FrÃ©dÃ©ric Saudou

List of Publications by Year
in descending order

108 papers	16,738 citations	24978 57 h-index	23472 111 g-index
125 all docs	125 docs citations	125 times ranked	14870 citing authors

#	Article	IF	Citations
1	Huntingtin Acts in the Nucleus to Induce Apoptosis but Death Does Not Correlate with the Formation of Intranuclear Inclusions. Cell, 1998, 95, 55-66.	13.5	1,501
2	Huntingtin Controls Neurotrophic Support and Survival of Neurons by Enhancing BDNF Vesicular Transport along Microtubules. Cell, 2004, 118, 127-138.	13.5	1,004
3	Cloning of the gene for spinocerebellar ataxia 2 reveals a locus with high sensitivity to expanded CAG/glutamine repeats. Nature Genetics, 1996, 14, 285-291.	9.4	857
4	Enhanced aggressive behavior in mice lacking 5-HT1B receptor. Science, 1994, 265, 1875-1878.	6.0	806
5	Cloning of the SCA7 gene reveals a highly unstable CAG repeat expansion. Nature Genetics, 1997, 17, 65-70.	9.4	758
6	The Biology of Huntingtin. Neuron, 2016, 89, 910-926.	3.8	719
7	Histone Deacetylase 6 Inhibition Compensates for the Transport Deficit in Huntington's Disease by Increasing Tubulin Acetylation. Journal of Neuroscience, 2007, 27, 3571-3583.	1.7	691
8	Polyglutamine expansion as a pathological epitope in Huntington's disease and four dominant cerebellar ataxias. Nature, 1995, 378, 403-406.	13.7	632
9	The IGF-1/Akt Pathway Is Neuroprotective in Huntington's Disease and Involves Huntingtin Phosphorylation by Akt. Developmental Cell, 2002, 2, 831-837.	3.1	452
10	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	21.5	441
11	Cellular localization of the Huntington's disease protein and discrimination of the normal and mutated form. Nature Genetics, 1995, 10, 104-110.	9.4	431
12	Vesicular Glycolysis Provides On-Board Energy for Fast Axonal Transport. Cell, 2013, 152, 479-491.	13.5	422
13	p35 and p39 Are Essential for Cyclin-Dependent Kinase 5 Function during Neurodevelopment. Journal of Neuroscience, 2001, 21, 6758-6771.	1.7	361
14	Huntingtin phosphorylation acts as a molecular switch for anterograde/retrograde transport in neurons. EMBO Journal, 2008, 27, 2124-2134.	3.5	300
15	Molecular and Clinical Correlations in Spinocerebellar Ataxia 2: A Study of 32 Families. Human Molecular Genetics, 1997, 6, 709-715.	1.4	270
16	Huntingtin Is Required for Mitotic Spindle Orientation and Mammalian Neurogenesis. Neuron, 2010, 67, 392-406.	3.8	240
17	Potential function for the Huntingtin protein as a scaffold for selective autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16889-16894.	3.3	236
18	Delivery of GABAARs to Synapses Is Mediated by HAP1-KIF5 and Disrupted by Mutant Huntingtin. Neuron, 2010, 65, 53-65.	3.8	225

