Jill B Becker

List of Publications by Year
in descending order

138 papers	18,305 citations	15504 65 h-index	13771 129 g-index
144 all docs	144 docs citations	144 times ranked	9955 citing authors

#	Article	IF	Citations
1	Sex-specific and generational effects of alcohol and tobacco use on epigenetic age acceleration in the Michigan longitudinal study. , 2022, 4, 100077.		5
2	Activation of G-protein coupled estradiol receptor 1 in the dorsolateral striatum attenuates preference for cocaine and saccharin in male but not female rats. Hormones and Behavior, 2021, 130, 104949.	2.1	16
3	Sex differences in vulnerability to addiction. Neuropharmacology, 2021, 187, 108491.	4.1	64
4	Activation of G protein-coupled estradiol receptor 1 in the dorsolateral striatum enhances motivation for cocaine and drug-induced reinstatement in female but not male rats. Biology of Sex Differences, 2021, 12, 46.	4.1	7
5	Women, opioid use and addiction. FASEB Journal, 2021, 35, e21303.	0.5	29
6	The rodent vaginal microbiome across the estrous cycle and the effect of genital nerve electrical stimulation. PLoS ONE, 2020, 15, e0230170.	2.5	12
7	High density carbon fiber arrays for chronic electrophysiology, fast scan cyclic voltammetry, and correlative anatomy. Journal of Neural Engineering, 2020, 17, 056029.	3.5	32
8	Sex differences in neural mechanisms mediating reward and addiction. Neuropsychopharmacology, 2019, 44, 166-183.	5.4	299
9	Single prolonged stress decreases sign-tracking and cue-induced reinstatement of cocaine-seeking. Behavioural Brain Research, 2019, 359, 799-806.	2.2	12
10	Analysis of sex differences in pre-clinical and clinical data sets. Neuropsychopharmacology, 2019, 44, 2155-2158.	5.4	61
11	The federal plan for health science and technologyâ€™s response to the opioid crisis: understanding sex and gender differences as part of the solution is overlooked. Biology of Sex Differences, 2019, 10, 3.	4.1	21
12	Estradiol-Induced Potentiation of Dopamine Release in Dorsal Striatum Following Amphetamine Administration Requires Estradiol Receptors and mGlu5. ENeuro, 2019, 6, ENEURO.0446-18.2019.	1.9	40
13	Ovarian Hormones Mediate Changes in Adaptive Choice and Motivation in Female Rats. Frontiers in Behavioral Neuroscience, 2019, 13, 250.	2.0	16
14	Oestradiol influences on dopamine release from the nucleus accumbens shell: sex differences and the role of selective oestradiol receptor subtypes. British Journal of Pharmacology, 2019, 176, 4136-4148.	5.4	42
15	Sex differences in prenatal stress effects on cocaine pursuit in rats. Physiology and Behavior, 2019, 203, 3-9.	2.1	8
16	Effect of social housing and oxytocin on the motivation to self-administer methamphetamine in female rats. Physiology and Behavior, 2019, 203, 10-17.	2.1	18
17	Rapid effects of ovarian hormones in dorsal striatum and nucleus accumbens. Hormones and Behavior, 2018, 104, 119-129.	2.1	123
18	Sex differences in motivated behaviors in animal models. Current Opinion in Behavioral Sciences, 2018, 23, 98-102.	3.9	13

#	Article	IF	Citations
19	Considering sex as a biological variable in preclinical research. FASEB Journal, 2017, 31, 29-34.	0.5	285
20	Sex differences, gender and addiction. Journal of Neuroscience Research, 2017, 95, 136-147.	2.9	381
21	Worlds Colliding: Trans-disciplinary approaches to gender and addictions. social history of alcohol and drugs, The, 2017, 31, 107-125.	0.2	1
22	Gender differences in the transmission of risk for antisocial behavior problems across generations. PLoS ONE, 2017, 12, e0177288.	2.5	4
23	Sex Differences and Addiction. , 2016, , 129-147.		6
24	Sociocultural context for sex differences in addiction. Addiction Biology, 2016, 21, 1052-1059.	2.6	83
