Maria K Lehtinen

List of Publications by Year
in descending order

51 papers	4,278 citations	236833 25 h-index	265120 42 g-index
57 all docs	57 docs citations	57 times ranked	6561 citing authors

#	Article	IF	Citations
1	A Conserved MST-FOXO Signaling Pathway Mediates Oxidative-Stress Responses and Extends Life Span. Cell, 2006, 125, 987-1001.	13.5	758
2	The Cerebrospinal Fluid Provides a Proliferative Niche for Neural Progenitor Cells. Neuron, 2011, 69, 893-905.	3.8	543
3	Development and functions of the choroid plexusâ€“cerebrospinal fluid system. Nature Reviews Neuroscience, 2015, 16, 445-457.	4.9	418
4	Somatic Activation of AKT3 Causes Hemispheric Developmental Brain Malformations. Neuron, 2012, 74, 41-48.	3.8	413
5	Neurogenesis at the Brainâ€“Cerebrospinal Fluid Interface. Annual Review of Cell and Developmental Biology, 2011, 27, 653-679.	4.0	175
6	Targeting Peripheral Somatosensory Neurons to Improve Tactile-Related Phenotypes in ASD Models. Cell, 2019, 178, 867-886.e24.	13.5	160
7	The Choroid Plexus and Cerebrospinal Fluid: Emerging Roles in Development, Disease, and Therapy. Journal of Neuroscience, 2013, 33, 17553-17559.	1.7	151
8	A cellular and spatial map of the choroid plexus across brain ventricles and ages. Cell, 2021, 184, 3056-3074.e21.	13.5	150
9	Spatially Heterogeneous Choroid Plexus Transcriptomes Encode Positional Identity and Contribute to Regional CSF Production. Journal of Neuroscience, 2015, 35, 4903-4916.	1.7	138
10	The cerebrospinal fluid: regulator of neurogenesis, behavior, and beyond. Cellular and Molecular Life Sciences, 2012, 69, 2863-2878.	2.4	135
11	Emergence and Developmental Roles of the Cerebrospinal Fluid System. Developmental Cell, 2020, 52, 261-275.	3.1	126
12	Sodium Channel SCN3A (NaV1.3) Regulation of Human Cerebral Cortical Folding and Oral Motor Development. Neuron, 2018, 99, 905-913.e7.	3.8	109
13	The Apical Complex Couples Cell Fate and Cell Survival to Cerebral Cortical Development. Neuron, 2010, 66, 69-84.	3.8	97
14	Proliferative and transcriptional identity of distinct classes of neural precursors in the mammalian olfactory epithelium. Development (Cambridge), 2010, 137, 2471-2481.	1.2	85
15	The ESCRT-III Protein CHMP1A Mediates Secretion of Sonic Hedgehog on a Distinctive Subtype of Extracellular Vesicles. Cell Reports, 2018, 24, 973-986.e8.	2.9	79
16	Progressive Differentiation and Instructive Capacities of Amniotic Fluid and Cerebrospinal Fluid Proteomes following Neural Tube Closure. Developmental Cell, 2015, 35, 789-802.	3.1	77
17	Downregulation of ribosome biogenesis during early forebrain development. ELife, 2018, 7, .	2.8	72
18	Choroid plexus NKCC1 mediates cerebrospinal fluid clearance during mouse early postnatal development. Nature Communications, 2021, 12, 447.	5.8	67

