Aaron B. Bowman

List of Publications by Year in Descending Order

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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.

136	5,621	37	73
papers	citations	h-index	g-index
146	**6,723**	**6.2**	**5.75**
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
136	Ghrelin attenuates methylmercury-induced oxidative stress in neuronal cells.. *Molecular Neurobiology*, **2022**, 1	6.2	1
135	Manganese-induced hyperactivity and dopaminergic dysfunction depend on age, sex and YAC128 genotype.. *Pharmacology Biochemistry and Behavior*, **2022**, 213, 173337	3.9	0
134	The Modulatory Role of sti-1 in Methylmercury-Induced Toxicity in Caenorhabditis elegans.. *Neurotoxicity Research*, **2022**, 40, 837	4.3	0
133	Hyperexcitability and Pharmacological Responsiveness of Cortical Neurons Derived from Human iPSCs Carrying Epilepsy-Associated Sodium Channel Nav1.2-L1342P Genetic Variant. *Journal of Neuroscience*, **2021**, 41, 10194-10208	6.6	3
132	Defective Mitochondrial Dynamics Underlie Manganese-Induced Neurotoxicity. *Molecular Neurobiology*, **2021**, 58, 3270-3289	6.2	4
131	Evaluating the risk of manganese-induced neurotoxicity of parenteral nutrition: review of the current literature. *Expert Opinion on Drug Metabolism and Toxicology*, **2021**, 17, 581-593	5.5	2
130	New insights on mechanisms underlying methylmercury-induced and manganese-induced neurotoxicity. *Current Opinion in Toxicology*, **2021**, 25, 30-35	4.4	5
129	Social injustice in environmental health: A call for fortitude. *Environmental Research*, **2021**, 194, 110675	7.9	3
128	Molecular Targets of Manganese-Induced Neurotoxicity: A Five-Year Update. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	10
127	Sirtuins as molecular targets, mediators, and protective agents in metal-induced toxicity. *Archives of Toxicology*, **2021**, 95, 2263-2278	5.8	6
126	Latent alterations in swimming behavior by developmental methylmercury exposure are modulated by the homolog of tyrosine hydroxylase in Caenorhabditis elegans. *Neurotoxicology and Teratology*, **2021**, 85, 106963	3.9	4
125	Environmentally relevant developmental methylmercury exposures alter neuronal differentiation in a human-induced pluripotent stem cell model. *Food and Chemical Toxicology*, **2021**, 152, 112178	4.7	5
124	Chronic exposure to methylmercury disrupts ghrelin actions in C57BL/6J mice. *Food and Chemical Toxicology*, **2021**, 147, 111918	4.7	2
123	Chronic exposure to methylmercury enhances the anorexigenic effects of leptin in C57BL/6J male mice. *Food and Chemical Toxicology*, **2021**, 147, 111924	4.7	3
122	Ascorbate deficiency decreases dopamine release in gulo and APP/PSEN1 mice. *Journal of Neurochemistry*, **2021**, 157, 656-665	6	6
121	Manganese Neurotoxicity **2021**, 1-26		
120	Whole body potassium as a biomarker for potassium uptake using a mouse model. *Scientific Reports* , **2021**, 11, 6385	4.9	2

119	The Impact of Environmental Factors on Monogenic Mendelian Diseases. *Toxicological Sciences*, **2021**, 181, 3-12	4.4	1
118	The Role of Human LRRK2 in Acute Methylmercury Toxicity in Caenorhabditis elegans. *Neurochemical Research*, **2021**, 46, 2991-3002	4.6	1
117	Single cell RNA sequencing detects persistent cell type- and methylmercury exposure paradigm-specific effects in a human cortical neurodevelopmental model. *Food and Chemical Toxicology*, **2021**, 154, 112288	4.7	2
116	The antioxidant role of STAT3 in methylmercury-induced toxicity in mouse hypothalamic neuronal GT1-7 cell line. *Free Radical Biology and Medicine*, **2021**, 171, 245-259	7.8	4
