

Daniel S Zahm

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108
papers

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101
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10,989
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L-index

#	Paper	IF	Citations
108	Specificity in the projection patterns of accumbal core and shell in the rat. <i>Neuroscience</i> , 1991 , 41, 89-125	5.9	996
107	The patterns of afferent innervation of the core and shell in the "accumbens" part of the rat ventral striatum: immunohistochemical detection of retrogradely transported fluoro-gold. <i>Journal of Comparative Neurology</i> , 1993 , 338, 255-78	3.4	939
106	On the significance of subterritories in the "accumbens" part of the rat ventral striatum. <i>Neuroscience</i> , 1992 , 50, 751-67	3.9	892
105	An integrative neuroanatomical perspective on some subcortical substrates of adaptive responding with emphasis on the nucleus accumbens. <i>Neuroscience and Biobehavioral Reviews</i> , 2000 , 24, 85-105	9	394
104	Specificity in the efferent projections of the nucleus accumbens in the rat: comparison of the rostral pole projection patterns with those of the core and shell. <i>Journal of Comparative Neurology</i> , 1993 , 327, 220-32	3.4	353
103	Glutamatergic afferents of the ventral tegmental area in the rat. <i>Journal of Neuroscience</i> , 2007 , 27, 5730-43	6.3	351
102	The mesopontine rostromedial tegmental nucleus: A structure targeted by the lateral habenula that projects to the ventral tegmental area of Tsai and substantia nigra compacta. <i>Journal of Comparative Neurology</i> , 2009 , 513, 566-96	3.4	346
101	Two transpallidal pathways originating in the rat nucleus accumbens. <i>Journal of Comparative Neurology</i> , 1990 , 302, 437-46	3.4	330
100	Afferents of the ventral tegmental area in the rat-anatomical substratum for integrative functions. <i>Journal of Comparative Neurology</i> , 2005 , 490, 270-94	3.4	304
99	The accumbens: beyond the core-shell dichotomy. <i>Journal of Neuropsychiatry and Clinical Neurosciences</i> , 1997 , 9, 354-81	2.7	302
98	Functional-anatomical implications of the nucleus accumbens core and shell subterritories. <i>Annals of the New York Academy of Sciences</i> , 1999 , 877, 113-28	6.5	271
97	The ventral striatopallidal parts of the basal ganglia in the rat--II. Compartmentation of ventral pallidal efferents. <i>Neuroscience</i> , 1989 , 30, 33-50	3.9	211
96	Insulin gene expression and insulin synthesis in mammalian neuronal cells. <i>Journal of Biological Chemistry</i> , 1994 , 269, 8445-54	5.4	201
95	Ventral striatopallidal parts of the basal ganglia in the rat: I. Neurochemical compartmentation as reflected by the distributions of neurotensin and substance P immunoreactivity. <i>Journal of Comparative Neurology</i> , 1988 , 272, 516-35	3.4	190
94	Evidence for the coexistence of glutamate decarboxylase and Met-enkephalin immunoreactivities in axon terminals of rat ventral pallidum. <i>Brain Research</i> , 1985 , 325, 317-21	3.7	184
93	Morphological differences between projection neurons of the core and shell in the nucleus accumbens of the rat. <i>Neuroscience</i> , 1992 , 50, 149-62	3.9	174
92	Altered dendritic spine plasticity in cocaine-withdrawn rats. <i>Journal of Neuroscience</i> , 2009 , 29, 2876-84	6.6	172

