

Dick F Swaab

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344
papers

21,233
citations

77
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131
g-index

402
ext. papers

23,566
ext. citations

5.5
avg, IF

6.84
L-index

#	Paper	IF	Citations
344	The stress system in the human brain in depression and neurodegeneration. <i>Ageing Research Reviews</i> , 2005 , 4, 141-94	12	683
343	A sex difference in the human brain and its relation to transsexuality. <i>Nature</i> , 1995 , 378, 68-70	50.4	584
342	Increased numbers of corticotropin-releasing hormone expressing neurons in the hypothalamic paraventricular nucleus of depressed patients. <i>Neuroendocrinology</i> , 1994 , 60, 436-44	5.6	554
341	Effect of bright light and melatonin on cognitive and noncognitive function in elderly residents of group care facilities: a randomized controlled trial. <i>JAMA - Journal of the American Medical Association</i> , 2008 , 299, 2642-55	27.4	514
340	Bright light therapy: improved sensitivity to its effects on rest-activity rhythms in Alzheimer patients by application of nonparametric methods. <i>Chronobiology International</i> , 1999 , 16, 505-18	3.6	399
339	Hypocretin (orexin) loss in Parkinson β disease. <i>Brain</i> , 2007 , 130, 1577-85	11.2	336
338	Indirect bright light improves circadian rest-activity rhythm disturbances in demented patients. <i>Biological Psychiatry</i> , 1997 , 41, 955-63	7.9	319
337	Alteration of the microRNA network during the progression of Alzheimer β disease. <i>EMBO Molecular Medicine</i> , 2013 , 5, 1613-34	12	311
336	Circadian rest-activity rhythm disturbances in Alzheimer β disease. <i>Biological Psychiatry</i> , 1996 , 40, 259-70	7.9	309
335	A sex difference in the hypothalamic uncinate nucleus: relationship to gender identity. <i>Brain</i> , 2008 , 131, 3132-46	11.2	295
334	Ontogeny of the vasopressinergic neurons of the suprachiasmatic nucleus and their extrahypothalamic projections in the rat brain--presence of a sex difference in the lateral septum. <i>Brain Research</i> , 1981 , 218, 67-78	3.7	289
333	Male-to-female transsexuals have female neuron numbers in a limbic nucleus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 2034-41	5.6	282
332	Neuropathology of stress. <i>Acta Neuropathologica</i> , 2014 , 127, 109-35	14.3	263
331	The human pineal gland and melatonin in aging and Alzheimer β disease. <i>Journal of Pineal Research</i> , 2005 , 38, 145-52	10.4	258
330	Living by the clock: the circadian pacemaker in older people. <i>Ageing Research Reviews</i> , 2006 , 5, 33-51	12	249
329	Decreased melatonin levels in postmortem cerebrospinal fluid in relation to aging, Alzheimer β disease, and apolipoprotein E-epsilon4/4 genotype. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999 , 84, 323-7	5.6	243
328	Sexual differentiation of the human brain: relation to gender identity, sexual orientation and neuropsychiatric disorders. <i>Frontiers in Neuroendocrinology</i> , 2011 , 32, 214-26	8.9	242

