# Thomas B Shea

List of Publications by Year
in descending order



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|---|---|---|---|
| 86 papers | 4,505 citations | 101543 36 h-index | 102487 66 g-index |
| 86 all docs | 86 docs citations | 86 times ranked | 4163 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | An Overview of Studies Demonstrating that ex vivo Neuronal Networks Display Multiple Complex Behaviors: Emergent Properties of Nearest-Neighbor Interactions of Excitatory and Inhibitory Neurons.. The Open Neurology Journal, 2021, 15, 3-15. | 0.4 | 1 |
| 2 | Improvement of cognitive performance by a nutraceutical formulation: Underlying mechanisms revealed by laboratory studies. Free Radical Biology and Medicine, 2021, 174, 281-304. | 2.9 | 3 |
| 3 | Tau interferes with axonal neurite stabilization and cytoskeletal composition independently of its ability to associate with microtubules. Biology Open, 2020, 9, . | 1.2 | 0 |
| 4 | Synaptic Signals from Glutamate-Treated Neurons Induce Aberrant Post-Synaptic Signals in Untreated Neuronal Networks. The Open Neurology Journal, 2020, 14, 59-62. | 0.4 | 1 |
| 5 | Neurofilaments form flexible bundles during neuritogenesis in culture and in mature axons in situ. Journal of Neuroscience Research, 2019, 97, 1306-1318. | 2.9 | 0 |
| 6 | Choline and phosphatidylcholine may maintain cognitive performance by multiple mechanisms. American Journal of Clinical Nutrition, 2019, 110, 1268-1269. | 4.7 | 11 |
| 7 | Assembly and turnover of neurofilaments in growing axonal neurites. Biology Open, 2018, 7, . | 1.2 | 15 |
| 8 | While I Still Remember: 30 Years of Alzheimerâ€™s Disease Research. Journal of Alzheimer's Disease, 2018, 62, 1049-1057. | 2.6 | 4 |
| 9 | A High-fat and High-Cholesterol Diet Potentiates Oxidative Damage in Hippocampus of Mice Lacking Apolipoprotein E. The Open Neurology Journal, 2018, 12, 12-18. | 0.4 | 4 |
| 10 | Influence of a GSK3Î² phosphorylation site within the proximal C-terminus of neurofilament-H on neurofilament dynamics. Biology Open, 2017, 6, 1516-1527. | 1.2 | 4 |
| 11 | Robot-Embodied Neuronal Networks as an Interactive Model of Learning. The Open Neurology Journal, 2017, 11, 39-47. | 0.4 | 4 |
| 12 | Omega-3 Hastens and Omega-6 Delays the Progression of Neuropathology in a Murine Model of Familial ALS. The Open Neurology Journal, 2017, 11, 84-91. | 0.4 | 10 |
| 13 | Insufficient developmental excitatory neuronal activity fails to foster establishment of normal levels of inhibitory neuronal activity. International Journal of Developmental Neuroscience, 2016, 55, 66-71. | 1.6 | 3 |
| 14 | Additive Impairment of Synaptic Signaling in Cultured Cortical Neurons by Exogenously-Applied Oligomerized Amyloid-Î² and Airborne Nanoparticles Generated during Photocopying. Journal of Alzheimer's Disease, 2015, 47, 49-54. | 2.6 | 4 |
| 15 | Biological and simulated neuronal networks show similar competence on a visual tracking task. , 2015, , . | | 3 |
| 16 | A Phase II Randomized Clinical Trial of a Nutritional Formulation for Cognition and Mood in Alzheimer's Disease. Journal of Alzheimer's Disease, 2015, 45, 395-405. | 2.6 | 96 |
| 17 | Early expression of the high molecular weight neurofilament subunit attenuates axonal neurite outgrowth. Neuroscience Letters, 2015, 604, 36-41. | 2.1 | 8 |
| 18 | Cognitive testing for dementia is adversely affected by administration in a foreign location. BMC Research Notes, 2015, 8, 66. | 1.4 | 2 |

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|---|---|---|---|
| 19 | Nutritional supplementation for AlzheimerÊ¼s disease?. Current Opinion in Psychiatry, 2015, 28, 141-147. | 6.3 | 25 |
| 20 | Has Prenatal Folate Supplementation Established an At-Risk Population for Age-Related Cognitive Decline?. Journal of Alzheimer's Disease, 2014, 41, 667-669. | 2.6 | 4 |
| 21 | Lifetime requirement of the methionine cycle for neuronal development and maintenance. Current Opinion in Psychiatry, 2014, 27, 138-142. | 6.3 | 22 |
