Ruth M Barrientos

List of Publications by Year
in descending order

61 papers	5,566 citations	94433 37 h-index	138484 58 g-index
62 all docs	62 docs citations	62 times ranked	6418 citing authors

#	Article	IF	Citations
1	Postoperative cognitive dysfunction is made persistent with morphine treatment in aged rats. Neurobiology of Aging, 2021, 98, 214-224.	3.1	33
2	Evolution of the Human Diet and Its Impact on Gut Microbiota, Immune Responses, and Brain Health. Nutrients, 2021, 13, 196.	4.1	57
3	Experimental autoimmune encephalopathy (EAE)-induced hippocampal neuroinflammation and memory deficits are prevented with the non-opioid TLR2/TLR4 antagonist (+)-naltrexone. Behavioural Brain Research, 2021, 396, 112896.	2.2	16
4	Elevated Expression of MiR-17 in Microglia of Alzheimerâ€™s Disease Patients Abrogates Autophagy-Mediated Amyloid-Î² Degradation. Frontiers in Immunology, 2021, 12, 705581.	4.8	34
5	The Perfect Cytokine Storm: How Peripheral Immune Challenges Impact Brain Plasticity & Memory Function in Aging. Brain Plasticity, 2021, 7, 47-60.	3.5	16
6	Dietary DHA prevents cognitive impairment and inflammatory gene expression in aged male rats fed a diet enriched with refined carbohydrates. Brain, Behavior, and Immunity, 2021, 98, 198-209.	4.1	15
7	Reply to the Letter to the Editor: Regional differences in dietary use of immune-modulating catechins should be investigated regarding COVID-19. Brain, Behavior, and Immunity, 2020, 89, 528.	4.1	0
8	Mammary tumors suppress aging-induced neuroinflammation in female Balb/c mice. Comprehensive Psychoneuroendocrinology, 2020, 1-2, 100002.	1.7	4
9	Lifestyle modifications with anti-neuroinflammatory benefits in the aging population. Experimental Gerontology, 2020, 142, 111144.	2.8	16
10	Fatty food, fatty acids, and microglial priming in the adult and aged hippocampus and amygdala. Brain, Behavior, and Immunity, 2020, 89, 145-158.	4.1	47
11	The impact of nutrition on COVID-19 susceptibility and long-term consequences. Brain, Behavior, and Immunity, 2020, 87, 53-54.	4.1	405
12	Collapsin Response Mediator Proteins: Novel Targets for Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2020, 77, 949-960.	2.6	9
13	Neuroimmunology of the female brain across the lifespan: Plasticity to psychopathology. Brain, Behavior, and Immunity, 2019, 79, 39-55.	4.1	29
14	High-fat diet worsens the impact of aging on microglial function and morphology in a region-specific manner. Neurobiology of Aging, 2019, 74, 121-134.	3.1	52
15	Aging and an Immune Challenge Interact to Produce Prolonged, but Not Permanent, Reductions in Hippocampal L-LTP and mBDNF in a Rodent Model with Features of Delirium. ENeuro, 2018, 5, ENEURO.0009-18.2018.	1.9	15
16	Divergent effects of brain interleukin-1ÃŸ in mediating fever, lethargy, anorexia and conditioned fear memory. Behavioural Brain Research, 2017, 324, 155-163.	2.2	8
17	High-fat diet and aging interact to produce neuroinflammation and impair hippocampal- and amygdalar-dependent memory. Neurobiology of Aging, 2017, 58, 88-101.	3.1	138
18	Food for thought: how nutrition impacts cognition and emotion. Npj Science of Food, 2017, 1, 7.	5.5	154

