

Sarah J Spencer

List of Publications by Year in descending order

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Version: 2024-02-01

109
papers

4,779
citations

94433

37
h-index

106344

65
g-index

113
all docs

113
docs citations

113
times ranked

6389
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Obesity and neuroinflammation: A pathway to cognitive impairment. <i>Brain, Behavior, and Immunity</i> , 2014, 42, 10-21. | 4.1 | 561 |
| 2 | Postnatal Inflammation Increases Seizure Susceptibility in Adult Rats. <i>Journal of Neuroscience</i> , 2008, 28, 6904-6913. | 3.6 | 257 |
| 3 | Eating behavior and stress: a pathway to obesity. <i>Frontiers in Psychology</i> , 2014, 5, 434. | 2.1 | 221 |
| 4 | Ghrelin Regulates the Hypothalamic-Pituitary-Adrenal Axis and Restricts Anxiety After Acute Stress. <i>Biological Psychiatry</i> , 2012, 72, 457-465. | 1.3 | 196 |
| 5 | Food for thought: how nutrition impacts cognition and emotion. <i>Npj Science of Food</i> , 2017, 1, 7. | 5.5 | 154 |
| 6 | 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> , 2005, 481, 363-376. | 1.6 | 151 |
| 7 | High-fat diet and aging interact to produce neuroinflammation and impair hippocampal- and amygdalar-dependent memory. <i>Neurobiology of Aging</i> , 2017, 58, 88-101. | 3.1 | 138 |
| 8 | The glucocorticoid contribution to obesity. <i>Stress</i> , 2011, 14, 233-246. | 1.8 | 114 |
| 9 | Microglia: Key players in neurodevelopment and neuronal plasticity. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 94, 56-60. | 2.8 | 104 |
| 10 | Ghrelin's Role in the Hypothalamic-Pituitary-Adrenal Axis Stress Response: Implications for Mood Disorders. <i>Biological Psychiatry</i> , 2015, 78, 19-27. | 1.3 | 103 |
| 11 | Early life immune challenge's effects on behavioural indices of adult rat fear and anxiety. <i>Behavioural Brain Research</i> , 2005, 164, 231-238. | 2.2 | 102 |
| 12 | Early-Life Immune Challenge: Defining a Critical Window for Effects on Adult Responses to Immune Challenge. <i>Neuropsychopharmacology</i> , 2006, 31, 1910-1918. | 5.4 | 98 |
| 13 | Thalamic paraventricular nucleus lesions facilitate central amygdala neuronal responses to acute psychological stress. <i>Brain Research</i> , 2004, 997, 234-237. | 2.2 | 93 |
| 14 | Early Life Activation of Toll-Like Receptor 4 Reprograms Neural Anti-Inflammatory Pathways. <i>Journal of Neuroscience</i> , 2010, 30, 7975-7983. | 3.6 | 74 |
| 15 | Neonatal overfeeding alters adult anxiety and stress responsiveness. <i>Psychoneuroendocrinology</i> , 2009, 34, 1133-1143. | 2.7 | 73 |
| 16 | Neonatal programming of innate immune function. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2011, 300, E11-E18. | 3.5 | 72 |
| 17 | Neonatal immune challenge alters nociception in the adult rat. <i>Pain</i> , 2005, 119, 133-141. | 4.2 | 70 |
| 18 | Neonatal overfeeding alters hypothalamic microglial profiles and central responses to immune challenge long-term. <i>Brain, Behavior, and Immunity</i> , 2014, 41, 32-43. | 4.1 | 63 |