25	Why we should consider sex (and study sex differences) in addiction research. Addiction Biology, 2016, 21, 995-1006.	2.6	70
26	Female rats are not more variable than male rats: a meta-analysis of neuroscience studies. Biology of Sex Differences, 2016, 7, 34.	4.1	308
27	Sex Differences in Animal Models: Focus on Addiction. Pharmacological Reviews, 2016, 68, 242-263.	16.0	557
28	Sex differences in addiction. Dialogues in Clinical Neuroscience, 2016, 18, 395-402.	3.7	218
29	The Roles of Dopamine and Î±1-Adrenergic Receptors in Cocaine Preferences in Female and Male Rats. Neuropsychopharmacology, 2015, 40, 2696-2704.	5.4	45
30	Estradiol, Dopamine and Motivation. Central Nervous System Agents in Medicinal Chemistry, 2015, 14, 83-89.	1.1	114
31	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.	4.1	98
32	Sex differences in the effects of estradiol in the nucleus accumbens and striatum on the response to cocaine: Neurochemistry and behavior. Drug and Alcohol Dependence, 2014, 135, 22-28.	3.2	94
33	Sex Hormones. , 2014, , 1-5.		0
34	Impact of pubertal and adult estradiol treatments on cocaine self-administration. Hormones and Behavior, 2013, 64, 573-578.	2.1	51
35	Pair housing differentially affects motivation to self-administer cocaine in male and female rats. Behavioural Brain Research, 2013, 252, 68-71.	2.2	48
36	Enhanced Striatal Î²1-Adrenergic Receptor Expression Following Hormone Loss in Adulthood Is Programmed by Both Early Sexual Differentiation and Puberty: A Study of Humans and Rats. Endocrinology, 2013, 154, 1820-1831.	2.8	16

#	Article	IF	Citations
37	Male rats that differ in novelty exploration demonstrate distinct patterns of sexual behavior.. Behavioral Neuroscience, 2013, 127, 47-58.	1.2	25
38	Puberty and shifting values (Commentary on Bell <i>etÂal</i>.). European Journal of Neuroscience, 2013, 37, 455-456.	2.6	0
39	The Development of a Preference for Cocaine over Food Identifies Individual Rats with Addiction-Like Behaviors. PLoS ONE, 2013, 8, e79465.	2.5	81
40	Sex differences in the neural mechanisms mediating addiction: a new synthesis and hypothesis. Biology of Sex Differences, 2012, 3, 14.	4.1	249
41	Quantitative assessment of female sexual motivation in the rat: Hormonal control of motivation. Journal of Neuroscience Methods, 2012, 204, 227-233.	2.5	37
42	Leptin Action via Neurotensin Neurons Controls Orexin, the Mesolimbic Dopamine System and Energy Balance. Cell Metabolism, 2011, 14, 313-323.	16.2	292
43	Role of gonadal hormones on mu-opioid-stimulated [35S]GTPÎ³S binding and morphine-mediated antinociception in male and female Spragueâ€“Dawley rats. Psychopharmacology, 2011, 218, 483-492.	3.1	8
44	Effects of a selectively bred novelty-seeking phenotype on the motivation to take cocaine in male and female rats. Biology of Sex Differences, 2011, 2, 3.	4.1	76
45	Sensitization enhances acquisition of cocaine self-administration in female rats: Estradiol further enhances cocaine intake after acquisition. Hormones and Behavior, 2010, 58, 8-12.	2.1	54
46	Viral Vector-Mediated Overexpression of Estrogen Receptor-Î± in Striatum Enhances the Estradiol-Induced Motor Activity in Female Rats and Estradiol-Modulated GABA Release. Journal of Neuroscience, 2009, 29, 1897-1903.	3.6	109
47	Perspective: Sex Matters: Gonadal Steroids and the Brain. Neuropsychopharmacology, 2009, 34, 537-538.	5.4	21
48	Leptin Acts via Leptin Receptor-Expressing Lateral Hypothalamic Neurons to Modulate the Mesolimbic Dopamine System and Suppress Feeding. Cell Metabolism, 2009, 10, 89-98.	16.2	370
49	Sexual differentiation of motivation: A novel mechanism?. Hormones and Behavior, 2009, 55, 646-654.	2.1	113
50	Sex-specific susceptibility to cocaine in rats with a history of prenatal stress. Physiology and Behavior, 2009, 97, 270-277.	2.1	54
