

Frances A Champagne

List of Publications by Citations

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126
papers

19,710
citations

58
h-index

133
g-index

133
ext. papers

21,910
ext. citations

6
avg, IF

7.07
L-index

#	Paper	IF	Citations
126	Epigenetic programming by maternal behavior. <i>Nature Neuroscience</i> , 2004 , 7, 847-54	25.5	4751
125	Variations in maternal care in the rat as a mediating influence for the effects of environment on development. <i>Physiology and Behavior</i> , 2003 , 79, 359-71	3.5	784
124	Reversal of maternal programming of stress responses in adult offspring through methyl supplementation: altering epigenetic marking later in life. <i>Journal of Neuroscience</i> , 2005 , 25, 11045-54	6.6	738
123	Loss of mTOR-dependent macroautophagy causes autistic-like synaptic pruning deficits. <i>Neuron</i> , 2014 , 83, 1131-43	13.9	616
122	Maternal care associated with methylation of the estrogen receptor-alpha1b promoter and estrogen receptor-alpha expression in the medial preoptic area of female offspring. <i>Endocrinology</i> , 2006 , 147, 2909-15	4.8	568
121	Epigenetic mechanisms and the transgenerational effects of maternal care. <i>Frontiers in Neuroendocrinology</i> , 2008 , 29, 386-97	8.9	559
120	Dopamine release in response to a psychological stress in humans and its relationship to early life maternal care: a positron emission tomography study using [¹¹ C]raclopride. <i>Journal of Neuroscience</i> , 2004 , 24, 2825-31	6.6	553
119	Naturally occurring variations in maternal behavior in the rat are associated with differences in estrogen-inducible central oxytocin receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 12736-41	11.5	515
118	Beyond DNA: integrating inclusive inheritance into an extended theory of evolution. <i>Nature Reviews Genetics</i> , 2011 , 12, 475-86	30.1	499
117	Stress during gestation alters postpartum maternal care and the development of the offspring in a rodent model. <i>Biological Psychiatry</i> , 2006 , 59, 1227-35	7.9	383
116	Variations in maternal behaviour are associated with differences in oxytocin receptor levels in the rat. <i>Journal of Neuroendocrinology</i> , 2000 , 12, 1145-8	3.8	358
115	Sex-specific epigenetic disruption and behavioral changes following low-dose in utero bisphenol A exposure. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9956-61	11.5	345
114	Like mother, like daughter: evidence for non-genomic transmission of parental behavior and stress responsivity. <i>Progress in Brain Research</i> , 2001 , 133, 287-302	2.9	345
113	Epigenetic mechanisms mediating the long-term effects of maternal care on development. <i>Neuroscience and Biobehavioral Reviews</i> , 2009 , 33, 593-600	9	343
112	The role of corticotropin-releasing factor--norepinephrine systems in mediating the effects of early experience on the development of behavioral and endocrine responses to stress. <i>Biological Psychiatry</i> , 1999 , 46, 1153-66	7.9	323
111	Linking prenatal maternal adversity to developmental outcomes in infants: the role of epigenetic pathways. <i>Development and Psychopathology</i> , 2012 , 24, 1361-76	4.3	322
110	Epigenetics and the origins of paternal effects. <i>Hormones and Behavior</i> , 2011 , 59, 306-14	3.7	303