115	A bistable, multiport valve enables microformulators creating microclinical analyzers that reveal aberrant glutamate metabolism in astrocytes derived from a tuberous sclerosis patient. *Sensors and Actuators B: Chemical*, **2021**, 341, 129972-129972	8.5	3
114	Gut Microbiota as a Potential Player in Mn-Induced Neurotoxicity. *Biomolecules*, **2021**, 11,	5.9	3
113	Rodent hair is a Poor biomarker for internal manganese exposure. *Food and Chemical Toxicology*, **2021**, 157, 112555	4.7	1
112	YAC128 mouse model of Huntington disease is protected against subtle chronic manganese (Mn)-induced behavioral and neuropathological changes. *NeuroToxicology*, **2021**, 87, 94-105	4.4	2
111	Developmental exposure to methylmercury and ADHD, a literature review of epigenetic studies. *Environmental Epigenetics*, **2021**, 7, dvab014	2.4	0
110	Huntington's disease genotype suppresses global manganese-responsive processes in pre-manifest and manifest YAC128 mice. *Metallomics*, **2020**, 12, 1118-1130	4.5	10
109	Manganese-induced Mitochondrial Dysfunction Is Not Detectable at Exposures Below the Acute Cytotoxic Threshold in Neuronal Cell Types. *Toxicological Sciences*, **2020**, 176, 446-459	4.4	10
108	Brain manganese and the balance between essential roles and neurotoxicity. *Journal of Biological Chemistry*, **2020**, 295, 6312-6329	5.4	66
107	Identification of a selective manganese ionophore that enables nonlethal quantification of cellular manganese. *Journal of Biological Chemistry*, **2020**, 295, 3875-3890	5.4	1
106	Chronic exposure to methylmercury induces puncta formation in cephalic dopaminergic neurons in Caenorhabditis elegans. *NeuroToxicology*, **2020**, 77, 105-113	4.4	15
105	The effects of manganese overexposure on brain health. *Neurochemistry International*, **2020**, 135, 104688	4.4	30
104	Screening ToxCast for Chemicals That Affect Cholesterol Biosynthesis: Studies in Cell Culture and Human Induced Pluripotent Stem Cell-Derived Neuroprogenitors. *Environmental Health Perspectives*, **2020**, 128, 17014	8.4	8
103	Therapeutic Efficacy of the N,N' Bis-(2-Mercaptoethyl) Isophthalamide Chelator for Methylmercury Intoxication in Caenorhabditis elegans. *Neurotoxicity Research*, **2020**, 38, 133-144	4.3	4
102	The impact of manganese on neurotransmitter systems. *Journal of Trace Elements in Medicine and Biology*, **2020**, 61, 126554	4.1	16

101	Dysregulation of TFEB contributes to manganese-induced autophagic failure and mitochondrial dysfunction in astrocytes. *Autophagy*, **2020**, 16, 1506-1523	10.2	22
100	Manganese Acts upon Insulin/IGF Receptors to Phosphorylate AKT and Increase Glucose Uptake in Huntington's Disease Cells. *Molecular Neurobiology*, **2020**, 57, 1570-1593	6.2	13
99	N,N' bis-(2-mercaptoethyl) isophthalamide induces developmental delay in by promoting DAF-16 nuclear localization. *Toxicology Reports*, **2020**, 7, 930-937	4.8	4
98	Cephalic Neuronal Vesicle Formation is Developmentally Dependent and Modified by Methylmercury and sti-1 in Caenorhabditis elegans. *Neurochemical Research*, **2020**, 45, 2939-2948	4.6	4
97	The Role of Human LRRK2 in Methylmercury-Induced Inhibition of Microvesicle Formation of Cephalic Neurons in Caenorhabditis elegans. *Neurotoxicity Research*, **2020**, 38, 751-764	4.3	4
96	A Small-Molecule Modulator of Metal Homeostasis in Gram-Positive Pathogens. *MBio*, **2020**, 11,	7.8	4
95	Manganese-induced neurodegenerative diseases and possible therapeutic approaches. *Expert Review of Neurotherapeutics*, **2020**, 20, 1109-1121	4.3	17
94	Manganese in the Diet: Bioaccessibility, Adequate Intake, and Neurotoxicological Effects. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 12893-12903	5.7	22