51	Sex differences in drug abuse. Frontiers in Neuroendocrinology, 2008, 29, 36-47.	5.2	811
52	The effects of novelty-seeking phenotypes and sex differences on acquisition of cocaine self-administration in selectively bred High-Responder and Low-Responder rats. Pharmacology Biochemistry and Behavior, 2008, 90, 331-338.	2.9	127
53	Acquisition of cocaine self-administration in ovariectomized female rats: Effect of estradiol dose or chronic estradiol administration. Drug and Alcohol Dependence, 2008, 94, 56-62.	3.2	120
54	Oestrogen Effects on Dopaminergic Function in Striatum. Novartis Foundation Symposium, 2008, , 134-151.	1.1	39

#	Article	IF	Citations
55	Stress and Disease: Is Being Female a Predisposing Factor?. Journal of Neuroscience, 2007, 27, 11851-11855.	3.6	137
56	Sex Differences in Motivation. , 2007, , 177-200.		8
57	Interactions among ovarian hormones and time of testing on behavioral sensitization and cocaine self-administration. Behavioural Brain Research, 2007, 184, 174-184.	2.2	38
58	Estradiol attenuates the K+-induced increase in extracellular GABA in rat striatum. Synapse, 2006, 59, 122-124.	1.2	61
59	Sex Differences and Hormonal Influences on Acquisition of Cocaine Self-Administration in Rats. Neuropsychopharmacology, 2006, 31, 129-138.	5.4	277
60	Rapid Effects of Estradiol on Motivated Behaviors. , 2005, , 155-172.		2
61	Strategies and Methods for Research on Sex Differences in Brain and Behavior. Endocrinology, 2005, 146, 1650-1673.	2.8	679
62	Biological Basis of Sex Differences in the Propensity to Self-administer Cocaine. Neuropsychopharmacology, 2004, 29, 81-85.	5.4	264
63	Dynamic increases in dopamine during paced copulation in the female rat. European Journal of Neuroscience, 2003, 18, 1997-2001.	2.6	63
64	Female rats develop conditioned place preferences for sex at their preferred interval. Hormones and Behavior, 2003, 43, 503-507.	2.1	70
65	Effects of Sex and Estrogen on Behavioral Sensitization to Cocaine in Rats. Journal of Neuroscience, 2003, 23, 693-699.	3.6	186
66	The Effect of Estradiol in the Striatum Is Blocked by ICI 182,780 but Not Tamoxifen: Pharmacological and Behavioral Evidence. Neuroendocrinology, 2003, 77, 239-245.	2.5	47
67	Rapid Vapor Deposition of Highly Conformal Silica Nanolaminates. Science, 2002, 298, 402-406.	12.6	217
68	Role of the striatum and nucleus accumbens in paced copulatory behavior in the female rat. Behavioural Brain Research, 2001, 121, 119-128.	2.2	74
69	The Role of Dopamine in the Nucleus Accumbens and Striatum during Sexual Behavior in the Female Rat. Journal of Neuroscience, 2001, 21, 3236-3241.	3.6	182
70	Gender Differences in the Behavioral Responses to Cocaine and Amphetamine. Annals of the New York Academy of Sciences, 2001, 937, 172-187.	3.8	165
71	Malonic Acid and the Chronic Administration Model of Excitotoxicity. , 2000, , 219-231.		2
72	Rapid Effects of Estrogen or Progesterone on the Amphetamine-Induced Increase in Striatal Dopamine Are Enhanced by Estrogen Priming. Pharmacology Biochemistry and Behavior, 1999, 64, 53-57.	2.9	170

#	Article	IF	Citations
73	Gender Differences in Dopaminergic Function in Striatum and Nucleus Accumbens. Pharmacology Biochemistry and Behavior, 1999, 64, 803-812.	2.9	607
74	Behavioral changes associated with grafts of embryonic ventral mesencephalon tissue into the striatum and/or substantia nigra in a rat model of Parkinson's Disease. Behavioural Brain Research, 1999, 104, 179-187.	2.2	11
75	Akinesia and postural abnormality after unilateral dopamine depletion. Behavioural Brain Research, 1999, 104, 189-196.	2.2	26
76	Effects of estrogen agonists on amphetamine-stimulated striatal dopamine release. Synapse, 1998, 29, 379-391.	1.2	88
