

# Sarah J Spencer

## List of Publications by Citations

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101  
papers

3,622  
citations

33  
h-index

57  
g-index

113  
ext. papers

4,245  
ext. citations

6.5  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
101	Obesity and neuroinflammation: a pathway to cognitive impairment. <i>Brain, Behavior, and Immunity</i> , <b>2014</b> , 42, 10-21	16.6	393
100	Postnatal inflammation increases seizure susceptibility in adult rats. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 6904-13	6.6	228
99	Eating behavior and stress: a pathway to obesity. <i>Frontiers in Psychology</i> , <b>2014</b> , 5, 434	3.4	166
98	Ghrelin regulates the hypothalamic-pituitary-adrenal axis and restricts anxiety after acute stress. <i>Biological Psychiatry</i> , <b>2012</b> , 72, 457-65	7.9	159
97	Medial prefrontal cortex control of the paraventricular hypothalamic nucleus response to psychological stress: possible role of the bed nucleus of the stria terminalis. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 481, 363-76	3.4	135
96	High-fat diet and aging interact to produce neuroinflammation and impair hippocampal- and amygdalar-dependent memory. <i>Neurobiology of Aging</i> , <b>2017</b> , 58, 88-101	5.6	99
95	The glucocorticoid contribution to obesity. <i>Stress</i> , <b>2011</b> , 14, 233-46	3	98
94	Early life immune challenge--effects on behavioural indices of adult rat fear and anxiety. <i>Behavioural Brain Research</i> , <b>2005</b> , 164, 231-8	3.4	94
93	Early-life immune challenge: defining a critical window for effects on adult responses to immune challenge. <i>Neuropsychopharmacology</i> , <b>2006</b> , 31, 1910-8	8.7	85
92	Food for thought: how nutrition impacts cognition and emotion. <i>Npj Science of Food</i> , <b>2017</b> , 1, 7	6.3	84
91	Thalamic paraventricular nucleus lesions facilitate central amygdala neuronal responses to acute psychological stress. <i>Brain Research</i> , <b>2004</b> , 997, 234-7	3.7	82
90	Ghrelin's Role in the Hypothalamic-Pituitary-Adrenal Axis Stress Response: Implications for Mood Disorders. <i>Biological Psychiatry</i> , <b>2015</b> , 78, 19-27	7.9	79
89	Early life activation of toll-like receptor 4 reprograms neural anti-inflammatory pathways. <i>Journal of Neuroscience</i> , <b>2010</b> , 30, 7975-83	6.6	67
88	Neonatal immune challenge alters nociception in the adult rat. <i>Pain</i> , <b>2005</b> , 119, 133-141	8	65
87	Microglia: Key players in neurodevelopment and neuronal plasticity. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2018</b> , 94, 56-60	5.6	65
86	Neonatal programming of innate immune function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2011</b> , 300, E11-8	6	63
85	Neonatal overfeeding alters adult anxiety and stress responsiveness. <i>Psychoneuroendocrinology</i> , <b>2009</b> , 34, 1133-43	5	62

84	Neonatal overfeeding alters hypothalamic microglial profiles and central responses to immune challenge long-term. <i>Brain, Behavior, and Immunity</i> , <b>2014</b> , 41, 32-43	16.6	52
83	Postnatal overfeeding leads to obesity and exacerbated febrile responses to lipopolysaccharide throughout life. <i>Journal of Neuroendocrinology</i> , <b>2012</b> , 24, 511-24	3.8	50
82	Peripheral inflammation exacerbates damage after global ischemia independently of temperature and acute brain inflammation. <i>Stroke</i> , <b>2007</b> , 38, 1570-7	6.7	50
81	Perinatal programming of neuroendocrine mechanisms connecting feeding behavior and stress. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 109	5.1	47
80	Early life programming of obesity: the impact of the perinatal environment on the development of obesity and metabolic dysfunction in the offspring. <i>Current Diabetes Reviews</i> , <b>2012</b> , 8, 55-68	2.7	45
79	Perinatal programming by inflammation. <i>Brain, Behavior, and Immunity</i> , <b>2017</b> , 63, 1-7	16.6	41
78	Rat neonatal immune challenge alters adult responses to cerebral ischaemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2006</b> , 26, 456-67	7.3	41
77	Efficacy of post-insult minocycline administration to alter long-term hypoxia-ischemia-induced damage to the serotonergic system in the immature rat brain. <i>Neuroscience</i> , <b>2011</b> , 182, 184-92	3.9	39
76	Diet-induced obesity causes ghrelin resistance in reward processing tasks. <i>Psychoneuroendocrinology</i> , <b>2015</b> , 62, 114-20	5	38
75	Understanding the role of P2X7 in affective disorders-are glial cells the major players?. <i>Frontiers in Cellular Neuroscience</i> , <b>2015</b> , 9, 258	6.1	37
74	Early life overfeeding impairs spatial memory performance by reducing microglial sensitivity to learning. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 112	10.1	37
73	Effects of neonatal overfeeding on juvenile and adult feeding and energy expenditure in the rat. <i>PLoS ONE</i> , <b>2012</b> , 7, e52130	3.7	36
72	Neonatal immune challenge does not affect body weight regulation in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 293, R581-9	3.2	36
71	Long term alterations in neuroimmune responses of female rats after neonatal exposure to lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , <b>2006</b> , 20, 325-30	16.6	36
70	Neural and humoral changes associated with the adjustable gastric band: insights from a rodent model. <i>International Journal of Obesity</i> , <b>2012</b> , 36, 1403-11	5.5	34
69	Postnatal programming of the innate immune response. <i>Integrative and Comparative Biology</i> , <b>2009</b> , 49, 237-45	2.8	34
68	The impact of obesity and hypercaloric diet consumption on anxiety and emotional behavior across the lifespan. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2017</b> , 83, 173-182	9	33
67	Prewaning over- and underfeeding alters onset of puberty in the rat without affecting kisspeptin. <i>Biology of Reproduction</i> , <b>2012</b> , 86, 145, 1-8	3.9	30

