

# Ruth M Barrientos

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1064512/publications.pdf>

Version: 2024-02-01

61  
papers

5,566  
citations

94381

37  
h-index

138417

58  
g-index

62  
all docs

62  
docs citations

62  
times ranked

6418  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of nutrition on COVID-19 susceptibility and long-term consequences. <i>Brain, Behavior, and Immunity</i> , 2020, 87, 53-54.	2.0	405
2	mRNA up-regulation of MHC II and pivotal pro-inflammatory genes in normal brain aging. <i>Neurobiology of Aging</i> , 2006, 27, 717-722.	1.5	291
3	Peripheral infection and aging interact to impair hippocampal memory consolidation. <i>Neurobiology of Aging</i> , 2006, 27, 723-732.	1.5	288
4	The Role of the Dorsal Hippocampus in the Acquisition and Retrieval of Context Memory Representations. <i>Journal of Neuroscience</i> , 2004, 24, 2431-2439.	1.7	287
5	Neuroinflammation in the normal aging hippocampus. <i>Neuroscience</i> , 2015, 309, 84-99.	1.1	269
6	Hippocampal formation supports conditioning to memory of a context.. <i>Behavioral Neuroscience</i> , 2002, 116, 530-538.	0.6	227
7	Memory for context is impaired by a post context exposure injection of interleukin-1 beta into dorsal hippocampus. <i>Behavioural Brain Research</i> , 2002, 134, 291-298.	1.2	225
8	Brain-derived neurotrophic factor mRNA downregulation produced by social isolation is blocked by intrahippocampal interleukin-1 receptor antagonist. <i>Neuroscience</i> , 2003, 121, 847-853.	1.1	218
9	Microglia inflammatory responses are controlled by an intrinsic circadian clock. <i>Brain, Behavior, and Immunity</i> , 2015, 45, 171-179.	2.0	207
10	Time course of hippocampal IL-1 $\hat{I}^2$ and memory consolidation impairments in aging rats following peripheral infection. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 46-54.	2.0	199
11	Intracisternal Interleukin-1 Receptor Antagonist Prevents Postoperative Cognitive Decline and Neuroinflammatory Response in Aged Rats. <i>Journal of Neuroscience</i> , 2012, 32, 14641-14648.	1.7	196
12	BDNF mRNA expression in rat hippocampus following contextual learning is blocked by intrahippocampal IL-1 $\hat{I}^2$ administration. <i>Journal of Neuroimmunology</i> , 2004, 155, 119-126.	1.1	177
13	Food for thought: how nutrition impacts cognition and emotion. <i>Npj Science of Food</i> , 2017, 1, 7.	2.5	154
14	Spinal gap junctions: Potential involvement in pain facilitation. <i>Journal of Pain</i> , 2004, 5, 392-405.	0.7	144
15	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.	1.5	138
16	Hippocampal formation supports conditioning to memory of a context. <i>Behavioral Neuroscience</i> , 2002, 116, 530-8.	0.6	130
17	Little Exercise, Big Effects: Reversing Aging and Infection-Induced Memory Deficits, and Underlying Processes. <i>Journal of Neuroscience</i> , 2011, 31, 11578-11586.	1.7	128
18	High-fat diet consumption disrupts memory and primes elevations in hippocampal IL-1 $\hat{I}^2$ , an effect that can be prevented with dietary reversal or IL-1 receptor antagonism. <i>Brain, Behavior, and Immunity</i> , 2014, 42, 22-32.	2.0	127