91	Specificity in the projections of prefrontal and insular cortex to ventral striatopallidum and the extended amygdala. <i>Journal of Neuroscience</i> , 2005 , 25, 11757-67	6.6	166
90	Neurotoxicity of MAO metabolites of catecholamine neurotransmitters: role in neurodegenerative diseases. <i>NeuroToxicology</i> , 2004 , 25, 101-15	4.4	152
89	3,4-Dihydroxyphenylacetaldehyde is the toxic dopamine metabolite in vivo: implications for Parkinson's disease pathogenesis. <i>Brain Research</i> , 2003 , 989, 205-13	3.7	147
88	An update on the connections of the ventral mesencephalic dopaminergic complex. <i>Neuroscience</i> , 2014 , 282, 23-48	3.9	125
87	The evolving theory of basal forebrain functional-anatomical systems. <i>Neuroscience and Biobehavioral Reviews</i> , 2006 , 30, 148-72	9	123
86	Separate prefrontal-subcortical circuits mediate different components of risk-based decision making. <i>Journal of Neuroscience</i> , 2012 , 32, 2886-99	6.6	120
85	Compartments in rat dorsal and ventral striatum revealed following injection of 6-hydroxydopamine into the ventral mesencephalon. <i>Brain Research</i> , 1991 , 552, 164-9	3.7	115
84	Ventral striatopallidothalamic projection: IV. Relative involvements of neurochemically distinct subterritories in the ventral pallidum and adjacent parts of the rostroventral forebrain. <i>Journal of Comparative Neurology</i> , 1996 , 364, 340-62	3.4	112
83	An electron microscopic morphometric comparison of tyrosine hydroxylase immunoreactive innervation in the neostriatum and the nucleus accumbens core and shell. <i>Brain Research</i> , 1992 , 575, 341-6	3.7	110
82	The ventral striatopallidothalamic projection: I. The striatopallidal link originating in the striatal parts of the olfactory tubercle. <i>Journal of Comparative Neurology</i> , 1987 , 255, 571-91	3.4	100
81	Developmental regulation of the distribution of rat brain insulin-insensitive (Glut 1) glucose transporter. <i>Endocrinology</i> , 1991 , 129, 1530-40	4.8	98
80	The ventral striatopallidothalamic projection: II. The ventral pallidothalamic link. <i>Journal of Comparative Neurology</i> , 1987 , 255, 592-605	3.4	98
79	Direct comparison of projections from the central amygdaloid region and nucleus accumbens shell. <i>European Journal of Neuroscience</i> , 1999 , 11, 1119-26	3.5	92
78	Effects of dopamine depletion on the morphology of medium spiny neurons in the shell and core of the rat nucleus accumbens. <i>Journal of Neuroscience</i> , 1995 , 15, 3808-20	6.6	90
77	Immunocytochemical characterization of catecholaminergic neurons in the rat striatum following dopamine-depleting lesions. <i>European Journal of Neuroscience</i> , 1999 , 11, 3585-96	3.5	74
76	Prominent activation of brainstem and pallidal afferents of the ventral tegmental area by cocaine. <i>Neuropsychopharmacology</i> , 2008 , 33, 2688-700	8.7	66
75	Sources of input to the rostromedial tegmental nucleus, ventral tegmental area, and lateral habenula compared: A study in rat. <i>Journal of Comparative Neurology</i> , 2015 , 523, 2426-56	3.4	61
74	Numbers of neurotensin-immunoreactive neurons selectively increased in rat ventral striatum following acute haloperidol administration. <i>Neuropeptides</i> , 1988 , 11, 125-32	3.3	60

73	Fos after single and repeated self-administration of cocaine and saline in the rat: emphasis on the Basal forebrain and recalibration of expression. <i>Neuropsychopharmacology</i> , 2010 , 35, 445-63	8.7	59
72	Neurotensin afferents of the ventral tegmental area in the rat: [1] re-examination of their origins and [2] responses to acute psychostimulant and antipsychotic drug administration. <i>European Journal of Neuroscience</i> , 2006 , 24, 116-34	3.5	58
71	The mediodorsal nucleus of the thalamus in rats--I. forebrain gabaergic innervation. <i>Neuroscience</i> , 1996 , 70, 93-102	3.9	58
70	On lateral septum-like characteristics of outputs from the accumbal hedonic "hotspot" of Pecić and Berridge with commentary on the transitional nature of basal forebrain "boundaries". <i>Journal of Comparative Neurology</i> , 2013 , 521, 50-68	3.4	57
69	Neurons of origin of the neurotensinergic plexus enmeshing the ventral tegmental area in rat: retrograde labeling and in situ hybridization combined. <i>Neuroscience</i> , 2001 , 104, 841-51	3.9	56
68	Activation of afferents to the ventral tegmental area in response to acute amphetamine: a double-labelling study. <i>European Journal of Neuroscience</i> , 2007 , 26, 1011-25	3.5	55
67	Brain neurotensin, psychostimulants, and stress--emphasis on neuroanatomical substrates. <i>Peptides</i> , 2006 , 27, 2364-84	3.8	51
66	The ventral striatopallidothalamic projection. III. Striatal cells of the olfactory tubercle establish direct synaptic contact with ventral pallidal cells projecting to mediodorsal thalamus. <i>Brain Research</i> , 1987 , 404, 327-31	3.7	49
65	Is the caudomedial shell of the nucleus accumbens part of the extended amygdala? A consideration of connections. <i>Critical Reviews in Neurobiology</i> , 1998 , 12, 245-65		49
64	Inputs to the midbrain dopaminergic complex in the rat, with emphasis on extended amygdala-recipient sectors. <i>Journal of Comparative Neurology</i> , 2011 , 519, 3159-88	3.4	48
63	Neurotensin-immunoreactive neurons in the ventral striatum of the adult rat: ventromedial caudate-putamen, nucleus accumbens and olfactory tubercle. <i>Neuroscience Letters</i> , 1987 , 81, 41-7	3.3	47
62	Review of the cytology and connections of the lateral habenula, an avatar of adaptive behaving. <i>Pharmacology Biochemistry and Behavior</i> , 2017 , 162, 3-21	3.9	46
61	The mesopontine rostromedial tegmental nucleus: an integrative modulator of the reward system. <i>Basal Ganglia</i> , 2011 , 1, 191-200		45
60	The current status of neurotensin-dopamine interactions. Issues and speculations. <i>Annals of the New York Academy of Sciences</i> , 1992 , 668, 232-52	6.5	43
59	Mesopontine rostromedial tegmental nucleus neurons projecting to the dorsal raphe and pedunclopontine tegmental nucleus: psychostimulant-elicited Fos expression and collateralization. <i>Brain Structure and Function</i> , 2012 , 217, 719-34	4	42
58	Subsets of neurotensin-immunoreactive neurons revealed following antagonism of the dopamine-mediated suppression of neurotensin immunoreactivity in the rat striatum. <i>Neuroscience</i> , 1992 , 46, 335-50	3.9	42
57	Asymmetrical distribution of neurotensin immunoreactivity following unilateral injection of 6-hydroxydopamine in rat ventral tegmental area (VTA). <i>Brain Research</i> , 1989 , 483, 301-11	3.7	42
56	The innervation of the primate fungiform papilla--development, distribution and changes following selective ablation. <i>Brain Research Reviews</i> , 1985 , 356, 147-86		41

