Frances A Champagne

List of Publications by Year
in descending order

129	23,518	18436 62	23472 111
papers	citations	h-index	g-index

133	133	133	18711
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epigenetic programming by maternal behavior. Nature Neuroscience, 2004, 7, 847-854.	7.1	5,564
2	Variations in maternal care in the rat as a mediating influence for the effects of environment on development. Physiology and Behavior, 2003, 79, 359-371.	1.0	879
3	Loss of mTOR-Dependent Macroautophagy Causes Autistic-like Synaptic Pruning Deficits. Neuron, 2014, 83, 1131-1143.	3.8	863
4	Reversal of Maternal Programming of Stress Responses in Adult Offspring through Methyl Supplementation: Altering Epigenetic Marking Later in Life. Journal of Neuroscience, 2005, 25, 11045-11054.	1.7	824
5	Epigenetic mechanisms and the transgenerational effects of maternal care. Frontiers in Neuroendocrinology, 2008, 29, 386-397.	2.5	661
6	Maternal Care Associated with Methylation of the Estrogen Receptor-Î±1b Promoter and Estrogen Receptor-Î± Expression in the Medial Preoptic Area of Female Offspring. Endocrinology, 2006, 147, 2909-2915.	1.4	629
7	Dopamine Release in Response to a Psychological Stress in Humans and Its Relationship to Early Life Maternal Care: A Positron Emission Tomography Study Using [11C]Raclopride. Journal of Neuroscience, 2004, 24, 2825-2831.	1.7	622
8	Beyond DNA: integrating inclusive inheritance into an extended theory of evolution. Nature Reviews Genetics, 2011, 12, 475-486.	7.7	613
9	Naturally occurring variations in maternal behavior in the rat are associated with differences in estrogen-inducible central oxytocin receptors. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12736-12741.	3.3	608
10	Stress During Gestation Alters Postpartum Maternal Care and the Development of the Offspring in a Rodent Model. Biological Psychiatry, 2006, 59, 1227-1235.	0.7	435
11	Sex-specific epigenetic disruption and behavioral changes following low-dose in utero bisphenol A exposure. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 9956-9961.	3.3	418
12	Variations in Maternal Behaviour are Associated with Differences in Oxytocin Receptor Levels in the Rat. Journal of Neuroendocrinology, 2001, 12, 1145-1148.	1.2	414
13	Epigenetic mechanisms mediating the long-term effects of maternal care on development. Neuroscience and Biobehavioral Reviews, 2009, 33, 593-600.	2.9	404
14	Chapter 21 Like mother, like daughter: evidence for non-genomic transmission of parental behavior and stress responsivity. Progress in Brain Research, 2001, 133, 287-302.	0.9	401
15	Linking prenatal maternal adversity to developmental outcomes in infants: The role of epigenetic pathways. Development and Psychopathology, 2012, 24, 1361-1376.	1.4	383
16	The role of corticotropin-releasing factorâ€“norepinephrine systems in mediating the effects of early experience on the development of behavioral and endocrine responses to stress. Biological Psychiatry, 1999, 46, 1153-1166.	0.7	352
17	Epigenetics and the origins of paternal effects. Hormones and Behavior, 2011, 59, 306-314.	1.0	348
18	DNA methylation of BDNF as a biomarker of early-life adversity. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 6807-6813.	3.3	334

