

# Frédéric Saudou

## List of Publications by Year in descending order

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108  
papers

16,738  
citations

25034

57  
h-index

23533

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. <i>Cell</i> , 1998, 95, 55-66.	28.9	1,501
2	Huntingtin Controls Neurotrophic Support and Survival of Neurons by Enhancing BDNF Vesicular Transport along Microtubules. <i>Cell</i> , 2004, 118, 127-138.	28.9	1,004
3	Cloning of the gene for spinocerebellar ataxia 2 reveals a locus with high sensitivity to expanded CAG/glutamine repeats. <i>Nature Genetics</i> , 1996, 14, 285-291.	21.4	857
4	Enhanced aggressive behavior in mice lacking 5-HT1B receptor. <i>Science</i> , 1994, 265, 1875-1878.	12.6	806
5	Cloning of the SCA7 gene reveals a highly unstable CAG repeat expansion. <i>Nature Genetics</i> , 1997, 17, 65-70.	21.4	758
6	The Biology of Huntingtin. <i>Neuron</i> , 2016, 89, 910-926.	8.1	719
7	Histone Deacetylase 6 Inhibition Compensates for the Transport Deficit in Huntington's Disease by Increasing Tubulin Acetylation. <i>Journal of Neuroscience</i> , 2007, 27, 3571-3583.	3.6	691
8	Polyglutamine expansion as a pathological epitope in Huntington's disease and four dominant cerebellar ataxias. <i>Nature</i> , 1995, 378, 403-406.	27.8	632
9	The IGF-1/Akt Pathway Is Neuroprotective in Huntington's Disease and Involves Huntingtin Phosphorylation by Akt. <i>Developmental Cell</i> , 2002, 2, 831-837.	7.0	452
10	Brain energy rescue: an emerging therapeutic concept for neurodegenerative disorders of ageing. <i>Nature Reviews Drug Discovery</i> , 2020, 19, 609-633.	46.4	441
11	Cellular localization of the Huntington's disease protein and discrimination of the normal and mutated form. <i>Nature Genetics</i> , 1995, 10, 104-110.	21.4	431
12	Vesicular Glycolysis Provides On-Board Energy for Fast Axonal Transport. <i>Cell</i> , 2013, 152, 479-491.	28.9	422
13	p35 and p39 Are Essential for Cyclin-Dependent Kinase 5 Function during Neurodevelopment. <i>Journal of Neuroscience</i> , 2001, 21, 6758-6771.	3.6	361
14	Huntingtin phosphorylation acts as a molecular switch for anterograde/retrograde transport in neurons. <i>EMBO Journal</i> , 2008, 27, 2124-2134.	7.8	300
15	Molecular and Clinical Correlations in Spinocerebellar Ataxia 2: A Study of 32 Families. <i>Human Molecular Genetics</i> , 1997, 6, 709-715.	2.9	270
16	Huntingtin Is Required for Mitotic Spindle Orientation and Mammalian Neurogenesis. <i>Neuron</i> , 2010, 67, 392-406.	8.1	240
17	Potential function for the Huntingtin protein as a scaffold for selective autophagy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16889-16894.	7.1	236
18	Delivery of GABAARs to Synapses Is Mediated by HAP1-KIF5 and Disrupted by Mutant Huntingtin. <i>Neuron</i> , 2010, 65, 53-65.	8.1	225

