

# Hyman M Schipper

## List of Publications by Year in descending order

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115  
papers

10,618  
citations

46984

47  
h-index

31818

101  
g-index

122  
all docs

122  
docs citations

122  
times ranked

20553  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	4.3	4,701
2	Heme oxygenase-1 and neurodegeneration: expanding frontiers of engagement. <i>Journal of Neurochemistry</i> , 2009, 110, 469-485.	2.1	243
3	Heme oxygenase expression in human central nervous system disorders. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1995-2011.	1.3	226
4	Diagnosis and treatment of dementia: 2. Diagnosis. <i>Cmaj</i> , 2008, 178, 825-836.	0.9	196
5	MicroRNA: Implications for Alzheimer Disease and other Human CNS Disorders. <i>Current Genomics</i> , 2009, 10, 154-168.	0.7	194
6	Glial heme oxygenase-1 expression in Alzheimer disease and mild cognitive impairment. <i>Neurobiology of Aging</i> , 2006, 27, 252-261.	1.5	181
7	Dramatic Shifts in Circulating CD4 but not CD8 T Cell Subsets in Mild Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2009, 17, 91-103.	1.2	173
8	Transcriptional profiling of Alzheimer blood mononuclear cells by microarray. <i>Neurobiology of Aging</i> , 2007, 28, 1795-1809.	1.5	168
9	MicroRNA Expression in Alzheimer Blood Mononuclear Cells. <i>Gene Regulation and Systems Biology</i> , 2007, 1, GRSB.S361.	2.3	166
10	Brain iron deposition and the free radical-mitochondrial theory of ageing. <i>Ageing Research Reviews</i> , 2004, 3, 265-301.	5.0	163
11	Oxysterols, cholesterol homeostasis, and Alzheimer disease. <i>Journal of Neurochemistry</i> , 2007, 102, 1727-1737.	2.1	159
12	The sinister face of heme oxygenase-1 in brain aging and disease. <i>Progress in Neurobiology</i> , 2019, 172, 40-70.	2.8	147
13	Astrocytes, brain aging, and neurodegeneration. <i>Neurobiology of Aging</i> , 1996, 17, 467-480.	1.5	123
14	Increased microRNA-34c abundance in Alzheimer's disease circulating blood plasma. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 2.	1.4	122
15	Neurodegeneration with brain iron accumulation - Clinical syndromes and neuroimaging. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2012, 1822, 350-360.	1.8	119
16	Role of heme oxygenase-1 in the regulation of manganese superoxide dismutase gene expression in oxidatively-challenged astroglia. <i>Journal of Cellular Physiology</i> , 2000, 185, 80-86.	2.0	115
17	A Novel Experimental Heme Oxygenase-1 Targeted Therapy for Hormone-Refractory Prostate Cancer. <i>Cancer Research</i> , 2009, 69, 8017-8024.	0.4	110
18	Salivary DNA, lipid, and protein oxidation in nonsmokers with periodontal disease. <i>Free Radical Biology and Medicine</i> , 2009, 46, 914-921.	1.3	110

