

Xavier Roucou

List of Publications by Year in descending order

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70
papers

3,310
citations

109321

35
h-index

155660

55
g-index

80
all docs

80
docs citations

80
times ranked

3463
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Detection of Alternative Open Reading Frames Translation Products in Human Significantly Expands the Proteome. PLoS ONE, 2013, 8, e70698.	2.5	192
2	Bax oligomerization in mitochondrial membranes requires tBid (caspase-8-cleaved Bid) and a mitochondrial protein. Biochemical Journal, 2002, 368, 915-921.	3.7	172
3	Neuroprotective functions of prion protein. Journal of Neuroscience Research, 2004, 75, 153-161.	2.9	156
4	Cytosolic Prion Protein Is Not Toxic and Protects against Bax-mediated Cell Death in Human Primary Neurons. Journal of Biological Chemistry, 2003, 278, 40877-40881.	3.4	150
5	Cellular prion protein inhibits proapoptotic Bax conformational change in human neurons and in breast carcinoma MCF-7 cells. Cell Death and Differentiation, 2005, 12, 783-795.	11.2	150
6	Cellular prion protein neuroprotective function: implications in prion diseases. Journal of Molecular Medicine, 2005, 83, 3-11.	3.9	131
7	Death of a dogma: eukaryotic mRNAs can code for more than one protein. Nucleic Acids Research, 2016, 44, 14-23.	14.5	98
8	Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins. ELife, 2017, 6, .	6.0	93
9	Insights into ATP synthase assembly and function through the molecular genetic manipulation of subunits of the yeast mitochondrial enzyme complex. Biochimica Et Biophysica Acta - Bioenergetics, 2000, 1458, 428-442.	1.0	89
10	Standardized annotation of translated open reading frames. Nature Biotechnology, 2022, 40, 994-999.	17.5	86
11	p75 Neurotrophin Receptor Protects Primary Cultures of Human Neurons against Extracellular Amyloid β Peptide Cytotoxicity. Journal of Neuroscience, 2003, 23, 7385-7394.	3.6	83
12	Aggregation and neurotoxicity of recombinant β -synuclein aggregates initiated by dimerization. Molecular Neurodegeneration, 2013, 8, 5.	10.8	71
13	OpenProt: a more comprehensive guide to explore eukaryotic coding potential and proteomes. Nucleic Acids Research, 2019, 47, D403-D410.	14.5	71
14	OpenProt 2021: deeper functional annotation of the coding potential of eukaryotic genomes. Nucleic Acids Research, 2021, 49, D380-D388.	14.5	71
15	Bid induces cytochrome c-impermeable Bax channels in liposomes. Biochemical Journal, 2002, 363, 547-552.	3.7	68
16	On the release of cytochrome c from mitochondria during cell death signaling. Journal of Biomedical Science, 2002, 9, 488-506.	7.0	67
17	Characterization of the yeast mitochondria unselective channel: a counterpart to the mammalian permeability transition pore?. Journal of Bioenergetics and Biomembranes, 1998, 30, 419-429.	2.3	65
18	An Out-of-frame Overlapping Reading Frame in the Ataxin-1 Coding Sequence Encodes a Novel Ataxin-1 Interacting Protein. Journal of Biological Chemistry, 2013, 288, 21824-21835.	3.4	65

