# Alain Buisson

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4445780/publications.pdf

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| 78 | 5,556 | 76326 | 76900 |
|---|---|---|---|
| papers | citations | 40 h-index | 74 g-index |

| 84 | 84 | 84 | 6567 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Astrocyteâ€“neuron interplay is critical for Alzheimer's disease pathogenesis and is rescued by TRPA1 channel blockade. Brain, 2022, 145, 388-405. | 7.6 | 41 |
| 2 | Tubulin tyrosination regulates synaptic function and is disrupted in Alzheimerâ€™s disease. Brain, 2022, 145, 2486-2506. | 7.6 | 17 |
| 3 | Assembly of The Mitochondrial Complexâ€…I Assembly Complex Suggests a Regulatory Role for Deflavination. Angewandte Chemie - International Edition, 2021, 60, 4689-4697. | 13.8 | 14 |
| 4 | Pyr1-Mediated Pharmacological Inhibition of LIM Kinase Restores Synaptic Plasticity and Normal Behavior in a Mouse Model of Schizophrenia. Frontiers in Pharmacology, 2021, 12, 627995. | 3.5 | 8 |
| 5 | VEGF counteracts amyloid-Î²-induced synaptic dysfunction. Cell Reports, 2021, 35, 109121. | 6.4 | 19 |
| 6 | Reduction in the neuronal surface of post and presynaptic GABA<sub>B</sub> receptors in the hippocampus in a mouse model of Alzheimer's disease. Brain Pathology, 2020, 30, 554-575. | 4.1 | 22 |
| 7 | Density of GABAB Receptors Is Reduced in Granule Cells of the Hippocampus in a Mouse Model of Alzheimerâ€™s Disease. International Journal of Molecular Sciences, 2020, 21, 2459. | 4.1 | 21 |
| 8 | Effect of AÎ² Oligomers on Neuronal APP Triggers a Vicious Cycle Leading to the Propagation of Synaptic Plasticity Alterations to Healthy Neurons. Journal of Neuroscience, 2020, 40, 5161-5176. | 3.6 | 13 |
| 9 | Improved optical slicing by stimulated emission depletion light sheet microscopy. Biomedical Optics Express, 2020, 11, 660. | 2.9 | 7 |
| 10 | Amyloid Fibers Reveal Themselves With Nearâ€Infrared. Movement Disorders, 2019, 34, 1643-1643. | 3.9 | 0 |
| 11 | Autophagy Is Required for Memory Formation and Reverses Age-Related Memory Decline. Current Biology, 2019, 29, 435-448.e8. | 3.9 | 150 |
| 12 | Synaptotoxicity in Alzheimer's Disease Involved a Dysregulation of Actin Cytoskeleton Dynamics through Cofilin 1 Phosphorylation. Journal of Neuroscience, 2018, 38, 10349-10361. | 3.6 | 80 |
| 13 | A key function for microtubule-associated-protein 6 in activity-dependent stabilisation of actin filaments in dendritic spines. Nature Communications, 2018, 9, 3775. | 12.8 | 30 |
| 14 | The amyloid-Î² oligomer AÎ²*56 induces specific alterations in neuronal signaling that lead to tau phosphorylation and aggregation. Science Signaling, 2017, 10, . | 3.6 | 90 |
| 15 | GluN2B Subunit Labeling with Fluorescent Probes and High-Resolution Live Imaging. Methods in Molecular Biology, 2017, 1677, 171-183. | 0.9 | 1 |
| 16 | TRPA1 channels promote astrocytic Ca2+ hyperactivity and synaptic dysfunction mediated by oligomeric forms of amyloid-Î² peptide. Molecular Neurodegeneration, 2017, 12, 53. | 10.8 | 62 |
| 17 | Involvement of CRF2 signaling in enterocyte differentiation. World Journal of Gastroenterology, 2017, 23, 5127. | 3.3 | 14 |
| 18 | Specific alterations of tau phosphorylation and neuronal signaling induced by the amyloid-Î² oligomer AÎ²*56. Neurobiology of Aging, 2016, 39, S27. | 3.1 | 0 |

