

# Heather B Patisaul

## List of Publications by Citations

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110  
papers

5,470  
citations

44  
h-index

72  
g-index

118  
ext. papers

6,247  
ext. citations

4.8  
avg, IF

6.24  
L-index

#	Paper	IF	Citations
110	The pros and cons of phytoestrogens. <i>Frontiers in Neuroendocrinology</i> , <b>2010</b> , 31, 400-19	8.9	456
109	Endocrine disrupters: a review of some sources, effects, and mechanisms of actions on behaviour and neuroendocrine systems. <i>Journal of Neuroendocrinology</i> , <b>2012</b> , 24, 144-59	3.8	273
108	Consensus on the key characteristics of endocrine-disrupting chemicals as a basis for hazard identification. <i>Nature Reviews Endocrinology</i> , <b>2020</b> , 16, 45-57	15.2	224
107	Accumulation and endocrine disrupting effects of the flame retardant mixture Firemaster <sup>®</sup> 550 in rats: an exploratory assessment. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2013</b> , 27, 124-36	3.4	181
106	Neonatal genistein or bisphenol-A exposure alters sexual differentiation of the AVPV. <i>Neurotoxicology and Teratology</i> , <b>2006</b> , 28, 111-8	3.9	163
105	Neonatal bisphenol-a exposure alters rat reproductive development and ovarian morphology without impairing activation of gonadotropin-releasing hormone neurons. <i>Biology of Reproduction</i> , <b>2009</b> , 81, 690-9	3.9	160
104	Long-term effects of environmental endocrine disruptors on reproductive physiology and behavior. <i>Frontiers in Behavioral Neuroscience</i> , <b>2009</b> , 3, 10	3.5	154
103	Reproductive consequences of developmental phytoestrogen exposure. <i>Reproduction</i> , <b>2012</b> , 143, 247-60	3.8	129
102	Regulation of estrogen receptor beta mRNA in the brain: opposite effects of 17beta-estradiol and the phytoestrogen, coumestrol. <i>Molecular Brain Research</i> , <b>1999</b> , 67, 165-71		129
101	Impact of neonatal exposure to the ERalpha agonist PPT, bisphenol-A or phytoestrogens on hypothalamic kisspeptin fiber density in male and female rats. <i>NeuroToxicology</i> , <b>2009</b> , 30, 350-7	4.4	125
100	Disrupted female reproductive physiology following neonatal exposure to phytoestrogens or estrogen specific ligands is associated with decreased GnRH activation and kisspeptin fiber density in the hypothalamus. <i>NeuroToxicology</i> , <b>2008</b> , 29, 988-97	4.4	121
99	Neonatal exposure to endocrine active compounds or an ERbeta agonist increases adult anxiety and aggression in gonadally intact male rats. <i>Hormones and Behavior</i> , <b>2008</b> , 53, 580-8	3.7	118
98	Prenatal bisphenol A exposure alters sex-specific estrogen receptor expression in the neonatal rat hypothalamus and amygdala. <i>Toxicological Sciences</i> , <b>2013</b> , 133, 157-73	4.4	111
97	Endocrine disruption of brain sexual differentiation by developmental PCB exposure. <i>Endocrinology</i> , <b>2011</b> , 152, 581-94	4.8	102
96	Sexually dimorphic expression of hypothalamic estrogen receptors $\alpha$ and $\beta$ and Kiss1 in neonatal male and female rats. <i>Journal of Comparative Neurology</i> , <b>2011</b> , 519, 2954-77	3.4	100
95	Designing Endocrine Disruption Out of the Next Generation of Chemicals. <i>Green Chemistry</i> , <b>2013</b> , 15, 181-198	10	97
94	Genistein affects ER beta- but not ER alpha-dependent gene expression in the hypothalamus. <i>Endocrinology</i> , <b>2002</b> , 143, 2189-97	4.8	94