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19	Fos Family Members Induce Cell Cycle Entry by Activating Cyclin D1. <i>Molecular and Cellular Biology</i> , 1998, 18, 5609-5619.	2.3	221
20	Involvement of Mitochondrial Complex II Defects in Neuronal Death Produced by N-Terminus Fragment of Mutated Huntingtin. <i>Molecular Biology of the Cell</i> , 2006, 17, 1652-1663.	2.1	217
21	Mouse 5HT1B serotonin receptor: cloning, functional expression, and localization in motor control centers.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1992, 89, 3020-3024.	7.1	214
22	Cystamine and cysteamine increase brain levels of BDNF in Huntington disease via HS1b and transglutaminase. <i>Journal of Clinical Investigation</i> , 2006, 116, 1410-1424.	8.2	211
23	Huntington's disease alters human neurodevelopment. <i>Science</i> , 2020, 369, 787-793.	12.6	195
24	Gpr158 mediates osteocalcin's regulation of cognition. <i>Journal of Experimental Medicine</i> , 2017, 214, 2859-2873.	8.5	194
25	Huntington's disease: from huntingtin function and dysfunction to therapeutic strategies. <i>Cellular and Molecular Life Sciences</i> , 2006, 63, 2642-2660.	5.4	190
26	5-HT1B receptor knock out " behavioral consequences. <i>Behavioural Brain Research</i> , 1995, 73, 305-312.	2.2	179
27	Identifying polyglutamine protein species in situ that best predict neurodegeneration. <i>Nature Chemical Biology</i> , 2011, 7, 925-934.	8.0	178
28	5-Hydroxytryptamine receptor subtypes in vertebrates and invertebrates. <i>Neurochemistry International</i> , 1994, 25, 503-532.	3.8	175
29	Reconstituting Corticostriatal Network on-a-Chip Reveals the Contribution of the Presynaptic Compartment to Huntington's Disease. <i>Cell Reports</i> , 2018, 22, 110-122.	6.4	171
30	Akt is altered in an animal model of Huntington's disease and in patients. <i>European Journal of Neuroscience</i> , 2005, 21, 1478-1488.	2.6	156
31	Mutant Huntingtin Alters Retrograde Transport of TrkB Receptors in Striatal Dendrites. <i>Journal of Neuroscience</i> , 2013, 33, 6298-6309.	3.6	155
32	Local cholesterol increase triggers amyloid precursor protein's clustering in lipid rafts and rapid endocytosis. <i>FASEB Journal</i> , 2011, 25, 1295-1305.	0.5	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. <i>Journal of Neuroscience</i> , 1998, 18, 5537-5544.	3.6	149
34	Phosphorylation of mutant huntingtin at S421 restores anterograde and retrograde transport in neurons. <i>Human Molecular Genetics</i> , 2008, 17, 3837-3846.	2.9	138
35	Ciliogenesis is regulated by a huntingtin-HAP1-PCM1 pathway and is altered in Huntington disease. <i>Journal of Clinical Investigation</i> , 2011, 121, 4372-4382.	8.2	127
36	The serum- and glucocorticoid-induced kinase SGK inhibits mutant huntingtin-induced toxicity by phosphorylating serine's 421 of huntingtin. <i>European Journal of Neuroscience</i> , 2004, 19, 273-279.	2.6	122

