

# Alan J Hargreaves

## List of Publications by Year in descending order

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76  
papers

1,368  
citations

257101

24  
h-index

377514

34  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1461  
citing authors

#	ARTICLE	IF	CITATIONS
1	Putative adverse outcome pathways relevant to neurotoxicity. <i>Critical Reviews in Toxicology</i> , 2015, 45, 83-91.	1.9	92
2	Tricresyl phosphate inhibits the formation of axon-like processes and disrupts neurofilaments in cultured mouse N2a and rat PC12 cells. <i>Neuroscience Letters</i> , 1998, 242, 101-104.	1.0	56
3	Phosphorylation of tubulin enhances its interaction with membranes. <i>Nature</i> , 1986, 323, 827-828.	13.7	55
4	An extracellular transglutaminase is required for apple pollen tube growth. <i>Biochemical Journal</i> , 2010, 429, 261-271.	1.7	49
5	The toxicity of chlorpyrifos towards differentiating mouse N2a neuroblastoma cells. <i>Toxicology in Vitro</i> , 2001, 15, 369-372.	1.1	48
6	The recovery of <i>Arcobacter butzleri</i> NCTC 12481 from various temperature treatments. <i>Journal of Applied Microbiology</i> , 2001, 91, 929-932.	1.4	45
7	The effects of diazinon and cypermethrin on the differentiation of neuronal and glial cell lines. <i>Toxicology and Applied Pharmacology</i> , 2007, 219, 172-180.	1.3	45
8	Alterations in the Mitochondrial Proteome of Neuroblastoma Cells in Response to Complex 1 Inhibition. <i>Journal of Proteome Research</i> , 2011, 10, 1974-1986.	1.8	44
9	The toxicity of organophosphate compounds towards cultured PC12 cells. <i>Toxicology Letters</i> , 1994, 70, 71-76.	0.4	42
10	Protection from MPTP-induced neurotoxicity in differentiating mouse N2a neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2008, 76, 650-660.	2.1	42
11	Glycation of Brain Actin in Experimental Diabetes. <i>Journal of Neurochemistry</i> , 1993, 61, 436-442.	2.1	41
12	A monoclonal antibody raised against cytoplasmic fibrillar bundles from carrot cells, and its cross-reaction with animal intermediate filaments. <i>Journal of Cell Science</i> , 1989, 92, 371-378.	1.2	40
13	Cardioprotective and Cardiotoxic Effects of Quercetin and Two of Its <i>In Vivo</i> Metabolites on Differentiated H9c2 Cardiomyocytes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2015, 116, 96-109.	1.2	35
14	On the distribution of microtubule-associated intermediate filament antigens in plant suspension cells. <i>Journal of Cell Science</i> , 1989, 93, 427-438.	1.2	35
15	Localization and Characterization of Tubulin-Like Proteins Associated with Brain Mitochondria: The Presence of a Membrane-Specific Isoform. <i>Journal of Neurochemistry</i> , 1985, 45, 490-496.	2.1	33
16	Inhibition of neurite outgrowth in differentiating mouse N2a neuroblastoma cells by phenyl saligenin phosphate: Effects on MAP kinase (ERK 1/2) activation, neurofilament heavy chain phosphorylation and neuropathy target esterase activity. <i>Biochemical Pharmacology</i> , 2006, 71, 1240-1247.	2.0	32
17	Diazinon oxon affects the differentiation of mouse N2a neuroblastoma cells. <i>Archives of Toxicology</i> , 2009, 83, 373-380.	1.9	32
18	Effects of neuropathic and non-neuropathic isomers of tricresyl phosphate and their microsomal activation on the production of axon-like processes by differentiating mouse N2a neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2008, 76, 671-678.	2.1	31