327	Melatonin rhythmicity: effect of age and Alzheimer β disease. <i>Experimental Gerontology</i> , 2003 , 38, 199-206	4.6	223
326	Hippocampal apoptosis in major depression is a minor event and absent from subareas at risk for glucocorticoid overexposure. <i>American Journal of Pathology</i> , 2001 , 158, 453-68	5.8	222
325	Disturbance and strategies for reactivation of the circadian rhythm system in aging and Alzheimer β disease. <i>Sleep Medicine</i> , 2007 , 8, 623-36	4.6	219
324	Molecular changes underlying reduced pineal melatonin levels in Alzheimer disease: alterations in preclinical and clinical stages. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2003 , 88, 5898-906	5.6	205
323	Early neuropathological Alzheimer β changes in aged individuals are accompanied by decreased cerebrospinal fluid melatonin levels. <i>Journal of Pineal Research</i> , 2003 , 35, 125-30	10.4	204
322	Sex differences in the distribution of androgen receptors in the human hypothalamus. <i>Journal of Comparative Neurology</i> , 2000 , 425, 422-35	3.4	200
321	Neither major depression nor glucocorticoid treatment affects the cellular integrity of the human hippocampus. <i>European Journal of Neuroscience</i> , 2001 , 14, 1603-12	3.5	188
320	Decreased hypothalamic thyrotropin-releasing hormone gene expression in patients with nonthyroidal illness. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1997 , 82, 4032-6	5.6	169
319	Pain processing in dementia and its relation to neuropathology. <i>Lancet Neurology, The</i> , 2003 , 2, 677-86	24.1	169
318	Alterations in circadian rhythmicity of the vasopressin-producing neurons of the human suprachiasmatic nucleus (SCN) with aging. <i>Brain Research</i> , 1994 , 651, 134-42	3.7	167
317	Concerted changes in transcripts in the prefrontal cortex precede neuropathology in Alzheimer β disease. <i>Brain</i> , 2010 , 133, 3699-723	11.2	165
316	Stress, depression and hippocampal apoptosis. <i>CNS and Neurological Disorders - Drug Targets</i> , 2006 , 5, 531-46	2.6	162
315	Recent developments in pain in dementia. <i>BMJ, The</i> , 2005 , 330, 461-4	5.9	156
314	Hypocretin (orexin) loss in Alzheimer β disease. <i>Neurobiology of Aging</i> , 2012 , 33, 1642-50	5.6	152
313	Gait in ageing and associated dementias; its relationship with cognition. <i>Neuroscience and Biobehavioral Reviews</i> , 2007 , 31, 485-97	9	152
312	Sexual differentiation of the brain and behavior. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2007 , 21, 431-44	6.5	151
311	Sexual differentiation of the bed nucleus of the stria terminalis in humans may extend into adulthood. <i>Journal of Neuroscience</i> , 2002 , 22, 1027-33	6.6	151
310	Decreased MT1 melatonin receptor expression in the suprachiasmatic nucleus in aging and Alzheimer β disease. <i>Neurobiology of Aging</i> , 2007 , 28, 1239-47	5.6	150

309	Increased levels of DNA breaks in cerebral cortex of Alzheimer β disease patients. <i>Neurobiology of Aging</i> , 1990 , 11, 169-73	5.6	150
308	Circadian and age-related modulation of thermoreception and temperature regulation: mechanisms and functional implications. <i>Ageing Research Reviews</i> , 2002 , 1, 721-78	12	149
307	Skin deep: enhanced sleep depth by cutaneous temperature manipulation. <i>Brain</i> , 2008 , 131, 500-13	11.2	148
306	Colocalization of corticotropin-releasing hormone and oestrogen receptor-alpha in the paraventricular nucleus of the hypothalamus in mood disorders. <i>Brain</i> , 2005 , 128, 1301-13	11.2	147
305	Sex differences in the brain, behavior, and neuropsychiatric disorders. <i>Neuroscientist</i> , 2010 , 16, 550-65	7.6	139
304	Phenotypic characterization of retinoic acid differentiated SH-SY5Y cells by transcriptional profiling. <i>PLoS ONE</i> , 2013 , 8, e63862	3.7	138
303	Distribution of the immune inhibitory molecules CD200 and CD200R in the normal central nervous system and multiple sclerosis lesions suggests neuron-glia and glia-glia interactions. <i>Journal of Neuropathology and Experimental Neurology</i> , 2009 , 68, 159-67	3.1	137
302	Pineal clock gene oscillation is disturbed in Alzheimer β disease, due to functional disconnection from the "master clock". <i>FASEB Journal</i> , 2006 , 20, 1874-6	0.9	133
301	Alterations in arginine vasopressin neurons in the suprachiasmatic nucleus in depression. <i>Archives of General Psychiatry</i> , 2001 , 58, 655-62		129
300	Sex hormone receptors are present in the human suprachiasmatic nucleus. <i>Neuroendocrinology</i> , 2002 , 75, 296-305	5.6	123
299	Decreased vasopressin gene expression in the biological clock of Alzheimer disease patients with and without depression. <i>Journal of Neuropathology and Experimental Neurology</i> , 2000 , 59, 314-22	3.1	120
298	Distribution of MT1 melatonin receptor immunoreactivity in the human hypothalamus and pituitary gland: colocalization of MT1 with vasopressin, oxytocin, and corticotropin-releasing hormone. <i>Journal of Comparative Neurology</i> , 2006 , 499, 897-910	3.4	119
297	Increased activity of surviving locus ceruleus neurons in Alzheimer β disease. <i>Annals of Neurology</i> , 1999 , 45, 82-91	9.4	119
296	Analysis of gene expression in Parkinson β disease: possible involvement of neurotrophic support and axon guidance in dopaminergic cell death. <i>Brain Pathology</i> , 2009 , 19, 91-107	6	117
295	Image analyser-assisted morphometry of the locus coeruleus in Alzheimer β disease, Parkinson β disease and amyotrophic lateral sclerosis. <i>Brain</i> , 1995 , 118 (Pt 1), 131-43	11.2	116
294	Neuroanatomical pathways for thyroid hormone feedback in the human hypothalamus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 4322-34	5.6	115
293	Apoptosis during sexual differentiation of the bed nucleus of the stria terminalis in the rat brain 2000 , 43, 234-243		112
292	Exercise, cognition and Alzheimer β disease: more is not necessarily better. <i>Neuroscience and Biobehavioral Reviews</i> , 2006 , 30, 562-75	9	108