93	Project TENDR: Targeting Environmental Neuro-Developmental Risks The TENDR Consensus Statement. <i>Environmental Health Perspectives</i> , <b>2016</b> , 124, A118-22	8.4	88
92	Soy isoflavone supplements antagonize reproductive behavior and estrogen receptor alpha- and beta-dependent gene expression in the brain. <i>Endocrinology</i> , <b>2001</b> , 142, 2946-52	4.8	87
91	Anxiogenic effects of developmental bisphenol A exposure are associated with gene expression changes in the juvenile rat amygdala and mitigated by soy. <i>PLoS ONE</i> , <b>2012</b> , 7, e43890	3.7	84
90	Differential disruption of nuclear volume and neuronal phenotype in the preoptic area by neonatal exposure to genistein and bisphenol-A. <i>NeuroToxicology</i> , <b>2007</b> , 28, 1-12	4.4	75
89	Neonatal Bisphenol A exposure alters sexually dimorphic gene expression in the postnatal rat hypothalamus. <i>NeuroToxicology</i> , <b>2012</b> , 33, 23-36	4.4	74
88	Neonatal exposure to genistein adversely impacts the ontogeny of hypothalamic kisspeptin signaling pathways and ovarian development in the peripubertal female rat. <i>Reproductive Toxicology</i> , <b>2011</b> , 31, 280-9	3.4	73
87	In vitro assessment of human nuclear hormone receptor activity and cytotoxicity of the flame retardant mixture FM 550 and its triarylphosphate and brominated components. <i>Toxicology Letters</i> , <b>2014</b> , 228, 93-102	4.4	72
86	Influence of endocrine active compounds on the developing rodent brain. <i>Brain Research Reviews</i> , <b>2008</b> , 57, 352-62		71
85	The impact of neonatal bisphenol-A exposure on sexually dimorphic hypothalamic nuclei in the female rat. <i>NeuroToxicology</i> , <b>2011</b> , 32, 38-49	4.4	64
84	Assessment of sex specific endocrine disrupting effects in the prenatal and pre-pubertal rodent brain. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2016</b> , 160, 148-59	5.1	62
83	Urinary tetrabromobenzoic acid (TBBA) as a biomarker of exposure to the flame retardant mixture Firemaster <sup>®</sup> 550. <i>Environmental Health Perspectives</i> , <b>2014</b> , 122, 963-9	8.4	60
82	A novel model for neuroendocrine toxicology: neurobehavioral effects of BPA exposure in a prosocial species, the prairie vole ( <i>Microtus ochrogaster</i> ). <i>Endocrinology</i> , <b>2014</b> , 155, 3867-81	4.8	60
81	Impact of Low Dose Oral Exposure to Bisphenol A (BPA) on the Neonatal Rat Hypothalamic and Hippocampal Transcriptome: A CLARITY-BPA Consortium Study. <i>Endocrinology</i> , <b>2016</b> , 157, 3856-3872	4.8	58
80	Coumestrol antagonizes neuroendocrine actions of estrogen via the estrogen receptor alpha. <i>Experimental Biology and Medicine</i> , <b>2001</b> , 226, 301-6	3.7	58
79	Investigation of the effects of subchronic low dose oral exposure to bisphenol A (BPA) and ethinyl estradiol (EE) on estrogen receptor expression in the juvenile and adult female rat hypothalamus. <i>Toxicological Sciences</i> , <b>2014</b> , 140, 190-203	4.4	56
78	Sex specific impact of perinatal bisphenol A (BPA) exposure over a range of orally administered doses on rat hypothalamic sexual differentiation. <i>NeuroToxicology</i> , <b>2013</b> , 36, 55-62	4.4	54
77	CLARITY-BPA academic laboratory studies identify consistent low-dose Bisphenol A effects on multiple organ systems. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2019</b> , 125 Suppl 3, 14-31	3.1	52
76	Impact of Low-Dose Oral Exposure to Bisphenol A (BPA) on Juvenile and Adult Rat Exploratory and Anxiety Behavior: A CLARITY-BPA Consortium Study. <i>Toxicological Sciences</i> , <b>2015</b> , 148, 341-54	4.4	51