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|----|---|------|-----------|
| 19 | The impact of obesity and hypercaloric diet consumption on anxiety and emotional behavior across the lifespan. <i>Neuroscience and Biobehavioral Reviews</i> , 2017, 83, 173-182. | 6.1 | 59 |
| 20 | Peripheral Inflammation Exacerbates Damage After Global Ischemia Independently of Temperature and Acute Brain Inflammation. <i>Stroke</i> , 2007, 38, 1570-1577. | 2.0 | 55 |
| 21 | Postnatal Overfeeding Leads to Obesity and Exacerbated Febrile Responses to Lipopolysaccharide Throughout Life. <i>Journal of Neuroendocrinology</i> , 2012, 24, 511-524. | 2.6 | 54 |
| 22 | Perinatal programming of neuroendocrine mechanisms connecting feeding behavior and stress. <i>Frontiers in Neuroscience</i> , 2013, 7, 109. | 2.8 | 54 |
| 23 | 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> , 2012, 8, 55-68. | 1.3 | 52 |
| 24 | Perinatal programming by inflammation. <i>Brain, Behavior, and Immunity</i> , 2017, 63, 1-7. | 4.1 | 52 |
| 25 | High-fat diet worsens the impact of aging on microglial function and morphology in a region-specific manner. <i>Neurobiology of Aging</i> , 2019, 74, 121-134. | 3.1 | 52 |
| 26 | Gender inequality in publishing during the COVID-19 pandemic. <i>Brain, Behavior, and Immunity</i> , 2021, 91, 1-3. | 4.1 | 50 |
| 27 | Diet-induced obesity causes ghrelin resistance in reward processing tasks. <i>Psychoneuroendocrinology</i> , 2015, 62, 114-120. | 2.7 | 49 |
| 28 | Linking Stress and Infertility: A Novel Role for Ghrelin. <i>Endocrine Reviews</i> , 2017, 38, 432-467. | 20.1 | 47 |
| 29 | Understanding the role of P2X7 in affective disorders—“are glial cells the major players?”. <i>Frontiers in Cellular Neuroscience</i> , 2015, 9, 258. | 3.7 | 46 |
| 30 | The Role of Intestinal Macrophages in Gastrointestinal Homeostasis: Heterogeneity and Implications in Disease. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2021, 12, 1701-1718. | 4.5 | 46 |
| 31 | Early life overfeeding impairs spatial memory performance by reducing microglial sensitivity to learning. <i>Journal of Neuroinflammation</i> , 2016, 13, 112. | 7.2 | 44 |
| 32 | Conditional microglial depletion in rats leads to reversible anorexia and weight loss by disrupting gustatory circuitry. <i>Brain, Behavior, and Immunity</i> , 2019, 77, 77-91. | 4.1 | 44 |
| 33 | Rat Neonatal Immune Challenge Alters Adult Responses to Cerebral Ischaemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006, 26, 456-467. | 4.3 | 43 |
| 34 | Neonatal immune challenge does not affect body weight regulation in rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 293, R581-R589. | 1.8 | 42 |
| 35 | 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> , 2011, 182, 184-192. | 2.3 | 42 |
| 36 | Effects of Neonatal Overfeeding on Juvenile and Adult Feeding and Energy Expenditure in the Rat. <i>PLoS ONE</i> , 2012, 7, e52130. | 2.5 | 42 |