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19	Variations in Nucleus Accumbens Dopamine Associated with Individual Differences in Maternal Behavior in the Rat. Journal of Neuroscience, 2004, 24, 4113-4123.	1.7	327
20	Transgenerational effects of social environment on variations in maternal care and behavioral response to novelty.. Behavioral Neuroscience, 2007, 121, 1353-1363.	0.6	315
21	Maternal programming of steroid receptor expression and phenotype through DNA methylation in the rat. Frontiers in Neuroendocrinology, 2005, 26, 139-162.	2.5	313
22	Epigenetic Effects of Prenatal Stress on 11Î²-Hydroxysteroid Dehydrogenase-2 in the Placenta and Fetal Brain. PLoS ONE, 2012, 7, e39791.	1.1	296
23	Epigenetic influences on brain development and plasticity. Current Opinion in Neurobiology, 2009, 19, 207-212.	2.0	290
24	Natural Variations in Maternal Care Are Associated with Estrogen Receptor Î± Expression and Estrogen Sensitivity in the Medial Preoptic Area. Endocrinology, 2003, 144, 4720-4724.	1.4	266
25	The programming of individual differences in defensive responses and reproductive strategies in the rat through variations in maternal care. Neuroscience and Biobehavioral Reviews, 2005, 29, 843-865.	2.9	266
26	Maternal Care, Gene Expression, and the Development of Individual Differences in Stress Reactivity. Annals of the New York Academy of Sciences, 1999, 896, 66-84.	1.8	249
27	Maternal prenatal depressive symptoms predict infantNR3C11F andBDNFIV DNA methylation. Epigenetics, 2015, 10, 408-417.	1.3	249
28	Epigenetic influence of social experiences across the lifespan. Developmental Psychobiology, 2010, 52, 299-311.	0.9	239
29	Environmental influence in the brain, human welfare and mental health. Nature Neuroscience, 2015, 18, 1421-1431.	7.1	234
30	Early-Life Experience, Epigenetics, and the Developing Brain. Neuropsychopharmacology, 2015, 40, 141-153.	2.8	232
31	Distress During Pregnancy: Epigenetic Regulation of Placenta Glucocorticoid-Related Genes and Fetal Neurobehavior. American Journal of Psychiatry, 2016, 173, 705-713.	4.0	227
32	Epigenetic perspective on the developmental effects of bisphenol A. Brain, Behavior, and Immunity, 2011, 25, 1084-1093.	2.0	209
33	Influence of maternal care on the developing brain: Mechanisms, temporal dynamics and sensitive periods. Frontiers in Neuroendocrinology, 2016, 40, 52-66.	2.5	198
34	How social experiences influence the brain. Current Opinion in Neurobiology, 2005, 15, 704-709.	2.0	174
35	Social influences on neurobiology and behavior: Epigenetic effects during development. Psychoneuroendocrinology, 2011, 36, 352-371.	1.3	167
36	Social enrichment during postnatal development induces transgenerational effects on emotional and reproductive behavior in mice. Frontiers in Behavioral Neuroscience, 2009, 3, 25.	1.0	157

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37	Epigenetic Programming of Phenotypic Variations in Reproductive Strategies in the Rat Through Maternal Care. Journal of Neuroendocrinology, 2008, 20, 795-801.	1.2	155
38	Sex-Specific and Strain-Dependent Effects of Early Life Adversity on Behavioral and Epigenetic Outcomes. Frontiers in Psychiatry, 2013, 4, 78.	1.3	141
39	Natural variations in postpartum maternal care in inbred and outbred mice. Physiology and Behavior, 2007, 91, 325-334.	1.0	140
40	Maternal prenatal stress phenotypes associate with fetal neurodevelopment and birth outcomes. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23996-24005.	3.3	131
41	Epigenetic Mechanisms and Gene Networks in the Nervous System. Journal of Neuroscience, 2005, 25, 10379-10389.	1.7	128
42	DNA Methylation Signatures of Early Childhood Malnutrition Associated With Impairments in Attention and Cognition. Biological Psychiatry, 2016, 80, 765-774.	0.7	124
43	Developmental Timing of the Effects of Maternal Care on Gene Expression and Epigenetic Regulation of Hormone Receptor Levels in Female Rats. Endocrinology, 2013, 154, 4340-4351.	1.4	122
44	Paternal social enrichment effects on maternal behavior and offspring growth. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 17232-17238.	3.3	121
45	Epigenetic Influence of Stress and the Social Environment. ILAR Journal, 2012, 53, 279-288.	1.8	114
46	Paternal Influences on Offspring Development: Behavioural and Epigenetic Pathways. Journal of Neuroendocrinology, 2014, 26, 697-706.	1.2	112
47	Early interactions with mother and peers independently build adult social skills and shape BDNF and oxytocin receptor brain levels. Psychoneuroendocrinology, 2013, 38, 522-532.	1.3	101
48	Early Adversity and Developmental Outcomes. Perspectives on Psychological Science, 2010, 5, 564-574.	5.2	96
49	Hormonal and non-hormonal bases of maternal behavior: The role of experience and epigenetic mechanisms. Hormones and Behavior, 2016, 77, 204-210.	1.0	94
50	The neural mechanisms and consequences of paternal caregiving. Nature Reviews Neuroscience, 2019, 20, 205-224.	4.9	93
51	Genomic imprinting mediates sexual experience-dependent olfactory learning in male mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6084-6089.	3.3	90
52	Effects of maternal care on the development of midbrain dopamine pathways and rewardâ€directed behavior in female offspring. European Journal of Neuroscience, 2014, 39, 946-956.	1.2	85
53	Paternal influence on female behavior: The role of Peg3 in exploration, olfaction, and neuroendocrine regulation of maternal behavior of female mice.. Behavioral Neuroscience, 2009, 123, 469-480.	0.6	82
54	Variation in maternal and anxiety-like behavior associated with discrete patterns of oxytocin and vasopressin 1a receptor density in the lateral septum. Hormones and Behavior, 2012, 61, 454-461.	1.0	80