| 22 | Divergent and convergent roles for kinases and phosphatases in neurofilament dynamics. Journal of Cell Science, 2014, 127, 4064-77. | 2.0 | 32 |
| 23 | The discontinuous nature of neurofilament transport accommodates both establishment and repair of the axonal neurofilament array. Cytoskeleton, 2013, 70, 67-73. | 2.0 | 15 |
| 24 | Transient epileptiform signaling during neuronal network development: regulation by external stimulation and bimodal GABAergic activity. International Journal of Developmental Neuroscience, 2013, 31, 131-137. | 1.6 | 9 |
| 25 | Nutrition and Dementia: Are we Asking the Right Questions?. Journal of Alzheimer's Disease, 2012, 30, 27-33. | 2.6 | 21 |
| 26 | Positive argument for debate in J Neural Transmission: Alzheimerâ€™s disease: are we intervening too late? Yes, by years if not decades. Journal of Neural Transmission, 2012, 119, 1529-1532. | 2.8 | 8 |
| 27 | Stimulation with a low-amplitude, digitized synaptic signal to invoke robust activity within neuronal networks on multielectrode arrays. BioTechniques, 2012, 52, 177-182. | 1.8 | 16 |
| 28 | Interference with kinesinâ€based anterograde neurofilament axonal transport increases neurofilamentâ€neurofilament bundling. Cytoskeleton, 2012, 69, 371-379. | 2.0 | 16 |
| 29 | Câ€terminal neurofilament phosphorylation fosters neurofilamentâ€“neurofilament associations that compete with axonal transport. Cytoskeleton, 2011, 68, 8-17. | 2.0 | 22 |
| 30 | Neurofilament phosphorylation regulates axonal transport by an indirect mechanism: A merging of opposing hypotheses. Cytoskeleton, 2011, 68, 589-595. | 2.0 | 18 |
| 31 | Differential roles of kinesin and dynein in translocation of neurofilaments into axonal neurites. Journal of Cell Science, 2011, 124, 1022-1031. | 2.0 | 17 |
| 32 | Inhibitory neurons modulate spontaneous signaling in cultured cortical neurons: density-dependent regulation of excitatory neuronal signaling. Physical Biology, 2010, 7, 026009. | 1.8 | 18 |
| 33 | Apple Juice Improved Behavioral But Not Cognitive Symptoms in Moderate-to-Late Stage Alzheimerâ€™s Disease in an Open-Label Pilot Study. American Journal of Alzheimer's Disease and Other Dementias, 2010, 25, 367-371. | 1.9 | 33 |
| 34 | Neurofilament cross-bridging competes with kinesin-dependent association of neurofilaments with microtubules. Journal of Cell Science, 2009, 122, 3579-3586. | 2.0 | 29 |
| 35 | Dietary deficiency increases presenilin expression, gammaâ€secretase activity, and Abeta levels: potentiation by ApoE genotype and alleviation by Sâ€adenosyl methionine. Journal of Neurochemistry, 2009, 110, 831-836. | 3.9 | 33 |
| 36 | Efficacy of a Vitamin/Nutriceutical Formulation for Moderate-stage to Later-stage Alzheimer's disease: A Placebo-controlled Pilot Study. American Journal of Alzheimer's Disease and Other Dementias, 2009, 24, 27-33. | 1.9 | 112 |

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|---|---|---|---|
| 37 | Neurofilament dynamics: a tug of war by microtubule motors. Future Neurology, 2009, 4, 351-362. | 0.5 | 2 |
| 38 | Tau inhibits anterograde axonal transport and perturbs stability in growing axonal neurites in part by displacing kinesin cargo: Neurofilaments attenuate tauâ€mediated neurite instability. Cytoskeleton, 2008, 65, 89-99. | 4.4 | 81 |
| 39 | Folate deprivation increases tau phosphorylation by homocysteine-induced calcium influx and by inhibition of phosphatase activity: Alleviation by S-adenosyl methionine. Brain Research, 2008, 1199, 133-137. | 2.2 | 31 |
| 40 | Chapter 3 Folate Deprivation, the Methionine Cycle, and Alzheimer's Disease. Vitamins and Hormones, 2008, 79, 83-97. | 1.7 | 16 |
| 41 | Folate andS-adenosylmethionine modulate synaptic activity in cultured cortical neurons: acute differential impact on normal and apolipoprotein-deficient mice. Physical Biology, 2008, 5, 044002. | 1.8 | 12 |
| 42 | Folate deprivation increases presenilin expression, gammaâ€secretase activity, and Abeta levels in murine brain: potentiation by ApoE deficiency and alleviation by dietary Sâ€adenosyl methionine. Journal of Neurochemistry, 2007, 102, 753-760. | 3.9 | 66 |