109	Variations in nucleus accumbens dopamine associated with individual differences in maternal behavior in the rat. <i>Journal of Neuroscience</i> , 2004 , 24, 4113-23	6.6	294
108	Transgenerational effects of social environment on variations in maternal care and behavioral response to novelty. <i>Behavioral Neuroscience</i> , 2007 , 121, 1353-63	2.1	285
107	Maternal programming of steroid receptor expression and phenotype through DNA methylation in the rat. <i>Frontiers in Neuroendocrinology</i> , 2005 , 26, 139-62	8.9	278
106	DNA methylation of BDNF as a biomarker of early-life adversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 6807-13	11.5	266
105	Epigenetic effects of prenatal stress on 11 β hydroxysteroid dehydrogenase-2 in the placenta and fetal brain. <i>PLoS ONE</i> , 2012 , 7, e39791	3.7	244
104	Epigenetic influences on brain development and plasticity. <i>Current Opinion in Neurobiology</i> , 2009 , 19, 207-12	7.6	241
103	The programming of individual differences in defensive responses and reproductive strategies in the rat through variations in maternal care. <i>Neuroscience and Biobehavioral Reviews</i> , 2005 , 29, 843-65	9	237
102	Natural variations in maternal care are associated with estrogen receptor alpha expression and estrogen sensitivity in the medial preoptic area. <i>Endocrinology</i> , 2003 , 144, 4720-4	4.8	234
101	Maternal care, gene expression, and the development of individual differences in stress reactivity. <i>Annals of the New York Academy of Sciences</i> , 1999 , 896, 66-84	6.5	220
100	Maternal prenatal depressive symptoms predict infant NR3C1 1F and BDNF IV DNA methylation. <i>Epigenetics</i> , 2015 , 10, 408-17	5.7	209
99	Epigenetic influence of social experiences across the lifespan. <i>Developmental Psychobiology</i> , 2010 , 52, 299-311	3	198
98	Epigenetic perspective on the developmental effects of bisphenol A. <i>Brain, Behavior, and Immunity</i> , 2011 , 25, 1084-93	16.6	188
97	Distress During Pregnancy: Epigenetic Regulation of Placenta Glucocorticoid-Related Genes and Fetal Neurobehavior. <i>American Journal of Psychiatry</i> , 2016 , 173, 705-13	11.9	177
96	Early-life experience, epigenetics, and the developing brain. <i>Neuropsychopharmacology</i> , 2015 , 40, 141-53.7	17.2	172
95	How social experiences influence the brain. <i>Current Opinion in Neurobiology</i> , 2005 , 15, 704-9	7.6	154
94	Environmental influence in the brain, human welfare and mental health. <i>Nature Neuroscience</i> , 2015 , 18, 1421-31	25.5	153
93	Influence of maternal care on the developing brain: Mechanisms, temporal dynamics and sensitive periods. <i>Frontiers in Neuroendocrinology</i> , 2016 , 40, 52-66	8.9	146
92	Social influences on neurobiology and behavior: epigenetic effects during development. <i>Psychoneuroendocrinology</i> , 2011 , 36, 352-71	5	146

91	Social enrichment during postnatal development induces transgenerational effects on emotional and reproductive behavior in mice. <i>Frontiers in Behavioral Neuroscience</i> , 2009 , 3, 25	3.5	139
90	Epigenetic programming of phenotypic variations in reproductive strategies in the rat through maternal care. <i>Journal of Neuroendocrinology</i> , 2008 , 20, 795-801	3.8	138
89	Epigenetic mechanisms and gene networks in the nervous system. <i>Journal of Neuroscience</i> , 2005 , 25, 10379-89	6.6	119
88	Sex-specific and strain-dependent effects of early life adversity on behavioral and epigenetic outcomes. <i>Frontiers in Psychiatry</i> , 2013 , 4, 78	5	113
87	Natural variations in postpartum maternal care in inbred and outbred mice. <i>Physiology and Behavior</i> , 2007 , 91, 325-34	3.5	111
86	Developmental timing of the effects of maternal care on gene expression and epigenetic regulation of hormone receptor levels in female rats. <i>Endocrinology</i> , 2013 , 154, 4340-51	4.8	105
85	Paternal social enrichment effects on maternal behavior and offspring growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109 Suppl 2, 17232-8	11.5	99
84	Epigenetic influence of stress and the social environment. <i>ILAR Journal</i> , 2012 , 53, 279-88	1.7	93
83	Paternal influences on offspring development: behavioural and epigenetic pathways. <i>Journal of Neuroendocrinology</i> , 2014 , 26, 697-706	3.8	92
82	Genomic imprinting mediates sexual experience-dependent olfactory learning in male mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 6084-9	11.5	85
81	DNA Methylation Signatures of Early Childhood Malnutrition Associated With Impairments in Attention and Cognition. <i>Biological Psychiatry</i> , 2016 , 80, 765-774	7.9	84
80	Early interactions with mother and peers independently build adult social skills and shape BDNF and oxytocin receptor brain levels. <i>Psychoneuroendocrinology</i> , 2013 , 38, 522-32	5	83
79	Early Adversity and Developmental Outcomes: Interaction Between Genetics, Epigenetics, and Social Experiences Across the Life Span. <i>Perspectives on Psychological Science</i> , 2010 , 5, 564-74	9.8	79
78	Paternal influence on female behavior: the role of Peg3 in exploration, olfaction, and neuroendocrine regulation of maternal behavior of female mice. <i>Behavioral Neuroscience</i> , 2009 , 123, 469-80	2.1	76
77	Effects of maternal care on the development of midbrain dopamine pathways and reward-directed behavior in female offspring. <i>European Journal of Neuroscience</i> , 2014 , 39, 946-956	3.5	73
76	Epigenetic legacy of parental experiences: Dynamic and interactive pathways to inheritance. <i>Development and Psychopathology</i> , 2016 , 28, 1219-1228	4.3	69
75	Variation in maternal and anxiety-like behavior associated with discrete patterns of oxytocin and vasopressin 1a receptor density in the lateral septum. <i>Hormones and Behavior</i> , 2012 , 61, 454-61	3.7	65
74	Hormonal and non-hormonal bases of maternal behavior: The role of experience and epigenetic mechanisms. <i>Hormones and Behavior</i> , 2016 , 77, 204-10	3.7	63

