Geert J De Vries

List of Publications by Year
in descending order

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130 papers	14,194 citations	16437 64 h-index	20343 116 g-index
131 all docs	131 docs citations	131 times ranked	8728 citing authors

#	Article	IF	Citations
1	Sex and gender: modifiers of health, disease, and medicine. Lancet, The, 2020, 396, 565-582.	6.3	955
2	A Molecular Mechanism Regulating Rhythmic Output from the Suprachiasmatic Circadian Clock. Cell, 1999, 96, 57-68.	13.5	834
3	Sex Differences in the Brain: The Not So Inconvenient Truth. Journal of Neuroscience, 2012, 32, 2241-2247.	1.7	576
4	The origin of the vasopressinergic and oxytocinergic innervation of the rat brain with special reference to the lateral septum. Brain Research, 1983, 273, 307-317.	1.1	510
5	A Model System for Study of Sex Chromosome Effects on Sexually Dimorphic Neural and Behavioral Traits. Journal of Neuroscience, 2002, 22, 9005-9014.	1.7	458
6	Minireview: Sex Differences in Adult and Developing Brains: Compensation, Compensation, Compensation. Endocrinology, 2004, 145, 1063-1068.	1.4	447
7	The Epigenetics of Sex Differences in the Brain: Figure 1.. Journal of Neuroscience, 2009, 29, 12815-12823.	1.7	389
8	Role of septal vasopressin innervation in paternal behavior in prairie voles (Microtus ochrogaster).. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 400-404.	3.3	333
9	Ontogeny of the vasopressinergic neurons of the suprachiasmatic nucleus and their extrahypothalamic projections in the rat brainâ€"presence of a sex difference in the lateral septum. Brain Research, 1981, 218, 67-78.	1.1	308
10	Sexual differentiation of central vasopressin and vasotocin systems in vertebrates: Different mechanisms, similar endpoints. Neuroscience, 2006, 138, 947-955.	1.1	291
11	Vasopressin cells in the bed nucleus of the stria terminalis of the rat: sex differences and the influence of androgens. Brain Research, 1985, 325, 391-394.	1.1	247
12	Neural Connections of the Anterior Hypothalamus and Agonistic Behavior in Golden Hamsters. Brain, Behavior and Evolution, 2000, 55, 53-76.	0.9	239
13	Masculine Sexual Behavior Is Disrupted in Male and Female Mice Lacking a Functional Estrogen Receptor Î± Gene. Hormones and Behavior, 1997, 32, 176-183.	1.0	224
14	Gonadal hormone actions on the morphology of the vasopressinergic innervation of the adult rat brain. Brain Research, 1984, 298, 141-145.	1.1	222
15	Sex Differences in Neurotransmitter Systems. Journal of Neuroendocrinology, 1990, 2, 1-13.	1.2	203
16	Sex differences in the parental behavior of rodents. Neuroscience and Biobehavioral Reviews, 2000, 24, 669-686.	2.9	203
17	Deletion of Bax eliminates sex differences in the mouse forebrain. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13666-13671.	3.3	200
18	Sex differences in the brain: The relation between structure and function. Hormones and Behavior, 2009, 55, 589-596.	1.0	199

