

Charlotte Kilstrup-Nielsen

List of Publications by Citations

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37
papers

1,468
citations

21
h-index

38
g-index

39
ext. papers

1,745
ext. citations

6
avg, IF

3.88
L-index

#	Paper	IF	Citations
37	CDKL5 belongs to the same molecular pathway of MeCP2 and it is responsible for the early-onset seizure variant of Rett syndrome. <i>Human Molecular Genetics</i> , 2005 , 14, 1935-46	5.6	248
36	CDKL5 ensures excitatory synapse stability by reinforcing NGL-1-PSD95 interaction in the postsynaptic compartment and is impaired in patient iPSC-derived neurons. <i>Nature Cell Biology</i> , 2012 , 14, 911-23	23.4	181
35	CDKL5 expression is modulated during neuronal development and its subcellular distribution is tightly regulated by the C-terminal tail. <i>Journal of Biological Chemistry</i> , 2008 , 283, 30101-11	5.4	111
34	Functional consequences of mutations in CDKL5, an X-linked gene involved in infantile spasms and mental retardation. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32048-56	5.4	96
33	MeCP2 post-translational modifications: a mechanism to control its involvement in synaptic plasticity and homeostasis?. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 236	6.1	64
32	What we know and would like to know about CDKL5 and its involvement in epileptic encephalopathy. <i>Neural Plasticity</i> , 2012 , 2012, 728267	3.3	63
31	Methyl-CpG-binding protein 2 is phosphorylated by homeodomain-interacting protein kinase 2 and contributes to apoptosis. <i>EMBO Reports</i> , 2009 , 10, 1327-33	6.5	54
30	PBX1 nuclear export is regulated independently of PBX-MEINOX interaction by PKA phosphorylation of the PBC-B domain. <i>EMBO Journal</i> , 2003 , 22, 89-99	13	48
29	Defects During Mecp2 Null Embryonic Cortex Development Precede the Onset of Overt Neurological Symptoms. <i>Cerebral Cortex</i> , 2016 , 26, 2517-2529	5.1	47
28	CDKL5 influences RNA splicing activity by its association to the nuclear speckle molecular machinery. <i>Human Molecular Genetics</i> , 2009 , 18, 4590-602	5.6	44
27	Rett syndrome and the urge of novel approaches to study MeCP2 functions and mechanisms of action. <i>Neuroscience and Biobehavioral Reviews</i> , 2014 , 46 Pt 2, 187-201	9	39
26	The MeCP2/YY1 interaction regulates ANT1 expression at 4q35: novel hints for Rett syndrome pathogenesis. <i>Human Molecular Genetics</i> , 2010 , 19, 3114-23	5.6	39
25	A novel transcript of cyclin-dependent kinase-like 5 (CDKL5) has an alternative C-terminus and is the predominant transcript in brain. <i>Human Genetics</i> , 2012 , 131, 187-200	6.3	38
24	Characterisation of CDKL5 Transcript Isoforms in Human and Mouse. <i>PLoS ONE</i> , 2016 , 11, e0157758	3.7	35
23	Cannabidiol completely rescues cognitive deficits and delays neurological and motor defects in male mutant mice. <i>Journal of Psychopharmacology</i> , 2019 , 33, 894-907	4.6	31
22	Retinoic acid receptor alpha fusion to PML affects its transcriptional and chromatin-remodeling properties. <i>Molecular and Cellular Biology</i> , 2003 , 23, 8795-808	4.8	31
21	CDKL5 and Shootin1 Interact and Concur in Regulating Neuronal Polarization. <i>PLoS ONE</i> , 2016 , 11, e0148634	3.6	26

