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	Developmental defects in Huntingtonâ€™s disease show that axonal growth and microtubule reorganization require NUMA1. Neuron, 2022, 110, 36-50.e5.	3.8	21
2	Calcineurin and huntingtin form a calcium-sensing machinery that directs neurotrophic signals to the nucleus. Science Advances, 2022, 8, eabj8812.	4.7	16
3	Regulation of sensorimotor gating via Disc1/Huntingtin-mediated Bdnf transport in the cortico-striatal circuit. Molecular Psychiatry, 2022, , .	4.1	1
4	The Arp1/11 minifilament of dynactin primes the endosomal Arp2/3 complex. Science Advances, 2021, 7, .	4.7	23
5	Increasing brain palmitoylation rescues behavior and neuropathology in Huntington disease mice. Science Advances, 2021, 7, .	4.7	42
6	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
7	Huntingtin-mediated axonal transport requires arginine methylation by PRMT6. Cell Reports, 2021, 35, 108980.	2.9	20
8	Propensity for somatic expansion increases over the course of life in Huntington disease. ELife, 2021, 10, .	2.8	42
9	Regulation | Metabolite Channeling in Energy Metabolism. , 2021, , 592-598.		0
10	ATP-citrate lyase promotes axonal transport across species. Nature Communications, 2021, 12, 5878.	5.8	11
11	Chronic Corticosterone Elevation Suppresses Adult Hippocampal Neurogenesis by Hyperphosphorylating Huntingtin. Cell Reports, 2020, 32, 107865.	2.9	22
12	Huntingtonâ€™s disease alters human neurodevelopment. Science, 2020, 369, 787-793.	6.0	195
13	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. Nature Reviews Drug Discovery, 2020, 19, 609-633.	21.5	441
14	Traffic signaling: new functions of huntingtin and axonal transport in neurological disease. Current Opinion in Neurobiology, 2020, 63, 122-130.	2.0	35
15	Mutations in the KIF21B kinesin gene cause neurodevelopmental disorders through imbalanced canonical motor activity. Nature Communications, 2020, 11, 2441.	5.8	37
16	Huntingtin phosphorylation governs <scp>BDNF</scp> homeostasis and improves the phenotype of Mecp2 knockout mice. EMBO Molecular Medicine, 2020, 12, e10889.	3.3	22
17	Presynaptic APP levels and synaptic homeostasis are regulated by Akt phosphorylation of huntingtin. ELife, 2020, 9, .	2.8	21
18	CYP46A1 gene therapy deciphers the role of brain cholesterol metabolism in Huntingtonâ€™s disease. Brain, 2019, 142, 2432-2450.	3.7	71

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19	ATAT1-enriched vesicles promote microtubule acetylation via axonal transport. Science Advances, 2019, 5, eaax2705.	4.7	42
20	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
21	The striatal kinase DCLK3 produces neuroprotection against mutant huntingtin. Brain, 2018, 141, 1434-1454.	3.7	23
22	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
23	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntingtonâ€™s disease models. Nature Communications, 2018, 9, 4272.	5.8	62
24	Neuronal network maturation differently affects secretory vesicles and mitochondria transport in axons. Scientific Reports, 2018, 8, 13429.	1.6	48
25	Cancer: From Wild-Type to Mutant Huntingtin. Journal of Huntington's Disease, 2018, 7, 201-208.	0.9	19
26	Low cancer prevalence in polyglutamine expansion diseases. Neurology, 2017, 88, 1114-1119.	1.5	21
27	A randomized, double-blind, placebo-controlled trial evaluating cysteamine in Huntington's disease. Movement Disorders, 2017, 32, 932-936.	2.2	31
28	Huntingtin-Mediated Multipolar-Bipolar Transition of Newborn Cortical Neurons Is Critical for Their Postnatal Neuronal Morphology. Neuron, 2017, 93, 99-114.	3.8	69
29	Gpr158 mediates osteocalcinâ€™s regulation of cognition. Journal of Experimental Medicine, 2017, 214, 2859-2873.	4.2	194
30	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
31	The Biology of Huntingtin. Neuron, 2016, 89, 910-926.	3.8	719
32	Self-propelling vesicles define glycolysis as the minimal energy machinery for neuronal transport. Nature Communications, 2016, 7, 13233.	5.8	78
33	Serine 421 regulates mutant huntingtin toxicity and clearance in mice. Journal of Clinical Investigation, 2016, 126, 3585-3597.	3.9	44
34	Huntingtin proteolysis releases nonâ€polyQ fragments that cause toxicity through dynamin 1 dysregulation. EMBO Journal, 2015, 34, 2255-2271.	3.5	79
35	Huntingtin Is Required for Epithelial Polarity through RAB11A-Mediated Apical Trafficking of PAR3-aPKC. PLoS Biology, 2015, 13, e1002142.	2.6	35
36	Unraveling the Role of Huntingtin in Breast Cancer Metastasis. Journal of the National Cancer Institute, 2015, 107, djv208.	3.0	32