55	The mediodorsal nucleus of the thalamus in rats--II. Behavioral and neurochemical effects of GABA agonists. <i>Neuroscience</i> , 1996 , 70, 103-12	3.9	38
54	Lipopolysaccharide and cyclic AMP regulation of CB(2) cannabinoid receptor levels in rat brain and mouse RAW 264.7 macrophages. <i>Journal of Neuroimmunology</i> , 2006 , 181, 82-92	3.5	37
53	Fetal development of primate chemosensory corpuscles. I. Synaptic relationships in late gestation. <i>Journal of Comparative Neurology</i> , 1983 , 213, 146-62	3.4	37
52	Ventral mesopontine projections of the caudomedial shell of the nucleus accumbens and extended amygdala in the rat: Double dissociation by organization and development. <i>Journal of Comparative Neurology</i> , 2001 , 436, 111-125	3.4	33
51	Distinct and interactive effects of d-amphetamine and haloperidol on levels of neurotensin and its mRNA in subterritories in the dorsal and ventral striatum of the rat. <i>Journal of Comparative Neurology</i> , 1998 , 400, 487-503	3.4	32
50	Structure-function relationships in rat brainstem subnucleus interparialis. X. Mechanisms underlying enlarged spared whisker projections after infraorbital nerve injury at birth. <i>Journal of Neuroscience</i> , 1993 , 13, 2946-64	6.6	31
49	Fetal development of primate chemosensory corpuscles. II. Synaptic relationships in early gestation. <i>Journal of Comparative Neurology</i> , 1983 , 219, 36-50	3.4	31
48	The caudal sublenticular region/anterior amygdaloid area is the only part of the rat forebrain and mesopontine tegmentum occupied by magnocellular cholinergic neurons that receives outputs from the central division of extended amygdala. <i>Brain Research</i> , 2002 , 957, 207-22	3.7	30
47	Discrimination of striatopallidum and extended amygdala in the rat: a role for parvalbumin immunoreactive neurons?. <i>Brain Research</i> , 2003 , 978, 141-54	3.7	30
46	The basal forebrain projection to the region of the nuclei gemini in the rat; a combined light and electron microscopic study employing horseradish peroxidase, fluorescent tracers and Phaseolus vulgaris-leucoagglutinin. <i>Neuroscience</i> , 1990 , 34, 707-31	3.9	29
45	Neurotensin antagonist acutely and robustly attenuates locomotion that accompanies stimulation of a neurotensin-containing pathway from rostromedial forebrain to the ventral tegmental area. <i>European Journal of Neuroscience</i> , 2006 , 24, 188-96	3.5	25
44	Differential effects of gestational buprenorphine, naloxone, and methadone on mesolimbic mu opioid and OPR1 receptor G protein coupling. <i>Developmental Brain Research</i> , 2004 , 151, 149-57		25
43	Catecholamine monoamine oxidase a metabolite in adrenergic neurons is cytotoxic in vivo. <i>Brain Research</i> , 2001 , 891, 218-27	3.7	25
42	Morphology and Fos immunoreactivity reveal two subpopulations of striatal neurotensin neurons following acute 6-hydroxydopamine lesions and reserpine administration. <i>Neuroscience</i> , 1995 , 65, 71-86	3.9	25
41	Postnatal development of striatal neurotensin immunoreactivity in relation to clusters of substance P immunoreactive neurons and the "dopamine islands" in the rat. <i>Journal of Comparative Neurology</i> , 1990 , 296, 403-14	3.4	25
40	Synaptic contacts of ventral striatal cells in the olfactory tubercle of the rat: correlated light and electron microscopy of anterogradely transported Phaseolus vulgaris-leucoagglutinin. <i>Neuroscience Letters</i> , 1985 , 60, 169-75	3.3	25
39	BDNF heterozygous mice demonstrate age-related changes in striatal and nigral gene expression. <i>Experimental Neurology</i> , 2006 , 199, 362-72	5.7	24
38	Differential distribution of parvalbumin immunoreactive neurons in the striatum of cocaine sensitized rats. <i>Neuroscience</i> , 2004 , 127, 35-42	3.9	24