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19	Fos Family Members Induce Cell Cycle Entry by Activating Cyclin D1. Molecular and Cellular Biology, 1998, 18, 5609-5619.	1.1	221
20	Involvement of Mitochondrial Complex II Defects in Neuronal Death Produced by N-Terminus Fragment of Mutated Huntingtin. Molecular Biology of the Cell, 2006, 17, 1652-1663.	0.9	217
21	Mouse 5HT1B serotonin receptor: cloning, functional expression, and localization in motor control centers.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 3020-3024.	3.3	214
22	Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HSJ1b and transglutaminase. Journal of Clinical Investigation, 2006, 116, 1410-1424.	3.9	211
23	Huntingtonâ€™s disease alters human neurodevelopment. Science, 2020, 369, 787-793.	6.0	195
24	Gpr158 mediates osteocalcinâ€™s regulation of cognition. Journal of Experimental Medicine, 2017, 214, 2859-2873.	4.2	194
25	Huntingtonâ€™s disease: from huntingtin function and dysfunction to therapeutic strategies. Cellular and Molecular Life Sciences, 2006, 63, 2642-2660.	2.4	190
26	5-HT1B receptor knock out â€” behavioral consequences. Behavioural Brain Research, 1995, 73, 305-312.	1.2	179
27	Identifying polyglutamine protein species in situ that best predict neurodegeneration. Nature Chemical Biology, 2011, 7, 925-934.	3.9	178
28	5-Hydroxytryptamine receptor subtypes in vertebrates and invertebrates. Neurochemistry International, 1994, 25, 503-532.	1.9	175
29	Reconstituting Corticostriatal Network on-a-Chip Reveals the Contribution of the Presynaptic Compartment to Huntingtonâ€™s Disease. Cell Reports, 2018, 22, 110-122.	2.9	171
30	Akt is altered in an animal model of Huntington's disease and in patients. European Journal of Neuroscience, 2005, 21, 1478-1488.	1.2	156
31	Mutant Huntingtin Alters Retrograde Transport of TrkB Receptors in Striatal Dendrites. Journal of Neuroscience, 2013, 33, 6298-6309.	1.7	155
32	Local cholesterol increase triggers amyloid precursor proteinâ€Bacel clustering in lipid rafts and rapid endocytosis. FASEB Journal, 2011, 25, 1295-1305.	0.2	153
33	Absence of Fenfluramine-Induced Anorexia and Reduced c-fos Induction in the Hypothalamus and Central Amygdaloid Complex of Serotonin 1B Receptor Knock-Out Mice. Journal of Neuroscience, 1998, 18, 5537-5544.	1.7	149
34	Phosphorylation of mutant huntingtin at S421 restores anterograde and retrograde transport in neurons. Human Molecular Genetics, 2008, 17, 3837-3846.	1.4	138
35	Ciliogenesis is regulated by a huntingtin-HAP1-PCM1 pathway and is altered in Huntington disease. Journal of Clinical Investigation, 2011, 121, 4372-4382.	3.9	127
36	The serum- and glucocorticoid-induced kinase SGK inhibits mutant huntingtin-induced toxicity by phosphorylating serineâ€ƒ421 of huntingtin. European Journal of Neuroscience, 2004, 19, 273-279.	1.2	122

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37	Inhibition of Calcineurin by FK506 Protects against Polyglutamine-Huntingtin Toxicity through an Increase of Huntingtin Phosphorylation at S421. Journal of Neuroscience, 2006, 26, 1635-1645.	1.7	121
38	Phosphorylation of Huntingtin by Cyclin-Dependent Kinase 5 Is Induced by DNA Damage and Regulates Wild-Type and Mutant Huntingtin Toxicity in Neurons. Journal of Neuroscience, 2007, 27, 7318-7328.	1.7	117
39	In Vivo Calpain/Caspase Cross-talk during 3-Nitropropionic Acid-induced Striatal Degeneration. Journal of Biological Chemistry, 2003, 278, 43245-43253.	1.6	116
40	Mutant huntingtin-impaired degradation of Î²-catenin causes neurotoxicity in Huntington's disease. EMBO Journal, 2010, 29, 2433-2445.	3.5	108
41	Pathophysiology of HuntingtonÊ¼s disease: from huntingtin functions to potential treatments. Current Opinion in Neurology, 2008, 24, 497-503.	1.8	107
42	Huntingtin proteolysis releases nonâ€polyQ fragments that cause toxicity through dynamin 1 dysregulation. EMBO Journal, 2015, 34, 2255-2271.	3.5	79
43	Self-propelling vesicles define glycolysis as the minimal energy machinery for neuronal transport. Nature Communications, 2016, 7, 13233.	5.8	78
44	Mitogenâ€•and stressâ€activated protein kinaseâ€1 deficiency is involved in expandedâ€huntingtinâ€induced transcriptional dysregulation and striatal death. FASEB Journal, 2008, 22, 1083-1093.	0.2	77
45	Altered cholesterol homeostasis contributes to enhanced excitotoxicity in Huntingtonâ€™s disease. Journal of Neurochemistry, 2010, 115, 153-167.	2.1	76
46	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimerâ€™s disease early phenotypes. Molecular Neurodegeneration, 2014, 9, 60.	4.4	76
47	5-Hydroxytryptamine Receptor Subtypes: Molecular and Functional Diversity. Advances in Pharmacology, 1994, 30, 327-380.	1.2	74
48	CYP46A1 gene therapy deciphers the role of brain cholesterol metabolism in Huntingtonâ€™s disease. Brain, 2019, 142, 2432-2450.	3.7	71
49	Cdc42-interacting protein 4 binds to huntingtin: Neuropathologic and biological evidence for a role in Huntington's disease. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2712-2717.	3.3	69
50	Mood disorders in Huntington's disease: from behavior to cellular and molecular mechanisms. Frontiers in Behavioral Neuroscience, 2014, 8, 135.	1.0	69
51	Huntingtin-Mediated Multipolar-Bipolar Transition of Newborn Cortical Neurons Is Critical for Their Postnatal Neuronal Morphology. Neuron, 2017, 93, 99-114.	3.8	69
52	Modification of Mecp2 dosage alters axonal transport through the Huntingtin/Hap1 pathway. Neurobiology of Disease, 2012, 45, 786-795.	2.1	68
53	An integrated microfluidic/microelectrode array for the study of activity-dependent intracellular dynamics in neuronal networks. Lab on A Chip, 2018, 18, 3425-3435.	3.1	68
54	Releasing the brake: restoring fast axonal transport in neurodegenerative disorders. Trends in Cell Biology, 2013, 23, 634-643.	3.6	66

