 |
| 293 | Patterns of cerebral inflammatory response in a rabbit model of intrauterine infection-mediated brain lesion. <i>Developmental Brain Research</i> , 2003 , 145, 39-48 | | 47 |
| 292 | Docosahexaenoic acid deficit is not a major pathogenic factor in peroxisome-deficient mice. <i>Laboratory Investigation</i> , 2000 , 80, 31-5 | 5.9 | 47 |

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|-----|---|------|----|
| 291 | Lentiviral-mediated gene transfer of brain-derived neurotrophic factor is neuroprotective in a mouse model of neonatal excitotoxic challenge. <i>Journal of Neuroscience Research</i> , 2006 , 83, 50-60 | 4.4 | 45 |
| 290 | Involvement of pituitary adenylate cyclase-activating polypeptide II vasoactive intestinal peptide 2 receptor in mouse neocortical astrocytogenesis. <i>Journal of Neurochemistry</i> , 1998 , 70, 2165-73 | 6 | 45 |
| 289 | A systems-level framework for drug discovery identifies Csf1R as an anti-epileptic drug target. <i>Nature Communications</i> , 2018 , 9, 3561 | 17.4 | 45 |
| 288 | Characterization of the postconditioning effect of dexmedetomidine in mouse organotypic hippocampal slice cultures exposed to oxygen and glucose deprivation. <i>Anesthesiology</i> , 2010 , 112, 373-83 | 4.3 | 44 |
| 287 | Inflammation processes in perinatal brain damage. <i>Journal of Neural Transmission</i> , 2010 , 117, 1009-17 | 4.3 | 44 |
| 286 | Neurobehavioral development of neonatal mice following blockade of VIP during the early embryonic period. <i>Peptides</i> , 1997 , 18, 1131-7 | 3.8 | 44 |
| 285 | Antenatal bacterial endotoxin sensitizes the immature rat brain to postnatal excitotoxic injury. <i>Journal of Neuropathology and Experimental Neurology</i> , 2008 , 67, 994-1000 | 3.1 | 44 |
| 284 | The glial fascicle: an ontogenic and phylogenic unit guiding, supplying and distributing mammalian cortical neurons. <i>Developmental Brain Research</i> , 1993 , 76, 272-7 | | 44 |
| 283 | Chorioamnionitis, neuroinflammation, and injury: timing is key in the preterm ovine fetus. <i>Journal of Neuroinflammation</i> , 2018 , 15, 113 | 10.1 | 43 |
| 282 | Expression of Sonic hedgehog during cell proliferation in the human cerebellum. <i>Stem Cells and Development</i> , 2012 , 21, 1059-68 | 4.4 | 43 |
| 281 | Pathophysiology of neonatal brain lesions: Lessons from animal models of excitotoxicity. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2005 , 94, 185-190 | 3.1 | 43 |
| 280 | A dual role for AMP-activated protein kinase (AMPK) during neonatal hypoxic-ischaemic brain injury in mice. <i>Journal of Neurochemistry</i> , 2015 , 133, 242-52 | 6 | 42 |
| 279 | Embryonic Stem Cell-Derived Mesenchymal Stem Cells (MSCs) Have a Superior Neuroprotective Capacity Over Fetal MSCs in the Hypoxic-Ischemic Mouse Brain. <i>Stem Cells Translational Medicine</i> , 2018 , 7, 439-449 | 6.9 | 42 |
| 278 | Controversies in preterm brain injury. <i>Neurobiology of Disease</i> , 2016 , 92, 90-101 | 7.5 | 42 |
| 277 | Stem cell therapy for neonatal brain injury. <i>Clinics in Perinatology</i> , 2014 , 41, 133-48 | 2.8 | 42 |
| 276 | Neuronal TGF-beta1 mediates IL-9/mast cell interaction and exacerbates excitotoxicity in newborn mice. <i>Neurobiology of Disease</i> , 2005 , 18, 193-205 | 7.5 | 42 |
| 275 | Brain damage of the preterm infant: new insights into the role of inflammation. <i>Biochemical Society Transactions</i> , 2014 , 42, 557-63 | 5.1 | 41 |
| 274 | Neuroanatomical, sensorimotor and cognitive deficits in adult rats with white matter injury following prenatal ischemia. <i>Brain Pathology</i> , 2012 , 22, 1-16 | 6 | 41 |

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|-----|--|-----|----|
| 273 | Vasoactive intestinal peptide shortens both G1 and S phases of neural cell cycle in whole postimplantation cultured mouse embryos. <i>European Journal of Neuroscience</i> , 1998 , 10, 1734-42 | 3.5 | 41 |
| 272 | Agomelatine, a melatonin receptor agonist with 5-HT(2C) receptor antagonist properties, protects the developing murine white matter against excitotoxicity. <i>European Journal of Pharmacology</i> , 2008 , 588, 58-63 | 5.3 | 41 |
| 271 | Neuroprotective strategies for the neonatal brain. <i>Anesthesia and Analgesia</i> , 2008 , 106, 1670-80 | 3.9 | 41 |
| 270 | Neuronal migration disorder in Zellweger mice is secondary to glutamate receptor dysfunction. <i>Annals of Neurology</i> , 2000 , 48, 336-343 | 9.4 | 41 |
| 269 | Herpes simplex virus type 1 DNA persistence, progressive disease and transgenic immediate early gene promoter activity in chronic corneal infections in mice. <i>Journal of General Virology</i> , 1994 , 75 (Pt 6), 1201-10 | 4.9 | 41 |
| 268 | Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. <i>Glia</i> , 2016 , 64, 2306-2320 | 9 | 41 |
| 267 | ARCN1 Mutations Cause a Recognizable Craniofacial Syndrome Due to COPI-Mediated Transport Defects. <i>American Journal of Human Genetics</i> , 2016 , 99, 451-9 | 11 | 41 |
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