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37	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
38	Allele-Specific Silencing of Mutant Huntingtin in Rodent Brain and Human Stem Cells. PLoS ONE, 2014, 9, e99341.	1.1	45
39	Mood disorders in Huntington's disease: from behavior to cellular and molecular mechanisms. Frontiers in Behavioral Neuroscience, 2014, 8, 135.	1.0	69
40	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimerâ€™s disease early phenotypes. Molecular Neurodegeneration, 2014, 9, 60.	4.4	76
41	Huntingtin Regulates Mammary Stem Cell Division and Differentiation. Stem Cell Reports, 2014, 2, 491-506.	2.3	44
42	IGF-1 Intranasal Administration Rescues Huntington's Disease Phenotypes in YAC128 Mice. Molecular Neurobiology, 2014, 49, 1126-1142.	1.9	60
43	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
44	Mutant Huntingtin Affects Cortical Progenitor Cell Division and Development of the Mouse Neocortex. Journal of Neuroscience, 2014, 34, 10034-10040.	1.7	66
45	Releasing the brake: restoring fast axonal transport in neurodegenerative disorders. Trends in Cell Biology, 2013, 23, 634-643.	3.6	66
46	Vesicular Glycolysis Provides On-Board Energy for Fast Axonal Transport. Cell, 2013, 152, 479-491.	13.5	422
47	Huntingtinâ€™s Function in Axonal Transport Is Conserved in Drosophila melanogaster. PLoS ONE, 2013, 8, e60162.	1.1	47
48	Mutant Huntingtin Alters Retrograde Transport of TrkB Receptors in Striatal Dendrites. Journal of Neuroscience, 2013, 33, 6298-6309.	1.7	155
49	Huntingtin Mediates Anxiety/Depression-Related Behaviors and Hippocampal Neurogenesis. Journal of Neuroscience, 2013, 33, 8608-8620.	1.7	39
50	Huntingtin: Here, There, Everywhere!. Journal of Huntington's Disease, 2013, 2, 395-403.	0.9	49
51	The Huntington disease protein accelerates breast tumour development and metastasis through ErbB2/HER2 signalling. EMBO Molecular Medicine, 2013, 5, 309-325.	3.3	34
52	Huntingtin Acts Non Cell-Autonomously on Hippocampal Neurogenesis and Controls Anxiety-Related Behaviors in Adult Mouse. PLoS ONE, 2013, 8, e73902.	1.1	17
53	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
54	Modification of Mecp2 dosage alters axonal transport through the Huntingtin/Hap1 pathway. Neurobiology of Disease, 2012, 45, 786-795.	2.1	68

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55	A â€œso ciliaâ€•network: cilia proteins start â€œsocialâ€•networking. Journal of Clinical Investigation, 2012, 122, 1198-1201.	3.9	2
56	Identifying polyglutamine protein species in situ that best predict neurodegeneration. Nature Chemical Biology, 2011, 7, 925-934.	3.9	178
57	Mitotic spindle: Focus on the function of huntingtin. International Journal of Biochemistry and Cell Biology, 2011, 43, 852-856.	1.2	25
58	Local cholesterol increase triggers amyloid precursor proteinâ€Bacel clustering in lipid rafts and rapid endocytosis. FASEB Journal, 2011, 25, 1295-1305.	0.2	153
59	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
60	pARIS-htt: an optimised expression platform to study huntingtin reveals functional domains required for vesicular trafficking. Molecular Brain, 2010, 3, 17.	1.3	48
61	Altered cholesterol homeostasis contributes to enhanced excitotoxicity in Huntingtonâ€™s disease. Journal of Neurochemistry, 2010, 115, 153-167.	2.1	76
62	Mutant huntingtin-impaired degradation of Î²-catenin causes neurotoxicity in Huntington's disease. EMBO Journal, 2010, 29, 2433-2445.	3.5	108
63	Is Huntington disease a developmental disorder?. EMBO Reports, 2010, 11, 899-899.	2.0	25
64	Elongator â€“ an emerging role in neurological disorders. Trends in Molecular Medicine, 2010, 16, 1-6.	3.5	52
65	Delivery of GABAARs to Synapses Is Mediated by HAP1-KIF5 and Disrupted by Mutant Huntingtin. Neuron, 2010, 65, 53-65.	3.8	225
66	Huntingtin Is Required for Mitotic Spindle Orientation and Mammalian Neurogenesis. Neuron, 2010, 67, 392-406.	3.8	240
67	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
68	Genetic and pharmacological inhibition of calcineurin corrects the BDNF transport defect in Huntington's disease. Molecular Brain, 2009, 2, 33.	1.3	62
69	Huntingtin phosphorylation acts as a molecular switch for anterograde/retrograde transport in neurons. EMBO Journal, 2008, 27, 2124-2134.	3.5	300
70	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
71	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
72	Phosphorylation of mutant huntingtin at S421 restores anterograde and retrograde transport in neurons. Human Molecular Genetics, 2008, 17, 3837-3846.	1.4	138

