Asya Rolls

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Infiltrating Blood-Derived Macrophages Are Vital Cells Playing an Anti-inflammatory Role in Recovery from Spinal Cord Injury in Mice. PLoS Medicine, 2009, 6, e1000113.	8.4	650
2	The bright side of the glial scar in CNS repair. Nature Reviews Neuroscience, 2009, 10, 235-241.	10.2	588
3	Toll-like receptors modulate adult hippocampal neurogenesis. Nature Cell Biology, 2007, 9, 1081-1088.	10.3	531
4	High-dimensional, single-cell characterization of the brain's immune compartment. Nature Neuroscience, 2017, 20, 1300-1309.	14.8	307
5	Two Faces of Chondroitin Sulfate Proteoglycan in Spinal Cord Repair: A Role in Microglia/Macrophage Activation. PLoS Medicine, 2008, 5, e171.	8.4	229
6	Dopamine, through the Extracellular Signal-Regulated Kinase Pathway, Downregulates CD4+CD25+ Regulatory T-Cell Activity: Implications for Neurodegeneration. Journal of Neuroscience, 2004, 24, 6133-6143.	3.6	176
7	Optogenetic disruption of sleep continuity impairs memory consolidation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13305-13310.	7.1	172
8	Activation of the reward system boosts innate and adaptive immunity. Nature Medicine, 2016, 22, 940-944.	30.7	168
9	Insular cortex neurons encode and retrieve specific immune responses. Cell, 2021, 184, 5902-5915.e17.	28.9	124
10	Neuronal regulation of immunity: why, how and where?. Nature Reviews Immunology, 2021, 21, 20-36.	22.7	100
11	Modulation of anti-tumor immunity by the brain's reward system. Nature Communications, 2018, 9, 2723.	12.8	99
12	A sulfated disaccharide derived from chondroitin sulfate proteoglycan protects against inflammationâ€associated neurodegeneration. FASEB Journal, 2006, 20, 547-549.	0.5	81
13	A disaccharide derived from chondroitin sulphate proteoglycan promotes central nervous system repair in rats and mice+. European Journal of Neuroscience, 2004, 20, 1973-1983.	2.6	67
14	Toll-like receptor 4 restricts retinal progenitor cell proliferation. Journal of Cell Biology, 2008, 183, 393-400.	5.2	67
15	Mass cytometry analysis of immune cells in the brain. Nature Protocols, 2018, 13, 377-391.	12.0	47
16	The neuroimmune response during stress: A physiological perspective. Immunity, 2021, 54, 1933-1947.	14.3	37
17	Sleep disruption impairs haematopoietic stem cell transplantation in mice. Nature Communications, 2015, 6, 8516.	12.8	34
18	Hypothalamic neuronal toll-like receptor 2 protects against age-induced obesity. Scientific Reports, 2013. 3, 1254.	3.3	33

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19	Sleep and metabolism: Role of hypothalamic neuronal circuitry. Best Practice and Research in Clinical Endocrinology and Metabolism, 2010, 24, 817-828.	4.7	29
20	Optogenetic activation of local colonic sympathetic innervations attenuates colitis by limiting immune cell extravasation. Immunity, 2021, 54, 1022-1036.e8.	14.3	26
21	Chondroitin Sulfate-Derived Disaccharide Protects Retinal Cells from Elevated Intraocular Pressure in Aged and Immunocompromised Rats. , 2007, 48, 1181.		23
22	Short-term sleep deprivation in mice induces B cell migration to the brain compartment. Sleep, 2020, 43, .	1.1	15
23	Hypothalamic Control of Sleep in Aging. NeuroMolecular Medicine, 2012, 14, 139-153.	3.4	14
24	Adaptive and pathological inhibition of neuroplasticity associated with circadian rhythms and sleep Behavioral Neuroscience, 2014, 128, 273-282.	1.2	13
25	Studying brain-regulation of immunity with optogenetics and chemogenetics; A new experimental platform. Brain, Behavior, and Immunity, 2017, 65, 1-8.	4.1	7
26	Chondroitin Sulfate Proteoglycan and its Degradation Products in CNS Repair. Advances in Pharmacology, 2006, 53, 357-374.	2.0	5
27	Application of Chemogenetics and Optogenetics to Dissect Brain-Immune Interactions. Methods in Molecular Biology, 2018, 1781, 195-208.	0.9	5
28	Collaboration in neuroscience: the young PI perspective. European Journal of Neuroscience, 2016, 43, 1123-1127.	2.6	2
29	Autoimmunity in neurodegeneration. Science, 2021, 374, 823-824.	12.6	2
30	Editorial overview: Brain, gut and immune system interactions. Current Opinion in Neurobiology, 2020, 62, iii-v.	4.2	1
31	Something Else to Stress about: Perinatal Stress Attenuates CD8+ T Cell Activity in Adults. Immunity, 2020, 52, 580-582.	14.3	1
32	Fragmented Sleep and Memory Consolidation. , 2015, , 263-270.		0
33	Toll-like receptor 4 restricts retinal progenitor cell proliferation. Journal of Experimental Medicine, 2008, 205, i26-i26.	8.5	0
34	Let Us Use the Brain to Heal. Frontiers for Young Minds, 0, 7, .	0.8	0