

# Joseph H Neale

## List of Publications by Citations

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56  
papers

3,216  
citations

32  
h-index

56  
g-index

57  
ext. papers

3,434  
ext. citations

6  
avg, IF

4.79  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 56 | N-Acetylaspartylglutamate: the most abundant peptide neurotransmitter in the mammalian central nervous system. <i>Journal of Neurochemistry</i> , <b>2000</b> , 75, 443-52   | 6    | 264       |
| 55 | N-acetylaspartylglutamate selectively activates mGluR3 receptors in transfected cells. <i>Journal of Neurochemistry</i> , <b>1997</b> , 69, 174-81   | 6    | 230       |
| 54 | Design of remarkably simple, yet potent urea-based inhibitors of glutamate carboxypeptidase II (NAALADase). <i>Journal of Medicinal Chemistry</i> , <b>2001</b> , 44, 298-301  | 8.3  | 181       |
| 53 | NAAG peptidase inhibitors and their potential for diagnosis and therapy. <i>Nature Reviews Drug Discovery</i> , <b>2005</b> , 4, 1015-26   | 64.1 | 176       |
| 52 | Synthesis of urea-based inhibitors as active site probes of glutamate carboxypeptidase II: efficacy as analgesic agents. <i>Journal of Medicinal Chemistry</i> , <b>2004</b> , 47, 1729-38   | 8.3  | 171       |
| 51 | NAAG peptidase inhibition reduces locomotor activity and some stereotypes in the PCP model of schizophrenia via group II mGluR. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 876-85  | 6    | 119       |
| 50 | N-acetylaspartylglutamate inhibits forskolin-stimulated cyclic AMP levels via a metabotropic glutamate receptor in cultured cerebellar granule cells. <i>Journal of Neurochemistry</i> , <b>1993</b> , 61, 943-8                           | 6    | 105       |
| 49 | The neurotransmitter N-acetylaspartylglutamate in models of pain, ALS, diabetic neuropathy, CNS injury and schizophrenia. <i>Trends in Pharmacological Sciences</i> , <b>2005</b> , 26, 477-84   | 13.2 | 101       |
| 48 | Localization of N-acetylaspartylglutamate-like immunoreactivity in selected areas of the rat brain. <i>Neuroscience Letters</i> , <b>1986</b> , 72, 14-20  | 3.3  | 92        |
| 47 | N-acetylaspartylglutamate activates cyclic AMP-coupled metabotropic glutamate receptors in cerebellar astrocytes. <i>Glia</i> , <b>1998</b> , 24, 172-9  | 9    | 88        |
| 46 | Antinociceptive effects of N-acetylaspartylglutamate (NAAG) peptidase inhibitors ZJ-11, ZJ-17 and ZJ-43 in the rat formalin test and in the rat neuropathic pain model. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 483-94 | 3.5  | 82        |
| 45 | NAAG peptidase inhibitor increases dialysate NAAG and reduces glutamate, aspartate and GABA levels in the dorsal hippocampus following fluid percussion injury in the rat. <i>Journal of Neurochemistry</i> , <b>2006</b> , 97, 1015-25    | 6    | 79        |
| 44 | N-acetylaspartylglutamate immunoreactivity in neurons of the cat's visual system. <i>Brain Research</i> , <b>1987</b> , 420, 188-93  | 3.7  | 77        |
| 43 | NAAG peptidase inhibitor reduces acute neuronal degeneration and astrocyte damage following lateral fluid percussion TBI in rats. <i>Journal of Neurotrauma</i> , <b>2005</b> , 22, 266-76   | 5.4  | 69        |
| 42 | Advances in understanding the peptide neurotransmitter NAAG and appearance of a new member of the NAAG neuropeptide family. <i>Journal of Neurochemistry</i> , <b>2011</b> , 118, 490-8  | 6    | 68        |
| 41 | The regional distribution of N-acetylaspartylglutamate (NAAG) and peptidase activity against NAAG in the rat nervous system. <i>Journal of Neurochemistry</i> , <b>1994</b> , 62, 275-81   | 6    | 68        |
| 40 | Ultrastructural localization of N-acetylaspartylglutamate in synaptic vesicles of retinal neurons. <i>Brain Research</i> , <b>1988</b> , 456, 375-81   | 3.7  | 67        |