66	Linking Stress and Infertility: A Novel Role for Ghrelin. <i>Endocrine Reviews</i> , <b>2017</b> , 38, 432-467	27.2	29
65	Differential involvement of rat medial prefrontal cortex dopamine receptors in modulation of hypothalamic-pituitary-adrenal axis responses to different stressors. <i>European Journal of Neuroscience</i> , <b>2004</b> , 20, 1008-16	3.5	28
64	Conditional microglial depletion in rats leads to reversible anorexia and weight loss by disrupting gustatory circuitry. <i>Brain, Behavior, and Immunity</i> , <b>2019</b> , 77, 77-91	16.6	28
63	Neonatal overfeeding induces early decline of the ovarian reserve: Implications for the role of leptin. <i>Molecular and Cellular Endocrinology</i> , <b>2016</b> , 431, 24-35	4.4	27
62	Blocked, delayed, or obstructed: What causes poor white matter development in intrauterine growth restricted infants?. <i>Progress in Neurobiology</i> , <b>2017</b> , 154, 62-77	10.9	26
61	Perinatal nutrition programs neuroimmune function long-term: mechanisms and implications. <i>Frontiers in Neuroscience</i> , <b>2013</b> , 7, 144	5.1	26
60	Central and peripheral neuroimmune responses: hyporesponsiveness during pregnancy. <i>Journal of Physiology</i> , <b>2008</b> , 586, 399-406	3.9	26
59	Neonatal immune challenge exacerbates experimental colitis in adult rats: potential role for TNF-alpha. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2007</b> , 292, R308-15	3.2	26
58	High-fat diet worsens the impact of aging on microglial function and morphology in a region-specific manner. <i>Neurobiology of Aging</i> , <b>2019</b> , 74, 121-134	5.6	26
57	The role of ghrelin in neuroprotection after ischemic brain injury. <i>Brain Sciences</i> , <b>2013</b> , 3, 344-59	3.4	25
56	Neonatal programming by neuroimmune challenge: effects on responses and tolerance to septic doses of lipopolysaccharide in adult male and female rats. <i>Journal of Neuroendocrinology</i> , <b>2010</b> , 22, 272-281	3.8	25
55	Des-Acyl Ghrelin and Ghrelin O-Acyltransferase Regulate Hypothalamic-Pituitary-Adrenal Axis Activation and Anxiety in Response to Acute Stress. <i>Endocrinology</i> , <b>2016</b> , 157, 3946-3957	4.8	25
54	Ghrelin-related peptides exert protective effects in the cerebral circulation of male mice through a nonclassical ghrelin receptor(s). <i>Endocrinology</i> , <b>2015</b> , 156, 280-90	4.8	24
53	Diet, behavior and immunity across the lifespan. <i>Neuroscience and Biobehavioral Reviews</i> , <b>2015</b> , 58, 46-62		23
52	One size does not fit all - Patterns of vulnerability and resilience in the COVID-19 pandemic and why heterogeneity of disease matters. <i>Brain, Behavior, and Immunity</i> , <b>2020</b> , 87, 1-3	16.6	23
51	Overfeeding during a critical postnatal period exacerbates hypothalamic-pituitary-adrenal axis responses to immune challenge: a role for adrenal melanocortin 2 receptors. <i>Scientific Reports</i> , <b>2016</b> , 6, 21097	4.9	23
50	Role of catecholaminergic inputs to the medial prefrontal cortex in local and subcortical expression of Fos after psychological stress. <i>Journal of Neuroscience Research</i> , <b>2004</b> , 78, 279-88	4.4	23
49	Gender inequality in publishing during the COVID-19 pandemic. <i>Brain, Behavior, and Immunity</i> , <b>2021</b> , 91, 1-3	16.6	23