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19	An overlapping reading frame in the <i>PRNP</i> gene encodes a novel polypeptide distinct from the prion protein. <i>FASEB Journal</i> , 2011, 25, 2373-2386.	0.5	61
20	Small Proteins Encoded by Unannotated ORFs are Rising Stars of the Proteome, Confirming Shortcomings in Genome Annotations and Current Vision of an mRNA. <i>Proteomics</i> , 2018, 18, e1700058.	2.2	59
21	Molecular morphology and toxicity of cytoplasmic prion protein aggregates in neuronal and non-neuronal cells. <i>Journal of Neurochemistry</i> , 2006, 97, 1456-1466.	3.9	58
22	Recognition of the polycistronic nature of human genes is critical to understanding the genotype-phenotype relationship. <i>Genome Research</i> , 2018, 28, 609-624.	5.5	54
23	The prion protein unstructured N-terminal region is a broad-spectrum molecular sensor with diverse and contrasting potential functions. <i>Journal of Neurochemistry</i> , 2012, 120, 853-868.	3.9	53
24	p53 Aggregates Penetrate Cells and Induce the Co-Aggregation of Intracellular p53. <i>PLoS ONE</i> , 2013, 8, e69242.	2.5	53
25	PrP ^C Homodimerization Stimulates the Production of PrP ^C Cleaved Fragments PrPN1 and PrPC1. <i>Journal of Neuroscience</i> , 2012, 32, 13255-13263.	3.6	52
26	Found in translation: functions and evolution of a recently discovered alternative proteome. <i>Current Opinion in Structural Biology</i> , 2015, 32, 74-80.	5.7	51
27	Identification of subunit g of yeast mitochondrial F1F0-ATP synthase, a protein required for maximal activity of cytochrome c oxidase. <i>FEBS Journal</i> , 1999, 262, 315-323.	0.2	49
28	Prion protein aggresomes are poly(A)+ ribonucleoprotein complexes that induce a PKR-mediated deficient cell stress response. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2008, 1783, 479-491.	4.1	49
29	Combined Mass Spectrometry Imaging and Top-down Microproteomics Reveals Evidence of a Hidden Proteome in Ovarian Cancer. <i>EBioMedicine</i> , 2017, 21, 55-64.	6.1	45
30	A cytochromec-GFP fusion is not released from mitochondria into the cytoplasm upon expression of Bax in yeast cells. <i>FEBS Letters</i> , 2000, 471, 235-239.	2.8	44
31	Conformational change of Bax: a question of life or death. <i>Cell Death and Differentiation</i> , 2001, 8, 875-877.	11.2	44
32	The Protein Coded by a Short Open Reading Frame, Not by the Annotated Coding Sequence, Is the Main Gene Product of the Dual-Coding Gene MIEF1. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2402-2411.	3.8	44
33	HAItORF: a database of predicted out-of-frame alternative open reading frames in human. <i>Database: the Journal of Biological Databases and Curation</i> , 2012, 2012, bas025-bas025.	3.0	43
34	On the Release of Cytochrome <i>c</i> from Mitochondria during Cell Death Signaling. <i>Journal of Biomedical Science</i> , 2002, 9, 488-506.	7.0	40
35	INVOLVEMENT OF MITOCHONDRIA IN APOPTOSIS. <i>Cardiology Clinics</i> , 2001, 19, 45-55.	2.2	38
36	Reconsidering proteomic diversity with functional investigation of small ORFs and alternative ORFs. <i>Experimental Cell Research</i> , 2020, 393, 112057.	2.6	37

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37	The Molecular Neighborhood of Subunit 8 of Yeast Mitochondrial F1FO-ATP Synthase Probed by Cysteine Scanning Mutagenesis and Chemical Modification. <i>Journal of Biological Chemistry</i> , 2003, 278, 17867-17875.	3.4	36
38	Spatially-Resolved Top-down Proteomics Bridged to MALDI MS Imaging Reveals the Molecular Physiome of Brain Regions. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 357-372.	3.8	36
39	Al ²⁺ induces its own prion protein N-terminal fragment (PrP ^{N1})-mediated neutralization in amorphous aggregates. <i>Neurobiology of Aging</i> , 2014, 35, 1537-1548.	3.1	34
40	UBB pseudogene 4 encodes functional ubiquitin variants. <i>Nature Communications</i> , 2020, 11, 1306.	12.8	34
41	Optimized Sample Preparation Workflow for Improved Identification of Ghost Proteins. <i>Analytical Chemistry</i> , 2020, 92, 1122-1129.	6.5	32
42	The <i>FUS</i> gene is dual-coding with both proteins contributing to <i>FUS</i> -mediated toxicity. <i>EMBO Reports</i> , 2021, 22, e50640.	4.5	31
43	Conditions allowing different states of ATP- and GDP-induced permeability in mitochondria from different strains of <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1997, 1324, 120-132.	2.6	30
44	A large ribonucleoprotein particle induced by cytoplasmic PrP shares striking similarities with the chromatoid body, an RNA granule predicted to function in posttranscriptional gene regulation. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 335-345.	4.1	30
45	Prion protein prevents Bax-mediated cell death in the absence of other Bcl-2 family members in <i>Saccharomyces cerevisiae</i> . <i>FEMS Yeast Research</i> , 2006, 6, 1204-1212.	2.3	28
46	Aggregation and Amyloid Fibril Formation Induced by Chemical Dimerization of Recombinant Prion Protein in Physiological-like Conditions. <i>Journal of Biological Chemistry</i> , 2009, 284, 30907-30916.	3.4	26
47	Bioenergetic and structural consequences of allotopic expression of subunit 8 of yeast mitochondrial ATP synthase. The hydrophobic character of residues 23 and 24 is essential for maximal activity and structural stability of the enzyme complex. <i>FEBS Journal</i> , 1999, 261, 444-451.	0.2	22
48	Topology and proximity relationships of yeast mitochondrial ATP synthase subunit 8 determined by unique introduced cysteine residues. <i>FEBS Journal</i> , 2000, 267, 6443-6451.	0.2	20
49	Aggresomes do not represent a general cellular response to protein misfolding in mammalian cells. <i>BMC Cell Biology</i> , 2008, 9, 59.	3.0	20
50	ATP opens an electrophoretic potassium transport pathway in respiring yeast mitochondria. <i>FEBS Letters</i> , 1995, 364, 161-164.	2.8	17
51	Regulation of PrPC signaling and processing by dimerization. <i>Frontiers in Cell and Developmental Biology</i> , 2014, 2, 57.	3.7	15
52	Stimulation of oxidative phosphorylation by electrophoretic K ⁺ entry associated to electroneutral K ⁺ /H ⁺ exchange in yeast mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1995, 1231, 282-288.	1.0	11
53	Aggregation of cellular prion protein is initiated by proximity-induced dimerization. <i>Journal of Neurochemistry</i> , 2007, 102, 1195-1205.	3.9	11
54	Taking advantage of physiological proteolytic processing of the prion protein for a therapeutic perspective in prion and Alzheimer diseases. <i>Prion</i> , 2014, 8, 106-110.	1.8	11