20	MeCP2 Affects Skeletal Muscle Growth and Morphology through Non Cell-Autonomous Mechanisms. <i>PLoS ONE</i> , 2015 , 10, e0130183	3.7	22
19	Rescue of prepulse inhibition deficit and brain mitochondrial dysfunction by pharmacological stimulation of the central serotonin receptor 7 in a mouse model of CDKL5 Deficiency Disorder. <i>Neuropharmacology</i> , 2019 , 144, 104-114	5.5	22
18	Extrasynaptic N-methyl-D-aspartate (NMDA) receptor stimulation induces cytoplasmic translocation of the CDKL5 kinase and its proteasomal degradation. <i>Journal of Biological Chemistry</i> , 2011 , 286, 36550-8	5.4	21
17	Spatio-temporal dynamics and localization of MeCP2 and pathological mutants in living cells. <i>Epigenetics</i> , 2007 , 2, 187-97	5.7	21
16	Synaptic synthesis, dephosphorylation, and degradation: a novel paradigm for an activity-dependent neuronal control of CDKL5. <i>Journal of Biological Chemistry</i> , 2015 , 290, 4512-27	5.4	20
15	The antidepressant tianeptine reverts synaptic AMPA receptor defects caused by deficiency of CDKL5. <i>Human Molecular Genetics</i> , 2018 , 27, 2052-2063	5.6	18
14	The neurosteroid pregnenolone reverts microtubule derangement induced by the loss of a functional CDKL5-IQGAP1 complex. <i>Human Molecular Genetics</i> , 2017 , 26, 3520-3530	5.6	18
13	MeCP2 Related Studies Benefit from the Use of CD1 as Genetic Background. <i>PLoS ONE</i> , 2016 , 11, e0153473	5.7	18
12	Methyl-CpG binding protein 2 (MeCP2) localizes at the centrosome and is required for proper mitotic spindle organization. <i>Journal of Biological Chemistry</i> , 2015 , 290, 3223-37	5.4	17
11	Brain phosphorylation of MeCP2 at serine 164 is developmentally regulated and globally alters its chromatin association. <i>Scientific Reports</i> , 2016 , 6, 28295	4.9	16
10	A novel protein, Xenopus p20, influences the stability of MeCP2 through direct interaction. <i>Journal of Biological Chemistry</i> , 2004 , 279, 25623-31	5.4	15
9	CDKL5 localizes at the centrosome and midbody and is required for faithful cell division. <i>Scientific Reports</i> , 2017 , 7, 6228	4.9	14
8	A Novel Mecp2 Knock-in Model Displays Similar Behavioral Traits But Distinct Molecular Features Compared to the Mecp2-Null Mouse Implying Precision Medicine for the Treatment of Rett Syndrome. <i>Molecular Neurobiology</i> , 2019 , 56, 4838-4854	6.2	14
7	The green tea polyphenol epigallocatechin-3-gallate (EGCG) restores CDKL5-dependent synaptic defects in vitro and in vivo. <i>Neurobiology of Disease</i> , 2020 , 138, 104791	7.5	11
6	MECP2 mutations affect ciliogenesis: a novel perspective for Rett syndrome and related disorders. <i>EMBO Molecular Medicine</i> , 2020 , 12, e10270	12	8
5	Pregnenolone and pregnenolone-methyl-ether rescue neuronal defects caused by dysfunctional CLIP170 in a neuronal model of CDKL5 Deficiency Disorder. <i>Neuropharmacology</i> , 2020 , 164, 107897	5.5	8
4	Functional Consequences of Mutations in CDKL5, an X-linked Gene Involved in Infantile Spasms and Mental Retardation. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32048-32056	5.4	5
3	Microtubules: A Key to Understand and Correct Neuronal Defects in CDKL5 Deficiency Disorder?. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	3

2	Genetics and mechanisms of disease in Rett syndrome. <i>Drug Discovery Today Disease Mechanisms</i> , 2005 , 2, 419-425		1
1	Therapeutic potential of pregnenolone and pregnenolone methyl ether on depressive and CDKL5 deficiency disorders: Focus on microtubule targeting. <i>Journal of Neuroendocrinology</i> , 2021 , e13033	3.8	1