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19	Glucocorticoids Mediate Short-Term High-Fat Diet Induction of Neuroinflammatory Priming, the NLRP3 Inflammasome, and the Danger Signal HMGB1. ENeuro, 2016, 3, ENEURO.0113-16.2016.	1.9	54
20	Diminished circadian rhythms in hippocampal microglia may contribute to age-related neuroinflammatory sensitization. Neurobiology of Aging, 2016, 47, 102-112.	3.1	54
21	The Alarmin HMGB1 Mediates Age-Induced Neuroinflammatory Priming. Journal of Neuroscience, 2016, 36, 7946-7956.	3.6	103
22	Stable, long-term, spatial memory in young and aged rats achieved with a one day Morris water maze training protocol. Learning and Memory, 2016, 23, 699-702.	1.3	7
23	Greater glucocorticoid receptor activation in hippocampus of aged rats sensitizes microglia. Neurobiology of Aging, 2015, 36, 1483-1495.	3.1	62
24	Reductions in Frontocortical Cytokine Levels are Associated with Long-Lasting Alterations in Reward Valuation after Methamphetamine. Neuropsychopharmacology, 2015, 40, 1234-1242.	5.4	18
25	Neuroinflammation in the normal aging hippocampus. Neuroscience, 2015, 309, 84-99.	2.3	269
26	The role of hepatic and splenic macrophages in E. coli-induced memory impairments in aged rats. Brain, Behavior, and Immunity, 2015, 43, 60-67.	4.1	7
27	Microglia inflammatory responses are controlled by an intrinsic circadian clock. Brain, Behavior, and Immunity, 2015, 45, 171-179.	4.1	207
28	High-fat diet consumption disrupts memory and primes elevations in hippocampal IL-1Î², an effect that can be prevented with dietary reversal or IL-1 receptor antagonism. Brain, Behavior, and Immunity, 2014, 42, 22-32.	4.1	127
29	Intracisternal Interleukin-1 Receptor Antagonist Prevents Postoperative Cognitive Decline and Neuroinflammatory Response in Aged Rats. Journal of Neuroscience, 2012, 32, 14641-14648.	3.6	196
30	The role of microglia in neurogenesis: exercise and aging as cofactors. Future Neurology, 2012, 7, 671-674.	0.5	0
31	Aging-related changes in neuroimmune-endocrine function: Implications for hippocampal-dependent cognition. Hormones and Behavior, 2012, 62, 219-227.	2.1	66
32	Aging and infection reduce expression of specific brain-derived neurotrophic factor mRNAs in hippocampus. Neurobiology of Aging, 2012, 33, 832.e1-832.e14.	3.1	66
33	IL-1RA injected intra-cisterna magna confers extended prophylaxis against lipopolysaccharide-induced neuroinflammatory and sickness responses. Journal of Neuroimmunology, 2012, 252, 33-39.	2.3	17
34	Voluntary exercise as an anti-neuroinflammatory therapeutic. Brain, Behavior, and Immunity, 2011, 25, 1061-1062.	4.1	20
35	Prior laparotomy or corticosterone potentiates lipopolysaccharide-induced fever and sickness behaviors. Journal of Neuroimmunology, 2011, 239, 53-60.	2.3	23
36	Little Exercise, Big Effects: Reversing Aging and Infection-Induced Memory Deficits, and Underlying Processes. Journal of Neuroscience, 2011, 31, 11578-11586.	3.6	128

