

# Laurent Chavatte

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

1,927  
citations

361045

20  
h-index

360668

35  
g-index

37  
all docs

37  
docs citations

37  
times ranked

2327  
citing authors

#	ARTICLE	IF	CITATIONS
1	Selenium, Selenoproteins and Viral Infection. <i>Nutrients</i> , 2019, 11, 2101.	1.7	294
2	Noncanonical Function of Glutamyl-Prolyl-tRNA Synthetase. <i>Cell</i> , 2004, 119, 195-208.	13.5	224
3	Selenoprotein Gene Nomenclature. <i>Journal of Biological Chemistry</i> , 2016, 291, 24036-24040.	1.6	207
4	Ribosomal protein L30 is a component of the UGA-selenocysteine recoding machinery in eukaryotes. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 408-416.	3.6	156
5	Update on Selenoprotein Biosynthesis. <i>Antioxidants and Redox Signaling</i> , 2015, 23, 775-794.	2.5	111
6	The invariant uridine of stop codons contacts the conserved NIKSR loop of human eRF1 in the ribosome. <i>EMBO Journal</i> , 2002, 21, 5302-5311.	3.5	103
7	Novel structural determinants in human SECIS elements modulate the translational recoding of UGA as selenocysteine. <i>Nucleic Acids Research</i> , 2009, 37, 5868-5880.	6.5	84
8	Selective Up-regulation of Human Selenoproteins in Response to Oxidative Stress. <i>Journal of Biological Chemistry</i> , 2014, 289, 14750-14761.	1.6	84
9	Mechanistic insights into the impact of Cold Atmospheric Pressure Plasma on human epithelial cell lines. <i>Scientific Reports</i> , 2017, 7, 41163.	1.6	62
10	The polypeptide chain release factor eRF1 specifically contacts the s4UGA stop codon located in the A site of eukaryotic ribosomes. <i>FEBS Journal</i> , 2001, 268, 2896-2904.	0.2	60
11	Interplay between Selenium Levels, Selenoprotein Expression, and Replicative Senescence in WI-38 Human Fibroblasts. <i>Journal of Biological Chemistry</i> , 2014, 289, 6299-6310.	1.6	51
12	Oxidative modification and electrochemical inactivation of <i>Escherichia coli</i> upon cold atmospheric pressure plasma exposure. <i>PLoS ONE</i> , 2017, 12, e0173618.	1.1	43
13	The First Position of a Codon Placed in the A Site of the Human 80S Ribosome Contacts Nucleotide C1696 of the 18S rRNA as Well as Proteins S2, S3, S3a, S30, and S15. <i>Biochemistry</i> , 2005, 44, 2153-2162.	1.2	42
14	Stop Codons and UGG Promote Efficient Binding of the Polypeptide Release Factor eRF1 to the Ribosomal A Site. <i>Journal of Molecular Biology</i> , 2003, 331, 745-758.	2.0	39
15	Translation regulation of mammalian selenoproteins. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2480-2492.	1.1	39
16	The differential expression of glutathione peroxidase 1 and 4 depends on the nature of the SECIS element. <i>RNA Biology</i> , 2012, 9, 681-690.	1.5	36
17	Stop codon selection in eukaryotic translation termination: comparison of the discriminating potential between human and ciliate eRF1s. <i>EMBO Journal</i> , 2003, 22, 1644-1653.	3.5	29
18	Finding needles in a haystack. <i>EMBO Reports</i> , 2004, 5, 140-141.	2.0	26

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19	Speciation analysis for trace levels of selenoproteins in cultured human cells. <i>Journal of Proteomics</i> , 2014, 108, 316-324.	1.2	26
20	Selenium-regulated hierarchy of human selenoproteome in cancerous and immortalized cells lines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2493-2505.	1.1	25
21	Interplay between Selenium Levels and Replicative Senescence in WI-38 Human Fibroblasts: A Proteomic Approach. <i>Antioxidants</i> , 2018, 7, 19.	2.2	20
22	Oxidative damage and impairment of protein quality control systems in keratinocytes exposed to a volatile organic compounds cocktail. <i>Scientific Reports</i> , 2017, 7, 10707.	1.6	19
23	Comparison of analytical methods using enzymatic activity, immunoaffinity and selenium-specific mass spectrometric detection for the quantitation of glutathione peroxidase 1. <i>Analytica Chimica Acta</i> , 2018, 1011, 11-19.	2.6	18
24	Detection of selenoproteins in human cell extracts by laser ablation-ICP MS after separation by polyacrylamide gel electrophoresis and blotting. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 25-32.	1.6	17
25	A novel branched TAT47â€“57peptide for selective Ni <sup>2+</sup> introduction into the human fibrosarcoma cell nucleus. <i>Metallomics</i> , 2015, 7, 1155-1162.	1.0	14
26	Selenium Metabolism, Regulation, and Sex Differences in Mammals. <i>Molecular and Integrative Toxicology</i> , 2018, , 89-107.	0.5	13
27	A Versatile Strategy to Reduce UGA-Selenocysteine Recoding Efficiency of the Ribosome Using CRISPR-Cas9-Viral-Like-Particles Targeting Selenocysteine-tRNA[Ser] <sup>Sec</sup> Gene. <i>Cells</i> , 2019, 8, 574.	1.8	12
28	Elemental and molecular imaging of human full thickness skin after exposure to heavy metals. <i>Metallomics</i> , 2020, 12, 1555-1562.	1.0	12
29	Selenoproteome Expression Studied by Non-Radioactive Isotopic Selenium-Labeling in Human Cell Lines. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7308.	1.8	11
30	Interplay between Selenium, Selenoproteins and HIV-1 Replication in Human CD4 T-Lymphocytes. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1394.	1.8	11
31	Detection of Selenoproteins by Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP) Tj ETQq1 1 0.784314 µgBT / Ov 0,4		
32	Selenized Plant Oil Is an Efficient Source of Selenium for Selenoprotein Biosynthesis in Human Cell Lines. <i>Nutrients</i> , 2019, 11, 1524.	1.7	7
33	In vitro induction and proteomics characterisation of a uranylâ€“protein interaction network in bovine serum. <i>Metallomics</i> , 2015, 7, 1604-1611.	1.0	6
34	Nonradioactive Isotopic Labeling and Tracing of Selenoproteins in Cultured Cell Lines. <i>Methods in Molecular Biology</i> , 2018, 1661, 193-203.	0.4	4
35	Functional Analysis of Genetic Variation in the SECIS Element of Thyroid Hormone Activating Type 2 Deiodinase. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2019, 104, 1369-1377.	1.8	4
36	Alteration of Selenoprotein Expression During Stress and in Aging. , 2016, , 539-551.		3