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37	Inhibition of Calcineurin by FK506 Protects against Polyglutamine-Huntingtin Toxicity through an Increase of Huntingtin Phosphorylation at S421. <i>Journal of Neuroscience</i> , 2006, 26, 1635-1645.	3.6	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. <i>Journal of Neuroscience</i> , 2007, 27, 7318-7328.	3.6	117
39	In Vivo Calpain/Caspase Cross-talk during 3-Nitropropionic Acid-induced Striatal Degeneration. <i>Journal of Biological Chemistry</i> , 2003, 278, 43245-43253.	3.4	116
40	Mutant huntingtin-impaired degradation of $\beta$ -catenin causes neurotoxicity in Huntington's disease. <i>EMBO Journal</i> , 2010, 29, 2433-2445.	7.8	108
41	Pathophysiology of Huntington's disease: from huntingtin functions to potential treatments. <i>Current Opinion in Neurology</i> , 2008, 24, 497-503.	3.6	107
42	Huntingtin proteolysis releases non-polyQ fragments that cause toxicity through dynamin 1 dysregulation. <i>EMBO Journal</i> , 2015, 34, 2255-2271.	7.8	79
43	Self-propelling vesicles define glycolysis as the minimal energy machinery for neuronal transport. <i>Nature Communications</i> , 2016, 7, 13233.	12.8	78
44	Mitogen- and stress-activated protein kinase-1 deficiency is involved in expanded huntingtin-induced transcriptional dysregulation and striatal death. <i>FASEB Journal</i> , 2008, 22, 1083-1093.	0.5	77
45	Altered cholesterol homeostasis contributes to enhanced excitotoxicity in Huntington's disease. <i>Journal of Neurochemistry</i> , 2010, 115, 153-167.	3.9	76
46	Increasing membrane cholesterol of neurons in culture recapitulates Alzheimer's disease early phenotypes. <i>Molecular Neurodegeneration</i> , 2014, 9, 60.	10.8	76
47	5-Hydroxytryptamine Receptor Subtypes: Molecular and Functional Diversity. <i>Advances in Pharmacology</i> , 1994, 30, 327-380.	2.0	74
48	CYP46A1 gene therapy deciphers the role of brain cholesterol metabolism in Huntington's disease. <i>Brain</i> , 2019, 142, 2432-2450.	7.6	71
49	Cdc42-interacting protein 4 binds to huntingtin: Neuropathologic and biological evidence for a role in Huntington's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2712-2717.	7.1	69
50	Mood disorders in Huntington's disease: from behavior to cellular and molecular mechanisms. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 135.	2.0	69
51	Huntingtin-Mediated Multipolar-Bipolar Transition of Newborn Cortical Neurons Is Critical for Their Postnatal Neuronal Morphology. <i>Neuron</i> , 2017, 93, 99-114.	8.1	69
52	Modification of Mecp2 dosage alters axonal transport through the Huntingtin/Hap1 pathway. <i>Neurobiology of Disease</i> , 2012, 45, 786-795.	4.4	68
53	An integrated microfluidic/microelectrode array for the study of activity-dependent intracellular dynamics in neuronal networks. <i>Lab on A Chip</i> , 2018, 18, 3425-3435.	6.0	68
54	Releasing the brake: restoring fast axonal transport in neurodegenerative disorders. <i>Trends in Cell Biology</i> , 2013, 23, 634-643.	7.9	66

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55	Mutant Huntingtin Affects Cortical Progenitor Cell Division and Development of the Mouse Neocortex. <i>Journal of Neuroscience</i> , 2014, 34, 10034-10040.	3.6	66
56	Activation of IGF-1 and Insulin Signaling Pathways Ameliorate Mitochondrial Function and Energy Metabolism in Huntington's Disease Human Lymphoblasts. <i>Molecular Neurobiology</i> , 2015, 51, 331-348.	4.0	66
57	Screening for proteins with polyglutamine expansions in autosomal dominant cerebellar ataxias. <i>Human Molecular Genetics</i> , 1996, 5, 1887-1892.	2.9	63
58	Genetic and pharmacological inhibition of calcineurin corrects the BDNF transport defect in Huntington's disease. <i>Molecular Brain</i> , 2009, 2, 33.	2.6	62
59	Modulation of AMPA receptor surface diffusion restores hippocampal plasticity and memory in Huntington's disease models. <i>Nature Communications</i> , 2018, 9, 4272.	12.8	62
60	IGF-1 Intranasal Administration Rescues Huntington's Disease Phenotypes in YAC128 Mice. <i>Molecular Neurobiology</i> , 2014, 49, 1126-1142.	4.0	60
61	Huntington's disease knock-in male mice show specific anxiety-like behaviour and altered neuronal maturation. <i>Neuroscience Letters</i> , 2012, 507, 127-132.	2.1	56
62	Elongator – an emerging role in neurological disorders. <i>Trends in Molecular Medicine</i> , 2010, 16, 1-6.	6.7	52
63	Huntingtin: Here, There, Everywhere!. <i>Journal of Huntington's Disease</i> , 2013, 2, 395-403.	1.9	49
64	Differential distribution of the normal and mutated forms of huntingtin in the human brain. <i>Annals of Neurology</i> , 1997, 42, 712-719.	5.3	48
65	pARIS-htt: an optimised expression platform to study huntingtin reveals functional domains required for vesicular trafficking. <i>Molecular Brain</i> , 2010, 3, 17.	2.6	48
66	Neuronal network maturation differently affects secretory vesicles and mitochondria transport in axons. <i>Scientific Reports</i> , 2018, 8, 13429.	3.3	48
67	Huntingtin's Function in Axonal Transport Is Conserved in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2013, 8, e60162.	2.5	47
68	Phosphorylation of Arfaptin 2 at Ser260 by Akt Inhibits PolyQ-huntingtin-induced Toxicity by Rescuing Proteasome Impairment. <i>Journal of Biological Chemistry</i> , 2005, 280, 22021-22028.	3.4	45
69	Allele-Specific Silencing of Mutant Huntingtin in Rodent Brain and Human Stem Cells. <i>PLoS ONE</i> , 2014, 9, e99341.	2.5	45
70	Huntingtin Regulates Mammary Stem Cell Division and Differentiation. <i>Stem Cell Reports</i> , 2014, 2, 491-506.	4.8	44
71	Serine 421 regulates mutant huntingtin toxicity and clearance in mice. <i>Journal of Clinical Investigation</i> , 2016, 126, 3585-3597.	8.2	44
72	ATAT1-enriched vesicles promote microtubule acetylation via axonal transport. <i>Science Advances</i> , 2019, 5, eaax2705.	10.3	42