77	The role of nigrostriatal dopamine in metabotropic glutamate agonist-induced rotation. Neuroscience, 1998, 87, 881-891.	2.3	31
78	Intrastriatal grafts of fetal ventral mesencephalic tissue restore quantitative and qualitative D1/D2 dopamine receptor synergism in the striatum. Restorative Neurology and Neuroscience, 1997, 11, 13-20.	0.7	0
79	Hormonal Activation of the Striatum and the Nucleus Accumbens Modulates Paced Mating Behavior in the Female Rat. Hormones and Behavior, 1997, 32, 114-124.	2.1	71
80	Intranigral Grafts of Fetal Ventral Mesencephalic Tissue in Adult 6-Hydroxydopamine-Lesioned Rats can Induce Behavioral Recovery. Cell Transplantation, 1997, 6, 267-276.	2.5	10
81	Chronic intrastriatal administration of quinolinic acid produces transient nocturnal hypermotility in the rat. Brain Research Bulletin, 1996, 39, 69-73.	3.0	8
82	Estradiol reduces calcium currents in rat neostriatal neurons via a membrane receptor. Journal of Neuroscience, 1996, 16, 595-604.	3.6	600
83	Double Transduction with GTP Cyclohydrolase I and Tyrosine Hydroxylase Is Necessary for Spontaneous Synthesis ofl-DOPA by Primary Fibroblasts. Journal of Neuroscience, 1996, 16, 4449-4456.	3.6	112
84	Sex differences in the effect of amphetamine on immediate early gene expression in the rat dorsal striatum. Brain Research, 1996, 712, 245-257.	2.2	37
85	Synergistic effects of chronic exposure to subthreshold concentrations of quinolinic acid and malonate in the rat striatum. Brain Research, 1996, 718, 228-232.	2.2	12
86	Synergistic effect of intrastriatal co-administration of L-NAME and quinolinic acid. NeuroReport, 1995, 6, 1505-1508.	1.2	28
87	Increased extracellular dopamine in the nucleus accumbens and striatum of the female rat during paced copulatory behavior.. Behavioral Neuroscience, 1995, 109, 354-365.	1.2	195
88	Effects of Nerve Growth Factor Infusion on Behavioral Recovery and Graft Survival Following Intraventricular Adrenal Medulla Grafts in the Unilateral6-Hydroxydopamine Lesioned Rat. Journal of Neural Transplantation & Plasticity, 1994, 5, 163-167.	0.7	5
89	Quantitative microdialysis determination of extracellular striatal dopamine concentration in male and female rats: effects of estrous cycle and gonadectomy. Neuroscience Letters, 1994, 180, 155-158.	2.1	195
90	Sex differences in the rapid and acute effects of estrogen on striatal D2 dopamine receptor binding. Brain Research, 1994, 637, 163-172.	2.2	206

#	Article	IF	Citations
91	Sex differences in striatal dopamine: in vivo microdialysis and behavioral studies. Brain Research, 1993, 610, 127-134.	2.2	230
92	Adrenal medulla grafts in the hemiparkinsonian rat: profile of behavioral recovery predicts restoration of the symmetry between the two striata in measures of pre- and postsynaptic dopamine function. Journal of Neuroscience, 1993, 13, 3864-3877.	3.6	21
93	Are adolescents the victims of raging hormones? Evidence for activational effects of hormones on moods and behavior at adolescence.. Psychological Bulletin, 1992, 111, 62-107.	6.1	475
94	Effects of adrenal medulla grafts on plasma catecholamines and rotational behavior. Experimental Neurology, 1992, 118, 24-34.	4.1	42
95	Changes in blood-brain barrier permeability are associated with behavioral and neurochemical indices of recovery following intraventricular adrenal medulla grafts in an animal model of parkinson's disease. Experimental Neurology, 1991, 114, 184-192.	4.1	49
96	Behavioral effects of fetal substantia nigra tissue grafted into the dopamine-denervated striatum: responses to selective D1 and D2 dopamine receptor agonists. Restorative Neurology and Neuroscience, 1991, 3, 187-195.	0.7	4