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|----|--|-----|-----------|
| 37 | Microglia depletion fails to abrogate inflammation-induced sickness in mice and rats. <i>Journal of Neuroinflammation</i> , 2020, 17, 172. | 7.2 | 42 |
| 38 | Prewaning Over- and Underfeeding Alters Onset of Puberty in the Rat Without Affecting Kisspeptin1. <i>Biology of Reproduction</i> , 2012, 86, 145, 1-8. | 2.7 | 41 |
| 39 | Neonatal overfeeding induces early decline of the ovarian reserve: Implications for the role of leptin. <i>Molecular and Cellular Endocrinology</i> , 2016, 431, 24-35. | 3.2 | 39 |
| 40 | Ghrelin and hypothalamic NPY/AgRP expression in mice are affected by chronic early-life stress exposure in a sex-specific manner. <i>Psychoneuroendocrinology</i> , 2017, 86, 73-77. | 2.7 | 39 |
| 41 | Long term alterations in neuroimmune responses of female rats after neonatal exposure to lipopolysaccharide. <i>Brain, Behavior, and Immunity</i> , 2006, 20, 325-330. | 4.1 | 38 |
| 42 | Postnatal programming of the innate immune response. <i>Integrative and Comparative Biology</i> , 2009, 49, 237-245. | 2.0 | 36 |
| 43 | Neural and humoral changes associated with the adjustable gastric band: insights from a rodent model. <i>International Journal of Obesity</i> , 2012, 36, 1403-1411. | 3.4 | 36 |
| 44 | 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> , 2020, 87, 1-3. | 4.1 | 36 |
| 45 | Des-Acyl Ghrelin and Ghrelin O-Acyltransferase Regulate Hypothalamic-Pituitary-Adrenal Axis Activation and Anxiety in Response to Acute Stress. <i>Endocrinology</i> , 2016, 157, 3946-3957. | 2.8 | 35 |
| 46 | Glial remodeling enhances short-term memory performance in Wistar rats. <i>Journal of Neuroinflammation</i> , 2020, 17, 52. | 7.2 | 33 |
| 47 | Blocked, delayed, or obstructed: What causes poor white matter development in intrauterine growth restricted infants?. <i>Progress in Neurobiology</i> , 2017, 154, 62-77. | 5.7 | 32 |
| 48 | 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> , 2004, 20, 1008-1016. | 2.6 | 31 |
| 49 | Central and peripheral neuroimmune responses: hyporesponsiveness during pregnancy. <i>Journal of Physiology</i> , 2008, 586, 399-406. | 2.9 | 30 |
| 50 | Microglial ablation in rats disrupts the circadian system. <i>FASEB Journal</i> , 2021, 35, e21195. | 0.5 | 30 |
| 51 | Neuroimmunology of the female brain across the lifespan: Plasticity to psychopathology. <i>Brain, Behavior, and Immunity</i> , 2019, 79, 39-55. | 4.1 | 29 |
| 52 | Neonatal immune challenge exacerbates experimental colitis in adult rats: potential role for TNF- α . <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007, 292, R308-R315. | 1.8 | 28 |
| 53 | The Role of Ghrelin in Neuroprotection after Ischemic Brain Injury. <i>Brain Sciences</i> , 2013, 3, 344-359. | 2.3 | 28 |
| 54 | Perinatal nutrition programs neuroimmune function long-term: mechanisms and implications. <i>Frontiers in Neuroscience</i> , 2013, 7, 144. | 2.8 | 28 |

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|----|--|-----|-----------|
| 55 | Ghrelin-Related Peptides Exert Protective Effects in the Cerebral Circulation of Male Mice Through a Nonclassical Ghrelin Receptor(s). <i>Endocrinology</i> , 2015, 156, 280-290. | 2.8 | 28 |
| 56 | Effects of mild calorie restriction on anxiety and hypothalamic-pituitary-adrenal axis responses to stress in the male rat. <i>Physiological Reports</i> , 2014, 2, e00265. | 1.7 | 27 |
| 57 | Diet, behavior and immunity across the lifespan. <i>Neuroscience and Biobehavioral Reviews</i> , 2015, 58, 46-62. | 6.1 | 26 |
| 58 | 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> , 2010, 22, 272-281. | 2.6 | 25 |
| 59 | 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> , 2004, 78, 279-288. | 2.9 | 24 |
| 60 | Neonatal overfeeding attenuates acute central pro-inflammatory effects of short-term high fat diet. <i>Frontiers in Neuroscience</i> , 2015, 8, 446. | 2.8 | 24 |
| 61 | Protective actions of des-acylated ghrelin on brain injury and bloodâ€“brain barrier disruption after stroke in mice. <i>Clinical Science</i> , 2016, 130, 1545-1558. | 4.3 | 24 |
| 62 | 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> , 2016, 6, 21097. | 3.3 | 24 |
| 63 | Early life disruption to the ghrelin system with over-eating is resolved in adulthood in male rats. <i>Neuropharmacology</i> , 2017, 113, 21-30. | 4.1 | 23 |
| 64 | Effects of exercise on adolescent and adult hypothalamic and hippocampal neuroinflammation. <i>Hippocampus</i> , 2016, 26, 1435-1446. | 1.9 | 22 |
| 65 | Hypothalamic effects of neonatal diet: reversible and only partially leptin dependent. <i>Journal of Endocrinology</i> , 2017, 234, 41-56. | 2.6 | 22 |
| 66 | Anxiety and hypothalamicâ€“pituitaryâ€“adrenal axis responses to psychological stress are attenuated in male rats made lean by large litter rearing. <i>Psychoneuroendocrinology</i> , 2011, 36, 1080-1091. | 2.7 | 21 |
| 67 | 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> , 2013, 304, R980-R990. | 1.8 | 21 |
| 68 | Increased hypothalamic microglial activation after viral-induced pneumococcal lung infection is associated with excess serum amyloid A production. <i>Journal of Neuroinflammation</i> , 2018, 15, 200. | 7.2 | 19 |
| 69 | Emerging roles of extracellular vesicles in the intercellular communication for exercise-induced adaptations. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2020, 319, E320-E329. | 3.5 | 19 |
| 70 | Effects of Global Cerebral Ischemia in the Pregnant Rat. <i>Stroke</i> , 2008, 39, 975-982. | 2.0 | 18 |
| 71 | Hormonal and nutritional regulation of postnatal hypothalamic development. <i>Journal of Endocrinology</i> , 2018, 237, R47-R64. | 2.6 | 18 |
| 72 | Microglial regulation of satiety and cognition. <i>Journal of Neuroendocrinology</i> , 2020, 32, e12838. | 2.6 | 18 |