93	New Insights on the Role of Manganese in Alzheimer's Disease and Parkinson's Disease. *International Journal of Environmental Research and Public Health*, **2019**, 16,	4.6	33
92	A Simplified, Fully Defined Differentiation Scheme for Producing Blood-Brain Barrier Endothelial Cells from Human iPSCs. *Stem Cell Reports*, **2019**, 12, 1380-1388	8	70
91	Striatal Cholesterol Precursors Are Altered with Age in Female Huntington's Disease Model Mice. *Journal of Huntingtonfs Disease*, **2019**, 8, 161-169	1.9	4
90	Human-induced pluripotent stems cells as a model to dissect the selective neurotoxicity of methylmercury. *Biochimica Et Biophysica Acta - General Subjects*, **2019**, 1863, 129300	4	5
89	Endothelial cells are critical regulators of iron transport in a model of the human blood-brain barrier. *Journal of Cerebral Blood Flow and Metabolism*, **2019**, 39, 2117-2131	7.3	31
88	Brain diseases in changing climate. *Environmental Research*, **2019**, 177, 108637	7.9	16
87	Huntington's disease associated resistance to Mn neurotoxicity is neurodevelopmental stage and neuronal lineage dependent. *NeuroToxicology*, **2019**, 75, 148-157	4.4	14
86	Acute manganese treatment restores defective autophagic cargo loading in Huntington's disease cell lines. *Human Molecular Genetics*, **2019**, 28, 3825-3841	5.6	13
85	Oxidative Stress Signatures in Human Stem Cell-Derived Neurons. *Neuromethods*, **2019**, 37-49	0.4	
84	Iron and manganese-related CNS toxicity: mechanisms, diagnosis and treatment. *Expert Review of Neurotherapeutics*, **2019**, 19, 243-260	4.3	23

83	Sex-Specific Response of Caenorhabditis elegans to Methylmercury Toxicity. *Neurotoxicity Research* , **2019**, 35, 208-216	4.3	9
82	Combined exposure to methylmercury and manganese during L1 larval stage causes motor dysfunction, cholinergic and monoaminergic up-regulation and oxidative stress in L4 Caenorhabditis elegans. *Toxicology*, **2019**, 411, 154-162	4.4	19
81	Post-translational modifications in MeHg-induced neurotoxicity. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 2068-2081	6.9	19
80	Small Molecule Modifiers of In Vitro Manganese Transport Alter Toxicity In Vivo. *Biological Trace Element Research*, **2019**, 188, 127-134	4.5	4
79	Oxidative stress, caspase-3 activation and cleavage of ROCK-1 play an essential role in MeHg-induced cell death in primary astroglial cells. *Food and Chemical Toxicology*, **2018**, 113, 328-336	4.7	28
78	Modeling Genetic and Environment Interactions Relevant to Huntington's and Parkinson's Disease in Human Induced Pluripotent Stem Cells (hiPSCs)-Derived Neurons **2018**, 159-171		
77	Pharmaceutical iron formulations do not cross a model of the human blood-brain barrier. *PLoS ONE*, **2018**, 13, e0198775	3.7	8
76	The cytoplasmic thioredoxin system in Caenorhabditis elegans affords protection from methylmercury in an age-specific manner. *NeuroToxicology*, **2018**, 68, 189-202	4.4	4
75	Role of Caenorhabditis elegans AKT-1/2 and SGK-1 in Manganese Toxicity. *Neurotoxicity Research*, **2018**, 34, 584-596	4.3	17
74	Phosphatidylinositol 3 kinase (PI3K) modulates manganese homeostasis and manganese-induced cell signaling in a murine striatal cell line. *NeuroToxicology*, **2018**, 64, 185-194	4.4	17
73	Connections Between Manganese Neurotoxicity and Neurological Disease. *Advances in Neurotoxicology*, **2018**, 2, 87-113	1.6	1
72	Reduced bioavailable manganese causes striatal urea cycle pathology in Huntington's disease mouse model. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 1596-1604	6.9	25
71	BXD recombinant inbred strains participate in social preference, anxiety and depression behaviors along sex-differences in cytokines and tactile allodynia. *Psychoneuroendocrinology*, **2017**, 80, 92-98	5	5