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19	Sex inclusion in basic research drives discovery. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5257-5258.	3.3	187
20	Sex differences in the effects of testosterone and its metabolites on vasopressin messenger RNA levels in the bed nucleus of the stria terminalis of rats. Journal of Neuroscience, 1994, 14, 1789-1794.	1.7	179
21	Sex and Species Differences in the Vasopressin Innervation of Sexually Naive and Parental Prairie Voles, Microtus ochrogaster and Meadow Voles, Microtus pennsylvanicus. Journal of Neuroendocrinology, 1993, 5, 247-255.	1.2	177
22	Distribution of androgen receptor immunoreactivity in vasopressin- and oxytocin-immunoreactive neurons in the male rat brain.. Endocrinology, 1994, 134, 2622-2627.	1.4	171
23	Sexual Differentiation of the Bed Nucleus of the Stria Terminalis in Humans May Extend into Adulthood. Journal of Neuroscience, 2002, 22, 1027-1033.	1.7	169
24	Sex and species differences in the effects of cohabitation on vasopressin messenger RNA expression in the bed nucleus of the stria terminalis in prairie voles (Microtus ochrogaster) and meadow voles (Microtus pennsylvanicus). Brain Research, 1994, 650, 212-218.	1.1	166
25	Cohabitation alters vasopressin innervation and paternal behavior in prairie voles (Microtus) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T f	E0	163
26	Chapter 1.1 Anatomy and function of extrahypothalamic vasopressin systems in the brain. Progress in Brain Research, 1999, 119, 3-20.	0.9	162
27	Effects of androgens and estrogens on the vasopressin and oxytocin innervation of the adult rat brain. Brain Research, 1986, 399, 296-302.	1.1	154
28	Epigenetic Control of Sexual Differentiation of the Bed Nucleus of the Stria Terminalis. Endocrinology, 2009, 150, 4241-4247.	1.4	154
29	Testosterone effects on paternal behavior and vasopressin immunoreactive projections in prairie voles (Microtus ochrogaster). Brain Research, 1993, 631, 156-160.	1.1	145
30	Sex differences in vasopressin and oxytocin innervation of the brain. Progress in Brain Research, 2008, 170, 17-27.	0.9	143
31	The influence of androgens on the development of a sex difference in the vasopressinergic innervation of the rat lateral septum. Developmental Brain Research, 1983, 8, 377-380.	2.1	133
32	Apoptosis during sexual differentiation of the bed nucleus of the stria terminalis in the rat brain. Journal of Neurobiology, 2000, 43, 234-243.	3.7	131
33	Sex-specific modulation of juvenile social play by vasopressin. Psychoneuroendocrinology, 2013, 38, 2554-2561.	1.3	121
34	Vasopressin and Oxytocin: Distribution and Putative Functions in the Brain. Progress in Brain Research, 1983, 60, 115-122.	0.9	120
35	Steroids, stress and the gut microbiomeâ€brain axis. Journal of Neuroendocrinology, 2018, 30, e12548.	1.2	119
36	Sex differences in hormonal responses of vasopressin pathways in the rat brain. Journal of Neurobiology, 1990, 21, 686-693.	3.7	117

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37	Vasopressin innervation of the mouse (Mus musculus) brain and spinal cord. Journal of Comparative Neurology, 2011, 519, 2434-2474.	0.9	112
38	Seasonal variation in vasopressin innervation in the brain of the European hamster (Cricetus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	1.1	109
39	Sexual differentiation of vasopressin projections of the bed nucleus of the stria terminals and medial amygdaloid nucleus in rats.. Endocrinology, 1993, 132, 2299-2306.	1.4	109
40	Comparison of the Parental Behavior of Pair-Bonded Female and Male Prairie Voles (Microtus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.0	109
41	Sex Differences in Progesterone Receptor Expression: A Potential Mechanism for Estradiol-Mediated Sexual Differentiation. Endocrinology, 2002, 143, 3727-3739.	1.4	108
42	Organizational effects of testosterone, estradiol, and dihydrotestosterone on vasopressin mRNA expression in the bed nucleus of the stria terminalis. Journal of Neurobiology, 2003, 54, 502-510.	3.7	108
43	Sex Differences in the Parental Behaviour of Adult Virgin Prairie Voles: Independence From Gonadal Hormones and Vasopressin. Journal of Neuroendocrinology, 1999, 11, 441-449.	1.2	107
44	Anatomy, Development, and Function of Sexually Dimorphic Neural Circuits in the Mammalian Brain. , 2002, , 137-XXIX.		106
45	The effects of perinatal testosterone exposure on the DNA methylome of the mouse brain are late-emerging. Biology of Sex Differences, 2014, 5, 8.	1.8	106
46	Sex differences in the brain: a whole body perspective. Biology of Sex Differences, 2015, 6, 15.	1.8	106
47	Vasopressin regulates social recognition in juvenile and adult rats of both sexes, but in sex- and age-specific ways. Hormones and Behavior, 2012, 61, 50-56.	1.0	105
48	NIH initiative to balance sex of animals in preclinical studies: generative questions to guide policy, implementation, and metrics. Biology of Sex Differences, 2014, 5, 15.	1.8	98
49	Double duty for sex differences in the brain. Behavioural Brain Research, 1998, 92, 205-213.	1.2	96
50	Potential Role of Maternal Progesterone in the Sexual Differentiation of the Brain. Endocrinology, 1998, 139, 3658-3661.	1.4	94
51	Estrogen-receptor immunoreactivity in hamster brain: preoptic area, hypothalamus and amygdala. Brain Research, 1993, 631, 304-312.	1.1	92
52	Site of origin of and sex differences in the vasopressin innervation of the mouse (Mus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (	0.9	91
53	Sexual dimorphism in the vasotocin system of the bullfrog (Rana catesbeiana). Journal of Comparative Neurology, 1992, 325, 313-325.	0.9	90
54	Maternal behaviour in lactating rats stimulates c-fos in glutamate decarboxylase-synthesizing neurons of the medial preoptic area, ventral bed nucleus of the stria terminalis, and ventrocaudal periaqueductal gray. Neuroscience, 2000, 100, 557-568.	1.1	86