291	The Y-chromosomal genes SRY and ZFY are transcribed in adult human brain. <i>Neurogenetics</i> , 1998 , 1, 281-8	3	106
290	Skin temperature and sleep-onset latency: changes with age and insomnia. <i>Physiology and Behavior</i> , 2007 , 90, 257-66	3.5	105
289	Glucocorticoids suppress corticotropin-releasing hormone and vasopressin expression in human hypothalamic neurons. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998 , 83, 2066-73	5.6	105
288	Cutaneous warming promotes sleep onset. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2005 , 288, R1589-97	3.2	102
287	Estrogen receptor-alpha distribution in the human hypothalamus in relation to sex and endocrine status. <i>Journal of Comparative Neurology</i> , 2002 , 454, 115-39	3.4	100
286	Long-term fitness training improves the circadian rest-activity rhythm in healthy elderly males. <i>Journal of Biological Rhythms</i> , 1997 , 12, 146-56	3.2	96
285	Impaired hypothalamus-pituitary-adrenal axis activity and more severe multiple sclerosis with hypothalamic lesions. <i>Annals of Neurology</i> , 2004 , 55, 37-45	9.4	94
284	Estrogen-receptor-beta distribution in the human hypothalamus: similarities and differences with ER alpha distribution. <i>Journal of Comparative Neurology</i> , 2003 , 466, 251-77	3.4	93
283	Vasopressin and oxytocin neurons of the human supraoptic and paraventricular nucleus: size changes in relation to age and sex. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1999 , 84, 4637-44	5.6	91
282	Neuropeptide changes in the suprachiasmatic nucleus in primary hypertension indicate functional impairment of the biological clock. <i>Journal of Comparative Neurology</i> , 2001 , 431, 320-30	3.4	88
281	Glucocorticoid receptor protein expression in human hippocampus; stability with age. <i>Neurobiology of Aging</i> , 2013 , 34, 1662-73	5.6	87
280	Hypothalamic NPY and agouti-related protein are increased in human illness but not in Prader-Willi syndrome and other obese subjects. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2002 , 87, 927-37	5.6	87
279	Estrogen receptor alpha and its splice variants in the hippocampus in aging and Alzheimer's disease. <i>Neurobiology of Aging</i> , 2007 , 28, 1670-81	5.6	85
278	Hypothalamic lesions in multiple sclerosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2001 , 60, 1208-18	3.1	85
277	Postmortem tracing reveals the organization of hypothalamic projections of the suprachiasmatic nucleus in the human brain. <i>Journal of Comparative Neurology</i> , 1998 , 400, 87-102	3.4	83
276	Hypocretin and melanin-concentrating hormone in patients with Huntington disease. <i>Brain Pathology</i> , 2008 , 18, 474-83	6	83
275	Alterations of melatonin receptors MT1 and MT2 in the hypothalamic suprachiasmatic nucleus during depression. <i>Journal of Affective Disorders</i> , 2013 , 148, 357-67	6.6	82
274	Structural and functional sex differences in the human hypothalamus. <i>Hormones and Behavior</i> , 2001 , 40, 93-8	3.7	82