| 43 | Inhibition of dynein but not kinesin induces aberrant focal accumulation of neurofilaments within axonal neurites. Brain Research, 2007, 1164, 125-131. | 2.2 | 21 |
| 44 | Effects of Dietary Supplementation with N-Acetyl Cysteine, Acetyl-l-Carnitine and S-Adenosyl Methionine on Cognitive Performance and Aggression in Normal Mice and Mice Expressing Human ApoE4. NeuroMolecular Medicine, 2007, 9, 264-269. | 3.4 | 58 |
| 45 | Dynein mediates retrograde neurofilament transport within axons and anterograde delivery of NFs from perikarya into axons: Regulation by multiple phosphorylation events. Cytoskeleton, 2006, 63, 266-286. | 4.4 | 66 |
| 46 | Expression and activity of methionine cycle genes are altered following folate and vitamin E deficiency under oxidative challenge: Modulation by apolipoprotein E-deficiency. Nutritional Neuroscience, 2006, 9, 17-24. | 3.1 | 16 |
| 47 | Folate, vitamin E, and acetyl-l-carnitine provide synergistic protection against oxidative stress resulting from exposure of human neuroblastoma cells to amyloid-beta. Brain Research, 2005, 1061, 114-117. | 2.2 | 65 |
| 48 | Mitogen-activated protein kinase regulates neurofilament axonal transport. Journal of Cell Science, 2004, 117, 4629-4642. | 2.0 | 50 |
| 49 | Neurofilament Transport Is Dependent on Actin and Myosin. Journal of Neuroscience, 2004, 24, 9486-9496. | 3.6 | 45 |
| 50 | Cdk5 regulates axonal transport and phosphorylation of neurofilaments in cultured neurons. Journal of Cell Science, 2004, 117, 933-941. | 2.0 | 69 |
| 51 | Folate deficiency and homocysteine induce toxicity in cultured dorsal root ganglion neurons via cytosolic calcium accumulation. Aging Cell, 2004, 3, 71-76. | 6.7 | 63 |
| 52 | Folate and Vitamin E Deficiency Impair Cognitive Performance in Mice Subjected to Oxidative Stress: Differential Impact on Normal Mice and Mice Lacking Apolipoprotein E. NeuroMolecular Medicine, 2003, 4, 197-202. | 3.4 | 29 |
| 53 | Regulation of the transition from vimentin to neurofilaments during neuronal differentiation. Cytoskeleton, 2003, 56, 193-205. | 4.4 | 53 |
| 54 | Folate and homocysteine metabolism in neural plasticity and neurodegenerative disorders. Trends in Neurosciences, 2003, 26, 137-146. | 8.6 | 749 |

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| 55 | Folate deprivation induces neurodegeneration: roles of oxidative stress and increased homocysteine. Neurobiology of Disease, 2003, 14, 32-42. | 4.4 | 214 |
| 56 | Folate quenches oxidative damage in brains of apolipoprotein E-deficient mice: augmentation by vitamin E. Molecular Brain Research, 2002, 108, 1-6. | 2.3 | 65 |
| 57 | Multiple aspects of homocysteine neurotoxicity: Glutamate excitotoxicity, kinase hyperactivation and DNA damage. Journal of Neuroscience Research, 2002, 70, 694-702. | 2.9 | 326 |
| 58 | Acetyl-L-carnitine protects against amyloid-beta neurotoxicity: roles of oxidative buffering and ATP levels. Neurochemical Research, 2002, 27, 501-505. | 3.3 | 53 |
| 59 | Neurofilaments Consist of Distinct Populations That Can Be Distinguished by C-Terminal Phosphorylation, Bundling, and Axonal Transport Rate in Growing Axonal Neurites. Journal of Neuroscience, 2001, 21, 2195-2205. | 3.6 | 104 |
| 60 | Homocysteine potentiates Î²â€amyloid neurotoxicity: role of oxidative stress. Journal of Neurochemistry, 2001, 78, 249-253. | 3.9 | 244 |
| 61 | The predominant form in which neurofilament subunits undergo axonal transport varies during axonal initiation, elongation, and maturation. Cytoskeleton, 2001, 48, 61-83. | 4.4 | 78 |
| 62 | Phospho-dependent association of neurofilament proteins with kinesin in situ. Cytoskeleton, 2000, 45, 249-262. | 4.4 | 104 |
| 63 | Neuronal intermediate filament protein ?-internexin facilitates axonal neurite elongation in neuroblastoma cells. Cytoskeleton, 1999, 43, 322-333. | 4.4 | 42 |
| 64 | Selective stabilization of microtubules within the proximal region of developing axonal neurites. Brain Research Bulletin, 1999, 48, 255-261. | 3.0 | 47 |