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| 39 | Deletion of the glutamate carboxypeptidase II gene in mice reveals a second enzyme activity that hydrolyzes N-acetylaspartylglutamate. <i>Journal of Neurochemistry</i> , <b>2002</b> , 83, 20-9   | 6   | 66 |
| 38 | The cloning and characterization of a second brain enzyme with NAAG peptidase activity. <i>Journal of Neurochemistry</i> , <b>2004</b> , 89, 627-35  | 6   | 64 |
| 37 | Molecular cloning of a peptidase against N-acetylaspartylglutamate from a rat hippocampal cDNA library. <i>Journal of Neurochemistry</i> , <b>1997</b> , 69, 2270-7  | 6   | 63 |
| 36 | Calcium-dependent release of N-acetylaspartylglutamate from retinal neurons upon depolarization. <i>Brain Research</i> , <b>1988</b> , 475, 151-5  | 3-7 | 57 |
| 35 | Interactions between N-acetylaspartylglutamate and AMPA, kainate, and NMDA binding sites. <i>Journal of Neurochemistry</i> , <b>1994</b> , 63, 1714-9  | 6   | 55 |
| 34 | Endogenous N-acetylaspartylglutamate (NAAG) inhibits synaptic plasticity/transmission in the amygdala in a mouse inflammatory pain model. <i>Molecular Pain</i> , <b>2010</b> , 6, 60  | 3-4 | 54 |
| 33 | Phencyclidine and dizocilpine induced behaviors reduced by N-acetylaspartylglutamate peptidase inhibition via metabotropic glutamate receptors. <i>Biological Psychiatry</i> , <b>2008</b> , 63, 86-91   | 7-9 | 48 |
| 32 | beta-NAAG rescues LTP from blockade by NAAG in rat dentate gyrus via the type 3 metabotropic glutamate receptor. <i>Journal of Neurophysiology</i> , <b>2001</b> , 85, 1097-106  | 3-2 | 46 |
| 31 | Local administration of N-acetylaspartylglutamate (NAAG) peptidase inhibitors is analgesic in peripheral pain in rats. <i>European Journal of Neuroscience</i> , <b>2007</b> , 25, 147-58  | 3-5 | 45 |
| 30 | Biosynthesis of NAAG by an enzyme-mediated process in rat central nervous system neurons and glia. <i>Journal of Neurochemistry</i> , <b>2004</b> , 90, 989-97   | 6   | 43 |
| 29 | N-acetylaspartylglutamate immunoreactivity in neurons of the monkey's visual pathway. <i>Journal of Comparative Neurology</i> , <b>1991</b> , 313, 45-64   | 3-4 | 43 |
| 28 | Differential negative coupling of type 3 metabotropic glutamate receptor to cyclic GMP levels in neurons and astrocytes. <i>Journal of Neurochemistry</i> , <b>2006</b> , 96, 1071-7   | 6   | 42 |
| 27 | Effects of N-acetylaspartylglutamate (NAAG) peptidase inhibition on release of glutamate and dopamine in prefrontal cortex and nucleus accumbens in phencyclidine model of schizophrenia. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 21773-82 | 5-4 | 38 |
| 26 | Localization and transport of N-acetylaspartylglutamate in cells of whole murine brain in primary culture. <i>Journal of Neurochemistry</i> , <b>1993</b> , 60, 1631-8   | 6   | 37 |
| 25 | Mice lacking glutamate carboxypeptidase II develop normally, but are less susceptible to traumatic brain injury. <i>Journal of Neurochemistry</i> , <b>2015</b> , 134, 340-53  | 6   | 32 |
| 24 | Comparative distribution of N-acetylaspartylglutamate and GAD67 in the cerebellum and precerebellar nuclei of the rat utilizing enhanced carbodiimide fixation and immunohistochemistry. <i>Journal of Comparative Neurology</i> , <b>1994</b> , 347, 598-618  | 3-4 | 31 |
| 23 | mGluR3 and not mGluR2 receptors mediate the efficacy of NAAG peptidase inhibitor in validated model of schizophrenia. <i>Schizophrenia Research</i> , <b>2012</b> , 136, 160-1   | 3-6 | 30 |
| 22 | Glutamate carboxypeptidase II gene knockout attenuates oxidative stress and cortical apoptosis after traumatic brain injury. <i>BMC Neuroscience</i> , <b>2016</b> , 17, 15  | 3-2 | 29 |