37	Decreased choline acetyltransferase immunoreactivity in discrete striatal subregions following chronic haloperidol in rats. <i>Synapse</i> , 2001 , 39, 51-7	2.4	24
36	Morphometric analysis of ventral mesencephalic neurons retrogradely labeled with Fluoro-Gold following injections in the shell, core and rostral pole of the rat nucleus accumbens. <i>Brain Research</i> , 1995 , 689, 151-6	3.7	24
35	Morphologically distinct subpopulations of neurotensin-immunoreactive striatal neurons observed in rat following dopamine depletions and D2 receptor blockade project to the globus pallidus. <i>Neuroscience</i> , 1996 , 74, 805-12	3.9	24
34	Protracted maturation of forebrain afferent connections of the ventral tegmental area in the rat. <i>Journal of Comparative Neurology</i> , 2014 , 522, 1031-47	3.4	23
33	The dopaminergic projection system, basal forebrain macrosystems, and conditioned stimuli. <i>CNS Spectrums</i> , 2008 , 13, 32-40	1.8	23
32	Comparison of the locomotor-activating effects of bicuculline infusions into the preoptic area and ventral pallidum. <i>Brain Structure and Function</i> , 2014 , 219, 511-26	4	21
31	Calbindin-D 28kD immunofluorescence in ventral mesencephalic neurons labeled following injections of Fluoro-Gold in nucleus accumbens subterritories: inverse relationship relative to known neurotoxin vulnerabilities. <i>Brain Research</i> , 1999 , 844, 67-77	3.7	20
30	Modulation of locomotor activation by the rostromedial tegmental nucleus. <i>Neuropsychopharmacology</i> , 2015 , 40, 676-87	8.7	19
29	Basal Forebrain Organization: An Anatomical Framework for Motor Aspects of Drive and Motivation 2019 , 1-44		16
28	Lateral preoptic and ventral pallidal roles in locomotion and other movements. <i>Brain Structure and Function</i> , 2018 , 223, 2907-2924	4	15
27	Subsets of neurotensin-immunoreactive neurons in the rat striatal complex following antagonism of the dopamine D2 receptor: an immunohistochemical double-labeling study using antibodies against Fos. <i>Neuroscience</i> , 1993 , 57, 649-60	3.9	15
26	Patterns of glucose use after bicuculline-induced convulsions in relationship to gamma-aminobutyric acid and mu-opioid receptors in the ventral pallidum--functional markers for the ventral pallidum. <i>Brain Research</i> , 1992 , 581, 39-45	3.7	15
25	Organization of the proximal, orbital segment of the infraorbital nerve at multiple intervals after axotomy at birth: a quantitative electron microscopic study in rat. <i>Journal of Comparative Neurology</i> , 1993 , 338, 159-74	3.4	15
24	On the retention of neurotensin in the ventral tegmental area (VTA) despite destruction of the main neurotensinergic afferents of the VTA--implications for the organization of forebrain projections to the VTA. <i>Brain Research</i> , 2006 , 1087, 87-104	3.7	14
23	On the altered expression of tyrosine hydroxylase and calbindin-D 28kD immunoreactivities and viability of neurons in the ventral tegmental area of Tsai following injections of 6-hydroxydopamine in the medial forebrain bundle in the rat. <i>Brain Research</i> , 2000 , 869, 56-68	3.7	14
22	Abundant collateralization of temporal lobe projections to the accumbens, bed nucleus of stria terminalis, central amygdala and lateral septum. <i>Brain Structure and Function</i> , 2017 , 222, 1971-1988	4	13
21	gamma-Aminobutyric acid and mu-opioid receptor localization and adaptation in the basal forebrain. <i>Advances in Experimental Medicine and Biology</i> , 1991 , 295, 101-17	3.6	13
20	Oxytocin projections to the nucleus of the solitary tract contribute to the increased meal-related satiety responses in primary adrenal insufficiency. <i>Experimental Physiology</i> , 2013 , 98, 1495-504	2.4	12