#	ARTICLE	IF	CITATIONS
19	Memory for context is impaired by injecting anisomycin into dorsal hippocampus following context exploration. <i>Behavioural Brain Research</i> , 2002, 134, 299-306.	1.2	118
20	Aging and a Peripheral Immune Challenge Interact to Reduce Mature Brain-Derived Neurotrophic Factor and Activation of TrkB, PLC $\beta$ 3, and ERK in Hippocampal Synaptoneurosome. <i>Journal of Neuroscience</i> , 2011, 31, 4274-4279.	1.7	108
21	The Alarmin HMGB1 Mediates Age-Induced Neuroinflammatory Priming. <i>Journal of Neuroscience</i> , 2016, 36, 7946-7956.	1.7	103
22	Early-life infection leads to altered BDNF and IL-1 $\beta$ mRNA expression in rat hippocampus following learning in adulthood. <i>Brain, Behavior, and Immunity</i> , 2008, 22, 451-455.	2.0	94
23	Aging sensitizes rapidly isolated hippocampal microglia to LPS ex vivo. <i>Journal of Neuroimmunology</i> , 2010, 226, 181-184.	1.1	88
24	IL-1RA blocks E. coli-induced suppression of Arc and long-term memory in aged F344 $\times$ BN F1 rats. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 254-262.	2.0	72
25	Expression of fibroblast growth factor-2 and brain-derived neurotrophic factor mRNA in the medial prefrontal cortex and hippocampus after uncontrollable or controllable stress. <i>Neuroscience</i> , 2007, 144, 1219-1228.	1.1	69
26	Snake venom phospholipase A2s (Asp49 and Lys49) induce mechanical allodynia upon peri-sciatic administration: involvement of spinal cord glia, proinflammatory cytokines and nitric oxide. <i>Pain</i> , 2004, 108, 180-191.	2.0	66
27	Aging-related changes in neuroimmune-endocrine function: Implications for hippocampal-dependent cognition. <i>Hormones and Behavior</i> , 2012, 62, 219-227.	1.0	66
28	Aging and infection reduce expression of specific brain-derived neurotrophic factor mRNAs in hippocampus. <i>Neurobiology of Aging</i> , 2012, 33, 832.e1-832.e14.	1.5	66
29	Greater glucocorticoid receptor activation in hippocampus of aged rats sensitizes microglia. <i>Neurobiology of Aging</i> , 2015, 36, 1483-1495.	1.5	62
30	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. <i>Journal of Neuroscience</i> , 2010, 30, 7598-7603.	1.7	60
31	Prostaglandins are necessary and sufficient to induce contextual fear learning impairments after interleukin-1 beta injections into the dorsal hippocampus. <i>Neuroscience</i> , 2007, 150, 754-763.	1.1	58
32	Characterization of the sickness response in young and aging rats following E. coli infection. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 450-454.	2.0	57
33	Evolution of the Human Diet and Its Impact on Gut Microbiota, Immune Responses, and Brain Health. <i>Nutrients</i> , 2021, 13, 196.	1.7	57
34	Glucocorticoids Mediate Short-Term High-Fat Diet Induction of Neuroinflammatory Priming, the NLRP3 Inflammasome, and the Danger Signal HMGB1. <i>ENeuro</i> , 2016, 3, ENEURO.0113-16.2016.	0.9	54
35	Diminished circadian rhythms in hippocampal microglia may contribute to age-related neuroinflammatory sensitization. <i>Neurobiology of Aging</i> , 2016, 47, 102-112.	1.5	54
36	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.	1.5	52