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55	Epigenetic legacy of parental experiences: Dynamic and interactive pathways to inheritance. Development and Psychopathology, 2016, 28, 1219-1228.	1.4	77
56	Prenatal Polycyclic Aromatic Hydrocarbon, Adiposity, Peroxisome Proliferator-Activated Receptor (PPAR) Î³ Methylation in Offspring, Grand-Offspring Mice. PLoS ONE, 2014, 9, e110706.	1.1	75
57	Developmental Effects of Serotonin 1A Autoreceptors on Anxiety and Social Behavior. Neuropsychopharmacology, 2014, 39, 291-302.	2.8	72
58	Sexâ€specific fitness effects of unpredictable early life conditions are associated with <scp>DNA</scp> methylation in the avian glucocorticoid receptor. Molecular Ecology, 2016, 25, 1714-1728.	2.0	71
59	Epigenetic Effects of Early Developmental Experiences. Clinics in Perinatology, 2011, 38, 703-717.	0.8	67
60	Maternal imprints and the origins of variation. Hormones and Behavior, 2011, 60, 4-11.	1.0	67
61	The Meaning of Weaning: Influence of the Weaning Period on Behavioral Development in Mice. Developmental Neuroscience, 2009, 31, 318-331.	1.0	65
62	Human Perception of Fear in Dogs Varies According to Experience with Dogs. PLoS ONE, 2012, 7, e51775.	1.1	62
63	Transgenerational effects of impaired maternal care on behaviour of offspring and grandoffspring. Animal Behaviour, 2008, 75, 1551-1561.	0.8	61
64	Maternal regulation of estrogen receptor Î± methylation. Current Opinion in Pharmacology, 2008, 8, 735-739.	1.7	61
65	Genes in Context. Current Directions in Psychological Science, 2009, 18, 127-131.	2.8	61
66	Interplay Between Social Experiences and the Genome: Epigenetic Consequences for Behavior. Advances in Genetics, 2012, 77, 33-57.	0.8	61
67	Early environments, glucocorticoid receptors, and behavioral epigenetics.. Behavioral Neuroscience, 2013, 127, 628-636.	0.6	61
68	Sexual experience affects reproductive behavior and preoptic androgen receptors in male mice. Hormones and Behavior, 2012, 61, 472-478.	1.0	58
69	<scp>DRD</scp>4 and <scp>TH</scp> gene polymorphisms are associated with activity, impulsivity and inattention in Siberian Husky dogs. Animal Genetics, 2013, 44, 717-727.	0.6	54
70	Implications of temporal variation in maternal care for the prediction of neurobiological and behavioral outcomes in offspring.. Behavioral Neuroscience, 2013, 127, 33-46.	0.6	51
71	Epigenetics and developmental plasticity across species. Developmental Psychobiology, 2013, 55, 33-41.	0.9	50
72	Self-esteem and its relationship to sexual offending. Psychology, Crime and Law, 1997, 3, 161-186.	0.8	49