273	Male-to-Female Transsexuals Have Female Neuron Numbers in a Limbic Nucleus		82
272	Cells in human postmortem brain tissue slices remain alive for several weeks in culture. <i>FASEB Journal</i> , 2002 , 16, 54-60	0.9	81
271	Diminished aromatase immunoreactivity in the hypothalamus, but not in the basal forebrain nuclei in Alzheimer β disease. <i>Neurobiology of Aging</i> , 2005 , 26, 173-94	5.6	80
270	Effect of light intensity on diurnal sleep-wake distribution in young and old rats. <i>Brain Research Bulletin</i> , 1993 , 30, 157-62	3.9	80
269	Diurnal and seasonal rhythms of neuronal activity in the suprachiasmatic nucleus of humans. <i>Journal of Biological Rhythms</i> , 1993 , 8, 283-95	3.2	78
268	Hypothalamic thyroid hormone feedback in health and disease. <i>Progress in Brain Research</i> , 2006 , 153, 189-207	2.9	77
267	Increased arginine vasopressin mRNA expression in the human hypothalamus in depression: A preliminary report. <i>Biological Psychiatry</i> , 2006 , 60, 892-5	7.9	77
266	White matter microstructure in transsexuals and controls investigated by diffusion tensor imaging. <i>Journal of Neuroscience</i> , 2014 , 34, 15466-75	6.6	76
265	Neurosteroid biosynthetic pathways changes in prefrontal cortex in Alzheimer β disease. <i>Neurobiology of Aging</i> , 2011 , 32, 1964-76	5.6	76
264	Early social stress in female guinea pigs induces a masculinization of adult behavior and corresponding changes in brain and neuroendocrine function. <i>Behavioural Brain Research</i> , 2003 , 144, 199-210	3.4	76
263	Pain in Parkinson β disease and multiple sclerosis: its relation to the medial and lateral pain systems. <i>Neuroscience and Biobehavioral Reviews</i> , 2005 , 29, 1047-56	9	76
262	Differential expression of estrogen receptor alpha and beta immunoreactivity in the human supraoptic nucleus in relation to sex and aging. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2000 , 85, 3283-91	5.6	76
261	Aberrant stress hormone receptor balance in the human prefrontal cortex and hypothalamic paraventricular nucleus of depressed patients. <i>Psychoneuroendocrinology</i> , 2013 , 38, 863-70	5	75
260	The number of hypothalamic hypocretin (orexin) neurons is not affected in Prader-Willi syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 5466-70	5.6	73
259	Seasonal changes in the suprachiasmatic nucleus of man. <i>Neuroscience Letters</i> , 1992 , 139, 257-60	3.3	73
258	Sexual differentiation of the human brain in relation to gender identity and sexual orientation. <i>Progress in Brain Research</i> , 2010 , 186, 41-62	2.9	72
257	The more physical inactivity, the more agitation in dementia. <i>International Psychogeriatrics</i> , 2010 , 22, 1203-8	3.4	72
256	Alterations in the circadian rhythm of salivary melatonin begin during middle-age. <i>Journal of Pineal Research</i> , 2003 , 34, 11-6	10.4	72