73	The neural mechanisms and consequences of paternal caregiving. <i>Nature Reviews Neuroscience</i> , 2019 , 20, 205-224	13.5	63
72	Maternal prenatal stress phenotypes associate with fetal neurodevelopment and birth outcomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 23996-24005	11.5	62
71	Maternal imprints and the origins of variation. <i>Hormones and Behavior</i> , 2011 , 60, 4-11	3.7	61
70	Developmental effects of serotonin 1A autoreceptors on anxiety and social behavior. <i>Neuropsychopharmacology</i> , 2014 , 39, 291-302	8.7	58
69	Prenatal polycyclic aromatic hydrocarbon, adiposity, peroxisome proliferator-activated receptor (PPAR) β methylation in offspring, grand-offspring mice. <i>PLoS ONE</i> , 2014 , 9, e110706	3.7	58
68	Epigenetic effects of early developmental experiences. <i>Clinics in Perinatology</i> , 2011 , 38, 703-17	2.8	55
67	Transgenerational effects of impaired maternal care on behaviour of offspring and grandoffspring. <i>Animal Behaviour</i> , 2008 , 75, 1551-1561	2.8	54
66	Interplay between social experiences and the genome: epigenetic consequences for behavior. <i>Advances in Genetics</i> , 2012 , 77, 33-57	3.3	53
65	Sex-specific fitness effects of unpredictable early life conditions are associated with DNA methylation in the avian glucocorticoid receptor. <i>Molecular Ecology</i> , 2016 , 25, 1714-28	5.7	52
64	The meaning of weaning: influence of the weaning period on behavioral development in mice. <i>Developmental Neuroscience</i> , 2009 , 31, 318-31	2.2	52
63	Maternal regulation of estrogen receptor alpha methylation. <i>Current Opinion in Pharmacology</i> , 2008 , 8, 735-9	5.1	52
62	Human perception of fear in dogs varies according to experience with dogs. <i>PLoS ONE</i> , 2012 , 7, e51775	3.7	51
61	Sexual experience affects reproductive behavior and preoptic androgen receptors in male mice. <i>Hormones and Behavior</i> , 2012 , 61, 472-8	3.7	47
60	Early environments, glucocorticoid receptors, and behavioral epigenetics. <i>Behavioral Neuroscience</i> , 2013 , 127, 628-36	2.1	46
59	Genes in Context: Gene-Environment Interplay and the Origins of Individual Differences in Behavior. <i>Current Directions in Psychological Science</i> , 2009 , 18, 127-131	6.5	43
58	DRD4 and TH gene polymorphisms are associated with activity, impulsivity and inattention in Siberian Husky dogs. <i>Animal Genetics</i> , 2013 , 44, 717-27	2.5	42
57	Developmental shifts in the behavioral phenotypes of inbred mice: the role of postnatal and juvenile social experiences. <i>Behavior Genetics</i> , 2010 , 40, 220-32	3.2	42
56	Self-esteem and its relationship to sexual offending. <i>Psychology, Crime and Law</i> , 1997 , 3, 161-186	1.4	41