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|----|---|-----|-----------|
| 73 | Acupuncture: A Promising Approach for Comorbid Depression and Insomnia in Perimenopause. <i>Nature and Science of Sleep</i> , 2021, Volume 13, 1823-1863. | 2.7 | 18 |
| 74 | 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> , 2017, 11, 22. | 2.0 | 16 |
| 75 | 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> , 2013, 25, 792-802. | 2.6 | 15 |
| 76 | Acylated Ghrelin Supports the Ovarian Transcriptome and Follicles in the Mouse: Implications for Fertility. <i>Frontiers in Endocrinology</i> , 2018, 9, 815. | 3.5 | 15 |
| 77 | Neurohypophysial peptides: gatekeepers in the amygdala. <i>Trends in Endocrinology and Metabolism</i> , 2005, 16, 343-344. | 7.1 | 13 |
| 78 | Neonatal overfeeding disrupts pituitary ghrelin signalling in female rats long-term; Implications for the stress response. <i>PLoS ONE</i> , 2017, 12, e0173498. | 2.5 | 13 |
| 79 | Acylated ghrelin suppresses the cytokine response to lipopolysaccharide and does so independently of the hypothalamic-pituitary-adrenal axis. <i>Brain, Behavior, and Immunity</i> , 2018, 74, 86-95. | 4.1 | 12 |
| 80 | 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> , 2020, 88, 675-687. | 4.1 | 12 |
| 81 | Maternal diet before and during pregnancy modulates microglial activation and neurogenesis in the postpartum rat brain. <i>Brain, Behavior, and Immunity</i> , 2021, 98, 185-197. | 4.1 | 12 |
| 82 | Obesity after neonatal overfeeding is independent of hypothalamic microgliosis. <i>Journal of Neuroendocrinology</i> , 2019, 31, e12757. | 2.6 | 11 |
| 83 | 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> , 2017, 29, e12540. | 2.6 | 10 |
| 84 | Hyperleptinemia in Neonatally Overfed Female Rats Does Not Dysregulate Feeding Circuitry. <i>Frontiers in Endocrinology</i> , 2017, 8, 287. | 3.5 | 10 |
| 85 | Chronic predator stress in female mice reduces primordial follicle numbers: implications for the role of ghrelin. <i>Journal of Endocrinology</i> , 2019, 241, 201-219. | 2.6 | 10 |
| 86 | Systemic apomorphine alters HPA axis responses to interleukin-1 β administration but not sound stress. <i>Psychoneuroendocrinology</i> , 2003, 28, 715-732. | 2.7 | 9 |
| 87 | Cigarette Smoke Exposure Induces Neurocognitive Impairments and Neuropathological Changes in the Hippocampus. <i>Frontiers in Molecular Neuroscience</i> , 2022, 15, . | 2.9 | 9 |
| 88 | Psychoneuroimmunology goes East: Development of the PNIRS affiliate and its expansion into PNIRS. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 75-87. | 4.1 | 8 |
| 89 | Ovarian follicles are resistant to monocyte perturbations—implications for ovarian health with immune disruption. <i>Biology of Reproduction</i> , 2021, 105, 100-112. | 2.7 | 8 |
| 90 | Novel pharmacological strategies to treat cognitive dysfunction in chronic obstructive pulmonary disease. , 2022, 233, 108017. | | 8 |