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55	Modulation at a distance of proton conductance through the <i>Saccharomyces cerevisiae</i> mitochondrial F1FO-ATP synthase by variants of the oligomycin sensitivity-conferring protein containing substitutions near the C-terminus. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 595-607.	2.3	10
56	Modulation of the electrophoretic ATP-induced K ⁺ transport in yeast mitochondria by intracellular pH. <i>IUBMB Life</i> , 1997, 43, 53-61.	3.4	9
57	Potentialiation of B2 receptor signaling by AltB2R, a newly identified alternative protein encoded in the human bradykinin B2 receptor gene. <i>Journal of Biological Chemistry</i> , 2021, 296, 100329.	3.4	9
58	Prion protein and RNA: a view from the cytoplasm. <i>Frontiers in Bioscience - Landmark</i> , 2009, 14, 5157.	3.0	8
59	Mass Spectrometry-Based Proteomics Analyses Using the OpenProt Database to Unveil Novel Proteins Translated from Non-Canonical Open Reading Frames. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	8
60	Homodimerization as a molecular switch between low and high efficiency PrP ^C cell surface delivery and neuroprotective activity. <i>Prion</i> , 2013, 7, 170-174.	1.8	7
61	Robust Physiological Metrics From Sparsely Sampled Networks. <i>Frontiers in Physiology</i> , 2021, 12, 624097.	2.8	7
62	Investigations of the inhibitory effect of propranolol, chlorpromazine, quinine, and dicyclohexylcarbodiimide on the swelling of yeast mitochondria in potassium acetate. Evidences for indirect effects mediated by the lipid phase. <i>Journal of Bioenergetics and Biomembranes</i> , 1995, 27, 353-362.	2.3	5
63	Toxicity and Protection in Prions. <i>Science</i> , 2003, 301, 168-169.	12.6	4
64	An Update on Prion Biology and Proteomics. <i>Current Proteomics</i> , 2010, 7, 36-48.	0.3	4
65	How to Illuminate the Dark Proteome Using the Multi-omic OpenProt Resource. <i>Current Protocols in Bioinformatics</i> , 2020, 71, e103.	25.8	4
66	Reconstitution of chromatoid body-like particles in cultured cells: A novel approach to elucidate the mechanism of assembly and function of the chromatoid body. <i>RNA Biology</i> , 2009, 6, 165-168.	3.1	3
67	Mosaic translation hypothesis: chimeric polypeptides produced via multiple ribosomal frameshifting as a basis for adaptability. <i>FEBS Journal</i> , 2023, 290, 370-378.	4.7	3
68	Expression of Protein Tyrosine Phosphatase-like Molecule ICA512/IA-2 Induces Growth Arrest in Yeast Cells and Transfected Mammalian Cell Lines. <i>Journal of Autoimmunity</i> , 2001, 17, 51-61.	6.5	2
69	Development of kinomic analyses to identify dysregulated signaling pathways in cells expressing cytoplasmic PrP. <i>Virology Journal</i> , 2014, 11, 175.	3.4	2
70	Struggling for breath in Sherbrooke 1st Symposium on "One mitochondrion, many diseases" in Sherbrooke, Québec, Canada, March 11th, 2015. <i>Microbial Cell</i> , 2015, 2, 208-213.	3.2	1