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19	Aberrant profiles of native and oxidized glycoproteins in Alzheimer plasma. <i>Proteomics</i> , 2003, 3, 2240-2248.	1.3	106
20	Heme Oxygenase-1: Transducer of Pathological Brain Iron Sequestration under Oxidative Stress. <i>Annals of the New York Academy of Sciences</i> , 2004, 1012, 84-93.	1.8	106
21	Over-expression of heme oxygenase-1 promotes oxidative mitochondrial damage in rat astroglia. <i>Journal of Cellular Physiology</i> , 2006, 206, 655-663.	2.0	103
22	HO-1-mediated macroautophagy: a mechanism for unregulated iron deposition in aging and degenerating neural tissues. <i>Journal of Neurochemistry</i> , 2009, 109, 776-791.	2.1	87
23	Salivary biomarkers of oxidative stress: A critical review. <i>Free Radical Biology and Medicine</i> , 2015, 85, 95-104.	1.3	85
24	Salivary microRNA-153 and microRNA-223 Levels as Potential Diagnostic Biomarkers of Idiopathic Parkinson's Disease. <i>Movement Disorders</i> , 2020, 35, 468-477.	2.2	78
25	Brain Erythropoietin Receptor Expression in Alzheimer Disease and Mild Cognitive Impairment. <i>Journal of Neuropathology and Experimental Neurology</i> , 2007, 66, 389-398.	0.9	76
26	Glial HO-1 expression, iron deposition and oxidative stress in neurodegenerative diseases. <i>Neurotoxicity Research</i> , 1999, 1, 57-70.	1.3	70
27	Apolipoprotein E: Implications for AD neurobiology, epidemiology and risk assessment. <i>Neurobiology of Aging</i> , 2011, 32, 778-790.	1.5	69
28	Pathologic Effect of Estradiol on the Hypothalamus. <i>Biology of Reproduction</i> , 1993, 49, 647-652.	1.2	67
29	Schizophrenia-Like Features in Transgenic Mice Overexpressing Human HO-1 in the Astrocytic Compartment. <i>Journal of Neuroscience</i> , 2012, 32, 10841-10853.	1.7	63
30	The Parkinson disease-associated A30P mutation stabilizes $\alpha$ -synuclein against proteasomal degradation triggered by heme oxygenase-1 overexpression in human neuroblastoma cells. <i>Journal of Neurochemistry</i> , 2009, 110, 719-733.	2.1	61
31	Mitochondrial constituents of corpora amylacea and autofluorescent astrocytic inclusions in senescent human brain. <i>Glia</i> , 1995, 14, 55-64.	2.5	59
32	Evaluation of HFE (hemochromatosis) mutations as genetic modifiers in sporadic AD and MCI. <i>Neurobiology of Aging</i> , 2004, 25, 465-474.	1.5	57
33	Brain sterol dysregulation in sporadic AD and MCI: relationship to heme oxygenase-1. <i>Journal of Neurochemistry</i> , 2009, 110, 1241-1253.	2.1	57
34	Suppression of Glial HO-1 Activity as a Potential Neurotherapeutic Intervention in AD. <i>Current Alzheimer Research</i> , 2009, 6, 424-430.	0.7	55
35	Astrocyte Mitochondria: A Substrate for Iron Deposition in the Aging Rat Substantia Nigra. <i>Experimental Neurology</i> , 1998, 152, 188-196.	2.0	54
36	Spinobulbar muscular atrophy: polyglutamine-expanded androgen receptor is proteolytically resistant in vitro and processed abnormally in transfected cells. <i>Human Molecular Genetics</i> , 1998, 7, 379-384.	1.4	54