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| 21 | Uptake, metabolism, and release of N-[3H]acetylaspartylglutamate by the avian retina. <i>Journal of Neurochemistry</i> , <b>1992</b> , 58, 2191-9   | 6    | 29 |
| 20 | Ketamine and N-acetylaspartylglutamate peptidase inhibitor exert analgesia in bone cancer pain. <i>Canadian Journal of Anaesthesia</i> , <b>2006</b> , 53, 891-8  | 3    | 26 |
| 19 | Type I and type II gamma-aminobutyric acid/benzodiazepine receptors: purification and analysis of novel receptor complex from neonatal cortex. <i>Journal of Neurochemistry</i> , <b>1989</b> , 52, 1114-22             | 6    | 25 |
| 18 | Immunohistological and electrophysiological evidence that N-acetylaspartylglutamate is a co-transmitter at the vertebrate neuromuscular junction. <i>European Journal of Neuroscience</i> , <b>2013</b> , 37, 118-29    | 3.5  | 24 |
| 17 | Post-injury administration of NAAG peptidase inhibitor prodrug, PGI-02776, in experimental TBI. <i>Brain Research</i> , <b>2011</b> , 1395, 62-73   | 3.7  | 23 |
| 16 | Intracerebroventricular administration of N-acetylaspartylglutamate (NAAG) peptidase inhibitors is analgesic in inflammatory pain. <i>Molecular Pain</i> , <b>2008</b> , 4, 31  | 3.4  | 23 |
| 15 | Immunological identification of multiple alpha-like subunits of the gamma-aminobutyric acidA receptor complex purified from neonatal rat cortex. <i>Journal of Neurochemistry</i> , <b>1989</b> , 53, 1089-95           | 6    | 23 |
| 14 | NAAG peptidase inhibitors and deletion of NAAG peptidase gene enhance memory in novel object recognition test. <i>European Journal of Pharmacology</i> , <b>2013</b> , 701, 27-32                                       | 5.3  | 19 |
| 13 | NAAG peptidase inhibition in the periaqueductal gray and rostral ventromedial medulla reduces flinching in the formalin model of inflammation. <i>Molecular Pain</i> , <b>2012</b> , 8, 67                              | 3.4  | 19 |
| 12 | Group II mGluR agonist LY354740 and NAAG peptidase inhibitor effects on prepulse inhibition in PCP and D-amphetamine models of schizophrenia. <i>Psychopharmacology</i> , <b>2011</b> , 216, 235-43                     | 4.7  | 19 |
| 11 | A role for N-acetylaspartylglutamate (NAAG) and mGluR3 in cognition. <i>Neurobiology of Learning and Memory</i> , <b>2019</b> , 158, 9-13   | 3.1  | 17 |
| 10 | N-acetylaspartylglutamate (NAAG) and glutamate carboxypeptidase II: An abundant peptide neurotransmitter-enzyme system with multiple clinical applications. <i>Progress in Neurobiology</i> , <b>2020</b> , 184, 101722 | 10.9 | 15 |
| 9  | NAAG Peptidase Inhibitors Act via mGluR3: Animal Models of Memory, Alzheimer's, and Ethanol Intoxication. <i>Neurochemical Research</i> , <b>2017</b> , 42, 2646-2657   | 4.6  | 14 |
| 8  | A role for the locus coeruleus in the analgesic efficacy of N-acetylaspartylglutamate peptidase (GCP II) inhibitors ZJ43 and 2-PMPA. <i>Molecular Pain</i> , <b>2017</b> , 13, 1744806917697008                         | 3.4  | 10 |
| 7  | Type 2 metabotropic glutamate receptor (mGluR2) fails to negatively couple to cGMP in stably transfected cells. <i>Neurochemistry International</i> , <b>2011</b> , 58, 176-9   | 4.4  | 6  |
| 6  | Two forms of the GABA <sub>A</sub> receptor distinguished by anion-exchange chromatography. <i>FEBS Letters</i> , <b>1989</b> , 247, 81-5   | 3.8  | 4  |
| 5  | Comparative analysis of rapidly transported axonal proteins in sensory neurons of the frog and rat. <i>Journal of Neurochemistry</i> , <b>1980</b> , 35, 838-42   | 6    | 4  |
| 4  | NAAG inhibits KCl-induced [3H]-GABA release via mGluR3, cAMP, PKA and L-type calcium conductance. <i>European Journal of Neuroscience</i> , <b>2001</b> , 13, 340-346   | 3.5  | 2  |

- 3 Ribozyme-mediated reduction of the GABA(A) receptor alpha1 subunit. *Molecular Brain Research*, **2001**, 92, 149-56 1
- 2 Conditioned medium from spinal cord cells stimulates DRG cells to migrate, cluster and rearrange in dissociated cell cultures. *International Journal of Developmental Neuroscience*, **1983**, 1, 249-56 2.7
- 1 Enzymes | Glutamate Carboxypeptidase II (EC 3.4.17.21) **2021**, 384-391