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55	Mutant Huntingtin Affects Cortical Progenitor Cell Division and Development of the Mouse Neocortex. Journal of Neuroscience, 2014, 34, 10034-10040.	1.7	66
56	Activation of IGF-1 and Insulin Signaling Pathways Ameliorate Mitochondrial Function and Energy Metabolism in Huntingtonâ€™s Disease Human Lymphoblasts. Molecular Neurobiology, 2015, 51, 331-348.	1.9	66
57	Screening for proteins with polyglutamine expansions in autosomal dominant cerebellar ataxias. Human Molecular Genetics, 1996, 5, 1887-1892.	1.4	63
58	Genetic and pharmacological inhibition of calcineurin corrects the BDNF transport defect in Huntington's disease. Molecular Brain, 2009, 2, 33.	1.3	62
59	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntingtonâ€™s disease models. Nature Communications, 2018, 9, 4272.	5.8	62
60	IGF-1 Intranasal Administration Rescues Huntington's Disease Phenotypes in YAC128 Mice. Molecular Neurobiology, 2014, 49, 1126-1142.	1.9	60
61	Huntington's disease knock-in male mice show specific anxiety-like behaviour and altered neuronal maturation. Neuroscience Letters, 2012, 507, 127-132.	1.0	56
62	Elongator â€“ an emerging role in neurological disorders. Trends in Molecular Medicine, 2010, 16, 1-6.	3.5	52
63	Huntingtin: Here, There, Everywhere!. Journal of Huntington's Disease, 2013, 2, 395-403.	0.9	49
64	Differential distribution of the normal and mutated forms of huntingtin in the human brain. Annals of Neurology, 1997, 42, 712-719.	2.8	48
65	pARIS-htt: an optimised expression platform to study huntingtin reveals functional domains required for vesicular trafficking. Molecular Brain, 2010, 3, 17.	1.3	48
66	Neuronal network maturation differently affects secretory vesicles and mitochondria transport in axons. Scientific Reports, 2018, 8, 13429.	1.6	48
67	Huntingtinâ€™s Function in Axonal Transport Is Conserved in Drosophila melanogaster. PLoS ONE, 2013, 8, e60162.	1.1	47
68	Phosphorylation of Arfaptin 2 at Ser260 by Akt Inhibits PolyQ-huntingtin-induced Toxicity by Rescuing Proteasome Impairment. Journal of Biological Chemistry, 2005, 280, 22021-22028.	1.6	45
69	Allele-Specific Silencing of Mutant Huntingtin in Rodent Brain and Human Stem Cells. PLoS ONE, 2014, 9, e99341.	1.1	45
70	Huntingtin Regulates Mammary Stem Cell Division and Differentiation. Stem Cell Reports, 2014, 2, 491-506.	2.3	44
71	Serine 421 regulates mutant huntingtin toxicity and clearance in mice. Journal of Clinical Investigation, 2016, 126, 3585-3597.	3.9	44
72	ATAT1-enriched vesicles promote microtubule acetylation via axonal transport. Science Advances, 2019, 5, eaax2705.	4.7	42