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55	A daily rhythm in behavioral vasopressin sensitivity and brain vasopressin concentrations. Neuroscience Letters, 1985, 58, 37-41.	1.0	83
56	Changes with aging in the vasopressin and oxytocin innervation of the rat brain. Brain Research, 1985, 348, 1-8.	1.1	81
57	Social control of brain morphology in a eusocial mammal. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10548-10552.	3.3	80
58	Distribution of oxytocin in the brain of a eusocial rodent. Neuroscience, 2008, 155, 809-817.	1.1	74
59	Evidence for a functional and anatomical relationship between the lateral septum and the hypothalamus in the control of flank marking behavior in golden hamsters. Journal of Comparative Neurology, 1990, 293, 476-485.	0.9	73
60	Epigenetics and sex differences in the brain: A genome-wide comparison of histone-3 lysine-4 trimethylation (H3K4me3) in male and female mice. Experimental Neurology, 2015, 268, 21-29.	2.0	73
61	Androgen and Estrogen Effects on Vasopressin Messenger RNA Expression in the Medial Amygdaloid Nucleus in Male and Female Rats. Journal of Neuroendocrinology, 1995, 7, 827-831.	1.2	71
62	Sex differences in progesterone receptor immunoreactivity in neonatal mouse brain depend on estrogen receptor ? expression. Journal of Neurobiology, 2001, 47, 176-182.	3.7	71
63	Sexually dimorphic effects of a prenatal immune challenge on social play and vasopressin expression in juvenile rats. Biology of Sex Differences, 2012, 3, 15.	1.8	71
64	Two Perspectives on the Origin of Sex Differences in the Brain. Annals of the New York Academy of Sciences, 2003, 1007, 176-188.	1.8	67
65	Brain Sexual Dimorphism and Sex Differences in Parental and Other Social Behaviors. Annals of the New York Academy of Sciences, 1997, 807, 273-286.	1.8	66
66	Coexistence of vasopressin, neurophysin and noradrenaline immunoreactivity in medium-sized cells of the locus coeruleus and subcoeruleus in the rat. Brain Research, 1985, 338, 160-164.	1.1	65
67	Evaluating sex as a biological variable in preclinical research: the devil in the details. Biology of Sex Differences, 2016, 7, 13.	1.8	63
68	Dietary emulsifiers consumption alters anxiety-like and social-related behaviors in mice in a sex-dependent manner. Scientific Reports, 2019, 9, 172.	1.6	60
69	Cell death atlas of the postnatal mouse ventral forebrain and hypothalamus: Effects of age and sex. Journal of Comparative Neurology, 2013, 521, 2551-2569.	0.9	58
70	Vasopressin innervation of sexually dimorphic structures of the gerbil forebrain under various hormonal conditions. Journal of Comparative Neurology, 1992, 322, 589-598.	0.9	57
71	Local implants of testosterone metabolites regulate vasopressin mRNA in sexually dimorphic nuclei of the rat brain. Peptides, 1993, 14, 933-940.	1.2	56
72	Sex differences in mouse cortical thickness are independent of the complement of sex chromosomes. Neuroscience, 2003, 116, 71-75.	1.1	56