48	Ghrelin and hypothalamic NPY/AgRP expression in mice are affected by chronic early-life stress exposure in a sex-specific manner. <i>Psychoneuroendocrinology</i> , <b>2017</b> , 86, 73-77	5	22
47	Early life disruption to the ghrelin system with over-eating is resolved in adulthood in male rats. <i>Neuropharmacology</i> , <b>2017</b> , 113, 21-30	5.5	22
46	Neonatal overfeeding attenuates acute central pro-inflammatory effects of short-term high fat diet. <i>Frontiers in Neuroscience</i> , <b>2014</b> , 8, 446	5.1	21
45	Anxiety and hypothalamic-pituitary-adrenal axis responses to psychological stress are attenuated in male rats made lean by large litter rearing. <i>Psychoneuroendocrinology</i> , <b>2011</b> , 36, 1080-91	5	21
44	Endogenous ghrelin's role in hippocampal neuroprotection after global cerebral ischemia: does endogenous ghrelin protect against global stroke?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2013</b> , 304, R980-90	3.2	20
43	Protective actions of des-acylated ghrelin on brain injury and blood-brain barrier disruption after stroke in mice. <i>Clinical Science</i> , <b>2016</b> , 130, 1545-58	6.5	20
42	Hypothalamic effects of neonatal diet: reversible and only partially leptin dependent. <i>Journal of Endocrinology</i> , <b>2017</b> , 234, 41-56	4.7	18
41	Effects of mild calorie restriction on anxiety and hypothalamic-pituitary-adrenal axis responses to stress in the male rat. <i>Physiological Reports</i> , <b>2014</b> , 2, e00265	2.6	18
40	Glial remodeling enhances short-term memory performance in Wistar rats. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 52	10.1	17
39	Effects of global cerebral ischemia in the pregnant rat. <i>Stroke</i> , <b>2008</b> , 39, 975-82	6.7	17
38	Microglia depletion fails to abrogate inflammation-induced sickness in mice and rats. <i>Journal of Neuroinflammation</i> , <b>2020</b> , 17, 172	10.1	16
37	Increased hypothalamic microglial activation after viral-induced pneumococcal lung infection is associated with excess serum amyloid A production. <i>Journal of Neuroinflammation</i> , <b>2018</b> , 15, 200	10.1	16
36	Being suckled in a large litter mitigates the effects of early-life stress on hypothalamic-pituitary-adrenal axis function in the male rat. <i>Journal of Neuroendocrinology</i> , <b>2013</b> , 25, 792-802	3.8	14
35	Neuroimmunology of the female brain across the lifespan: Plasticity to psychopathology. <i>Brain, Behavior, and Immunity</i> , <b>2019</b> , 79, 39-55	16.6	13
34	Neonatal overfeeding disrupts pituitary ghrelin signalling in female rats long-term; Implications for the stress response. <i>PLoS ONE</i> , <b>2017</b> , 12, e0173498	3.7	13
33	Western Diet Chow Consumption in Rats Induces Striatal Neuronal Activation While Reducing Dopamine Levels without Affecting Spatial Memory in the Radial Arm Maze. <i>Frontiers in Behavioral Neuroscience</i> , <b>2017</b> , 11, 22	3.5	12
32	Neurohypophysial peptides: gatekeepers in the amygdala. <i>Trends in Endocrinology and Metabolism</i> , <b>2005</b> , 16, 343-4	8.8	12
31	Effects of exercise on adolescent and adult hypothalamic and hippocampal neuroinflammation. <i>Hippocampus</i> , <b>2016</b> , 26, 1435-1446	3.5	11