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37	Characterization of $\alpha$ 1-antitrypsin as a heme oxygenase-1 suppressor in Alzheimer plasma. <i>Neurobiology of Disease</i> , 2006, 24, 89-100.	2.1	54
38	Astroglia overexpressing heme oxygenase-1 predispose co-cultured PC12 cells to oxidative injury. <i>Journal of Neuroscience Research</i> , 2007, 85, 2186-2195.	1.3	54
39	Astrocyte heme oxygenase-1 reduces mortality and improves outcome after collagenase-induced intracerebral hemorrhage. <i>Neurobiology of Disease</i> , 2017, 102, 140-146.	2.1	54
40	Gomori-positive astrocytes: Biological properties and implications for neurologic and neuroendocrine disorders. <i>Glia</i> , 1991, 4, 365-377.	2.5	53
41	Heme oxygenase-1 in Alzheimer disease: a tribute to Moussa Youdim. <i>Journal of Neural Transmission</i> , 2011, 118, 381-387.	1.4	53
42	A Heme Oxygenase-1 Transducer Model of Degenerative and Developmental Brain Disorders. <i>International Journal of Molecular Sciences</i> , 2015, 16, 5400-5419.	1.8	53
43	Effects of heme oxygenase-1 expression on sterol homeostasis in rat astroglia. <i>Free Radical Biology and Medicine</i> , 2007, 42, 864-871.	1.3	52
44	Astrocyte Overexpression of Heme Oxygenase-1 Improves Outcome After Intracerebral Hemorrhage. <i>Stroke</i> , 2015, 46, 1093-1098.	1.0	49
45	Stress protein expression in the Alzheimer-diseased choroid plexus. <i>Journal of Alzheimer's Disease</i> , 2003, 5, 171-177.	1.2	48
46	Redox perturbations in cysteamine-stressed astroglia: Implications for inclusion formation and gliosis in the aging brain. <i>Free Radical Biology and Medicine</i> , 1995, 19, 823-835.	1.3	47
47	Stress, Aging, and Neurodegenerative Disorders: Molecular Mechanisms. <i>Annals of the New York Academy of Sciences</i> , 1998, 851, 429-443.	1.8	47
48	Astroglial cytoprotection by erythropoietin pre-conditioning: implications for ischemic and degenerative CNS disorders. <i>Journal of Neurochemistry</i> , 2005, 93, 392-402.	2.1	47
49	Isocratic rapid liquid chromatographic method for simultaneous determination of carotenoids, retinol, and tocopherols in human serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 1077-1083.	1.2	47
50	Unregulated brain iron deposition in transgenic mice overexpressing <i>HMOX1</i> in the astrocytic compartment. <i>Journal of Neurochemistry</i> , 2012, 123, 325-336.	2.1	47
51	Neurotherapeutic effects of novel <i>HO-1</i> inhibitors <i>in vitro</i> and in a transgenic mouse model of Alzheimer's disease. <i>Journal of Neurochemistry</i> , 2014, 131, 778-790.	2.1	45
52	Iron-mediated bioactivation of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP) in glial cultures. <i>Glia</i> , 1995, 15, 203-206.	2.5	44
53	The origin and composition of peroxidase-positive granules in cysteamine-treated astrocytes in culture. <i>Brain Research</i> , 1994, 633, 9-20.	1.1	43
54	A Cellular Stress Model for the Sequestration of Redox-Active Glial Iron in the Aging and Degenerating Nervous System. <i>Journal of Neurochemistry</i> , 1995, 64, 1868-1877.	2.1	41

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55	Evaluation of salivary heme oxygenase-1 as a potential biomarker of early Parkinson's disease. <i>Movement Disorders</i> , 2018, 33, 583-591.	2.2	40
56	NEUROLOGIC IMPAIRMENT DUE TO VITAMIN E AND COPPER DEFICIENCIES IN CELIAC DISEASE. <i>Neurology</i> , 2008, 71, 860-861.	1.5	39
57	Near-Infrared Spectroscopy of Blood Plasma for Diagnosis of Sporadic Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2009, 17, 391-397.	1.2	39
58	Heme oxygenase-1 modulates microRNA expression in cultured astroglia: Implications for chronic brain disorders. <i>Glia</i> , 2015, 63, 1270-1284.	2.5	38
59	Differential effects of cysteamine on heat shock protein induction and cytoplasmic granulation in astrocytes and glioma cells. <i>Molecular Brain Research</i> , 1995, 31, 173-184.	2.5	37
60	Diurnal variations in salivary protein carbonyl levels in normal and cognitively impaired human subjects. <i>Age</i> , 2008, 30, 1-9.	3.0	36
61	Astroglial heme oxygenase-1 and the origin of corpora amylacea in aging and degenerating neural tissues. <i>Experimental Neurology</i> , 2014, 254, 78-89.	2.0	36
62	Gomori-positive astrocytes in primary culture: effects of in vitro age and cysteamine exposure. <i>Developmental Brain Research</i> , 1990, 54, 71-79.	2.1	35
63	Methodology for Discovery of Alzheimer's Disease Blood-Based Biomarkers. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 636-645.	1.7	35
64	Cysteamine Pretreatment of the Astroglial Substratum (Mitochondrial Iron Sequestration) Enhances PC12 Cell Vulnerability to Oxidative Injury. <i>Experimental Neurology</i> , 1999, 160, 376-385.	2.0	34
65	Composition of Gomori-positive inclusions in astrocytes of the hypothalamic arcuate nucleus. <i>The Anatomical Record</i> , 1994, 240, 407-415.	2.3	33
66	A GSTM3 polymorphism associated with an etiopathogenetic mechanism in Alzheimer disease. <i>Neurobiology of Aging</i> , 2010, 31, 34-45.	1.5	33
67	Cysteamine Gliopathy in situ. <i>Journal of Neuropathology and Experimental Neurology</i> , 1993, 52, 399-410.	0.9	30
68	Parkinsonian features in aging GFAP.HMOX1 transgenic mice overexpressing human HO-1 in the astroglial compartment. <i>Neurobiology of Aging</i> , 2017, 58, 163-179.	1.5	29
69	Role of the Cellular Stress Response in the Biogenesis of Cysteamine-Induced Astrocytic Inclusions in Primary Culture. <i>Journal of Neurochemistry</i> , 1993, 61, 1755-1765.	2.1	28
70	Mapping of the basal forebrain cholinergic system of the dog: A choline acetyltransferase immunohistochemical study. <i>Journal of Comparative Neurology</i> , 1996, 366, 717-725.	0.9	27
71	Impact of heme oxygenase-1 on cholesterol synthesis, cholesterol efflux and oxysterol formation in cultured astroglia. <i>Journal of Neurochemistry</i> , 2009, 108, 72-81.	2.1	27
72	Statin immunolocalization in human brain tumors. Detection of noncycling cells using a novel marker of cell quiescence. <i>Cancer</i> , 1991, 68, 786-792.	2.0	25