70	Accelerated differentiation of human induced pluripotent stem cells to blood-brain barrier endothelial cells. *Fluids and Barriers of the CNS*, **2017**, 14, 9	7	99
69	Relationships Between Essential Manganese Biology and Manganese Toxicity in Neurological Disease. *Current Environmental Health Reports*, **2017**, 4, 223-228	6.5	54
68	Heterozygous loss of TSC2 alters p53 signaling and human stem cell reprogramming. *Human Molecular Genetics*, **2017**, 26, 4629-4641	5.6	16
67	Manganese and the Insulin-IGF Signaling Network in Huntington's Disease and Other Neurodegenerative Disorders. *Advances in Neurobiology*, **2017**, 18, 113-142	2.1	31
66	From the Cover: Manganese and Rotenone-Induced Oxidative Stress Signatures Differ in iPSC-Derived Human Dopamine Neurons. *Toxicological Sciences*, **2017**, 159, 366-379	4.4	25

65	Defective Sphingosine-1-phosphate metabolism is a druggable target in Huntington’s disease. *Scientific Reports*, **2017**, 7, 5280	4.9	38
64	Metal Biology Associated with Huntington's Disease **2017**, 231-263		
63	Phenotypic Discordance in Siblings with Identical Compound Heterozygous PARK2 Mutations. *Brain Sciences*, **2017**, 7,	3.4	5
62	Sex- and structure-specific differences in antioxidant responses to methylmercury during early development. *NeuroToxicology*, **2016**, 56, 118-126	4.4	23
61	"Manganese-induced neurotoxicity: a review of its behavioral consequences and neuroprotective strategies". *BMC Pharmacology & Toxicology*, **2016**, 17, 57	2.6	174
60	Linear and Curvilinear Trajectories of Cortical Loss with Advancing Age and Disease Duration in Parkinson’s Disease **2016**, 7, 220-9		10
59	Genomic Instability Associated with p53 Knockdown in the Generation of Huntington’s Disease Human Induced Pluripotent Stem Cells. *PLoS ONE*, **2016**, 11, e0150372	3.7	27
58	Embryonic Mutant Huntingtin Aggregate Formation in Mouse Models of Huntington’s Disease. *Journal of Huntington's Disease*, **2016**, 5, 343-346	1.9	7
57	Metabolic consequences of inflammatory disruption of the blood-brain barrier in an organ-on-chip model of the human neurovascular unit. *Journal of Neuroinflammation*, **2016**, 13, 306	10.1	99
56	SLC30A10: A novel manganese transporter. *Worm*, **2015**, 4, e1042648		36
55	Gene-Environment Interactions in Huntington's Disease **2015**, 355-383		
54	Manganese Is Essential for Neuronal Health. *Annual Review of Nutrition*, **2015**, 35, 71-108	9.9	219
53	Loss of pdr-1/parkin influences Mn homeostasis through altered ferroportin expression in C. elegans. *Metallomics*, **2015**, 7, 847-56	4.5	22
52	Untargeted metabolic profiling identifies interactions between Huntington’s disease and neuronal manganese status. *Metallomics*, **2015**, 7, 363-70	4.5	24
51	Combinatorial polymer matrices enhance in vitro maturation of human induced pluripotent stem cell-derived cardiomyocytes. *Biomaterials*, **2015**, 67, 52-64	15.6	52
50	Manganese-induced Neurotoxicity: From to Humans. *Toxicology Research*, **2015**, 4, 191-202	2.6	48
49	PARK2 patient neuroprogenitors show increased mitochondrial sensitivity to copper. *Neurobiology of Disease*, **2015**, 73, 204-12	7.5	37
48	Manganese homeostasis in the nervous system. *Journal of Neurochemistry*, **2015**, 134, 601-10	6	159

47	Recreating blood-brain barrier physiology and structure on chip: A novel neurovascular microfluidic bioreactor. *Biomicrofluidics*, **2015**, 9, 054124	3.2	259
46	RNASeq in C. elegans Following Manganese Exposure. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2015**, 65, 11.20.1-11.20.17	1	4