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|---|---|---|---|
| 19 | Disruption of dopaminergic transmission remodels tripartite synapse morphology and astrocytic calcium activity within substantia nigra pars reticulata. Glia, 2015, 63, 673-683. | 4.9 | 40 |
| 20 | Activity-Dependent Tau Protein Translocation to Excitatory Synapse Is Disrupted by Exposure to Amyloid-Beta Oligomers. Journal of Neuroscience, 2014, 34, 6084-6097. | 3.6 | 207 |
| 21 | Reciprocal disruption of neuronal signaling and AÎ² production mediated by extrasynaptic NMDA receptors: a downward spiral. Cell and Tissue Research, 2014, 356, 279-286. | 2.9 | 40 |
| 22 | Iron overload accelerates neuronal amyloid-Î² production and cognitive impairment in transgenic mice model of Alzheimer's disease. Neurobiology of Aging, 2014, 35, 2288-2301. | 3.1 | 106 |
| 23 | Oxygen glucose deprivation-induced astrocyte dysfunction provokes neuronal death through oxidative stress. Pharmacological Research, 2014, 87, 8-17. | 7.1 | 36 |
| 24 | NMDA receptor dysfunction contributes to impaired brainâ€derived neurotrophic factorâ€induced facilitation of hippocampal synaptic transmission in a <scp>T</scp>au transgenic model. Aging Cell, 2013, 12, 11-23. | 6.7 | 64 |
| 25 | Synthesis and in Vitro Characterisation of Ifenprodilâ€Based Fluorescein Conjugates as GluN1/GluN2B Nâ€Methylâ€<scp>D</scp>â€aspartate Receptor Antagonists. ChemBioChem, 2013, 14, 759-769. | 2.6 | 6 |
| 26 | Confocal Microscopy Imaging of NR2B-Containing NMDA Receptors Based on Fluorescent Ifenprodil-Like Conjugates. Bioconjugate Chemistry, 2012, 23, 21-26. | 3.6 | 18 |
| 27 | Interaction Between ÂCaMKII and GluN2B Controls ERK-Dependent Plasticity. Journal of Neuroscience, 2012, 32, 10767-10779. | 3.6 | 60 |
| 28 | Ultra-sensitive molecular MRI of cerebrovascular cell activation enables early detection of chronic central nervous system disorders. NeuroImage, 2012, 63, 760-770. | 4.2 | 64 |
| 29 | Selective Impairment of Some Forms of Synaptic Plasticity by Oligomeric Amyloid-Î² Peptide in the Mouse Hippocampus: Implication of Extrasynaptic NMDA Receptors. Journal of Alzheimer's Disease, 2012, 32, 183-196. | 2.6 | 37 |
| 30 | O3-04-01: Amyloid-Beta oligomers accumulate in the postsynaptic density fraction and reveal cognitive impairment in transgenic mice model of Alzheimer's disease. , 2011, 7, S505-S505. | | 0 |
| 31 | Synthesis, evaluation and metabolic studies of radiotracers containing a 4-(4-[18F]-fluorobenzyl)piperidin-1-yl moiety for the PET imaging of NR2B NMDA receptors. European Journal of Medicinal Chemistry, 2011, 46, 2295-2309. | 5.5 | 29 |
| 32 | Synapses, NMDA receptor activity and neuronal AÎ² production in Alzheimerâ€™s disease. Reviews in the Neurosciences, 2011, 22, 285-294. | 2.9 | 63 |
| 33 | Activation of Extrasynaptic, But Not Synaptic, NMDA Receptors Modifies Amyloid Precursor Protein Expression Pattern and Increases Amyloid-Î² Production. Journal of Neuroscience, 2010, 30, 15927-15942. | 3.6 | 156 |
| 34 | Copper-catalyzed amination of (bromophenyl)ethanolamine for a concise synthesis of aniline-containing analogues of NMDA NR2B antagonist ifenprodil. Organic and Biomolecular Chemistry, 2010, 8, 1111. | 2.8 | 48 |
| 35 | Reverse glial glutamate uptake triggers neuronal cell death through extrasynaptic NMDA receptor activation. Molecular and Cellular Neurosciences, 2009, 40, 463-473. | 2.2 | 69 |
| 36 | p3 peptide, a truncated form of AÎ² devoid of synaptotoxic effect, does not assemble into soluble oligomers. FEBS Letters, 2008, 582, 1865-1870. | 2.8 | 40 |