75	Disrupted organization of RFamide pathways in the hypothalamus is associated with advanced puberty in female rats neonatally exposed to bisphenol A. <i>Biology of Reproduction</i> , <b>2012</b> , 87, 28	3.9	50
74	Phytoestrogen action in the adult and developing brain. <i>Journal of Neuroendocrinology</i> , <b>2005</b> , 17, 57-64	3.8	50
73	Endocrine disruption by dietary phyto-oestrogens: impact on dimorphic sexual systems and behaviours. <i>Proceedings of the Nutrition Society</i> , <b>2017</b> , 76, 130-144	2.9	49
72	A soy supplement and tamoxifen inhibit sexual behavior in female rats. <i>Hormones and Behavior</i> , <b>2004</b> , 45, 270-7	3.7	48
71	Test driving ToxCast: endocrine profiling for 1858 chemicals included in phase II. <i>Current Opinion in Pharmacology</i> , <b>2014</b> , 19, 145-52	5.1	47
70	Sex-specific Esr2 mRNA expression in the rat hypothalamus and amygdala is altered by neonatal bisphenol A exposure. <i>Reproduction</i> , <b>2014</b> , 147, 537-54	3.8	47
69	Neurobehavioral actions of coumestrol and related isoflavonoids in rodents. <i>Neurotoxicology and Teratology</i> , <b>2002</b> , 24, 47-54	3.9	46
68	Cross-Species and Interassay Comparisons of Phytoestrogen Action. <i>Environmental Health Perspectives</i> , <b>2001</b> , 109, 5	8.4	46
67	Impact of gestational bisphenol A on oxidative stress and free fatty acids: Human association and interspecies animal testing studies. <i>Endocrinology</i> , <b>2015</b> , 156, 911-22	4.8	44
66	The NIEHS TaRGET II Consortium and environmental epigenomics. <i>Nature Biotechnology</i> , <b>2018</b> , 36, 225-227	7.5	44
65	Sex Specific Placental Accumulation and Behavioral Effects of Developmental Firemaster 550 Exposure in Wistar Rats. <i>Scientific Reports</i> , <b>2017</b> , 7, 7118	4.9	43
64	Environmental Mechanisms of Neurodevelopmental Toxicity. <i>Current Environmental Health Reports</i> , <b>2018</b> , 5, 145-157	6.5	40
63	Effects of environmental endocrine disruptors and phytoestrogens on the kisspeptin system. <i>Advances in Experimental Medicine and Biology</i> , <b>2013</b> , 784, 455-79	3.6	39
62	Sex-specific expression of estrogen receptors $\alpha$ and $\beta$ and Kiss1 in the postnatal rat amygdala. <i>Journal of Comparative Neurology</i> , <b>2013</b> , 521, 465-78	3.4	39
61	Sex differences in microglial colonization and vulnerabilities to endocrine disruption in the social brain. <i>General and Comparative Endocrinology</i> , <b>2016</b> , 238, 39-46	3	39
60	Prenatal bisphenol A (BPA) exposure alters the transcriptome of the neonate rat amygdala in a sex-specific manner: a CLARITY-BPA consortium study. <i>NeuroToxicology</i> , <b>2018</b> , 65, 207-220	4.4	37
59	Soy Isoflavone Supplements Antagonize Reproductive Behavior and Estrogen Receptor $\alpha$ and $\beta$ Dependent Gene Expression in the Brain		37
58	Simultaneous Voltammetric Measurements of Glucose and Dopamine Demonstrate the Coupling of Glucose Availability with Increased Metabolic Demand in the Rat Striatum. <i>ACS Chemical Neuroscience</i> , <b>2017</b> , 8, 272-280	5.7	32