45	Manganese-Induced Parkinsonism and Parkinson's Disease: Shared and Distinguishable Features. *International Journal of Environmental Research and Public Health*, **2015**, 12, 7519-40	4.6	176
44	Novel BAC Mouse Model of Huntington's Disease with 225 CAG Repeats Exhibits an Early Widespread and Stable Degenerative Phenotype. *Journal of Huntingtonfs Disease*, **2015**, 4, 17-36	1.9	8
43	Allosteric activation of M4 muscarinic receptors improve behavioral and physiological alterations in early symptomatic YAC128 mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 14078-83	11.5	36
42	Age- and manganese-dependent modulation of dopaminergic phenotypes in a C. elegans DJ-1 genetic model of Parkinson's disease. *Metallomics*, **2015**, 7, 289-98	4.5	35
41	A novel manganese-dependent ATM-p53 signaling pathway is selectively impaired in patient-based neuroprogenitor and murine striatal models of Huntington's disease. *Human Molecular Genetics*, **2015**, 24, 1929-44	5.6	44
40	Novel BAC Mouse Model of Huntington's Disease with 225 CAG Repeats Exhibits an Early Widespread and Stable Degenerative Phenotype. *Journal of Huntingtonfs Disease*, **2015**, 4, 17-36	1.9	5
39	Cellular manganese content is developmentally regulated in human dopaminergic neurons. *Scientific Reports*, **2014**, 4, 6801	4.9	51
38	SLC30A10 is a cell surface-localized manganese efflux transporter, and parkinsonism-causing mutations block its intracellular trafficking and efflux activity. *Journal of Neuroscience*, **2014**, 34, 14079-95	6.6	139
37	BDNF and Huntingtin protein modifications by manganese: implications for striatal medium spiny neuron pathology in manganese neurotoxicity. *Journal of Neurochemistry*, **2014**, 131, 655-66	6	18
36	Considerations on manganese (Mn) treatments for in vitro studies. *NeuroToxicology*, **2014**, 41, 141-2	4.4	63
35	Die Rolle von Mangan bei neurodegenerativen Erkrankungen. *Perspectives in Medicine*, **2014**, 2, 91-108		
34	The effects of pdr1, djr1.1 and pink1 loss in manganese-induced toxicity and the role of synuclein in C. elegans. *Metallomics*, **2014**, 6, 476-90	4.5	71
33	Identification of a common Wnt-associated genetic signature across multiple cell types in pulmonary arterial hypertension. *American Journal of Physiology - Cell Physiology*, **2014**, 307, C415-30	5.4	46
32	Chapter 22:Manganese and Huntington Disease. *Issues in Toxicology*, **2014**, 540-573	0.3	2
31	Optimization of fluorescence assay of cellular manganese status for high throughput screening. *Journal of Biochemical and Molecular Toxicology*, **2013**, 27, 42-9	3.4	7
30	Gammaretroviral vector encoding a fluorescent marker to facilitate detection of reprogrammed human fibroblasts during iPSC generation. *PeerJ*, **2013**, 1, e224	3.1	4

29	DHCEO accumulation is a critical mediator of pathophysiology in a Smith-Lemli-Opitz syndrome model. *Neurobiology of Disease*, **2012**, 45, 923-9	7.5	52
28	Genetic risk for Parkinson's disease correlates with alterations in neuronal manganese sensitivity between two human subjects. *NeuroToxicology*, **2012**, 33, 1443-1449	4.4	39
27	DMH1, a highly selective small molecule BMP inhibitor promotes neurogenesis of hiPSCs: comparison of PAX6 and SOX1 expression during neural induction. *ACS Chemical Neuroscience*, **2012**, 3, 482-91	5.7	74
26	Changes in the striatal proteome of YAC128Q mice exhibit gene-environment interactions between mutant huntingtin and manganese. *Journal of Proteome Research*, **2012**, 11, 1118-32	5.6	22
25	The potential of induced pluripotent stem cells as a translational model for neurotoxicological risk. *NeuroToxicology*, **2012**, 33, 518-29	4.4	36