55	The paternally expressed gene Peg3 regulates sexual experience-dependent preferences for estrous odors. <i>Behavioral Neuroscience</i> , 2008 , 122, 963-73	2.1	39
54	Epigenetics and developmental plasticity across species. <i>Developmental Psychobiology</i> , 2013 , 55, 33-41	3	38
53	Maternal Care and Individual Differences in Defensive Responses. <i>Current Directions in Psychological Science</i> , 2005 , 14, 229-233	6.5	38
52	Paternal transmission of complex phenotypes in inbred mice. <i>Biological Psychiatry</i> , 2009 , 66, 1061-6	7.9	37
51	Implications of temporal variation in maternal care for the prediction of neurobiological and behavioral outcomes in offspring. <i>Behavioral Neuroscience</i> , 2013 , 127, 33-46	2.1	34
50	Maternal modulation of paternal effects on offspring development. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018 , 285,	4.4	31
49	The functional serotonin 1a receptor promoter polymorphism, rs6295, is associated with psychiatric illness and differences in transcription. <i>Translational Psychiatry</i> , 2016 , 6, e746	8.6	30
48	A cross-cultural comparison of reports by German Shepherd owners in Hungary and the United States of America. <i>Applied Animal Behaviour Science</i> , 2009 , 121, 206-213	2.2	27
47	Transgenerational Epigenetics 2011 , 391-403		25
46	Food for thought: hormonal, experiential, and neural influences on feeding and obesity. <i>Journal of Neuroscience</i> , 2013 , 33, 17610-6	6.6	23
45	How enrichment affects exploration trade-offs in rats: implications for welfare and well-being. <i>PLoS ONE</i> , 2013 , 8, e83578	3.7	23
44	Evidence for individual differences in regulatory focus in rats, <i>Rattus norvegicus</i> . <i>Journal of Comparative Psychology (Washington, D C: 1983)</i> , 2012 , 126, 347-54	2.1	21
43	Epigenetic and Neurodevelopmental Perspectives on Variation in Parenting Behavior. <i>Parenting</i> , 2012 , 12, 202-211	1.3	21
42	Impact of prenatal polycyclic aromatic hydrocarbon exposure on behavior, cortical gene expression and DNA methylation of the gene. <i>Neuroepigenetics</i> , 2016 , 5, 11-18		18
41	Concordance in hippocampal and fecal Nr3c1 methylation is moderated by maternal behavior in the mouse. <i>Ecology and Evolution</i> , 2012 , 2, 3123-31	2.8	18
40	Effects of stress across generations: why sex matters. <i>Biological Psychiatry</i> , 2013 , 73, 2-4	7.9	18
39	A theoretically based model of rat personality with implications for welfare. <i>PLoS ONE</i> , 2014 , 9, e95135	3.7	17
38	Neonatal overexpression of estrogen receptor- α alters midbrain dopamine neuron development and reverses the effects of low maternal care in female offspring. <i>Developmental Neurobiology</i> , 2015 , 75, 1114-24	3.2	16