| 65 | Regulation of neurofilament axonal transport by phosphorylation in optic axons in situ. Cytoskeleton, 1999, 42, 230-240. | 4.4 | 3 |
| 66 | Neurofilament subunits can undergo axonal transport without incorporation into Triton-insoluble structures. , 1998, 40, 44-58. | | 41 |
| 67 | Triton-soluble phosphovariants of the heavy neurofilament subunit in developing and mature mouse central nervous system. Journal of Neuroscience Research, 1997, 48, 515-523. | 2.9 | 35 |
| 68 | Role of vimentin in early stages of neuritogenesis in cultured hippocampal neurons. International Journal of Developmental Neuroscience, 1996, 14, 739-748. | 1.6 | 90 |
| 69 | Regulation of neuronal differentiation by the Î± and Ïµ isoforms of protein kinase C. Neuroscience Research Communications, 1996, 18, 195-201. | 0.2 | 1 |
| 70 | Calcium Influx into Human Neuroblastoma Cells Induces ALZâ€50 Immunoreactivity: Involvement of Calpainâ€Mediated Hydrolysis of Protein Kinase C. Journal of Neurochemistry, 1996, 66, 1539-1549. | 3.9 | 54 |
| 71 | Proteolysis of protein kinase C: mM and Î¼M calcium-requiring calpains have different abilities to generate, and degrade the free catalytic subunit, protein kinase M. FEBS Letters, 1995, 367, 223-227. | 2.8 | 63 |
| 72 | Enhancement of Neurite Outgrowth Following Calpain Inhibition Is Mediated by Protein Kinase C. Journal of Neurochemistry, 1995, 65, 517-527. | 3.9 | 42 |

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| 73 | Degradation of protein kinase CÎ± and its free catalytic subunit, protein kinase M, in intact human neuroblastoma cells and under cell-free conditions. FEBS Letters, 1994, 350, 223-229. | 2.8 | 46 |
| 74 | Triton-soluble phosphovariants of the high molecular weight neurofilament subunit from NB2a/dl cells are assembly-competent. FEBS Letters, 1994, 343, 131-136. | 2.8 | 9 |
| 75 | Differential Expression and Subcellular Localization of Protein Kinase C ?, ?, ?, ?, and ? Isoforms in SH-SY5Y Neuroblastoma Cells: Modifications During Differentiation. Journal of Neurochemistry, 1993, 60, 289-298. | 3.9 | 74 |
| 76 | Intracellular delivery of protein kinase C-Î± or Îµ isoform-specific antibodies promotes acquisition of a morphologically differentiated phenotype in neuroblastoma cells. FEBS Letters, 1992, 297, 91-94. | 2.8 | 43 |
| 77 | Regulation of neuronal migration and neuritogenesis by distinct surface proteases Relative contribution of plasmin and a thrombin-like protease. FEBS Letters, 1992, 307, 190-194. | 2.8 | 19 |
| 78 | Aluminum inhibits neurofilament protein degradation by multiple cytoskeleton-associated proteases. FEBS Letters, 1992, 307, 195-198. | 2.8 | 28 |
| 79 | Aluminum Alters the Electrophoretic Properties of Neurofilament Proteins: Role of Phosphorylation State. Journal of Neurochemistry, 1992, 58, 542-547. | 3.9 | 43 |
| 80 | Distinct Mechanisms of Differentiation of SH-SY5Y Neuroblastoma Cells by Protein Kinase C Activators and Inhibitors. Journal of Neurochemistry, 1992, 58, 1191-1198. | 3.9 | 54 |
| 81 | Dynamics of neuronal intermediate filaments: A developmental perspective. Cytoskeleton, 1992, 22, 81-91. | 4.4 | 207 |
| 82 | Multiple Proteases Regulate Neurite Outgrowth in NB2a/dl Neuroblastoma Cells. Journal of Neurochemistry, 1991, 56, 842-851. | 3.9 | 49 |
| 83 | Dynamics of Phosphorylation and Assembly of the High Molecular Weight Neurofilament Subunit in NB2a/d1 Neuroblastoma. Journal of Neurochemistry, 1990, 55, 1784-1792. | 3.9 | 58 |
| 84 | Post-translational modification of Î±-tubulin by acetylation and detyrosination in NB2a/d1 neuroblastoma cells. Developmental Brain Research, 1990, 51, 195-204. | 1.7 | 18 |
| 85 | Expression of a Plasma Membrane Proteolipid During Differentiation of Neuronal and Glial Cells in Primary Culture. Journal of Neurochemistry, 1986, 47, 697-706. | 3.9 | 17 |
| 86 | Effect of retinoic acid on growth and morphological differentiation of mouse NB2a neuroblastoma cells in culture. Developmental Brain Research, 1985, 21, 307-314. | 1.7 | 119 |