57	Editorial Highlight: Transplacental and Lactational Transfer of Firemaster 550 Components in Dosed Wistar Rats. <i>Toxicological Sciences</i> , <b>2016</b> , 153, 246-57	4.4	31
56	EDC IMPACT: Molecular effects of developmental FM 550 exposure in Wistar rat placenta and fetal forebrain. <i>Endocrine Connections</i> , <b>2018</b> , 7, 305-324	3.5	30
55	Animal models of endocrine disruption. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 32, 283-297	6.5	28
54	Effects of perinatal bisphenol A exposure on the volume of sexually-dimorphic nuclei of juvenile rats: A CLARITY-BPA consortium study. <i>NeuroToxicology</i> , <b>2017</b> , 63, 33-42	4.4	27
53	Systemic administration of diarylpropionitrile (DPN) or phytoestrogens does not affect anxiety-related behaviors in gonadally intact male rats. <i>Hormones and Behavior</i> , <b>2009</b> , 55, 319-28	3.7	27
52	Dietary soy supplements produce opposite effects on anxiety in intact male and female rats in the elevated plus-maze. <i>Behavioral Neuroscience</i> , <b>2005</b> , 119, 587-94	2.1	27
51	Aryl hydrocarbon receptor activation in lactotropes and gonadotropes interferes with estradiol-dependent and -independent preprolactin, glycoprotein alpha and luteinizing hormone beta gene expression. <i>Molecular and Cellular Endocrinology</i> , <b>2011</b> , 333, 151-9	4.4	26
50	Progesterone and medroxyprogesterone acetate differentially regulate alpha4 subunit expression of GABA(A) receptors in the CA1 hippocampus of female rats. <i>Physiology and Behavior</i> , <b>2009</b> , 97, 58-61	3.5	26
49	Sex differences in serotonergic but not gamma-aminobutyric acidergic (GABA) projections to the rat ventromedial nucleus of the hypothalamus. <i>Endocrinology</i> , <b>2008</b> , 149, 397-408	4.8	25
48	Data integration, analysis, and interpretation of eight academic CLARITY-BPA studies. <i>Reproductive Toxicology</i> , <b>2020</b> , 98, 29-60	3.4	25
47	Endocrine Disruption of Vasopressin Systems and Related Behaviors. <i>Frontiers in Endocrinology</i> , <b>2017</b> , 8, 134	5.7	24
46	On the need for a National (U.S.) research program to elucidate the potential risks to human health and the environment posed by contaminants of emerging concern. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 3829-30	10.3	24
45	Soy but not bisphenol A (BPA) induces hallmarks of polycystic ovary syndrome (PCOS) and related metabolic co-morbidities in rats. <i>Reproductive Toxicology</i> , <b>2014</b> , 49, 209-18	3.4	23
44	Achieving CLARITY on bisphenol A, brain and behaviour. <i>Journal of Neuroendocrinology</i> , <b>2020</b> , 32, e12730,8		23
43	Neurodevelopmental and neurological effects of chemicals associated with unconventional oil and natural gas operations and their potential effects on infants and children. <i>Reviews on Environmental Health</i> , <b>2018</b> , 33, 3-29	3.8	22
42	Soy but not bisphenol A (BPA) or the phytoestrogen genistin alters developmental weight gain and food intake in pregnant rats and their offspring. <i>Reproductive Toxicology</i> , <b>2015</b> , 58, 282-94	3.4	21
41	Immediate and residual effects of tamoxifen and ethynylestradiol in the female rat hypothalamus. <i>Brain Research</i> , <b>2003</b> , 978, 185-93	3.7	21
40	Interaction of bisphenol A (BPA) and soy phytoestrogens on sexually dimorphic sociosexual behaviors in male and female rats. <i>Hormones and Behavior</i> , <b>2016</b> , 84, 121-6	3.7	20