37	Variations in maternal behavior in rats selected for infant ultrasonic vocalization in isolation. <i>Hormones and Behavior</i> , 2015 , 75, 78-83	3.7	15
36	Loss of mTOR-Dependent Macroautophagy Causes Autistic-like Synaptic Pruning Deficits. <i>Neuron</i> , 2014 , 83, 1482	13.9	14
35	Postnatal maternal care predicts divergent weaning strategies and the development of social behavior. <i>Developmental Psychobiology</i> , 2015 , 57, 809-17	3	14
34	Plasticity of the Maternal Brain Across the Lifespan. <i>New Directions for Child and Adolescent Development</i> , 2016 , 2016, 9-21	1.3	13
33	Perinatal Malnutrition Leads to Sexually Dimorphic Behavioral Responses with Associated Epigenetic Changes in the Mouse Brain. <i>Scientific Reports</i> , 2017 , 7, 11082	4.9	11
32	Behavioural and physiological plasticity in social hierarchies.. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022 , 377, 20200443	5.8	11
31	Interplay between paternal germline and maternal effects in shaping development: The overlooked importance of behavioural ecology. <i>Functional Ecology</i> , 2020 , 34, 401-413	5.6	10
30	Epigenetic Influence of the Social Environment 2011 , 185-208		9
29	Maternal childhood adversity and inflammation during pregnancy: Interactions with diet quality and depressive symptoms. <i>Brain, Behavior, and Immunity</i> , 2021 , 91, 172-180	16.6	9
28	Nurturing nature: social experiences and the brain. <i>Journal of Neuroendocrinology</i> , 2009 , 21, 867-8	3.8	8
27	Beyond the maternal epigenetic legacy. <i>Nature Neuroscience</i> , 2018 , 21, 773-774	25.5	8
26	Explaining variation in the premorbid adjustment of schizophrenia patients: the role of season of birth and family history. <i>Schizophrenia Research</i> , 2005 , 73, 39-48	3.6	7
25	Social and Behavioral Epigenetics: Evolving Perspectives on Nature-Nurture Interplay, Plasticity, and Inheritance 2018 , 227-250		6
24	Potential frameworks to support evaluation of mechanistic data for developmental neurotoxicity outcomes: A symposium report. <i>Neurotoxicology and Teratology</i> , 2020 , 78, 106865	3.9	5
23	Epigenetic perspectives on development: Evolving insights on the origins of variation. <i>Developmental Psychobiology</i> , 2010 , 52, e1-e3	3	5
22	Measuring Variations in Maternal Behavior: Relevance for Studies of Mood and Anxiety. <i>Neuromethods</i> , 2011 , 209-224	0.4	4
21	Paternal epigenetic inheritance 2019 , 107-133		3
20	Transgenerational Inheritance in Mammals 2013 , 323-338		3

19	Paternal Epigenetic Inheritance 2014 , 221-235		2
18	Maternal Influence on Offspring Reproductive Behavior 2008 , 305-318		2
17	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression. <i>PLoS ONE</i> , 2020 , 15, e0237933	3.7	2
16	Distinct immune and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies.. <i>Brain, Behavior, and Immunity</i> , 2022 , 103, 130-144	16.6	2
15	DNA methylation patterns in T lymphocytes are generally stable in human pregnancies but CD3 methylation is associated with perinatal psychiatric symptoms. <i>Brain, Behavior, & Immunity - Health</i> , 2020 , 3, 100044	5.1	1
14	Elevated prenatal maternal sex hormones, but not placental aromatase, are associated with child neurodevelopment.. <i>Hormones and Behavior</i> , 2022 , 140, 105125	3.7	1
13	Epigenetic programming by maternal behavior		1
12	Added sugar intake during pregnancy: Fetal behavior, birth outcomes, and placental DNA methylation. <i>Developmental Psychobiology</i> , 2021 , 63, 878-889	3	1
11	Transgenerational Epigenetics 2017 , 359-369		0
10	Experience-Regulated Neuronal Signaling in Maternal Behavior.. <i>Frontiers in Molecular Neuroscience</i> , 2022 , 15, 844295	6.1	0
9	Convergent neural correlates of prenatal exposure to air pollution and behavioral phenotypes of risk for internalizing and externalizing problems: Potential biological and cognitive pathways.. <i>Neuroscience and Biobehavioral Reviews</i> , 2022 , 104645	9	0
8	Parental Behavior and the Perinatal Programming of Infant Development 2012 , 619-638		
7	Dynamic Epigenetic Impact of the Environment on the Developing Brain 2020 , 70-93		
6	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression 2020 , 15, e0237933		
5	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression 2020 , 15, e0237933		
4	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression 2020 , 15, e0237933		
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- 1 Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression **2020**, 15, e0237933