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73	The functional serotonin 1a receptor promoter polymorphism, rs6295, is associated with psychiatric illness and differences in transcription. Translational Psychiatry, 2016, 6, e746-e746.	2.4	49
74	Developmental Shifts in the Behavioral Phenotypes of Inbred Mice: The Role of Postnatal and Juvenile Social Experiences. Behavior Genetics, 2010, 40, 220-232.	1.4	44
75	The paternally expressed gene Peg3 regulates sexual experience-dependent preferences for estrous odors.. Behavioral Neuroscience, 2008, 122, 963-973.	0.6	42
76	Paternal Transmission of Complex Phenotypes in Inbred Mice. Biological Psychiatry, 2009, 66, 1061-1066.	0.7	40
77	Maternal Care and Individual Differences in Defensive Responses. Current Directions in Psychological Science, 2005, 14, 229-233.	2.8	39
78	Maternal modulation of paternal effects on offspring development. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180118.	1.2	37
79	Variations in maternal behavior in rats selected for infant ultrasonic vocalization in isolation. Hormones and Behavior, 2015, 75, 78-83.	1.0	36
80	Behavioural and physiological plasticity in social hierarchies. Philosophical Transactions of the Royal Society B: Biological Sciences, 2022, 377, 20200443.	1.8	35
81	A cross-cultural comparison of reports by German Shepherd owners in Hungary and the United States of America. Applied Animal Behaviour Science, 2009, 121, 206-213.	0.8	34
82	Transgenerational Epigenetics. , 2011, , 391-403.		32
83	Food for Thought: Hormonal, Experiential, and Neural Influences on Feeding and Obesity. Journal of Neuroscience, 2013, 33, 17610-17616.	1.7	32
84	How Enrichment Affects Exploration Trade-Offs in Rats: Implications for Welfare and Well-Being. PLoS ONE, 2013, 8, e83578.	1.1	31
85	Impact of prenatal polycyclic aromatic hydrocarbon exposure on behavior, cortical gene expression, and DNA methylation of the Bdnf gene. Neuroepigenetics, 2016, 5, 11-18.	2.8	29
86	Epigenetic and Neurodevelopmental Perspectives on Variation in Parenting Behavior. Parenting, 2012, 12, 202-211.	1.0	25
87	Evidence for individual differences in regulatory focus in rats, Rattus norvegicus.. Journal of Comparative Psychology (Washington, D C: 1983), 2012, 126, 347-354.	0.3	23
88	Neonatal overexpression of estrogen receptorâ€î± alters midbrain dopamine neuron development and reverses the effects of low maternal care in female offspring. Developmental Neurobiology, 2015, 75, 1114-1124.	1.5	23
89	Plasticity of the Maternal Brain Across the Lifespan. New Directions for Child and Adolescent Development, 2016, 2016, 9-21.	1.3	21
90	Behavioral epigenetics: A new frontier in the study of hormones and behavior. Hormones and Behavior, 2011, 59, 277-278.	1.0	20