19	Altered Fos-like immunoreactivity in terminal regions of the mesotelencephalic dopamine system is associated with reappearance of tyrosine hydroxylase immunoreactivity at the sites of focal 6-hydroxydopamine lesions in the nucleus accumbens. <i>Brain Research</i> , 1996 , 736, 270-9	3.7	12
18	Immunocytochemical co-localization of substance P and calcitonin gene-related peptide in afferent renal nerve soma of the rat. <i>Neuroscience Letters</i> , 1994 , 173, 87-93	3.3	12
17	Synaptologic and fine structural features distinguishing a subset of basal forebrain cholinergic neurons embedded in the dense intrinsic fiber network of the caudal extended amygdala. <i>Journal of Comparative Neurology</i> , 2006 , 498, 93-111	3.4	11
16	Intrathecal capsaicin enhances one-kidney renal wrap hypertension in the rat. <i>Journal of the Autonomic Nervous System</i> , 1994 , 50, 189-99		11
15	Ventral mesopontine projections of the caudomedial shell of the nucleus accumbens and extended amygdala in the rat: double dissociation by organization and development. <i>Journal of Comparative Neurology</i> , 2001 , 436, 111-25	3.4	11
14	The Lateral Preoptic Area: A Novel Regulator of Reward Seeking and Neuronal Activity in the Ventral Tegmental Area. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1433	5.1	10
13	Cholecystokinin concentrations and peptide immunoreactivity in the intact and deafferented medullary dorsal horn of the rat. <i>Journal of Comparative Neurology</i> , 1992 , 326, 22-43	3.4	10
12	Evidence for a morphologically distinct subpopulation of striatipetal axons following injections of WGA-HRP into the ventral tegmental area in the rat. <i>Brain Research</i> , 1989 , 482, 145-54	3.7	9
11	Gap junctions between sensory and supporting cells of the utricular and saccular maculae in <i>Anolis carolinensis</i> examined by transmission electron microscopy. <i>American Journal of Anatomy</i> , 1980 , 158, 263-73		8
10	The lateral preoptic area and ventral pallidum embolden behavior. <i>Brain Structure and Function</i> , 2019 , 224, 1245-1265	4	7
9	Temporal dissociation of neurotensin/neuromedin N mRNA expression in topographically separate subsets of rat striatal neurons following administration of haloperidol. <i>Molecular Brain Research</i> , 1996 , 42, 71-8		7
8	Dissociable effects of dopamine D1 and D2 receptors on compulsive ingestion and pivoting movements elicited by disinhibiting the ventral pallidum. <i>Brain Structure and Function</i> , 2019 , 224, 1925-1932	4.32	5
7	Desensitization and enhancement of neurotensin/neuromedin N mRNA responses in subsets of rat caudate-putamen neurons following multiple administrations of haloperidol. <i>Molecular Brain Research</i> , 1998 , 59, 196-204		4
6	Catecholamine-Derived Aldehyde Neurotoxins 2000 , 167-180		4
5	Increased opioid receptor binding and G protein coupling in the accumbens and ventral tegmental area of postnatal day 2 rats. <i>Neuroscience Letters</i> , 2006 , 395, 244-8	3.3	3
4	Pharmacotherapeutic approach to the treatment of addiction: persistent challenges. <i>Missouri Medicine</i> , 2010 , 107, 276-80	0.8	3
3	Reduction of miniature end-plate potential amplitude in extraocular and limb muscles in an animal model of myasthenia gravis. <i>Experimental Neurology</i> , 1983 , 80, 258-62	5.7	2
2	Vulnerabilities of ventral mesencephalic neurons projecting to the nucleus accumbens following infusions of 6-hydroxydopamine into the medial forebrain bundle in the rat. <i>Brain Research</i> , 2004 , 997, 119-27	3.7	1

1 The novel giant striatal neurons are not cholinergic. *Molecular Psychiatry*, **2022**, 27, 1857-1857

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