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37	Aging and a Peripheral Immune Challenge Interact to Reduce Mature Brain-Derived Neurotrophic Factor and Activation of TrkB, PLCÎ³1, and ERK in Hippocampal Synaptoneurosomes. Journal of Neuroscience, 2011, 31, 4274-4279.	3.6	108
38	Aging sensitizes rapidly isolated hippocampal microglia to LPS ex vivo. Journal of Neuroimmunology, 2010, 226, 181-184.	2.3	88
39	Neonatal bacterial infection alters fever to live and simulated infections in adulthood. Psychoneuroendocrinology, 2010, 35, 369-381.	2.7	28
40	Synaptic Correlates of Increased Cognitive Vulnerability with Aging: Peripheral Immune Challenge and Aging Interact to Disrupt Theta-Burst Late-Phase Long-Term Potentiation in Hippocampal Area CA1. Journal of Neuroscience, 2010, 30, 7598-7603.	3.6	60
41	IL-1RA blocks E. coli-induced suppression of Arc and long-term memory in aged F344Ã—BN F1 rats. Brain, Behavior, and Immunity, 2010, 24, 254-262.	4.1	72
42	Memory impairments in healthy aging: Role of aging-induced microglial sensitization. , 2010, 1, 212-231.		44
43	Time course of hippocampal IL-1 Î² and memory consolidation impairments in aging rats following peripheral infection. Brain, Behavior, and Immunity, 2009, 23, 46-54.	4.1	199
44	Characterization of the sickness response in young and aging rats following E. coli infection. Brain, Behavior, and Immunity, 2009, 23, 450-454.	4.1	57
45	Early-life infection leads to altered BDNF and IL-1Î² mRNA expression in rat hippocampus following learning in adulthood. Brain, Behavior, and Immunity, 2008, 22, 451-455.	4.1	94
46	Expression of fibroblast growth factor-2 and brain-derived neurotrophic factor mRNA in the medial prefrontal cortex and hippocampus after uncontrollable or controllable stress. Neuroscience, 2007, 144, 1219-1228.	2.3	69
47	Prostaglandins are necessary and sufficient to induce contextual fear learning impairments after interleukin-1 beta injections into the dorsal hippocampus. Neuroscience, 2007, 150, 754-763.	2.3	58
48	Peripheral infection and aging interact to impair hippocampal memory consolidation. Neurobiology of Aging, 2006, 27, 723-732.	3.1	288
49	mRNA up-regulation of MHC II and pivotal pro-inflammatory genes in normal brain aging. Neurobiology of Aging, 2006, 27, 717-722.	3.1	291
50	The Role of the Dorsal Hippocampus in the Acquisition and Retrieval of Context Memory Representations. Journal of Neuroscience, 2004, 24, 2431-2439.	3.6	287
51	BDNF mRNA expression in rat hippocampus following contextual learning is blocked by intrahippocampal IL-1Î² administration. Journal of Neuroimmunology, 2004, 155, 119-126.	2.3	177
52	Spinal gap junctions: Potential involvement in pain facilitation. Journal of Pain, 2004, 5, 392-405.	1.4	144
53	Snake venom phospholipase A2s (Asp49 and Lys49) induce mechanical allodynia upon peri-sciatic administration: involvement of spinal cord glia, proinflammatory cytokines and nitric oxide. Pain, 2004, 108, 180-191.	4.2	66
54	Brain-derived neurotrophic factor mRNA downregulation produced by social isolation is blocked by intrahippocampal interleukin-1 receptor antagonist. Neuroscience, 2003, 121, 847-853.	2.3	218

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55	Hippocampal formation supports conditioning to memory of a context.. Behavioral Neuroscience, 2002, 116, 530-538.	1.2	227
56	Memory for context is impaired by a post context exposure injection of interleukin-1 beta into dorsal hippocampus. Behavioural Brain Research, 2002, 134, 291-298.	2.2	225
57	Memory for context is impaired by injecting anisomycin into dorsal hippocampus following context exploration. Behavioural Brain Research, 2002, 134, 299-306.	2.2	118
58	Hippocampal formation supports conditioning to memory of a context.. Behavioral Neuroscience, 2002, 116, 530-538.	1.2	130
59	IL-1 receptor type I gene expression in the amygdala of inflammatory susceptible Lewis and inflammatory resistant Fischer rats. Journal of Neuroimmunology, 2001, 121, 32-39.	2.3	13
60	Exclusion of Angiotensin I-Converting Enzyme as a Candidate Gene Involved In Exudative Inflammatory Resistance in F344/N Rats. Molecular Medicine, 2000, 6, 319-331.	4.4	6
61	Identification of a novel inflammation-protective locus in the Fischer rat. Mammalian Genome, 1999, 10, 362-365.	2.2	27