Walter Rossmanith

List of Publications by Year
in descending order

59	3,919	147566	128067
papers	citations	31 h-index	60 g-index

64	64	64	3746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	RNase P without RNA: Identification and Functional Reconstitution of the Human Mitochondrial tRNA Processing Enzyme. Cell, 2008, 135, 462-474.	13.5	546
2	The m1A landscape on cytosolic and mitochondrial mRNA at single-base resolution. Nature, 2017, 551, 251-255.	13.7	440
3	Deciphering the â€œm6A Codeâ€•via Antibody-Independent Quantitative Profiling. Cell, 2019, 178, 731-747.e16.	13.5	341
4	A subcomplex of human mitochondrial RNase P is a bifunctional methyltransferaseâ€”extensive moonlighting in mitochondrial tRNA biogenesis. Nucleic Acids Research, 2012, 40, 11583-11593.	6.5	208
5	A single Arabidopsis organellar protein has RNase P activity. Nature Structural and Molecular Biology, 2010, 17, 740-744.	3.6	203
6	Human Mitochondrial tRNA Processing. Journal of Biological Chemistry, 1995, 270, 12885-12891.	1.6	135
7	Maternally Inherited Essential Hypertension Is Associated With the Novel 4263A>G Mutation in the Mitochondrial tRNA ^{Ile} Gene in a Large Han Chinese Family. Circulation Research, 2011, 108, 862-870.	2.0	114
8	Of P and Z: Mitochondrial tRNA processing enzymes. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2012, 1819, 1017-1026.	0.9	102
9	The coffee components kahweol and cafestol induce Î³-glutamylcysteine synthetase, the rate limiting enzyme of chemoprotective glutathione synthesis, in several organs of the rat. Archives of Toxicology, 2002, 75, 685-694.	1.9	90
10	Biology of transforming growth factor ? in hepatocarcinogenesis. Microscopy Research and Technique, 2001, 52, 430-436.	1.2	78
11	Localization of Human RNase Z Isoforms: Dual Nuclear/Mitochondrial Targeting of the ELAC2 Gene Product by Alternative Translation Initiation. PLoS ONE, 2011, 6, e19152.	1.1	75
12	Characterization of Human Mitochondrial RNase P: Novel Aspects in tRNA Processing. Biochemical and Biophysical Research Communications, 1998, 247, 234-241.	1.0	74
13	Localization and quantification of Cd- and Cu-specific metallothionein isoform mRNA in cells and organs of the terrestrial gastropod Helix pomatia. Toxicology and Applied Pharmacology, 2003, 190, 25-36.	1.3	72
14	Nuclear RNase P of Trypanosoma brucei: A Single Protein in Place of the Multicomponent RNA-Protein Complex. Cell Reports, 2012, 2, 19-25.	2.9	71
15	Overexpression of Activin Î²C or Activin Î²E in the Mouse Liver Inhibits Regenerative Deoxyribonucleic Acid Synthesis of Hepatic Cells. Endocrinology, 2003, 144, 3497-3504.	1.4	69
16	Impairment of tRNA processing by point mutations in mitochondrial tRNALeu(UUR)associated with mitochondrial diseases. FEBS Letters, 1998, 433, 269-274.	1.3	68
17	Effects of coffee and its chemopreventive components kahweol and cafestol on cytochrome P450 and sulfotransferase in rat liver. Food and Chemical Toxicology, 2008, 46, 1230-1238.	1.8	63
18	Expression and dimerization of the rat activin subunits betaC and betaE: evidence for the ormation of novel activin dimers. Journal of Molecular Endocrinology, 2002, 28, 137-148.	1.1	58

#	Article	IF	Citations
19	Levels of transforming growth factor Î² and transforming growth factor Î² receptors in rat liver during growth, regression by apoptosis and neoplasia. Hepatology, 1998, 28, 717-726.	3.6	56
20	Distribution of Ribonucleoprotein and Protein-Only RNase P in Eukarya. Molecular Biology and Evolution, 2015, 32, msv187.	3.5	56
21	Molecular insights into HSD10 disease: impact of SDR5C1 mutations on the human mitochondrial RNase P complex. Nucleic Acids Research, 2015, 43, 5112-5119.	6.5	55
22	Expression of activins C and E induces apoptosis in human and rat hepatoma cells. Carcinogenesis, 2003, 24, 1801-1809.	1.3	53
23	Minimal and RNA-free RNase P in Aquifex aeolicus. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11121-11126.	3.3	46
24	A novelHSD17B10mutation impairing the activities of the mitochondrial RNase P complex causes X-linked intractable epilepsy and neurodevelopmental regression. RNA Biology, 2016, 13, 477-485.	1.5	42
25	Cellular Gene Dose and Kinetics of Gene Expression in Mouse Livers Transfected by High-Volume Tail-Vein Injection of Naked DNA. DNA and Cell Biology, 2002, 21, 847-853.	0.9	40
26	Follistatin overexpression in rodent liver tumors: A possible mechanism to overcome activin growth control. Molecular Carcinogenesis, 2002, 35, 1-5.	1.3	38
27	Functional characterization of the human tRNA methyltransferases TRMT10A and TRMT10B. Nucleic Acids Research, 2020, 48, 6157-6169.	6.5	38
28	RNase MRP and RNase P share a common substrate. Nucleic Acids Research, 1993, 21, 3239-3243.	6.5	35
29	Expression of cytochrome P450 2A5 in preneoplastic and neoplastic mouse liver lesions. Molecular Carcinogenesis, 1998, 22, 229-234.	1.3	35
30	Substrate recognition and cleavage-site selection by a single-subunit protein-only RNase P. Nucleic Acids Research, 2016, 44, 2323-2336.	6.5	35
31	Accumulation of very long-chain fatty acids does not affect mitochondrial function in adrenoleukodystrophy protein deficiency. Human Molecular Genetics, 2005, 14, 1127-1137.	1.4	32
32	tRNA Processing by Proteinâ€Only versus RNAâ€Based RNase P: Kinetic Analysis Reveals Mechanistic Differences. ChemBioChem, 2012, 13, 2270-2276.	1.3	31
33	Processing of human mitochondrial tRNAGCUSer(AGY): a novel pathway in tRNA biosynthesis. Journal of Molecular Biology, 1997, 265, 365-371.	2.0	30
34	A novel mechanism for mitogenic signaling via pro-transforming growth factor Î± within hepatocyte nuclei. Hepatology, 2002, 35, 1372-1380.	3.6	29
35	Isolated cytochrome c oxidase deficiency as a cause of MELAS. Journal of Medical Genetics, 2007, 45, 117-121.	1.5	26
36	Bi-allelic variants in the mitochondrial RNase P subunit PRORP cause mitochondrial tRNA processing defects and pleiotropic multisystem presentations. American Journal of Human Genetics, 2021, 108, 2195-2204.	2.6	26