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19	The effects of carbaryl and trichlorphon on differentiating mouse N2a neuroblastoma cells. <i>Toxicology Letters</i> , 1999, 110, 79-84.	0.4	29
20	Inhibition of neurite outgrowth in N2a cells by leptophos and carbaryl: effects on neurofilament heavy chain, GAP-43 and HSP-70. <i>Toxicology in Vitro</i> , 2003, 17, 115-120.	1.1	29
21	Effects of sub-lethal neurite outgrowth inhibitory concentrations of chlorpyrifos oxon on cytoskeletal proteins and acetylcholinesterase in differentiating N2a cells. <i>Toxicology and Applied Pharmacology</i> , 2011, 256, 330-336.	1.3	29
22	Inhibition of extension outgrowth in differentiating rat C6 glioma cells by chlorpyrifos and chlorpyrifos oxon: Effects on microtubule proteins. <i>Toxicology in Vitro</i> , 2008, 22, 1387-1391.	1.1	28
23	Fipronil interferes with the differentiation of mouse N2a neuroblastoma cells. <i>Toxicology Letters</i> , 2011, 201, 86-91.	0.4	27
24	An improved colorimetric assay for the measurement of transglutaminase (type II) $\hat{\mu}$ -( $\hat{\nu}$ -glutamyl) lysine cross-linking activity. <i>Analytical Biochemistry</i> , 2004, 330, 164-166.	1.1	26
25	Triiodothyronine (T3) induces neurite formation and increases synthesis of a protein related to MAP 1B in cultured cells of neuronal origin. <i>Developmental Brain Research</i> , 1988, 38, 141-148.	2.1	24
26	Proteomic analysis of differentiating neuroblastoma cells treated with sub-lethal neurite inhibitory concentrations of diazinon: Identification of novel biomarkers of effect. <i>Toxicology and Applied Pharmacology</i> , 2009, 240, 159-165.	1.3	23
27	A1 adenosine receptor-induced phosphorylation and modulation of transglutaminase 2 activity in H9c2 cells: A role in cell survival. <i>Biochemical Pharmacology</i> , 2016, 107, 41-58.	2.0	21
28	Reduced tubulin tyrosination as an early marker of mercury toxicity in differentiating N2a cells. <i>Toxicology in Vitro</i> , 2007, 21, 1258-1261.	1.1	20
29	Diazinon oxon interferes with differentiation of rat C6 glioma cells. <i>Toxicology in Vitro</i> , 2009, 23, 1548-1552.	1.1	20
30	Sub-lethal concentrations of CdCl <sub>2</sub> disrupt cell migration and cytoskeletal proteins in cultured mouse TM4 Sertoli cells. <i>Toxicology in Vitro</i> , 2016, 32, 154-165.	1.1	20
31	Neurodegenerations Induced by Organophosphorous Compounds. <i>Advances in Experimental Medicine and Biology</i> , 2012, 724, 189-204.	0.8	19
32	Effects of 1-Methyl-4-Phenyl-1,2,3,6-Tetrahydropyridine on Differentiating Mouse N2a Neuroblastoma Cells. <i>Journal of Neurochemistry</i> , 2001, 75, 133-140.	2.1	18
33	Chlorpyrifos- and chlorpyrifos oxon-induced neurite retraction in pre-differentiated N2a cells is associated with transient hyperphosphorylation of neurofilament heavy chain and ERK 1/2. <i>Toxicology and Applied Pharmacology</i> , 2016, 308, 20-31.	1.3	18
34	A co-culture nanofibre scaffold model of neural cell degeneration in relevance to Parkinson's disease. <i>Scientific Reports</i> , 2020, 10, 2767.	1.6	18
35	Inhibition of Rat Platelet 5-Hydroxytryptamine Uptake by Chlorpyrifos and Carbaryl. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2001, 89, 195-200.	0.0	17
36	Effects of Chlorpyrifos and Chlorpyrifos-Methyl on the Outgrowth of Axon-Like Processes, Tubulin, and GAP-43 in N2a Cells. <i>Toxicology Mechanisms and Methods</i> , 2005, 15, 405-410.	1.3	17

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37	The characterization of phospholipids associated with microtubules, purified tubulin and microtubule associated proteins in vitro. <i>International Journal of Biochemistry &amp; Cell Biology</i> , 1988, 20, 1133-1138.	0.8	16
38	Activation of transglutaminase 2 by nerve growth factor in differentiating neuroblastoma cells: A role in cell survival and neurite outgrowth. <i>European Journal of Pharmacology</i> , 2018, 820, 113-129.	1.7	15
39	Modulation of transglutaminase 2 activity in H9c2 cells by PKC and PKA signalling: a role for transglutaminase 2 in cytoprotection. <i>British Journal of Pharmacology</i> , 2014, 171, 3946-3960.	2.7	14
40	A <i>Trypanosoma cruzi</i> monoclonal antibody that recognizes a superficial tubulin-like antigen. <i>Biochemical and Biophysical Research Communications</i> , 1986, 139, 1176-1183.	1.0	13
41	Tyrosination State of $\beta$ -Tubulin in Regenerating Peripheral Nerve. <i>Journal of Neurochemistry</i> , 1994, 62, 227-234.	2.1	12
42	Sodium butyrate induces major morphological changes in C6 glioma cells that are correlated with increased synthesis of a spectrin-like protein. <i>Developmental Brain Research</i> , 1989, 45, 291-295.	2.1	10
43	$\beta$ 2-adrenoceptor-induced modulation of transglutaminase 2 transamidase activity in cardiomyoblasts. <i>European Journal of Pharmacology</i> , 2017, 813, 105-121.	1.7	9
44	The disruption of brain microtubules in vitro by the phospholipase inhibitor p-bromophenacyl bromide. <i>Biochemical Pharmacology</i> , 1994, 47, 1137-1143.	2.0	8
45	The Cytoskeleton as a Target in Cell Toxicity. <i>Advances in Molecular and Cell Biology</i> , 1997, 20, 119-144.	0.1	8
46	Effects of phenyl saligenin phosphate on cell viability and transglutaminase activity in N2a neuroblastoma and HepG2 hepatoma cell lines. <i>Toxicology in Vitro</i> , 2009, 23, 1559-1563.	1.1	8
47	Diazoxon Disrupts the Expression and Distribution of $\beta$ -Tubulin and MAP1B in Differentiating N2a Cells. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2014, 114, 490-496.	1.2	6
48	Role of transglutaminase 2 in PAC1 receptor mediated protection against hypoxia-induced cell death and neurite outgrowth in differentiating N2a neuroblastoma cells. <i>Biochemical Pharmacology</i> , 2017, 128, 55-73.	2.0	6
49	Neuroprotection from diazinon-induced toxicity in differentiating murine N2a neuroblastoma cells. <i>NeuroToxicology</i> , 2009, 30, 958-964.	1.4	5
50	Phenyl Saligenin Phosphate Induced Caspase-3 and c-Jun N-Terminal Kinase Activation in Cardiomyocyte-Like Cells. <i>Chemical Research in Toxicology</i> , 2015, 28, 2179-2191.	1.7	5
51	Aligned Poly-L-lactic Acid Nanofibers Induce Self-Assembly of Primary Cortical Neurons into 3D Cell Clusters. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 765-776.	2.6	5
52	22 Axon outgrowth and neurofilament protein expression in mouse neuroblastoma cells exposed to the neurotoxin MPTP. <i>Biochemical Society Transactions</i> , 1997, 25, S575-S575.	1.6	4
53	<i>Toxicological Testing.</i> , 2018, , 145-161.		4
54	Characterization of a membrane-specific tubulin isoform by peptide mapping. <i>Bioscience Reports</i> , 1986, 6, 913-919.	1.1	3