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73	Pathophysiology of HuntingtonÊ¼s disease: from huntingtin functions to potential treatments. Current Opinion in Neurology, 2008, 24, 497-503.	1.8	107
74	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
75	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
76	The Ataxia-ome: Connecting Disease Proteins of the Cerebellum. Cell, 2006, 125, 645-647.	13.5	10
77	Huntingtonâ€™s disease: from huntingtin function and dysfunction to therapeutic strategies. Cellular and Molecular Life Sciences, 2006, 63, 2642-2660.	2.4	190
78	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
79	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
80	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
81	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
82	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
83	Axonal transport failure in neurodegenerative disorders: the case of Huntingtonâ€™s disease. Pathologie Et Biologie, 2005, 53, 189-192.	2.2	23
84	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
85	Huntingtin Controls Neurotrophic Support and Survival of Neurons by Enhancing BDNF Vesicular Transport along Microtubules. Cell, 2004, 118, 127-138.	13.5	1,004
86	Huntingtonâ€™s disease: how does huntingtin, an anti-apoptotic protein, become toxic?. Pathologie Et Biologie, 2004, 52, 338-342.	2.2	20
87	Huntingtin phosphorylation and signaling pathways that regulate toxicity in Huntington's disease. Clinical Neuroscience Research, 2003, 3, 149-155.	0.8	12
88	In Vivo Calpain/Caspase Cross-talk during 3-Nitropropionic Acid-induced Striatal Degeneration. Journal of Biological Chemistry, 2003, 278, 43245-43253.	1.6	116
89	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
90	Toward Cell Specificity in SCA1. Neuron, 2002, 34, 669-670.	3.8	13

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91	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
92	p35 and p39 Are Essential for Cyclin-Dependent Kinase 5 Function during Neurodevelopment. Journal of Neuroscience, 2001, 21, 6758-6771.	1.7	361
93	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
94	Fos Family Members Induce Cell Cycle Entry by Activating Cyclin D1. Molecular and Cellular Biology, 1998, 18, 5609-5619.	1.1	221
95	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
96	Molecular and Clinical Correlations in Spinocerebellar Ataxia 2: A Study of 32 Families. Human Molecular Genetics, 1997, 6, 709-715.	1.4	270
97	Cloning of the SCA7 gene reveals a highly unstable CAG repeat expansion. Nature Genetics, 1997, 17, 65-70.	9.4	758
98	Differential distribution of the normal and mutated forms of huntingtin in the human brain. Annals of Neurology, 1997, 42, 712-719.	2.8	48
99	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
100	Screening for proteins with polyglutamine expansions in autosomal dominant cerebellar ataxias. Human Molecular Genetics, 1996, 5, 1887-1892.	1.4	63
101	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
102	Polyglutamine expansion as a pathological epitope in Huntington's disease and four dominant cerebellar ataxias. Nature, 1995, 378, 403-406.	13.7	632
103	5-HT1B receptor knock out â€" behavioral consequences. Behavioural Brain Research, 1995, 73, 305-312.	1.2	179
104	Enhanced aggressive behavior in mice lacking 5-HT1B receptor. Science, 1994, 265, 1875-1878.	6.0	806
105	5-Hydroxytryptamine receptor subtypes in vertebrates and invertebrates. Neurochemistry International, 1994, 25, 503-532.	1.9	175
106	5-Hydroxytryptamine Receptor Subtypes: Molecular and Functional Diversity. Advances in Pharmacology, 1994, 30, 327-380.	1.2	74
107	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
108	Huntingtin-Mediated Axonal Transport Requires Arginine Methylation by PRMT6. SSRN Electronic Journal, 0, , .	0.4	2