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91	A Theoretically Based Model of Rat Personality with Implications for Welfare. PLoS ONE, 2014, 9, e95135.	1.1	20
92	Perinatal Malnutrition Leads to Sexually Dimorphic Behavioral Responses with Associated Epigenetic Changes in the Mouse Brain. Scientific Reports, 2017, 7, 11082.	1.6	20
93	Distinct immune and transcriptomic profiles in dominant versus subordinate males in mouse social hierarchies. Brain, Behavior, and Immunity, 2022, 103, 130-144.	2.0	20
94	Concordance in hippocampal and fecal <scp>Nr3c1</scp> methylation is moderated by maternal behavior in the mouse. Ecology and Evolution, 2012, 2, 3123-3131.	0.8	19
95	Effects of Stress Across Generations: Why Sex Matters. Biological Psychiatry, 2013, 73, 2-4.	0.7	18
96	Postnatal maternal care predicts divergent weaning strategies and the development of social behavior. Developmental Psychobiology, 2015, 57, 809-817.	0.9	18
97	Loss of mTOR-Dependent Macroautophagy Causes Autistic-like Synaptic Pruning Deficits. Neuron, 2014, 83, 1482.	3.8	17
98	Interplay between paternal germline and maternal effects in shaping development: The overlooked importance of behavioural ecology. Functional Ecology, 2020, 34, 401-413.	1.7	16
99	Maternal childhood adversity and inflammation during pregnancy: Interactions with diet quality and depressive symptoms. Brain, Behavior, and Immunity, 2021, 91, 172-180.	2.0	16
100	Nurturing Nature: Social Experiences and the Brain. Journal of Neuroendocrinology, 2009, 21, 867-868.	1.2	13
101	Beyond the maternal epigenetic legacy. Nature Neuroscience, 2018, 21, 773-774.	7.1	13
102	Epigenetic Influence of the Social Environment. , 2011, , 185-208.		11
103	Convergent neural correlates of prenatal exposure to air pollution and behavioral phenotypes of risk for internalizing and externalizing problems: Potential biological and cognitive pathways. Neuroscience and Biobehavioral Reviews, 2022, 137, 104645.	2.9	11
104	Social and Behavioral Epigenetics: Evolving Perspectives on Nature-Nurture Interplay, Plasticity, and Inheritance. , 2018, , 227-250.		9
105	Potential frameworks to support evaluation of mechanistic data for developmental neurotoxicity outcomes: A symposium report. Neurotoxicology and Teratology, 2020, 78, 106865.	1.2	9
106	Measuring Variations in Maternal Behavior: Relevance for Studies of Mood and Anxiety. Neuromethods, 2011, , 209-224.	0.2	9
107	Elevated prenatal maternal sex hormones, but not placental aromatase, are associated with child neurodevelopment. Hormones and Behavior, 2022, 140, 105125.	1.0	9
108	Explaining variation in the premorbid adjustment of schizophrenia patients: the role of season of birth and family history. Schizophrenia Research, 2005, 73, 39-48.	1.1	8

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109	Epigenetic perspectives on development: Evolving insights on the origins of variation. Developmental Psychobiology, 2010, 52, e1.	0.9	7
110	Defining the relationship between maternal care behavior and sensory development in Wistar rats: Auditory periphery development, eye opening and brain gene expression. PLoS ONE, 2020, 15, e0237933.	1.1	6
111	Transgenerational Inheritance in Mammals. , 2013, , 323-338.		4
112	Transgenerational Epigenetics. , 2017, , 359-369.		4
113	Added sugar intake during pregnancy: Fetal behavior, birth outcomes, and placental DNA methylation. Developmental Psychobiology, 2021, 63, 878-889.	0.9	4
114	Paternal Epigenetic Inheritance. , 2014, , 221-235.		3
115	Paternal epigenetic inheritance. , 2019, , 107-133.		3
116	DNA methylation patterns in T lymphocytes are generally stable in human pregnancies but CD3 methylation is associated with perinatal psychiatric symptoms. Brain, Behavior, & Immunity - Health, 2020, 3, 100044.	1.3	3
117	Maternal Influence on Offspring Reproductive Behavior. , 2008, , 305-318.		3
118	"Transgenerational effects of social environment on variations in maternal care and behavioral response to novelty": Correction to Champagne and Meaney (2007).. Behavioral Neuroscience, 2008, 122, 266-266.	0.6	1
119	Epigenetic programming by maternal behavior. , 0, .		1
120	Experience-Regulated Neuronal Signaling in Maternal Behavior. Frontiers in Molecular Neuroscience, 2022, 15, 844295.	1.4	1
121	Parental Behavior and the Perinatal Programming of Infant Development. , 2012, , 619-638.		0
122	Parental Brain Conference 2018. Journal of Neuroendocrinology, 2019, 31, e12789.	1.2	0
123	Dynamic Epigenetic Impact of the Environment on the Developing Brain. , 2020, , 70-93.		0
124	Title is missing!. , 2020, 15, e0237933.		0
125	Title is missing!. , 2020, 15, e0237933.		0
126	Title is missing!. , 2020, 15, e0237933.		0

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127	Title is missing!. , 2020, 15, e0237933.		0
128	Title is missing!. , 2020, 15, e0237933.		0
129	Title is missing!. , 2020, 15, e0237933.		0