39	Neonatal agonism of ER $\alpha$ impairs male reproductive behavior and attractiveness. <i>Hormones and Behavior</i> , <b>2011</b> , 60, 185-94	3.7	19
38	Perinatal bisphenol A (BPA) exposure alters brain oxytocin receptor (OTR) expression in a sex- and region- specific manner: A CLARITY-BPA consortium follow-up study. <i>NeuroToxicology</i> , <b>2019</b> , 74, 139-148	4.4	18
37	Endocrine disruptors and the developing immune system. <i>Current Opinion in Toxicology</i> , <b>2018</b> , 10, 31-36	4.4	17
36	PBDEs Concentrate in the Fetal Portion of the Placenta: Implications for Thyroid Hormone Dysregulation. <i>Endocrinology</i> , <b>2019</b> , 160, 2748-2758	4.8	16
35	Sex-specific effects of perinatal FireMaster $\square$ 550 (FM 550) exposure on socioemotional behavior in prairie voles. <i>Neurotoxicology and Teratology</i> , <b>2020</b> , 79, 106840	3.9	16
34	Decoding the language of epigenetics during neural development is key for understanding development as well as developmental neurotoxicity. <i>Epigenetics</i> , <b>2013</b> , 8, 1128-32	5.7	15
33	IR-MALDESI mass spectrometry imaging of underivatized neurotransmitters in brain tissue of rats exposed to tetrabromobisphenol A. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 7979-7986	4.4	15
32	Effects of Prenatal Exposure to a Mixture of Organophosphate Flame Retardants on Placental Gene Expression and Serotonergic Innervation in the Fetal Rat Brain. <i>Toxicological Sciences</i> , <b>2020</b> , 176, 203-223	4.4	14
31	Sex-specific behavioral effects following developmental exposure to tetrabromobisphenol A (TBBPA) in Wistar rats. <i>NeuroToxicology</i> , <b>2019</b> , 75, 136-147	4.4	11
30	Nucleus accumbens core medium spiny neuron electrophysiological properties and partner preference behavior in the adult male prairie vole, <i>Microtus ochrogaster</i> . <i>Journal of Neurophysiology</i> , <b>2018</b> , 119, 1576-1588	3.2	11
29	Influence of ER $\beta$ selective agonism during the neonatal period on the sexual differentiation of the rat hypothalamic-pituitary-gonadal (HPG) axis. <i>Biology of Sex Differences</i> , <b>2012</b> , 3, 2	9.3	11
28	The Use and Misuse of Historical Controls in Regulatory Toxicology: Lessons from the CLARITY-BPA Study. <i>Endocrinology</i> , <b>2020</b> , 161,	4.8	11
27	Metabotropic glutamate receptor subtype 5 (mGlu) is necessary for estradiol mitigation of light-induced anxiety behavior in female rats. <i>Physiology and Behavior</i> , <b>2020</b> , 214, 112770	3.5	10
26	Individual Variation in Social Behaviours of Male Lab-reared Prairie voles ( <i>Microtus ochrogaster</i> ) is Non-heritable and Weakly Associated with V1aR Density. <i>Scientific Reports</i> , <b>2018</b> , 8, 1396	4.9	9
25	Temporal and bidirectional influences of estradiol on voluntary wheel running in adult female and male rats. <i>Hormones and Behavior</i> , <b>2020</b> , 120, 104694	3.7	7
24	Novel unconditioned prosocial behavior in prairie voles ( <i>Microtus ochrogaster</i> ) as a model for empathy. <i>BMC Research Notes</i> , <b>2018</b> , 11, 852	2.3	7
23	Neonatal agonism of ER $\alpha$ masculinizes serotonergic (5-HT) projections to the female rat ventromedial nucleus of the hypothalamus (VMN) but does not impair lordosis. <i>Behavioural Brain Research</i> , <b>2009</b> , 196, 317-22	3.4	6
22	Infertility in the Southern White Rhino: is diet the source of the problem?. <i>Endocrinology</i> , <b>2012</b> , 153, 1568-71	3.1	6