97	A novel device for chronic intracranial drug delivery via microdialysis. Journal of Neuroscience Methods, 1991, 40, 1-8.	2.5	17
98	Adrenal medulla graft induced recovery of function in an animal model of Parkinson's disease: Possible mechanisms of action.. Canadian Journal of Psychology, 1990, 44, 293-310.	0.8	12
99	Chapter 57 Mechanisms of action of adrenal medulla grafts: the possible role of peripheral and central dopamine systems. Progress in Brain Research, 1990, 82, 499-507.	1.4	19
100	Transient Hypoxia Alters Striatal Catecholamine Metabolism in Immature Brain: An In Vivo Microdialysis Study. Journal of Neurochemistry, 1990, 54, 605-611.	3.9	50
101	Direct effect of 17?-estradiol on striatum: Sex differences in dopamine release. Synapse, 1990, 5, 157-164.	1.2	351
102	Estrogen rapidly potentiates amphetamine-induced striatal dopamine release and rotational behavior during microdialysis. Neuroscience Letters, 1990, 118, 169-171.	2.1	261
103	Intracerebral adrenal medulla grafts: A review. Experimental Neurology, 1990, 110, 139-166.	4.1	166
104	Sustained behavioral recovery from unilateral nigrostriatal damage produced by the controlled release of dopamine from a silicone polymer pellet placed into the denervated striatum. Brain Research, 1990, 508, 60-64.	2.2	58
105	Estrous cycle-dependent variation in amphetamine-induced behaviors and striatal dopamine release assessed with microdialysis. Behavioural Brain Research, 1989, 35, 117-125.	2.2	190
106	Intraventricular microdialysis: a new method for determining monoamine metabolite concentrations in the cerebrospinal fluid of freely moving rats. Journal of Neuroscience Methods, 1988, 24, 259-269.	2.5	17
107	Adrenal medulla grafts enhance functional activity of the striatal dopamine system following substantia nigra lesions. Brain Research, 1988, 462, 401-406.	2.2	52
108	The long-term effects of repeated amphetamine treatment in vivo on amphetamine, KCl and electrical stimulation evoked striatal dopamine release in vitro. Life Sciences, 1988, 42, 2447-2456.	4.3	116

#	Article	IF	Citations
109	Chapter 68 Neurochemical correlates of behavioral changes following intraventricular adrenal medulla grafts: intraventricular microdialysis in freely moving rats. Progress in Brain Research, 1988, 78, 527-533.	1.4	26
110	Recovery of Function After Tissue Transplantation in the Nigrostriatal Dopamine System. , 1988, , 225-234.		0
111	The effects of footshock stress on regional brain dopamine metabolism and pituitary Î²-endorphin release in rats previously sensitized to amphetamine. Neuropharmacology, 1987, 26, 679-691.	4.1	126
112	The influence of estrous cycle and intrastriatal estradiol on sensorimotor performance in the female rat. Pharmacology Biochemistry and Behavior, 1987, 27, 53-59.	2.9	155
113	Enduring enhancement in amphetamine-stimulated striatal dopamine release in vitro produced by prior exposure to amphetamine or stress in vivo. European Journal of Pharmacology, 1986, 124, 375-376.	3.5	44
114	Enduring changes in brain and behavior produced by chronic amphetamine administration: A review and evaluation of animal models of amphetamine psychosis. Brain Research Reviews, 1986, 11, 157-198.	9.0	1,852
115	The influence of estrogen on nigrostriatal dopamine activity. Behavioural Brain Research, 1986, 19, 27-33.	2.2	162
116	Effects of neonatal forebrain noradrenaline depletion on recovery from brain damage: Performance on a spatial navigation task as a function of age of surgery and postsurgical housing. Behavioral and Neural Biology, 1986, 46, 285-307.	2.2	46
117	Sex differences in the effects of gonadectomy on amphetamine-induced rotational behavior in rats. Behavioral and Neural Biology, 1986, 46, 491-495.	2.2	69