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73	Regulation of Sex Differences in Progesterone Receptor Expression in the Medial Preoptic Nucleus of Postnatal Rats. Journal of Neuroendocrinology, 2002, 14, 761-767.	1.2	55
74	Effects of the Selective Serotonin Reuptake Inhibitor Fluoxetine on Social Behaviors in Male and Female Prairie Voles (Microtus ochrogaster). Hormones and Behavior, 1997, 32, 184-191.	1.0	53
75	Parental Responsiveness Is Feminized after Neonatal Castration in Virgin Male Prairie Voles, but Is Not Masculinized by Perinatal Testosterone in Virgin Females. Hormones and Behavior, 2002, 41, 80-87.	1.0	53
76	Progesterone receptors and the sexual differentiation of the medial preoptic nucleus. Journal of Neurobiology, 2002, 51, 24-32.	3.7	53
77	Progestin Receptor Immunoreactivity Within Steroid-Responsive Vasopressin-Immunoreactive Cells in the Male and Female Rat Brain. Journal of Neuroendocrinology, 2002, 14, 561-567.	1.2	53
78	Comparison of the â€œNursingâ€•and Other Parental Behaviors of Nulliparous and Lactating Female Rats. Hormones and Behavior, 1999, 36, 242-251.	1.0	51
79	Neonatal Mice Possessing an Sry Transgene Show a Masculinized Pattern of Progesterone Receptor Expression in the Brain Independent of Sex Chromosome Status. Endocrinology, 2004, 145, 1046-1049.	1.4	51
80	Social influences on parental and nonparental responses toward pups in virgin female prairie voles (Microtus ochrogaster).. Journal of Comparative Psychology (Washington, D C: 1983), 2001, 115, 53-61.	0.3	50
81	Intracellular preoptic and striatal monoamines in pregnant and lactating rats: possible role in maternal behavior. Brain Research, 2003, 970, 149-158.	1.1	50
82	Distribution of small vasopressinergic neurons in golden hamsters. Journal of Comparative Neurology, 1995, 360, 589-598.	0.9	49
83	Influence of gonadal hormones on the development of parental behavior in adult virgin prairie voles (Microtus ochrogaster). Behavioural Brain Research, 2000, 114, 79-87.	1.2	49
84	Evaluation of (d-Pro2, d-Trp7,9)-substance P as an antagonist of substance P responses in the rat central nervous system. Neuroscience Letters, 1982, 30, 291-295.	1.0	47
85	Distribution of vasopressin in the brain of the eusocial naked mole-rat. Journal of Comparative Neurology, 2007, 500, 1093-1105.	0.9	45
86	Neurogenesis of the sexually dimorphic vasopressin cells of the bed nucleus of the stria terminalis and amygdala of rats. , 1996, 29, 91-98.		44
87	Sexually dimorphic role for vasopressin in the development of social play. Frontiers in Behavioral Neuroscience, 2014, 8, 58.	1.0	43
88	Sexually Dimorphic Vasopressin Cells Modulate Social Investigation and Communication in Sex-Specific Ways. ENeuro, 2019, 6, ENEURO.0415-18.2019.	0.9	41
89	Efferent projections of the sexually dimorphic area of the gerbil hypothalamus: Anterograde identification and retrograde verification in males and females. Journal of Comparative Neurology, 1993, 338, 491-520.	0.9	38
90	Afferent connections of the sexually dimorphic area of the hypothalamus of male and female gerbils. Journal of Comparative Neurology, 1988, 271, 91-105.	0.9	37

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91	Gonadal Steroid Modulation of Vasopressin Pathwaysa. Annals of the New York Academy of Sciences, 1992, 652, 387-396.	1.8	36
92	Unexpected Effects of Perinatal Gonadal Hormone Manipulations on Sexual Differentiation of the Extrahypothalamic Arginine-Vasopressin System in Prairie Voles. Endocrinology, 2005, 146, 1559-1567.	1.4	35
93	Neurogenesis of galanin cells in the bed nucleus of the stria terminalis and centromedial amygdala in rats: A model for sexual differentiation of neuronal phenotype. Journal of Neurobiology, 1999, 38, 491-498.	3.7	33
94	Role of pregnancy and parturition in induction of maternal behavior in prairie voles (Microtus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.0	33
95	Sexual Differentiation of Vasopressin Innervation of the Brain: Cell Death Versus Phenotypic Differentiation. Endocrinology, 2008, 149, 4632-4637.	1.4	33
96	Sexually dimorphic role of BNST vasopressin cells in sickness and social behavior in male and female mice. Brain, Behavior, and Immunity, 2020, 83, 68-77.	2.0	32
97	Potential Role of Maternal Progesterone in the Sexual Differentiation of the Brain. Endocrinology, 1998, 139, 3658-3661.	1.4	32
98	The Sexually Dimorphic Vasopressin Innervation of the Brain as a Model for Steroid Modulation of Neuropeptide Transmission. Annals of the New York Academy of Sciences, 1994, 743, 95-120.	1.8	28
99	Absence of progestin receptors alters distribution of vasopressin fibers but not sexual differentiation of vasopressin system in mice. Neuroscience, 2008, 154, 911-921.	1.1	27
100	Effects of Neonatal Treatment with Valproic Acid on Vasopressin Immunoreactivity and Olfactory Behaviour in Mice. Journal of Neuroendocrinology, 2011, 23, 906-914.	1.2	27
101	Atypical Social Development in Vasopressin-Deficient Brattleboro Rats. ENeuro, 2016, 3, ENEURO.0150-15.2016.	0.9	27
102	Effects of gut-derived endotoxin on anxiety-like and repetitive behaviors in male and female mice. Biology of Sex Differences, 2018, 9, 7.	1.8	27
103	Distribution of vasopressin in the forebrain of spotted hyenas. Journal of Comparative Neurology, 2006, 498, 80-92.	0.9	26
104	Vasopressin deletion is associated with sex-specific shifts in the gut microbiome. Gut Microbes, 2018, 9, 13-25.	4.3	26
105	NIH policy: Status quo is also costly. Nature, 2014, 510, 340-340.	13.7	25
106	Sex Steroids and Sex Chromosomes at Odds?. Endocrinology, 2005, 146, 3277-3279.	1.4	24
107	Effects of vasopressin on female sexual behavior in male rats. Neuroscience Letters, 1986, 69, 188-191.	1.0	23
108	Sexual Differentiation of the Brain: A Fresh Look at Mode, Mechanisms, and Meaning. , 2017, , 3-32.		21