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|-----|---|-----|-----------|
| 91 | 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> , 2018, 470, 295-303. | 3.2 | 7 |
| 92 | Early life stress and metabolism. <i>Current Opinion in Behavioral Sciences</i> , 2019, 28, 25-30. | 3.9 | 7 |
| 93 | High Maternal Omega-3 Supplementation Dysregulates Body Weight and Leptin in Newborn Male and Female Rats: Implications for Hypothalamic Developmental Programming. <i>Nutrients</i> , 2021, 13, 89. | 4.1 | 5 |
| 94 | Validation of quantitative magnetic resonance as a non-invasive measure of body composition in an Australian microbat. <i>Australian Mammalogy</i> , 2021, 43, 196. | 1.1 | 4 |
| 95 | Whatâ€™s in a name? How about being listed in the â€œPsychiatryâ€ category in Clarivateâ€™s Journal Citation Index!. <i>Brain, Behavior, and Immunity</i> , 2019, 78, 3-4. | 4.1 | 3 |
| 96 | Consequences of early life overfeeding for microglia â€“ Perspectives from rodent models. <i>Brain, Behavior, and Immunity</i> , 2020, 88, 256-261. | 4.1 | 3 |
| 97 | Monocyte perturbation modulates the ovarian response to an immune challenge. <i>Molecular and Cellular Endocrinology</i> , 2021, 536, 111418. | 3.2 | 3 |
| 98 | Delayed Spatial Win-shift Test on Radial Arm Maze. <i>Bio-protocol</i> , 2016, 6, . | 0.4 | 2 |
| 99 | 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> , 2022, 13, 863134. | 2.6 | 2 |
| 100 | How Stress Can (Sometimes) Make Us Eat More. <i>Frontiers for Young Minds</i> , 0, 7, . | 0.8 | 1 |
| 101 | Long-term role of neonatal microglia and monocytes in ovarian health. <i>Journal of Endocrinology</i> , 2022, 254, 103-119. | 2.6 | 1 |
| 102 | Cover Image, Volume 26, Issue 11. <i>Hippocampus</i> , 2016, 26, C1-C1. | 1.9 | 0 |
| 103 | Effects of exercise on adolescent and adult hypothalamic and hippocampal neuroinflammation. <i>Hippocampus</i> , 2018, 28, 312-312. | 1.9 | 0 |
| 104 | How Food Can Change a Babyâ€™s Brain. <i>Frontiers for Young Minds</i> , 2018, 6, . | 0.8 | 0 |
| 105 | Babyâ€™s genes may bear the consequences of Mumâ€™s distress. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 153-154. | 4.1 | 0 |
| 106 | Targeting Central Inflammation to Combat Obesity and Obesity-related Cognitive Dysfunction - NHMRC. <i>Impact</i> , 2019, 2019, 15-17. | 0.1 | 0 |
| 107 | Chrelin Plays a Role in Various Physiological and Pathophysiological Brain Functions. <i>Receptors</i> , 2014, , 191-204. | 0.2 | 0 |
| 108 | Perinatal and Postnatal Determinants of Brain Development: Recent Studies and Methodological Advances. <i>Neuromethods</i> , 2016, , 189-201. | 0.3 | 0 |

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|-----|--|----|-----------|
| 109 | Curcumin-nanodiamond-silk wound dressings for sensing infection. , 2019, , . | | 0 |