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55	Inhibition by <i>p</i> -bromophenacyl bromide of microtubule assembly <i>in vitro</i> . Biochemical Society Transactions, 1991, 19, 1140-1143.	1.6	3
56	Neurite outgrowth inhibitory levels of organophosphates induce tissue transglutaminase activity in differentiating N2a cells: evidence for covalent adduct formation. Archives of Toxicology, 2020, 94, 3861-3875.	1.9	3
57	In Vitro Biomarkers of Developmental Neurotoxicity. , 2017, , 255-288.		2
58	The Use of Differentiating N2a and C6 Cell Lines for Studies of Organophosphate Toxicity. Neuromethods, 2011, , 269-291.	0.2	2
59	Interaction of an Na <sup>+</sup> -channel toxin, purified from scorpion venom, with micro tubule proteins <i>in vitro</i> . Biochemical Society Transactions, 1985, 13, 1210-1211.	1.6	1
60	Tubulin: tyrosine ligase activity in regenerating peripheral nerve. Biochemical Society Transactions, 1991, 19, 1143-1146.	1.6	1
61	An improved colorimetric assay for the measurement of transglutaminase (type II) $\gamma$ -glutamyl lysine cross-linking activity. Analytical Biochemistry, 2004, 330, 164-164.	1.1	1
62	Toxicological testing: <i>in vivo</i> and <i>in vitro</i> models. , 2007, , 51-66.		1
63	Effects of chlorpyrifos on transglutaminase activity in differentiating rat C6 glioma cells. Toxicology in Vitro, 2010, 24, 2104-2107.	1.1	1
64	<i>In vitro</i> biomarkers of developmental neurotoxicity. , 2011, , 227-252.		1
65	Expanding the family of tetrahalide iron complexes: Synthesis, structure and biological applications. Polyhedron, 2020, 190, 114755.	1.0	1
66	The interaction between a Na <sup>+</sup> -channel toxin and brain microtubule proteins <i>in vitro</i> . Molecular Brain Research, 1986, 1, 43-51.	2.5	0
67	Subcellular localization of iodinated thyroid tubulin. Bioscience Reports, 1989, 9, 375-382.	1.1	0
68	Subcellular distribution and immunological detection of retrograde axonally transported proteins in acrylamide and diabetic neuropathies. Neuroscience Letters, 1993, 163, 201-204.	1.0	0
69	21 The effects of tricresyl phosphate on axon outgrowth and neurofilament levels in mouse N2a neuroblastoma cells. Biochemical Society Transactions, 1997, 25, S574-S574.	1.6	0
70	Effects of phenyl saligenin phosphate on phosphorylation of pig brain tubulin <i>in vitro</i> . Environmental Toxicology and Pharmacology, 2006, 22, 70-74.	2.0	0
71	Toxicological testing. , 2012, , 62-79.		0
72	Cytoskeletal disruption as a biomarker of developmental neurotoxicity. , 2014, , 833-845.		0

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73	The Role of Thyroid Hormones in Neural Development. , 2016, , 49-59.		0
74	Cytoskeletal Disruption as a Biomarker of Developmental Neurotoxicity. , 2019, , 1033-1046.		0
75	Phenyl Saligenin Phosphate Disrupts Cell Morphology and the Actin Cytoskeleton in Differentiating H9c2 Cardiomyoblasts and Human-Induced Pluripotent Stem-Cell-Derived Cardiomyocyte Progenitor Cells. Chemical Research in Toxicology, 2020, 33, 2310-2323.	1.7	0
76	InÂvitro biomarkers of developmental neurotoxicity. , 2022, , 179-209.		0