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109	Associations of the Fecal Microbial Proteome Composition and Proneness to Diet-induced Obesity. Molecular and Cellular Proteomics, 2019, 18, 1864-1879.	2.5	19
110	Sex Differences in the Control of Social Investigation and Anxiety by Vasopressin Cells of the Paraventricular Nucleus of the Hypothalamus. Neuroendocrinology, 2021, 111, 521-535.	1.2	19
111	Flank-marking behavior and the neural distribution of vasopressin innervation in golden hamsters with suprachiasmatic lesions.. Behavioral Neuroscience, 1998, 112, 1486-1501.	0.6	17
112	Defining Dysbiosis in Disorders of Movement and Motivation. Journal of Neuroscience, 2018, 38, 9414-9422.	1.7	17
113	Sensitive Periods for Hormonal Programming of the Brain. Current Topics in Behavioral Neurosciences, 2014, , 79-108.	0.8	17
114	Dissociation of Puberty and Adolescent Social Development in a Seasonally Breeding Species. Current Biology, 2018, 28, 1116-1123.e2.	1.8	16
115	Sensitive Periods for Hormonal Programming of the Brain. Current Topics in Behavioral Neurosciences, 2014, 16, 79-108.	0.8	15
116	Cell death and sexual differentiation of behavior: worms, flies, and mammals. Current Opinion in Neurobiology, 2010, 20, 776-783.	2.0	13
117	Studying neurotransmitter systems to understand the development and function of sex differences in the brain: the case of vasopressin. , 1995, , 254-278.		11
118	Androstenedione Effects on the Vasopressin Innervation of the Rat Brain. Endocrinology, 1999, 140, 3383-3386.	1.4	11
119	Reduction in vasopressin cells in the suprachiasmatic nucleus in mice increases anxiety and alters fluid intake. Hormones and Behavior, 2021, 133, 104997.	1.0	10
120	Knockdown of sexually differentiated vasopressin expression in the bed nucleus of the stria terminalis reduces social and sexual behaviour in male, but not female, mice. Journal of Neuroendocrinology, 2022, 34, e13083.	1.2	10
121	Fiber outgrowth from fetal vasopressin neurons of the suprachiasmatic nucleus, bed nucleus of the stria terminalis, and medial amygdaloid nucleus transplanted into adult Brattleboro rats. Developmental Brain Research, 1991, 64, 200-204.	2.1	8
122	Vasopressin and Oxytocin: Keys to Understanding the Neural Control of Physiology and Behaviour. Journal of Neuroendocrinology, 2012, 24, 527-527.	1.2	8
123	Antidromic activation of a peptidergic pathway in the limbic system of the male rat. Brain Research, 1993, 606, 171-174.	1.1	7
124	Removal of vasopressin cells from the paraventricular nucleus of the hypothalamus enhances lipopolysaccharideâ€induced sickness behaviour in mice. Journal of Neuroendocrinology, 2021, 33, e12915.	1.2	4
125	Sexual Differentiation of Brain and Behavior. , 2015, , 2109-2155.		3
126	Translational research in Behavioral Neuroendocrinology. Hormones and Behavior, 2006, 50, 503.	1.0	2

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127	Androstenedione Effects on the Vasopressin Innervation of the Rat Brain. Endocrinology, 1999, 140, 3383-3386.	1.4	2
128	State-of-the art (Arnold) behavioral neuroendocrinology. Hormones and Behavior, 2011, 60, 1-3.	1.0	1
129	Apoptosis during sexual differentiation of the bed nucleus of the stria terminalis in the rat brain. , 2000, 43, 234.		1
130	Sex Differences in Neurotransmitters Systems; Vasopressin as an Example. , 2007, , 487-512.		0