30	Acylated Ghrelin Supports the Ovarian Transcriptome and Follicles in the Mouse: Implications for Fertility. <i>Frontiers in Endocrinology</i> , <b>2018</b> , 9, 815	5.7	9
29	Hormonal and nutritional regulation of postnatal hypothalamic development. <i>Journal of Endocrinology</i> , <b>2018</b> , 237, R47-R64	4.7	9
28	Microglial ablation in rats disrupts the circadian system. <i>FASEB Journal</i> , <b>2021</b> , 35, e21195	0.9	9
27	Neonatal overfeeding by small-litter rearing sensitises hippocampal microglial responses to immune challenge: Reversal with neonatal repeated injections of saline or minocycline. <i>Journal of Neuroendocrinology</i> , <b>2017</b> , 29, e12540	3.8	8
26	Obesity after neonatal overfeeding is independent of hypothalamic microgliosis. <i>Journal of Neuroendocrinology</i> , <b>2019</b> , 31, e12757	3.8	8
25	Hyperleptinemia in Neonatally Overfed Female Rats Does Not Dysregulate Feeding Circuitry. <i>Frontiers in Endocrinology</i> , <b>2017</b> , 8, 287	5.7	8
24	Emerging roles of extracellular vesicles in the intercellular communication for exercise-induced adaptations. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2020</b> , 319, E320-E329	6	7
23	Acylated ghrelin suppresses the cytokine response to lipopolysaccharide and does so independently of the hypothalamic-pituitary-adrenal axis. <i>Brain, Behavior, and Immunity</i> , <b>2018</b> , 74, 86-95	16.6	7
22	Systemic apomorphine alters HPA axis responses to interleukin-1 beta administration but not sound stress. <i>Psychoneuroendocrinology</i> , <b>2003</b> , 28, 715-32	5	6
21	Chronic predator stress in female mice reduces primordial follicle numbers: implications for the role of ghrelin. <i>Journal of Endocrinology</i> , <b>2019</b> , 241, 201-219	4.7	6
20	Microglial regulation of satiety and cognition. <i>Journal of Neuroendocrinology</i> , <b>2020</b> , 32, e12838	3.8	6
19	Neonatal overfeeding increases capacity for catecholamine biosynthesis from the adrenal gland acutely and long-term in the male rat. <i>Molecular and Cellular Endocrinology</i> , <b>2018</b> , 470, 295-303	4.4	6
18	The role of microglia in the second and third postnatal weeks of life in rat hippocampal development and memory. <i>Brain, Behavior, and Immunity</i> , <b>2020</b> , 88, 675-687	16.6	5
17	The Role of Intestinal Macrophages in Gastrointestinal Homeostasis: Heterogeneity and Implications in Disease. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2021</b> , 12, 1701-1718	7.9	5
16	Early life stress and metabolism. <i>Current Opinion in Behavioral Sciences</i> , <b>2019</b> , 28, 25-30	4	4
15	Acupuncture: A Promising Approach for Comorbid Depression and Insomnia in Perimenopause. <i>Nature and Science of Sleep</i> , <b>2021</b> , 13, 1823-1863	3.6	4
14	Maternal diet before and during pregnancy modulates microglial activation and neurogenesis in the postpartum rat brain. <i>Brain, Behavior, and Immunity</i> , <b>2021</b> , 98, 185-197	16.6	3
13	Psychoneuroimmunology goes East: Development of the PNIRS affiliate and its expansion into PNIRS. <i>Brain, Behavior, and Immunity</i> , <b>2020</b> , 88, 75-87	16.6	2

12	Consequences of early life overfeeding for microglia - Perspectives from rodent models. <i>Brain, Behavior, and Immunity</i> , <b>2020</b> , 88, 256-261	16.6	2
11	High Maternal Omega-3 Supplementation Dysregulates Body Weight and Leptin in Newborn Male and Female Rats: Implications for Hypothalamic Developmental Programming. <i>Nutrients</i> , <b>2020</b> , 13,	6.7	2
10	Novel pharmacological strategies to treat cognitive dysfunction in chronic obstructive pulmonary disease. <i>Pharmacology &amp; Therapeutics</i> , <b>2021</b> , 108017	13.9	2
9	Validation of quantitative magnetic resonance as a non-invasive measure of body composition in an Australian microbat. <i>Australian Mammalogy</i> , <b>2021</b> , 43, 196	1.1	2
8	How Stress Can (Sometimes) Make Us Eat More. <i>Frontiers for Young Minds</i> , 7,	1.5	1
7	Ovarian follicles are resistant to monocyte perturbations-implications for ovarian health with immune disruption <i>Biology of Reproduction</i> , <b>2021</b> , 105, 100-112	3.9	1
6	Monocyte perturbation modulates the ovarian response to an immune challenge. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 536, 111418	4.4	0
5	The Role of Acupuncture in the Management of Insomnia as a Major or Residual Symptom Among Patients With Active or Previous Depression: A Systematic Review and Meta-Analysis.. <i>Frontiers in Psychiatry</i> , <b>2022</b> , 13, 863134	5	0
4	Cover Image, Volume 26, Issue 11. <i>Hippocampus</i> , <b>2016</b> , 26, C1-C1	3.5	
3	Baby's genes may bear the consequences of Mum's distress. <i>Brain, Behavior, and Immunity</i> , <b>2018</b> , 73, 153-154	16.6	
2	Perinatal and Postnatal Determinants of Brain Development: Recent Studies and Methodological Advances. <i>Neuromethods</i> , <b>2016</b> , 189-201	0.4	
1	Ghrelin Plays a Role in Various Physiological and Pathophysiological Brain Functions. <i>Receptors</i> , <b>2014</b> , 191-204		