

Accurate quantification of astrocyte and neurotransmitter single-cell and population-level physiology

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Diving into new depths of astrocyte signaling. <i>Nature Neuroscience</i> , 2019, 22, 1749-1750.	14.8	2
2	A Role for Astroglial Calcium in Mammalian Sleep and Sleep Regulation. <i>Current Biology</i> , 2020, 30, 4373-4383.e7.	3.9	93
3	Astrocytes contribute to remote memory formation by modulating hippocampalâ€“cortical communication during learning. <i>Nature Neuroscience</i> , 2020, 23, 1229-1239.	14.8	167
4	Vasculo-Neuronal Coupling and Neurovascular Coupling at the Neurovascular Unit: Impact of Hypertension. <i>Frontiers in Physiology</i> , 2020, 11, 584135.	2.8	46
5	Making sense of astrocytic calcium signals â€” from acquisition to interpretation. <i>Nature Reviews Neuroscience</i> , 2020, 21, 551-564.	10.2	131
6	Live-imaging of astrocyte morphogenesis and function in zebrafish neural circuits. <i>Nature Neuroscience</i> , 2020, 23, 1297-1306.	14.8	90
7	Augmenting vascular disease diagnosis by vasculature-aware unsupervised learning. <i>Nature Machine Intelligence</i> , 2020, 2, 337-346.	16.0	13
8	No Longer Underappreciated: The Emerging Concept of Astrocyte Heterogeneity in Neuroscience. <i>Brain Sciences</i> , 2020, 10, 168.	2.3	64
9	Mapping astrocyte activity domains by light sheet imaging and spatio-temporal correlation screening. <i>NeuroImage</i> , 2020, 220, 117069.	4.2	14
10	Astrocytic Ca ²⁺ signaling is reduced during sleep and is involved in the regulation of slow wave sleep. <i>Nature Communications</i> , 2020, 11, 3240.	12.8	120
11	Microglia phagocytose myelin sheaths to modify developmental myelination. <i>Nature Neuroscience</i> , 2020, 23, 1055-1066.	14.8	179
12	Emerging technologies to study glial cells. <i>Glia</i> , 2020, 68, 1692-1728.	4.9	32
13	Astroglial Calcium Signaling Encodes Sleep Need in <i>Drosophila</i> . <i>Current Biology</i> , 2021, 31, 150-162.e7.	3.9	66
14	Non-canonical glutamate signaling in a genetic model of migraine with aura. <i>Neuron</i> , 2021, 109, 611-628.e8.	8.1	41
15	Deformable mirror-based axial scanning for two-photon mammalian brain imaging. <i>NeuroPhotonics</i> , 2021, 8, 015003.	3.3	5
17	Reactive astrocyte nomenclature, definitions, and future directions. <i>Nature Neuroscience</i> , 2021, 24, 312-325.	14.8	1,098
18	Astrocytes mediate migraine-related intracranial meningeal mechanical hypersensitivity. <i>Pain</i> , 2021, 162, 2386-2396.	4.2	13
20	Modeling of Astrocyte Networks: Toward Realistic Topology and Dynamics. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 645068.	3.7	21

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21	Cortical astrocytes independently regulate sleep depth and duration via separate GPCR pathways. <i>ELife</i> , 2021, 10, .	6.0	77
22	Extracting meaningful circuit-based calcium dynamics in astrocytes and neurons from adult mouse brain slices using single-photon GCaMP imaging. <i>STAR Protocols</i> , 2021, 2, 100306.	1.2	6
23	Tracking single cells in zebrafish brain. <i>Journal of Neuroscience Methods</i> , 2021, 353, 109086.	2.5	2
24	Imaging in vivo acetylcholine release in the peripheral nervous system with a fluorescent nanosensor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	9
25	Simulation of Astrocytic Calcium Dynamics in Lattice Light Sheet Microscopy Images. , 2021, , .		2
26	Local and CNS-Wide Astrocyte Intracellular Calcium Signaling Attenuation <i>In Vivo</i> with CalEx ^{flox} Mice. <i>Journal of Neuroscience</i> , 2021, 41, 4556-4574.	3.6	18
27	Begoniaâ€”A Two-Photon Imaging Analysis Pipeline for Astrocytic Ca ²⁺ Signals. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 681066.	3.7	15
28	Calcium Signals in Astrocyte Microdomains, a Decade of Great Advances. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 673433.	3.7	48
29	Analysing Intercellular Communication in Astrocytic Networks Using â€œAstralâ€•. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 689268.	3.7	7
30	Specific and behaviorally consequential astrocyte Gq GPCR signaling attenuation inÂvivo with i ² ARK. <i>Neuron</i> , 2021, 109, 2256-2274.e9.	8.1	47
31	Astrocytic IP3Rs: Beyond IP3R2. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 695817.	3.7	23
32	A common role for astrocytes in rhythmic behaviours?. <i>Progress in Neurobiology</i> , 2021, 202, 102052.	5.7	12
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35	Elucidating regulators of astrocytic Ca ²⁺ signaling via multiâ€”threshold event detection (<sc>MTED</sc>). <i>Glia</i> , 2021, 69, 2798-2811.	4.9	3
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43	TrpML-mediated astrocyte microdomain Ca ²⁺ transients regulate astrocyte–tracheal interactions. <i>ELife</i> , 2020, 9, .	6.0	12
49	Insights Into Central Nervous System Glial Cell Formation and Function From Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 754606.	3.7	5
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52	A sensitive GRAB sensor for detecting extracellular ATP in vitro and in vivo. <i>Neuron</i> , 2022, 110, 770-782.e5.	8.1	71
53	Hypothalamic Astrocytes Control Systemic Glucose Metabolism and Energy Balance via Regulation of Extra-Synaptic Glutamate Signaling. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
56	Photonics tools begin to clarify astrocyte calcium transients. <i>Neurophotonics</i> , 2022, 9, 021907.	3.3	8
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58	A Liquid Interfacial SERS Platform on a Nanoparticle Array Stabilized by Rigid Probes for the Quantification of Norepinephrine in Rat Brain Microdialysates. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	24
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73	Cholesterol-induced robust Ca oscillation in astrocytes required for survival and lipid droplet formation in high-cholesterol condition. <i>IScience</i> , 2022, 25, 105138.	4.1	3
74	Photochemical biosignaling with ruthenium complexes. <i>Advances in Inorganic Chemistry</i> , 2022, , .	1.0	1

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88	Astrocytes Transplanted during Early Postnatal Development Integrate, Mature, and Survive Long Term in Mouse Cortex. Journal of Neuroscience, 2023, 43, 1509-1529.	3.6	7
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