

Xavier Roucou

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2093466/publications.pdf>

Version: 2024-02-01

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	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
2	Standardized annotation of translated open reading frames. <i>Nature Biotechnology</i> , 2022, 40, 994-999.	17.5	86
3	OpenProt 2021: deeper functional annotation of the coding potential of eukaryotic genomes. <i>Nucleic Acids Research</i> , 2021, 49, D380-D388.	14.5	71
4	Potential 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
5	Robust Physiological Metrics From Sparsely Sampled Networks. <i>Frontiers in Physiology</i> , 2021, 12, 624097.	2.8	7
6	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
7	Optimized Sample Preparation Workflow for Improved Identification of Ghost Proteins. <i>Analytical Chemistry</i> , 2020, 92, 1122-1129.	6.5	32
8	How to Illuminate the Dark Proteome Using the Multi-omic OpenProt Resource. <i>Current Protocols in Bioinformatics</i> , 2020, 71, e103.	25.8	4
9	Reconsidering proteomic diversity with functional investigation of small ORFs and alternative ORFs. <i>Experimental Cell Research</i> , 2020, 393, 112057.	2.6	37
10	UBB pseudogene 4 encodes functional ubiquitin variants. <i>Nature Communications</i> , 2020, 11, 1306.	12.8	34
11	OpenProt: a more comprehensive guide to explore eukaryotic coding potential and proteomes. <i>Nucleic Acids Research</i> , 2019, 47, D403-D410.	14.5	71
12	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
13	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
14	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
15	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
16	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
17	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
18	Deep transcriptome annotation enables the discovery and functional characterization of cryptic small proteins. <i>ELife</i> , 2017, 6, .	6.0	93

#	ARTICLE	IF	CITATIONS
19	Death of a dogma: eukaryotic mRNAs can code for more than one protein. <i>Nucleic Acids Research</i> , 2016, 44, 14-23.	14.5	98
20	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
21	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
22	Regulation of PrPC signaling and processing by dimerization. <i>Frontiers in Cell and Developmental Biology</i> , 2014, 2, 57.	3.7	15
23	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
24	Development of kinomic analyses to identify dysregulated signaling pathways in cells expressing cytoplasmic PrP. <i>Virology Journal</i> , 2014, 11, 175.	3.4	2
25	A β ² induces its own prion protein N-terminal fragment (PrPN1)-mediated neutralization in amorphous aggregates. <i>Neurobiology of Aging</i> , 2014, 35, 1537-1548.	3.1	34
26	p53 Aggregates Penetrate Cells and Induce the Co-Aggregation of Intracellular p53. <i>PLoS ONE</i> , 2013, 8, e69242.	2.5	53
27	An Out-of-frame Overlapping Reading Frame in the Ataxin-1 Coding Sequence Encodes a Novel Ataxin-1 Interacting Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 21824-21835.	3.4	65
28	Aggregation and neurotoxicity of recombinant β -synuclein aggregates initiated by dimerization. <i>Molecular Neurodegeneration</i> , 2013, 8, 5.	10.8	71
29	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
30	Direct Detection of Alternative Open Reading Frames Translation Products in Human Significantly Expands the Proteome. <i>PLoS ONE</i> , 2013, 8, e70698.	2.5	192
31	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
32	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
33	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
34	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
35	An Update on Prion Biology and Proteomics. <i>Current Proteomics</i> , 2010, 7, 36-48.	0.3	4
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Prion protein and RNA: a view from the cytoplasm. <i>Frontiers in Bioscience - Landmark</i> , 2009, 14, 5157.	3.0	8
40	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
41	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
42	Aggregation of cellular prion protein is initiated by proximity-induced dimerization. <i>Journal of Neurochemistry</i> , 2007, 102, 1195-1205.	3.9	11
43	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
44	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
45	Cellular prion protein inhibits proapoptotic Bax conformational change in human neurons and in breast carcinoma MCF-7 cells. <i>Cell Death and Differentiation</i> , 2005, 12, 783-795.	11.2	150
46	Cellular prion protein neuroprotective function: implications in prion diseases. <i>Journal of Molecular Medicine</i> , 2005, 83, 3-11.	3.9	131
47	Neuroprotective functions of prion protein. <i>Journal of Neuroscience Research</i> , 2004, 75, 153-161.	2.9	156
48	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
49	Toxicity and Protection in Prions. <i>Science</i> , 2003, 301, 168-169.	12.6	4
50	Cytosolic Prion Protein Is Not Toxic and Protects against Bax-mediated Cell Death in Human Primary Neurons. <i>Journal of Biological Chemistry</i> , 2003, 278, 40877-40881.	3.4	150
51	p75 Neurotrophin Receptor Protects Primary Cultures of Human Neurons against Extracellular Amyloid β Peptide Cytotoxicity. <i>Journal of Neuroscience</i> , 2003, 23, 7385-7394.	3.6	83
52	Bax oligomerization in mitochondrial membranes requires tBid (caspase-8-cleaved Bid) and a mitochondrial protein. <i>Biochemical Journal</i> , 2002, 368, 915-921.	3.7	172
53	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
54	Bid induces cytochrome <i>c</i> -impermeable Bax channels in liposomes. <i>Biochemical Journal</i> , 2002, 363, 547-552.	3.7	68

#	ARTICLE	IF	CITATIONS
55	On the release of cytochrome c from mitochondria during cell death signaling. <i>Journal of Biomedical Science</i> , 2002, 9, 488-506.	7.0	67
56	INVOLVEMENT OF MITOCHONDRIA IN APOPTOSIS. <i>Cardiology Clinics</i> , 2001, 19, 45-55.	2.2	38
57	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
58	Conformational change of Bax: a question of life or death. <i>Cell Death and Differentiation</i> , 2001, 8, 875-877.	11.2	44
59	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
60	Modulation at a distance of proton conductance through the <i>Saccharomyces cerevisiae</i> mitochondrial F1F0-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
61	Insights into ATP synthase assembly and function through the molecular genetic manipulation of subunits of the yeast mitochondrial enzyme complex. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2000, 1458, 428-442.	1.0	89
62	A cytochrome c-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
63	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
64	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
65	Characterization of the yeast mitochondria unselective channel: a counterpart to the mammalian permeability transition pore?. <i>Journal of Bioenergetics and Biomembranes</i> , 1998, 30, 419-429.	2.3	65
66	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
67	Modulation of the electrophoretic ATP-induced K ⁺ transport in yeast mitochondria by p _H . <i>IUBMB Life</i> , 1997, 43, 53-61.	3.4	9
68	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
69	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
70	ATP opens an electrophoretic potassium transport pathway in respiring yeast mitochondria. <i>FEBS Letters</i> , 1995, 364, 161-164.	2.8	17