255	Storm before the quiet: neuronal hyperactivity and A β in the presymptomatic stages of Alzheimer's disease. <i>Neurobiology of Aging</i> , 2015 , 36, 1-11	5.6	71
254	Paraventricular nucleus of the human hypothalamus in primary hypertension: activation of corticotropin-releasing hormone neurons. <i>Journal of Comparative Neurology</i> , 2002 , 443, 321-31	3.4	70
253	Distribution of vasopressin and vasoactive intestinal polypeptide (VIP) fibers in the human hypothalamus with special emphasis on suprachiasmatic nucleus efferent projections. <i>Journal of Comparative Neurology</i> , 1997 , 383, 397-414	3.4	68
252	Impaired axonal transport of cortical neurons in Alzheimer's disease is associated with neuropathological changes. <i>Brain Research</i> , 2002 , 948, 138-44	3.7	67
251	The effect of old age on the free-running period of circadian rhythms in rat. <i>Chronobiology International</i> , 1994 , 11, 103-12	3.6	67
250	The human histaminergic system in neuropsychiatric disorders. <i>Trends in Neurosciences</i> , 2015 , 38, 167-77	3.3	66
249	Sex differences in the hypothalamus in the different stages of human life. <i>Neurobiology of Aging</i> , 2003 , 24 Suppl 1, S1-16; discussion S17-9	5.6	66
248	Increased p75(NTR) expression in hippocampal neurons containing hyperphosphorylated tau in Alzheimer patients. <i>Experimental Neurology</i> , 2002 , 178, 104-11	5.7	66
247	Lewy body disease: clinico-pathological correlations in 18 consecutive cases of Parkinson's disease with and without dementia. <i>Clinical Neurology and Neurosurgery</i> , 1995 , 97, 13-22	2	66
246	The circadian system and the balance of the autonomic nervous system. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2013 , 117, 173-91	3	64
245	Gender differences in multiple sclerosis: induction of estrogen signaling in male and progesterone signaling in female lesions. <i>Journal of Neuropathology and Experimental Neurology</i> , 2014 , 73, 123-35	3.1	64
244	GFAP Δ in radial glia and subventricular zone progenitors in the developing human cortex. <i>Development (Cambridge)</i> , 2010 , 137, 313-21	6.6	64
243	Human retinohypothalamic tract as revealed by in vitro postmortem tracing. <i>Journal of Comparative Neurology</i> , 1998 , 397, 357-370	3.4	64
242	Sex differences in androgen receptors of the human mamillary bodies are related to endocrine status rather than to sexual orientation or transsexuality. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 818-27	5.6	62
241	The human hypothalamus in mood disorders: The HPA axis in the center. <i>IBRO Reports</i> , 2019 , 6, 45-53	2	61
240	Increased expression of estrogen receptor alpha and beta in the nucleus basalis of Meynert in Alzheimer's disease. <i>Neurobiology of Aging</i> , 2001 , 22, 417-26	5.6	61
239	Increased activity of hypothalamic corticotropin-releasing hormone neurons in multiple sclerosis. <i>Journal of Neuroimmunology</i> , 1995 , 62, 27-33	3.5	61
238	The involvement of retinoic acid receptor-alpha in corticotropin-releasing hormone gene expression and affective disorders. <i>Biological Psychiatry</i> , 2009 , 66, 832-9	7.9	60

237	Functional plasticity of the circadian timing system in old age: light exposure. <i>Progress in Brain Research</i> , 2002 , 138, 205-31	2.9	60
236	Distribution of thyrotropin-releasing hormone (TRH)-containing cells and fibers in the human hypothalamus. <i>Journal of Comparative Neurology</i> , 1994 , 350, 311-23	3.4	60
235	Structural Connectivity Networks of Transgender People. <i>Cerebral Cortex</i> , 2015 , 25, 3527-34	5.1	59
234	P75 neurotrophin receptor in the nucleus basalis of meynert in relation to age, sex, and Alzheimer β disease. <i>Experimental Neurology</i> , 2000 , 161, 245-58	5.7	59
233	Sexual differentiation of the human brain in relation to gender identity and sexual orientation. <i>Functional Neurology</i> , 2009 , 24, 17-28	2.2	59
232	Molecular misreading: a new type of transcript mutation expressed during aging. <i>Neurobiology of Aging</i> , 2000 , 21, 879-91	5.6	58
231	Alzheimer disease: correlation of cerebro-spinal fluid and brain ubiquitin levels. <i>Brain Research</i> , 1994 , 639, 1-7	3.7	58
230	Influence of aging on the seasonal rhythm of the vasopressin-expressing neurons in the human suprachiasmatic nucleus. <i>Neurobiology of Aging</i> , 1995 , 16, 965-71	5.6	57
229	Abnormal retinoid and TrkB signaling in the prefrontal cortex in mood disorders. <i>Cerebral Cortex</i> , 2015 , 25, 75-83	5.1	56
228	New actigraph for long-term tremor recording. <i>Movement Disorders</i> , 2006 , 21, 1136-43	7	56
227	Alterations in the histaminergic system in Alzheimer β disease: a postmortem study. <i>Neurobiology of Aging</i> , 2012 , 33, 2585-98	5.6	55
226	Increased expression level of corticotropin-releasing hormone in the amygdala and in the hypothalamus in rats exposed to chronic unpredictable mild stress. <i>Neuroscience Bulletin</i> , 2010 , 26, 297-303	4.3	55
225	Novel neuroanatomical pathways for thyroid hormone action in the human anterior pituitary. <i>European Journal of Endocrinology</i> , 2006 , 154, 491-500	6.5	55
224	Gender difference in age-related number of corticotropin-releasing hormone-expressing neurons in the human hypothalamic paraventricular nucleus and the role of sex hormones. <i>Neuroendocrinology</i> , 2007 , 85, 27-36	5.6	54
223	Neuropeptides in hypothalamic neuronal disorders. <i>International Review of Cytology</i> , 2004 , 240, 305-75		54
222	The hypothalamus in episodic brain disorders. <i>Lancet Neurology</i> , 2002 , 1, 437-44	24.1	52
221	MicroRNA-132 and early growth response-1 in nucleus basalis of Meynert during the course of Alzheimer β disease. <i>Brain</i> , 2016 , 139, 908-21	11.2	50
220	HPA axis activity in multiple sclerosis correlates with disease severity, lesion type and gene expression in normal-appearing white matter. <i>Acta Neuropathologica</i> , 2013 , 126, 237-49	14.3	50