21	Endocrine Disruptors, Brain, and Behavior <b>2017</b> ,		5
20	Perinatal exposure to FireMaster <sup>®</sup> 550 (FM550), brominated or organophosphate flame retardants produces sex and compound specific effects on adult Wistar rat socioemotional behavior. <i>Hormones and Behavior</i> , <b>2020</b> , 126, 104853	3-7	5
19	Analysis of neurotransmitters in rat placenta exposed to flame retardants using IR-MALDESI mass spectrometry imaging. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 3745-3752	4-4	5
18	Interactions of the estrous cycle, novelty, and light on female and male rat open field locomotor and anxiety-related behaviors. <i>Physiology and Behavior</i> , <b>2021</b> , 228, 113203	3-5	5
17	Endocrine disrupting chemicals and behavior: Re-evaluating the science at a critical turning point. <i>Hormones and Behavior</i> , <b>2017</b> , 96, A1-A6	3-7	4
16	Beyond Cholinesterase Inhibition: Developmental Neurotoxicity of Organophosphate Ester Flame Retardants and Plasticizers. <i>Environmental Health Perspectives</i> , <b>2021</b> , 129, 105001	8-4	4
15	Developmental Exposure to the Flame Retardant Mixture Firemaster 550 Compromises Adult Bone Integrity in Male but not Female Rats. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6-3	3
14	Dietary Phytoestrogens <b>2004</b> , 135-173		3
13	Assessing Risks from Bisphenol-A. <i>American Scientist</i> , <b>2010</b> , 98, 30	2-7	3
12	REPRODUCTIVE TOXICOLOGY: Endocrine disruption and reproductive disorders: impacts on sexually dimorphic neuroendocrine pathways. <i>Reproduction</i> , <b>2021</b> , 162, F111-F130	3-8	3
11	Sex-specific Disruption of the Prairie Vole Hypothalamus by Developmental Exposure to a Flame Retardant Mixture. <i>Endocrinology</i> , <b>2021</b> , 162,	4-8	3
10	FireMaster <sup>®</sup> 550 (FM 550) exposure during the perinatal period impacts partner preference behavior and nucleus accumbens core medium spiny neuron electrophysiology in adult male and female prairie voles, <i>Microtus ochrogaster</i> . <i>Hormones and Behavior</i> , <b>2021</b> , 134, 105019	3-7	3
9	Combining Micropunch Histology and Multidimensional Lipidomic Measurements for In-Depth Tissue Mapping. <i>ACS Measurement Science Au</i> ,		2
8	Endocrine disrupting chemicals (EDCs) and placental function: Impact on fetal brain development. <i>Advances in Pharmacology</i> , <b>2021</b> , 92, 347-400	5-7	2
7	Endocrine disrupting chemicals (EDCs) and the neuroendocrine system: Beyond estrogen, androgen, and thyroid. <i>Advances in Pharmacology</i> , <b>2021</b> , 92, 101-150	5-7	2
6	Chemical Contributions to Neurodevelopmental Disorders. <i>Policy Insights From the Behavioral and Brain Sciences</i> , <b>2017</b> , 4, 123-130	2-1	1
5	Endocrine Disrupting Chemicals and Behavior <b>2019</b> , 812-820		1
4	Transcriptomic, proteomic, and metabolomic analyses identify candidate pathways linking maternal cadmium exposure to altered neurodevelopment and behavior. <i>Scientific Reports</i> , <b>2021</b> , 11, 16302	4-9	1

- 3 Developmental nicotine exposure and masculinization of the rat preoptic area.. *NeuroToxicology*, **2022**, 89, 41-54 4.4 ○
- 2 Individual and Combined Effects of Paternal Deprivation and Developmental Exposure to Firemaster 550 on Socio-Emotional Behavior in Prairie Voles. *Toxics*, **2022**, 10, 268 4.7 ○
- 1 Experimental Endocrinology and Reproductive Biology. C. Haldar, M. Singaravel, S. R. Pandi-Perumal, and Daniel P. Cardinali, editors.. *Integrative and Comparative Biology*, **2008**, 48, 545-545 2.8