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73	Increasing brain palmitoylation rescues behavior and neuropathology in Huntington disease mice. Science Advances, 2021, 7, .	4.7	42
74	Propensity for somatic expansion increases over the course of life in Huntington disease. ELife, 2021, 10, .	2.8	42
75	Huntingtin Mediates Anxiety/Depression-Related Behaviors and Hippocampal Neurogenesis. Journal of Neuroscience, 2013, 33, 8608-8620.	1.7	39
76	Mutations in the KIF21B kinesin gene cause neurodevelopmental disorders through imbalanced canonical motor activity. Nature Communications, 2020, 11, 2441.	5.8	37
77	Huntingtin Is Required for Epithelial Polarity through RAB11A-Mediated Apical Trafficking of PAR3-aPKC. PLoS Biology, 2015, 13, e1002142.	2.6	35
78	Traffic signaling: new functions of huntingtin and axonal transport in neurological disease. Current Opinion in Neurobiology, 2020, 63, 122-130.	2.0	35
79	The Huntington disease protein accelerates breast tumour development and metastasis through ErbB2/HER2 signalling. EMBO Molecular Medicine, 2013, 5, 309-325.	3.3	34
80	Unraveling the Role of Huntingtin in Breast Cancer Metastasis. Journal of the National Cancer Institute, 2015, 107, djv208.	3.0	32
81	A randomized, double-blind, placebo-controlled trial evaluating cysteamine in Huntington's disease. Movement Disorders, 2017, 32, 932-936.	2.2	31
82	Serotonin transporter oligomerization documented in RN46A cells and neurons by sensitized acceptor emission FRET and fluorescence lifetime imaging microscopy. Biochemical and Biophysical Research Communications, 2009, 380, 724-728.	1.0	25
83	Is Huntington disease a developmental disorder?. EMBO Reports, 2010, 11, 899-899.	2.0	25
84	Mitotic spindle: Focus on the function of huntingtin. International Journal of Biochemistry and Cell Biology, 2011, 43, 852-856.	1.2	25
85	Axonal transport failure in neurodegenerative disorders: the case of Huntingtonâ€™s disease. Pathologie Et Biologie, 2005, 53, 189-192.	2.2	23
86	The striatal kinase DCLK3 produces neuroprotection against mutant huntingtin. Brain, 2018, 141, 1434-1454.	3.7	23
87	The Arp1/11 minifilament of dynactin primes the endosomal Arp2/3 complex. Science Advances, 2021, 7, .	4.7	23
88	Dominant-Negative Effects of Adult-Onset Huntingtin Mutations Alter the Division of Human Embryonic Stem Cells-Derived Neural Cells. PLoS ONE, 2016, 11, e0148680.	1.1	22
89	Chronic Corticosterone Elevation Suppresses Adult Hippocampal Neurogenesis by Hyperphosphorylating Huntingtin. Cell Reports, 2020, 32, 107865.	2.9	22
90	Huntingtin phosphorylation governs <scp>BDNF</scp> homeostasis and improves the phenotype of Mecp2 knockout mice. EMBO Molecular Medicine, 2020, 12, e10889.	3.3	22

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91	Low cancer prevalence in polyglutamine expansion diseases. Neurology, 2017, 88, 1114-1119.	1.5	21
92	Presynaptic APP levels and synaptic homeostasis are regulated by Akt phosphorylation of huntingtin. ELife, 2020, 9, .	2.8	21
93	Developmental defects in Huntingtonâ€™s disease show that axonal growth and microtubule reorganization require NUMA1. Neuron, 2022, 110, 36-50.e5.	3.8	21
94	Huntingtonâ€™s disease: how does huntingtin, an anti-apoptotic protein, become toxic?. Pathologie Et Biologie, 2004, 52, 338-342.	2.2	20
95	Huntingtin-mediated axonal transport requires arginine methylation by PRMT6. Cell Reports, 2021, 35, 108980.	2.9	20
96	Cancer: From Wild-Type to Mutant Huntingtin. Journal of Huntington's Disease, 2018, 7, 201-208.	0.9	19
97	Huntingtin Acts Non Cell-Autonomously on Hippocampal Neurogenesis and Controls Anxiety-Related Behaviors in Adult Mouse. PLoS ONE, 2013, 8, e73902.	1.1	17
98	Calcineurin and huntingtin form a calcium-sensing machinery that directs neurotrophic signals to the nucleus. Science Advances, 2022, 8, eabj8812.	4.7	16
99	Toward Cell Specificity in SCA1. Neuron, 2002, 34, 669-670.	3.8	13
100	Huntingtin phosphorylation and signaling pathways that regulate toxicity in Huntington's disease. Clinical Neuroscience Research, 2003, 3, 149-155.	0.8	12
101	ATP-citrate lyase promotes axonal transport across species. Nature Communications, 2021, 12, 5878.	5.8	11
102	The Ataxia-ome: Connecting Disease Proteins of the Cerebellum. Cell, 2006, 125, 645-647.	13.5	10
103	Recreating mouse cortico-hippocampal neuronal circuit in microfluidic devices to study BDNF axonal transport upon glucocorticoid treatment. STAR Protocols, 2021, 2, 100382.	0.5	9
104	The biology of Huntington's disease. Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn, 2008, 89, 619-629.	1.0	3
105	A â€œso ciliaâ€•network: cilia proteins start â€œsocialâ€•networking. Journal of Clinical Investigation, 2012, 122, 1198-1201.	3.9	2
106	Huntingtin-Mediated Axonal Transport Requires Arginine Methylation by PRMT6. SSRN Electronic Journal, 0, , .	0.4	2
107	Regulation of sensorimotor gating via Disc1/Huntingtin-mediated Bdnf transport in the cortico-striatal circuit. Molecular Psychiatry, 2022, , .	4.1	1
108	Regulation | Metabolite Channeling in Energy Metabolism. , 2021, , 592-598.		0