24	Disease-toxicant interactions in manganese exposed Huntington disease mice: early changes in striatal neuron morphology and dopamine metabolism. *PLoS ONE*, **2012**, 7, e31024	3.7	36
23	Cellular fura-2 manganese extraction assay (CFMEA). *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2011**, Chapter 12, Unit12.18	1	15
22	ATXN1 protein family and CIC regulate extracellular matrix remodeling and lung alveolarization. *Developmental Cell*, **2011**, 21, 746-57	10.2	73
21	Novel high-throughput assay to assess cellular manganese levels in a striatal cell line model of Huntington's disease confirms a deficit in manganese accumulation. *NeuroToxicology*, **2011**, 32, 630-9	4.4	23
20	Gender and manganese exposure interactions on mouse striatal neuron morphology. *NeuroToxicology*, **2011**, 32, 896-906	4.4	27
19	Lipid modifications of Sonic hedgehog ligand dictate cellular reception and signal response. *PLoS ONE*, **2011**, 6, e21353	3.7	25
18	Role of manganese in neurodegenerative diseases. *Journal of Trace Elements in Medicine and Biology*, **2011**, 25, 191-203	4.1	249
17	Role of astrocytes in brain function and disease. *Toxicologic Pathology*, **2011**, 39, 115-23	2.1	150
16	Induced Pluripotent Stem Cells (iPSCs): An Emerging Model System for the Study of Human Neurotoxicology. *Neuromethods*, **2011**, 27-61	0.4	3
15	Disease-toxicant screen reveals a neuroprotective interaction between Huntington's disease and manganese exposure. *Journal of Neurochemistry*, **2010**, 112, 227-37	6	59
14	Ferroportin is a manganese-responsive protein that decreases manganese cytotoxicity and accumulation. *Journal of Neurochemistry*, **2010**, 112, 1190-8	6	118
13	Morphometric Analysis in Neurodegenerative Disorders. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2010**, 46, 12.16.1	1	2
12	Morphometric analysis in neurodegenerative disorders. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2010**, Chapter 12, Unit 12.16	1	15

11	Altered manganese homeostasis and manganese toxicity in a Huntington's disease striatal cell model are not explained by defects in the iron transport system. *Toxicological Sciences*, **2010**, 117, 169-79	4.4	47
10	Animal models of autism spectrum disorders: information for neurotoxicologists. *NeuroToxicology*, **2009**, 30, 811-21	4.4	29
9	Opposing effects of polyglutamine expansion on native protein complexes contribute to SCA1. *Nature*, **2008**, 452, 713-8	50.4	250
8	Duplication of Atxn1l suppresses SCA1 neuropathology by decreasing incorporation of polyglutamine-expanded ataxin-1 into native complexes. *Nature Genetics*, **2007**, 39, 373-9	36.3	64
7	Glutamine-expanded ataxin-7 alters TFTC/STAGA recruitment and chromatin structure leading to photoreceptor dysfunction. *PLoS Biology*, **2006**, 4, e67	9.7	125
6	ATAXIN-1 interacts with the repressor Capicua in its native complex to cause SCA1 neuropathology. *Cell*, **2006**, 127, 1335-47	56.2	242
5	Regulation of RNA splicing by the methylation-dependent transcriptional repressor methyl-CpG binding protein 2. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 17551-8	11.5	356
4	Neuronal dysfunction in a polyglutamine disease model occurs in the absence of ubiquitin-proteasome system impairment and inversely correlates with the degree of nuclear inclusion formation. *Human Molecular Genetics*, **2005**, 14, 679-91	5.6	187
3	Functional characterization of a testis-specific DNA binding activity at the H19/Igf2 imprinting control region. *Molecular and Cellular Biology*, **2003**, 23, 8345-51	4.8	15
2	Kinesin-dependent axonal transport is mediated by the sunday driver (SYD) protein. *Cell*, **2000**, 103, 583-94	56.2	283
1	Drosophila roadblock and Chlamydomonas Lc7. *Journal of Cell Biology*, **1999**, 146, 165-180	7.3	142