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19	Sonic Hedgehog promotes proliferation of Notch-dependent monociliated choroid plexus tumourÂcells. Nature Cell Biology, 2016, 18, 418-430.	4.6	59
20	Inflammation of the Embryonic Choroid Plexus Barrier following Maternal Immune Activation. Developmental Cell, 2020, 55, 617-628.e6.	3.1	57
21	Tracking Calcium Dynamics and Immune Surveillance at the Choroid Plexus Blood-Cerebrospinal Fluid Interface. Neuron, 2020, 108, 623-639.e10.	3.8	56
22	Unverrichtâ€Lundborg disease. Epileptic Disorders, 2016, 18, 28-37.	0.7	46
23	Retrograde fibroblast growth factor 22 (FGF22) signaling regulates insulin-like growth factor 2 (IGF2) expression for activity-dependent synapse stabilization in the mammalian brain. ELife, 2016, 5, .	2.8	37
24	Macrophages on the margin: choroid plexus immune responses. Trends in Neurosciences, 2021, 44, 864-875.	4.2	37
25	Zebrafish cerebrospinal fluid mediates cell survival through a retinoid signaling pathway. Developmental Neurobiology, 2016, 76, 75-92.	1.5	33
26	Enlargement of choroid plexus in complex regional pain syndrome. Scientific Reports, 2015, 5, 14329.	1.6	26
27	Concerted metabolic shift in early forebrain alters the CSF proteome and depends on cMYC downregulation for mitochondrial maturation. Development (Cambridge), 2019, 146, .	1.2	25
28	ZNHIT3 is defective in PEHO syndrome, a severe encephalopathy with cerebellar granule neuron loss. Brain, 2017, 140, 1267-1279.	3.7	23
29	Experimental approaches for manipulating choroid plexus epithelial cells. Fluids and Barriers of the CNS, 2022, 19, .	2.4	17
30	Mice Expressing Myc in Neural Precursors Develop Choroid Plexus and Ciliary Body Tumors. American Journal of Pathology, 2018, 188, 1334-1344.	1.9	16
31	MEIS-WNT5A axis regulates development of fourth ventricle choroid plexus. Development (Cambridge), 2021, 148, .	1.2	13
32	Isolation of Cerebrospinal Fluid from Rodent Embryos for use with Dissected Cerebral Cortical Explants. Journal of Visualized Experiments, 2013, , e50333.	0.2	12
33	Comment on â€œMultiple repressive mechanisms in the hippocampus during memory formationâ€• Science, 2016, 353, 453-453.	6.0	12
34	Mitochondria in Early Forebrain Development: From Neurulation to Mid-Corticogenesis. Frontiers in Cell and Developmental Biology, 2021, 9, 780207.	1.8	10
35	Disruption of GMNC-MCIDAS multiciliogenesis program is critical in choroid plexus carcinoma development. Cell Death and Differentiation, 2022, 29, 1596-1610.	5.0	7
36	CSF Makes Waves in the Neural Stem Cell Niche. Cell Stem Cell, 2016, 19, 565-566.	5.2	5

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37	Sister, Sister: Ependymal Cells and Adult Neural Stem Cells Are Separated at Birth by Geminin Family Members. Neuron, 2019, 102, 278-279.	3.8	3
38	Choroid Plexus Organoids: Harnessing CSF Gatekeepers for Brain Therapeutics. Cell Stem Cell, 2020, 27, 191-192.	5.2	3
39	Adult Neurogenesis: VCAM Stems the Tide. Cell Stem Cell, 2012, 11, 137-138.	5.2	2
40	Spatiotemporal Gradient of Cortical Neuron Death Contributes to Microcephaly in Knock-In Mouse Model of Ligase 4 Syndrome. American Journal of Pathology, 2019, 189, 2440-2449.	1.9	2
41	Young cerebrospinal fluid improves memory in old mice. Nature, 2022, 605, 428-429.	13.7	2
42	Cerebrospinal Fluid Magnetic Resonance Imaging: Improving Early Diagnosis of Autism and Other Neurodevelopmental Conditions. Biological Psychiatry: Cognitive Neuroscience and Neuroimaging, 2020, 5, 635-637.	1.1	1
43	Epilepsy clocks in. Science Translational Medicine, 2017, 9, .	5.8	1
44	The brainâ€™s matchmakers. Science Translational Medicine, 2017, 9, .	5.8	0
45	Filtering more than light in the developing retina. Science Translational Medicine, 2017, 9, .	5.8	0
46	Say good night to your pain. Science Translational Medicine, 2017, 9, .	5.8	0
47	Shining new light on migraine. Science Translational Medicine, 2017, 9, .	5.8	0
48	Cellular eyelashes help striatal neurons hook up. Science Translational Medicine, 2017, 9, .	5.8	0
49	Going with your gut in multiple sclerosis. Science Translational Medicine, 2017, 9, .	5.8	0
50	Adolescent obesity thwarts lifelong sleep. Science Translational Medicine, 2018, 10, .	5.8	0
51	Regulation of brain development by the choroid plexus and cerebrospinal fluid. FASEB Journal, 2019, 33, 208.1.	0.2	0