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37	Difference between Mitochondrial RNase P and Nuclear RNase P. Molecular and Cellular Biology, 2001, 21, 8236-8237.	1.1	25
38	CPEO associated with a single nucleotide deletion in the mitochondrial tRNA ^{Tyr} gene. Neurology, 2001, 57, 2298-2301.	1.5	25
39	Playing RNase P Evolution: Swapping the RNA Catalyst for a Protein Reveals Functional Uniformity of Highly Divergent Enzyme Forms. PLoS Genetics, 2014, 10, e1004506.	1.5	24
40	YBEY is an essential biogenesis factor for mitochondrial ribosomes. Nucleic Acids Research, 2020, 48, 9762-9786.	6.5	24
41	The expanding mutational spectrum of MERRF substitution G8361A in the mitochondrial tRNALys gene. Annals of Neurology, 2003, 54, 820-823.	2.8	23
42	tRNA recognition, processing, and disease: Hypotheses around an unorthodox type of RNase P in human mitochondria. Mitochondrion, 2009, 9, 284-288.	1.6	21
43	Protein-only RNase P function in Escherichia coli: viability, processing defects and differences between PRORP isoenzymes. Nucleic Acids Research, 2017, 45, 7441-7454.	6.5	21
44	Definition of the Th/ To ribonucleoprotein by RNase P and RNase MRP. Molecular Biology Reports, 1993, 18, 29-35.	1.0	20
45	Processing mitochondrial (t)RNAs: New enzyme, old job. Cell Cycle, 2009, 8, 1650-1653.	1.3	20
46	Apoptosis and Hepatocarcinogenesis. Digestion, 1998, 59, 64-65.	1.2	18
47	Positioning Europe for the EPITRANSCRIPTOMICS challenge. RNA Biology, 2018, 15, 1-3.	1.5	18
48	Mitochondrial poly(A) polymerase is involved in tRNA repair. Nucleic Acids Research, 2015, 43, gkv891.	6.5	17
49	Estrogen Receptor-Alpha and Estrogen Receptor-Beta Are Present in the Human Growth Plate in Childhood and Adolescence, in Identical Distribution. Hormone Research in Paediatrics, 2002, 58, 99-103.	0.8	16
50	Mitochondrial genotype and risk for Alzheimer?s disease: cross-sectional data from the Vienna-Transdanube-Aging ?VITA? study. Journal of Neural Transmission, 2004, 111, 1155-65.	1.4	13
51	Diversity and Evolution of RNase P. , 2020, , 255-299.		13
52	RNase Mitochondrial RNA Processing Cleaves RNA from the Rat Mitochondrial Displacement Loop at the Origin of Heavy-Strand DNA Replication. FEBS Journal, 1995, 227, 657-662.	0.2	11
53	Expression of mouse RNase MRP RNA in human embryonic kidney 293 cells. Molecular Biology Reports, 1997, 24, 221-230.	1.0	10
54	Repairing tRNA termini: News from the 3' end. RNA Biology, 2016, 13, 1182-1188.	1.5	10

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55	Analysis of the Cleavage Mechanism by Protein-Only RNase P Using Precursor tRNA Substrates with Modifications at the Cleavage Site. Journal of Molecular Biology, 2016, 428, 4917-4928.	2.0	9
56	The Amyloid-Î²-SDR5C1(ABAD) Interaction Does Not Mediate a Specific Inhibition of Mitochondrial RNase P. PLoS ONE, 2013, 8, e65609.	1.1	9
57	RNase Mitochondrial RNA Processing Cleaves RNA from the Rat Mitochondrial Displacement Loop at the Origin of Heavyâ€Strand DNA Replication. FEBS Journal, 1995, 227, 657-662.	0.2	7
58	Hepatocarcinogenesis in the Context of Strain Differences in Energy Metabolism Between Inbred Strains of Mice (C57BL/6J and C3H/He). Advances in Experimental Medicine and Biology, 2001, 500, 607-611.	0.8	4
59	Isolated cytochrome c oxidase deficiency as a cause of MELAS. BMJ Case Reports, 2009, 2009, bcr0820080666-bcr0820080666.	0.2	4