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|---|---|---|---|
| 37 | Neuronal viability is controlled by a functional relation between synaptic and extrasynaptic NMDA receptors. FASEB Journal, 2008, 22, 4258-4271. | 0.5 | 224 |
| 38 | Comparison of the pharmacological properties of GK11 and MK801, two NMDA receptor antagonists: towards an explanation for the lack of intrinsic neurotoxicity of GK11. Journal of Neurochemistry, 2007, 103, 1682-1696. | 3.9 | 10 |
| 39 | P22 REDUCTION OF ISCHEMIC BRAIN DAMAGE BY NITROUS OXIDE AND XENON.. Behavioural Pharmacology, 2006, 17, 547. | 1.7 | 0 |
| 40 | NMDA Receptor Activation Inhibits Î±-Secretase and Promotes Neuronal Amyloid-Î² Production. Journal of Neuroscience, 2005, 25, 9367-9377. | 3.6 | 178 |
| 41 | Akt-dependent Expression of NAIP-1 Protects Neurons against Amyloid-Î² Toxicity. Journal of Biological Chemistry, 2005, 280, 24941-24947. | 3.4 | 51 |
| 42 | Differential role of synaptic an extrasynaptic NMDA receptors in glutamate mediated neuronal injury. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S445-S445. | 4.3 | 0 |
| 43 | 2,7-Bis-(4-Amidinobenzylidene)-Cycloheptan-1-One Dihydrochloride, tPA Stop, Prevents tPA-Enhanced Excitotoxicity Both In Vitro and In Vivo. Journal of Cerebral Blood Flow and Metabolism, 2004, 24, 1153-1159. | 4.3 | 20 |
| 44 | Neurotrophin-3-induced PI-3 kinase/Akt signaling rescues cortical neurons from apoptosis. Experimental Neurology, 2004, 187, 38-46. | 4.1 | 50 |
| 45 | Is tissue-type plasminogen activator a neuromodulator?. Molecular and Cellular Neurosciences, 2004, 25, 594-601. | 2.2 | 65 |
| 46 | Neuroprotection by Nitrous Oxide and Xenon and Its Relation to Minimum Alveolar Concentration. Anesthesiology, 2004, 101, 260-261. | 2.5 | 14 |
| 47 | Transforming growth factor-beta and ischemic brain injury. Cellular and Molecular Neurobiology, 2003, 23, 539-550. | 3.3 | 90 |
| 48 | Reduction of Ischemic Brain Damage by Nitrous Oxide and Xenon. Journal of Cerebral Blood Flow and Metabolism, 2003, 23, 1168-1173. | 4.3 | 127 |
| 49 | Tissue plasminogen activator and NMDA receptor cleavage. Nature Medicine, 2003, 9, 371-372. | 30.7 | 79 |
| 50 | Reply to "Tissue plasminogen activator and NMDA receptor cleavage". Nature Medicine, 2003, 9, 372-373. | 30.7 | 18 |
| 51 | Transforming growth factor Î±â€induced expression of typeâ€1 plasminogen activator inhibitor in astrocytes rescues neurons from excitotoxicity. FASEB Journal, 2003, 17, 277-279. | 0.5 | 48 |
| 52 | Transforming Growth Factor-Î²1 Potentiates Amyloid-Î² Generation in Astrocytes and in Transgenic Mice. Journal of Biological Chemistry, 2003, 278, 18408-18418. | 3.4 | 127 |
| 53 | Le tranforming growth factor-Î² (TGF-p) a t-il un rÃ1e neuroprotecteur dans lâ€™ischÃ©mie cÃ©rÃ©brale ?. SociÃ©tÃ© De Biologie Journal, 2003, 197, 145-150. | 0.3 | 3 |
| 54 | Smad3-Dependent Induction of Plasminogen Activator Inhibitor-1 in Astrocytes Mediates Neuroprotective Activity of Transforming Growth Factor-Î²1 against NMDA-Induced Necrosis. Molecular and Cellular Neurosciences, 2002, 21, 634-644. | 2.2 | 77 |