#	ARTICLE	IF	CITATIONS
37	Fatty food, fatty acids, and microglial priming in the adult and aged hippocampus and amygdala. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 145-158.	2.0	47
38	Memory impairments in healthy aging: Role of aging-induced microglial sensitization. , 2010, 1, 212-231.		44
39	Elevated Expression of MiR-17 in Microglia of Alzheimer's Disease Patients Abrogates Autophagy-Mediated Amyloid- $\beta$ Degradation. <i>Frontiers in Immunology</i> , 2021, 12, 705581.	2.2	34
40	Postoperative cognitive dysfunction is made persistent with morphine treatment in aged rats. <i>Neurobiology of Aging</i> , 2021, 98, 214-224.	1.5	33
41	Neuroimmunology of the female brain across the lifespan: Plasticity to psychopathology. <i>Brain, Behavior, and Immunity</i> , 2019, 79, 39-55.	2.0	29
42	Neonatal bacterial infection alters fever to live and simulated infections in adulthood. <i>Psychoneuroendocrinology</i> , 2010, 35, 369-381.	1.3	28
43	Identification of a novel inflammation-protective locus in the Fischer rat. <i>Mammalian Genome</i> , 1999, 10, 362-365.	1.0	27
44	Prior laparotomy or corticosterone potentiates lipopolysaccharide-induced fever and sickness behaviors. <i>Journal of Neuroimmunology</i> , 2011, 239, 53-60.	1.1	23
45	Voluntary exercise as an anti-neuroinflammatory therapeutic. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 1061-1062.	2.0	20
46	Reductions in Frontocortical Cytokine Levels are Associated with Long-Lasting Alterations in Reward Valuation after Methamphetamine. <i>Neuropsychopharmacology</i> , 2015, 40, 1234-1242.	2.8	18
47	IL-1RA injected intra-cisterna magna confers extended prophylaxis against lipopolysaccharide-induced neuroinflammatory and sickness responses. <i>Journal of Neuroimmunology</i> , 2012, 252, 33-39.	1.1	17
48	Lifestyle modifications with anti-neuroinflammatory benefits in the aging population. <i>Experimental Gerontology</i> , 2020, 142, 111144.	1.2	16
49	Experimental autoimmune encephalopathy (EAE)-induced hippocampal neuroinflammation and memory deficits are prevented with the non-opioid TLR2/TLR4 antagonist (+)-naltrexone. <i>Behavioural Brain Research</i> , 2021, 396, 112896.	1.2	16
50	The Perfect Cytokine Storm: How Peripheral Immune Challenges Impact Brain Plasticity & Memory Function in Aging. <i>Brain Plasticity</i> , 2021, 7, 47-60.	1.9	16
51	Dietary DHA prevents cognitive impairment and inflammatory gene expression in aged male rats fed a diet enriched with refined carbohydrates. <i>Brain, Behavior, and Immunity</i> , 2021, 98, 198-209.	2.0	15
52	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. <i>ENEURO</i> , 2018, 5, ENEURO.0009-18.2018.	0.9	15
53	IL-1 receptor type I gene expression in the amygdala of inflammatory susceptible Lewis and inflammatory resistant Fischer rats. <i>Journal of Neuroimmunology</i> , 2001, 121, 32-39.	1.1	13
54	Collapsin Response Mediator Proteins: Novel Targets for Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2020, 77, 949-960.	1.2	9

#	ARTICLE	IF	CITATIONS
55	Divergent effects of brain interleukin-1 $\beta$ in mediating fever, lethargy, anorexia and conditioned fear memory. <i>Behavioural Brain Research</i> , 2017, 324, 155-163.	1.2	8
56	The role of hepatic and splenic macrophages in E. coli-induced memory impairments in aged rats. <i>Brain, Behavior, and Immunity</i> , 2015, 43, 60-67.	2.0	7
57	Stable, long-term, spatial memory in young and aged rats achieved with a one day Morris water maze training protocol. <i>Learning and Memory</i> , 2016, 23, 699-702.	0.5	7
58	Exclusion of Angiotensin I-Converting Enzyme as a Candidate Gene Involved In Exudative Inflammatory Resistance in F344/N Rats. <i>Molecular Medicine</i> , 2000, 6, 319-331.	1.9	6
59	Mammary tumors suppress aging-induced neuroinflammation in female Balb/c mice. <i>Comprehensive Psychoneuroendocrinology</i> , 2020, 1-2, 100002.	0.7	4
60	The role of microglia in neurogenesis: exercise and aging as cofactors. <i>Future Neurology</i> , 2012, 7, 671-674.	0.9	0
61	Reply to the Letter to the Editor: Regional differences in dietary use of immune-modulating catechins should be investigated regarding COVID-19. <i>Brain, Behavior, and Immunity</i> , 2020, 89, 528.	2.0	0