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73	Glial <i>HMOX1</i> expression promotes central and peripheral $\alpha$ -synuclein dysregulation and pathogenicity in parkinsonian mice. <i>Glia</i> , 2019, 67, 1730-1744.	2.5	25
74	A Cellular Stress Model for the Differential Expression of Glial Lysosomal Cathepsins in the Aging Nervous System. <i>Experimental Neurology</i> , 1997, 147, 221-228.	2.0	24
75	Spectroscopy of human plasma for diagnosis of idiopathic Parkinson's disease. <i>Biomarkers in Medicine</i> , 2008, 2, 229-238.	0.6	24
76	Characterization of cis-acting elements in the promoter of the mouse metallothionein-3 gene. <i>FEBS Journal</i> , 2000, 267, 1743-1753.	0.2	23
77	Biomarker potential of heme oxygenase-1 in Alzheimer's disease and mild cognitive impairment. <i>Biomarkers in Medicine</i> , 2007, 1, 375-385.	0.6	23
78	Presymptomatic apolipoprotein E genotyping for Alzheimer's disease risk assessment and prevention. , 2011, 7, e118-e123.		22
79	Altered redox homeostasis in human diabetes saliva. <i>Journal of Oral Pathology and Medicine</i> , 2012, 41, 235-241.	1.4	22
80	Experimental induction of corpora amylacea in adult rat brain. , 1998, 43, 43-48.		20
81	Risk Profiles of Alzheimer Disease. <i>Canadian Journal of Neurological Sciences</i> , 2011, 38, 580-592.	0.3	20
82	The role of biologic markers in the diagnosis of Alzheimer's disease. , 2007, 3, 325-332.		18
83	Increased T-type Ca <sup>2+</sup> channel activity as a determinant of cellular toxicity in neuronal cell lines expressing polyglutamine-expanded human androgen receptors. <i>Molecular and Cellular Biochemistry</i> , 2000, 203, 23-31.	1.4	15
84	Dentate Gyrus Immaturity in Schizophrenia. <i>Neuroscientist</i> , 2019, 25, 528-547.	2.6	15
85	Redox Neurology: Visions of an Emerging Subspecialty. <i>Annals of the New York Academy of Sciences</i> , 2004, 1012, 342-355.	1.8	14
86	The Impact of Gonadal Hormones on the Expression of Human Neurological Disorders. <i>Neuroendocrinology</i> , 2016, 103, 417-431.	1.2	13
87	Altered Salivary Redox Homeostasis in Patients with Systemic Sclerosis. <i>Journal of Rheumatology</i> , 2010, 37, 1858-1863.	1.0	12
88	The 21-aminosteroid antioxidant, U74389F, prevents estradiol-induced depletion of hypothalamic $\beta$ -endorphin in adult female rats. <i>Brain Research</i> , 1994, 652, 161-163.	1.1	11
89	Cysteine-rich whey protein isolate (Immunocal <sup>®</sup> ) ameliorates deficits in the GFAP.HMOX1 mouse model of schizophrenia. <i>Free Radical Biology and Medicine</i> , 2017, 110, 162-175.	1.3	11
90	Characterization of intracellular aggregates using fluorescently-tagged polyglutamine-expanded androgen receptor. <i>Neurotoxicity Research</i> , 2001, 3, 259-275.	1.3	10