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73	Increasing brain palmitoylation rescues behavior and neuropathology in Huntington disease mice. <i>Science Advances</i> , 2021, 7, .	10.3	42
74	Propensity for somatic expansion increases over the course of life in Huntington disease. <i>ELife</i> , 2021, 10, .	6.0	42
75	Huntingtin Mediates Anxiety/Depression-Related Behaviors and Hippocampal Neurogenesis. <i>Journal of Neuroscience</i> , 2013, 33, 8608-8620.	3.6	39
76	Mutations in the KIF21B kinesin gene cause neurodevelopmental disorders through imbalanced canonical motor activity. <i>Nature Communications</i> , 2020, 11, 2441.	12.8	37
77	Huntingtin Is Required for Epithelial Polarity through RAB11A-Mediated Apical Trafficking of PAR3-aPKC. <i>PLoS Biology</i> , 2015, 13, e1002142.	5.6	35
78	Traffic signaling: new functions of huntingtin and axonal transport in neurological disease. <i>Current Opinion in Neurobiology</i> , 2020, 63, 122-130.	4.2	35
79	The Huntington disease protein accelerates breast tumour development and metastasis through ErbB2/HER2 signalling. <i>EMBO Molecular Medicine</i> , 2013, 5, 309-325.	6.9	34
80	Unraveling the Role of Huntingtin in Breast Cancer Metastasis. <i>Journal of the National Cancer Institute</i> , 2015, 107, djv208.	6.3	32
81	A randomized, double-blind, placebo-controlled trial evaluating cysteamine in Huntington's disease. <i>Movement Disorders</i> , 2017, 32, 932-936.	3.9	31
82	Serotonin transporter oligomerization documented in RN46A cells and neurons by sensitized acceptor emission FRET and fluorescence lifetime imaging microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 724-728.	2.1	25
83	Is Huntington disease a developmental disorder?. <i>EMBO Reports</i> , 2010, 11, 899-899.	4.5	25
84	Mitotic spindle: Focus on the function of huntingtin. <i>International Journal of Biochemistry and Cell Biology</i> , 2011, 43, 852-856.	2.8	25
85	Axonal transport failure in neurodegenerative disorders: the case of Huntington's disease. <i>Pathologie Et Biologie</i> , 2005, 53, 189-192.	2.2	23
86	The striatal kinase DCLK3 produces neuroprotection against mutant huntingtin. <i>Brain</i> , 2018, 141, 1434-1454.	7.6	23
87	The Arp1/11 minifilament of dynactin primes the endosomal Arp2/3 complex. <i>Science Advances</i> , 2021, 7, .	10.3	23
88	Dominant-Negative Effects of Adult-Onset Huntingtin Mutations Alter the Division of Human Embryonic Stem Cells-Derived Neural Cells. <i>PLoS ONE</i> , 2016, 11, e0148680.	2.5	22
89	Chronic Corticosterone Elevation Suppresses Adult Hippocampal Neurogenesis by Hyperphosphorylating Huntingtin. <i>Cell Reports</i> , 2020, 32, 107865.	6.4	22
90	Huntingtin phosphorylation governs BDNF homeostasis and improves the phenotype of <i>Mecp2</i> knockout mice. <i>EMBO Molecular Medicine</i> , 2020, 12, e10889.	6.9	22