118	Enduring changes in brain and behavior produced by chronic amphetamine administration: A review and evaluation of animal models of amphetamine psychosis. Brain Research, 1986, 396, 157-198.	2.2	1,108
119	Sensitization of rotational behavior produced by a single exposure to cocaine. Pharmacology Biochemistry and Behavior, 1985, 22, 901-903.	2.9	52
120	Sensitization to stress: The enduring effects of prior stress on amphetamine-induced rotational behavior. Life Sciences, 1985, 37, 1039-1042.	4.3	102
121	Enduring enhancement in frontal cortex dopamine utilization in an animal model of amphetamine psychosis. Brain Research, 1985, 343, 374-377.	2.2	61
122	Involvement of nigrostriatal dopamine neurons in the contraversive rotational behavior evoked by electrical stimulation of the lateral hypothalamus. Brain Research, 1985, 327, 143-151.	2.2	11
123	A simple in vitro technique to measure the release of endogenous dopamine and dihydroxyphenylacetic acid from striatal tissue using high performance liquid chromatography with electrochemical detection. Journal of Neuroscience Methods, 1984, 11, 19-28.	2.5	34
124	Sex differences in the effects of early experience on the development of behavioral and brain asymmetries in rats. Physiology and Behavior, 1984, 33, 433-439.	2.1	124
125	Striatal dopamine release stimulated by amphetamine or potassium: influence of ovarian hormones and the light-dark cycle. Brain Research, 1984, 311, 157-160.	2.2	68
126	The rotational behavior model: asymmetry in the effects of unilateral 6-OHDA lesions of the substantia nigra in rats. Brain Research, 1983, 264, 127-131.	2.2	83

#	Article	IF	Citations
127	Cortical noradrenaline depletion eliminates sparing of spatial learning after neonatal frontal cortex damage in the rat. Neuroscience Letters, 1982, 32, 125-130.	2.1	73
128	Long-term facilitation of amphetamine-induced rotational behavior and striatal dopamine release produced by a single exposure to amphetamine: Sex differences. Brain Research, 1982, 253, 231-241.	2.2	264
129	Sex difference and estrous cycle variations in amphetamine-elicited rotational behavior. European Journal of Pharmacology, 1982, 80, 65-72.	3.5	245
130	Behavioral sensitization is accompanied by an enhancement in amphetamine-stimulated dopamine release from striatal tissue in vitro. European Journal of Pharmacology, 1982, 85, 253-254.	3.5	196
131	Sex differences and estrous cycle dependent variation in rotational behavior elicited by electrical stimulation of the mesostriatal dopamine system. Behavioural Brain Research, 1982, 6, 273-287.	2.2	66
132	Sex differences in the amphetamine stimulated release of catecholamines from rat striatal tissue in vitro. Brain Research, 1981, 204, 361-372.	2.2	187
133	Experimental Studies on the Development of Sex Differences in the Release of Dopamine from Striatal Tissue Fragments in vitro. Neuroendocrinology, 1981, 32, 168-173.	2.5	74
134	Gonadectomy attenuates turning behavior produced by electrical stimulation of the nigrostriatal dopamine system in female but not male rats. Neuroscience Letters, 1981, 23, 203-208.	2.1	61
135	Variation in lateralization: Selected samples do not a population make. Behavioral and Brain Sciences, 1981, 4, 34-35.	0.7	3
136	Dynamics of Endogenous Catecholamine Release from Brain Fragments of Male and Female Rats. Neuroendocrinology, 1980, 31, 18-25.	2.5	58
137	Sex differences in amphetamine-elicited rotational behavior and the lateralization of striatal dopamine in rats. Brain Research Bulletin, 1980, 5, 539-545.	3.0	154
138	Comparison of the cycloheximide and food satiation effects on a discrimination task. Pharmacology Biochemistry and Behavior, 1977, 6, 631-635.	2.9	3