219	Opiates increase the number of hypocretin-producing cells in human and mouse brain and reverse cataplexy in a mouse model of narcolepsy. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	50
218	Loss of GPR3 reduces the amyloid plaque burden and improves memory in Alzheimer β disease mouse models. <i>Science Translational Medicine</i> , 2015 , 7, 309ra164	17.5	49
217	Volumetric parcellation methodology of the human hypothalamus in neuroimaging: normative data and sex differences. <i>NeuroImage</i> , 2013 , 69, 1-10	7.9	49
216	Suprachiasmatic nucleus neuropeptide expression in patients with Huntington β Disease. <i>Sleep</i> , 2013 , 36, 117-25	1.1	49
215	IL-1 β immunoreactive neurons in the human hypothalamus: reduced numbers in multiple sclerosis. <i>Journal of Neuroimmunology</i> , 2000 , 107, 8-20	3.5	49
214	The hypothalamo-pituitary-adrenal axis in multiple sclerosis. <i>Annals of the New York Academy of Sciences</i> , 2003 , 992, 118-28	6.5	48
213	Estrogen receptor alpha-immunoreactive astrocytes are increased in the hippocampus in Alzheimer β disease. <i>Experimental Neurology</i> , 2003 , 183, 482-8	5.7	48
212	Transcutaneous electrical nerve stimulation (TENS) improves circadian rhythm disturbances in Alzheimer disease. <i>Alzheimer Disease and Associated Disorders</i> , 1998 , 12, 114-8	2.5	48
211	Increased number of corticotropin-releasing hormone expressing neurons in the hypothalamic paraventricular nucleus of patients with multiple sclerosis. <i>Neuroendocrinology</i> , 1995 , 62, 62-70	5.6	48
210	β arrestin1 regulates β secretase complex assembly and modulates amyloid- β pathology. <i>Cell Research</i> , 2013 , 23, 351-65	24.7	47
209	Expression of thyroid hormone transporters in the human hypothalamus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E967-71	5.6	47
208	Lack of association between depression and loss of neurons in the locus coeruleus in Alzheimer disease. <i>Archives of General Psychiatry</i> , 1999 , 56, 45-51		47
207	Melanocortin 4 receptor distribution in the human hypothalamus. <i>European Journal of Endocrinology</i> , 2013 , 168, 361-9	6.5	46
206	Neurosteroid biosynthetic pathway changes in substantia nigra and caudate nucleus in Parkinson β disease. <i>Brain Pathology</i> , 2010 , 20, 945-51	6	46
205	Decreased estrogen receptor-alpha expression in hippocampal neurons in relation to hyperphosphorylated tau in Alzheimer patients. <i>Acta Neuropathologica</i> , 2003 , 106, 213-20	14.3	46
204	Prefrontal changes in the glutamate-glutamine cycle and neuronal/glial glutamate transporters in depression with and without suicide. <i>Journal of Psychiatric Research</i> , 2016 , 82, 8-15	5.2	46
203	Decreased NOS1 expression in the anterior cingulate cortex in depression. <i>Cerebral Cortex</i> , 2013 , 23, 2956-64	5.1	45
202	Galanin neurons in the intermediate nucleus (InM) of the human hypothalamus in relation to sex, age, and gender identity. <i>Journal of Comparative Neurology</i> , 2011 , 519, 3061-84	3.4	44