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91	Low cancer prevalence in polyglutamine expansion diseases. <i>Neurology</i> , 2017, 88, 1114-1119.	1.1	21
92	Presynaptic APP levels and synaptic homeostasis are regulated by Akt phosphorylation of huntingtin. <i>ELife</i> , 2020, 9, .	6.0	21
93	Developmental defects in Huntington's disease show that axonal growth and microtubule reorganization require NUMA1. <i>Neuron</i> , 2022, 110, 36-50.e5.	8.1	21
94	Huntington's disease: how does huntingtin, an anti-apoptotic protein, become toxic?. <i>Pathologie Et Biologie</i> , 2004, 52, 338-342.	2.2	20
95	Huntingtin-mediated axonal transport requires arginine methylation by PRMT6. <i>Cell Reports</i> , 2021, 35, 108980.	6.4	20
96	Cancer: From Wild-Type to Mutant Huntingtin. <i>Journal of Huntington's Disease</i> , 2018, 7, 201-208.	1.9	19
97	Huntingtin Acts Non Cell-Autonomously on Hippocampal Neurogenesis and Controls Anxiety-Related Behaviors in Adult Mouse. <i>PLoS ONE</i> , 2013, 8, e73902.	2.5	17
98	Calcineurin and huntingtin form a calcium-sensing machinery that directs neurotrophic signals to the nucleus. <i>Science Advances</i> , 2022, 8, eabj8812.	10.3	16
99	Toward Cell Specificity in SCA1. <i>Neuron</i> , 2002, 34, 669-670.	8.1	13
100	Huntingtin phosphorylation and signaling pathways that regulate toxicity in Huntington's disease. <i>Clinical Neuroscience Research</i> , 2003, 3, 149-155.	0.8	12
101	ATP-citrate lyase promotes axonal transport across species. <i>Nature Communications</i> , 2021, 12, 5878.	12.8	11
102	The Ataxia-ome: Connecting Disease Proteins of the Cerebellum. <i>Cell</i> , 2006, 125, 645-647.	28.9	10
103	Recreating mouse cortico-hippocampal neuronal circuit in microfluidic devices to study BDNF axonal transport upon glucocorticoid treatment. <i>STAR Protocols</i> , 2021, 2, 100382.	1.2	9
104	The biology of Huntington's disease. <i>Handbook of Clinical Neurology</i> / Edited By P J Vinken and G W Bruyn, 2008, 89, 619-629.	1.8	3
105	A cilia network: cilia proteins start social networking. <i>Journal of Clinical Investigation</i> , 2012, 122, 1198-1201.	8.2	2
106	Huntingtin-Mediated Axonal Transport Requires Arginine Methylation by PRMT6. <i>SSRN Electronic Journal</i> , 0, , .	0.4	2
107	Regulation of sensorimotor gating via Disc1/Huntingtin-mediated Bdnf transport in the cortico-striatal circuit. <i>Molecular Psychiatry</i> , 2022, , .	7.9	1
108	Regulation   Metabolite Channeling in Energy Metabolism. , 2021, , 592-598.		0