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| 55 | Transforming Growth Factor-Î²1â€"Modulated Cerebral Gene Expression. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1114-1123. | 4.3 | 24 |
| 56 | Matching Gene Expression with Hypometabolism after Cerebral Ischemia in the Nonhuman Primate. Journal of Cerebral Blood Flow and Metabolism, 2002, 22, 1165-1169. | 4.3 | 7 |
| 57 | Matching Gene Expression With Hypometabolism After Cerebral Ischemia in the Nonhuman Primate. Journal of Cerebral Blood Flow and Metabolism, 2002, , 1165-1169. | 4.3 | 2 |
| 58 | Neuroprotection Mediated by Glial Cell Line-Derived Neurotrophic Factor: Involvement of a Reduction of NMDA-Induced Calcium Influx by the Mitogen-Activated Protein Kinase Pathway. Journal of Neuroscience, 2001, 21, 3024-3033. | 3.6 | 182 |
| 59 | Complement anaphylatoxin C3a is selectively protective against NMDA-induced neuronal cell death. NeuroReport, 2001, 12, 289-293. | 1.2 | 103 |
| 60 | The proteolytic activity of tissue-plasminogen activator enhances NMDA receptor-mediated signaling. Nature Medicine, 2001, 7, 59-64. | 30.7 | 678 |
| 61 | Increased Expression of Transforming Growth Factor-Î² after Cerebral Ischemia in the Baboon: An Endogenous Marker of Neuronal Stress?. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 820-827. | 4.3 | 37 |
| 62 | A Soluble Transforming Growth Factor-Î² (TGF-Î²) Type I Receptor Mimics TGF-Î² Responses. Journal of Biological Chemistry, 2001, 276, 46243-46250. | 3.4 | 13 |
| 63 | Serine Protease Inhibitors: Novel Therapeutic Targets for Stroke?. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 755-764. | 4.3 | 91 |
| 64 | Ischemia-Induced Interleukin-6 as a Potential Endogenous Neuroprotective Cytokine against NMDA Receptor-Mediated Excitoxicity in the Brain. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 956-966. | 4.3 | 176 |
| 65 | Transforming growth factorâ€Î²l as a regulator of the serpins/tâ€PA axis in cerebral ischemia. FASEB Journal, 1999, 13, 1315-1324. | 0.5 | 96 |
| 66 | A Transforming Growth Factor-Î² Antagonist Unmasks the Neuroprotective Role of This Endogenous Cytokine in Excitotoxic and Ischemic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1345-1353. | 4.3 | 121 |
| 67 | Upâ€regulation of a serine protease inhibitor in astrocytes mediates the neuroprotective activity of transforming growth factor Î²1. FASEB Journal, 1998, 12, 1683-1691. | 0.5 | 115 |
| 68 | Evidence of Type I and Type II Transforming Growth Factorâ€Î² Receptors in Central Nervous Tissues: Changes Induced by Focal Cerebral Ischemia. Journal of Neurochemistry, 1998, 70, 2296-2304. | 3.9 | 61 |
| 69 | Membraneâ€delimited modulation of NMDA currents by metabotropic glutamate receptor subtypes 1/5 in cultured mouse cortical neurons.. Journal of Physiology, 1997, 499, 721-732. | 2.9 | 76 |
| 70 | DCG-IV Selectively Attenuates Rapidly Triggered NMDA-induced Neurotoxicity in Cortical Neurons. European Journal of Neuroscience, 1996, 8, 138-143. | 2.6 | 69 |
| 71 | The inhibitory mGluR agonist, s-4-carboxy-3-hydroxy-phenylglycine selectively attenuates NMDA neurotoxicity and oxygen-glucose deprivation-induced neuronal death. Neuropharmacology, 1995, 34, 1081-1087. | 4.1 | 157 |
| 72 | Nitric Oxide and Cerebral Ischemia. Annals of the New York Academy of Sciences, 1994, 738, 341-347. | 3.8 | 8 |

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|---|---|---|---|
| 73 | Mechanisms Involved in the Neuroprotective Activity of a Nitric Oxide Synthase Inhibitor During Focal Cerebral Ischemia. Journal of Neurochemistry, 1993, 61, 690-696. | 3.9 | 156 |
| 74 | The neuroprotective effect of a nitric oxide inhibitor in a rat model of focal cerebral ischaemia. British Journal of Pharmacology, 1992, 106, 766-767. | 5.4 | 221 |
| 75 | Striatal Protection Induced by Lesioning the Substantia Nigra of Rats Subjected to Focal Ischemia. Journal of Neurochemistry, 1992, 59, 1153-1157. | 3.9 | 90 |
| 76 | Nigrostriatal pathway modulates striatum vulnerability to quinolinic acid. Neuroscience Letters, 1991, 131, 257-259. | 2.1 | 33 |
| 77 | Lesioning the substantia nigra reduces striatal infarct volume following focal ischemia in rats. Fundamental and Clinical Pharmacology, 1991, 5, 645-647. | 1.9 | 5 |
| 78 | Combination of horseradish peroxidase and lucifer yellow staining for selective labeling of neurons at the electron microscopic level.. Journal of Histochemistry and Cytochemistry, 1991, 39, 1579-1583. | 2.5 | 3 |