201	Very low levels of the glucocorticoid receptor beta isoform in the human hippocampus as shown by Taqman RT-PCR and immunocytochemistry. <i>Molecular Brain Research</i> , 2003 , 116, 17-26		44
200	Cortical beta amyloid protein triggers an immune response, but no synaptic changes in the APPswe/PS1dE9 Alzheimer β disease mouse model. <i>Neurobiology of Aging</i> , 2013 , 34, 1328-42	5.6	43
199	Thyroid hormone receptor expression in the human hypothalamus and anterior pituitary. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2005 , 90, 904-12	5.6	43
198	Vulnerability and resilience to Alzheimer β disease: early life conditions modulate neuropathology and determine cognitive reserve. <i>Alzheimer's Research and Therapy</i> , 2018 , 10, 95	9	43
197	Prenatal famine exposure has sex-specific effects on brain size. <i>Brain</i> , 2016 , 139, 2136-42	11.2	42
196	Understanding higher level gait disturbances in mild dementia in order to improve rehabilitation: Rest in-first out? <i>Neuroscience and Biobehavioral Reviews</i> , 2011 , 35, 699-714	9	42
195	Changes in estrogen receptor-alpha and -beta in the infundibular nucleus of the human hypothalamus are related to the occurrence of Alzheimer β disease neuropathology. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 1912-25	5.6	42
194	Gene expression of GABA and glutamate pathway markers in the prefrontal cortex of non-suicidal elderly depressed patients. <i>Journal of Affective Disorders</i> , 2012 , 138, 494-502	6.6	41
193	Alterations in the histaminergic system in the substantia nigra and striatum of Parkinson β patients: a postmortem study. <i>Neurobiology of Aging</i> , 2012 , 33, 1488.e1-13	5.6	41
192	Sexual behavior reduces hypothalamic androgen receptor immunoreactivity. <i>Psychoneuroendocrinology</i> , 2003 , 28, 501-12	5	41
191	Transcutaneous electrical nerve stimulation (TENS) improves the rest-activity rhythm in midstage Alzheimer β disease. <i>Behavioural Brain Research</i> , 1999 , 101, 105-7	3.4	41
190	Increased cerebrospinal fluid cortisol level in Alzheimer β disease is not related to depression. <i>Neurobiology of Aging</i> , 2006 , 27, 780.e1-780.e2	5.6	40
189	Corticotropin-releasing hormone and arginine vasopressin in depression focus on the human postmortem hypothalamus. <i>Vitamins and Hormones</i> , 2010 , 82, 339-65	2.5	39
188	Immunohistochemical screening for autoantibodies against lateral hypothalamic neurons in human narcolepsy. <i>Journal of Neuroimmunology</i> , 2006 , 174, 187-91	3.5	39
187	Similar age related increase of vasopressin colocalization in paraventricular corticotropin-releasing hormone neurons in controls and Alzheimer patients. <i>Journal of Neuroendocrinology</i> , 1994 , 6, 131-3	3.8	39
186	Hand motor activity, cognition, mood, and the rest-activity rhythm in dementia: a clustered RCT. <i>Behavioural Brain Research</i> , 2009 , 196, 271-8	3.4	37
185	Sex differences in the neurokinin B system in the human infundibular nucleus. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, E2210-20	5.6	37
184	Sexual differentiation of the human hypothalamus. <i>Advances in Experimental Medicine and Biology</i> , 2002 , 511, 75-100; discussion 100-5	3.6	37

183	Activation and degeneration during aging: a morphometric study of the human hypothalamus. <i>Microscopy Research and Technique</i> , 1999 , 44, 36-48	2.8	37
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