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91	Assessing neuronal density in peri-infarct cortex with PET: Effects of cortical topology and partial volume correction. <i>Human Brain Mapping</i> , 2017, 38, 326-338.	1.9	10
92	Salivary Heme Oxygenase-1: A Potential Biomarker for Central Neurodegeneration. <i>Journal of Central Nervous System Disease</i> , 2021, 13, 117957352110291.	0.7	10
93	Tolerability and Safety of Combined Glatiramer Acetate and N-Acetylcysteine in Relapsing-Remitting Multiple Sclerosis. <i>Clinical Neuropharmacology</i> , 2015, 38, 127-131.	0.2	9
94	Characterization and heme oxygenase-1 content of extracellular vesicles in human biofluids. <i>Journal of Neurochemistry</i> , 2021, 157, 2195-2209.	2.1	9
95	Strategic Timing of Glial HMOX1 Expression Results in Either Schizophrenia-Like or Parkinsonian Behavior in Mice. <i>Antioxidants and Redox Signaling</i> , 2020, 32, 1259-1272.	2.5	8
96	Biological Markers and Alzheimer Disease: A Canadian Perspective. <i>International Journal of Alzheimer's Disease</i> , 2010, 2010, 1-7.	1.1	7
97	Is glial heme oxygenase-1 suppression in neurodegenerative disorders permissive for neural repair?. <i>Neural Regeneration Research</i> , 2015, 10, 208.	1.6	5
98	Plasma near-infrared spectroscopy for diagnosis of idiopathic Parkinson's disease: the SPIN-PD study. <i>Biomarkers in Medicine</i> , 2015, 9, 89-97.	0.6	4
99	Greater palatine block for V2 trigeminal neuralgia: Case report. <i>Special Care in Dentistry</i> , 2019, 39, 208-213.	0.4	4
100	Heme Oxygenase-1 and Alzheimer Disease. , 2002, , 145-155.		4
101	Headache and Scalp Edema in Sickle Cell Disease. <i>Canadian Journal of Neurological Sciences</i> , 1996, 23, 224-226.	0.3	3
102	Aging glia may not protect neurons. <i>Annals of Neurology</i> , 1998, 44, 987-987.	2.8	3
103	ARAC - The Montreal Jewish General Hospital Alzheimer Risk Assessment Clinic. <i>Canadian Journal of Neurological Sciences</i> , 2011, 38, 600-611.	0.3	3
104	Inherited Disorders of Brain Iron Homeostasis. , 2009, , 251-276.		3
105	Biomarkers in Epidemiologic Research: Definition, Classification, and Implication. , 2017, , 135-139.		2
106	Stress Gene Deregulation in Alzheimer Peripheral Blood Mononuclear Cells. , 2011, , 251-263.		2
107	Dysregulation of a Heme Oxygenase-Synuclein Axis in Parkinson Disease. <i>NeuroSci</i> , 2022, 3, 284-299.	0.4	2
108	Sex Hormone, Pituitary, Parathyroid, and Adrenal Disorders and the Nervous System. , 2014, , 369-397.		1

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109	Heme oxygenase-1 in blood and saliva during acute psychosis: A pilot study. <i>Psychiatry Research</i> , 2021, 299, 113857.	1.7	1
110	Glial heme oxygenase-1 in CNS injury and disease. <i>Advances in Molecular and Cell Biology</i> , 2003, 31, 869-882.	0.1	0
111	Brain Iron Deposition in Aging and Disease: Role of HO-1. , 2009, , 125-139.		0
112	P2-064: HO-1/STEROL-OXYSTEROL INTERACTIONS IN ALZHEIMER'S DISEASE: A SYNTHESIS. , 2014, 10, P493-P493.		0
113	P2-155: Development and Validation of a Salivary TAU Biomarker in Alzheimer's Disease. <i>Alzheimer's and Dementia</i> , 2016, 12, P674.	0.4	0
114	Did the Kabbalah Anticipate Heisenberg's Uncertainty Principle?. , 2018, , .		0
115	Kabbalah and the Physics of David Bohm. , 2018, , .		0