

Hubert Dominique Becker

List of Publications by Year in descending order

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46
papers

1,886
citations

236925

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254184

43
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47
all docs

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docs citations

47
times ranked

1277
citing authors

#	ARTICLE	IF	CITATIONS
1	Cex1 is a component of the COPI intracellular trafficking machinery. <i>Biology Open</i> , 2021, 10, .	1.2	0
2	De Novo and Bi-allelic Pathogenic Variants in NARS1 Cause Neurodevelopmental Delay Due to Toxic Gain-of-Function and Partial Loss-of-Function Effects. <i>American Journal of Human Genetics</i> , 2020, 107, 311-324.	6.2	32
3	RNA-dependent sterol aspartylation in fungi. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14948-14957.	7.1	11
4	Noncanonical inputs and outputs of tRNA aminoacylation. <i>The Enzymes</i> , 2020, 48, 117-147.	1.7	3
5	Assigning mitochondrial localization of dual localized proteins using a yeast Bi-Genomic Mitochondrial-Split-GFP. <i>ELife</i> , 2020, 9, .	6.0	20
6	Cytosolic aminoacyl-tRNA synthetases: Unanticipated relocations for unexpected functions. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2018, 1861, 387-400.	1.9	15
7	Nonconventional localizations of cytosolic aminoacyl-tRNA synthetases in yeast and human cells. <i>Methods</i> , 2017, 113, 91-104.	3.8	15
8	Improvement of Mitochondria Extract from <i>Saccharomyces cerevisiae</i> Characterization in Shotgun Proteomics Using Sheathless Capillary Electrophoresis Coupled to Tandem Mass Spectrometry. <i>Journal of Chromatographic Science</i> , 2016, 54, 653-663.	1.4	16
9	Expression of Nuclear and Mitochondrial Genes Encoding ATP Synthase Is Synchronized by Disassembly of a Multisynthetase Complex. <i>Molecular Cell</i> , 2014, 56, 763-776.	9.7	43
10	Crystal structure of <i>Saccharomyces cerevisiae</i> mitochondrial GatFAB reveals a novel subunit assembly in tRNA-dependent amidotransferases. <i>Nucleic Acids Research</i> , 2014, 42, 6052-6063.	14.5	12
11	Idiosyncrasies in decoding mitochondrial genomes. <i>Biochimie</i> , 2014, 100, 95-106.	2.6	17
12	Exploring the evolutionary diversity and assembly modes of multi- ϵ -aminoacyl-tRNA synthetase complexes: Lessons from unicellular organisms. <i>FEBS Letters</i> , 2014, 588, 4268-4278.	2.8	19
13	Crystal structure of Cex1p reveals the mechanism of tRNA trafficking between nucleus and cytoplasm. <i>Nucleic Acids Research</i> , 2013, 41, 3901-3914.	14.5	13
14	Two-codon T-box riboswitch binding two tRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12756-12761.	7.1	28
15	Riboswitch (T-box)-mediated Control of tRNA-dependent Amidation in <i>Clostridium acetobutylicum</i> Rationalizes Gene and Pathway Redundancy for Asparagine and Asparaginyl-tRNA ^{Asn} Synthesis. <i>Journal of Biological Chemistry</i> , 2012, 287, 20382-20394.	3.4	18
16	The asparagine-transamidosome from <i>Helicobacter pylori</i> : a dual-kinetic mode in non-discriminating aspartyl-tRNA synthetase safeguards the genetic code. <i>Nucleic Acids Research</i> , 2012, 40, 4965-4976.	14.5	20
17	Arc1p: Anchoring, routing, coordinating. <i>FEBS Letters</i> , 2010, 584, 427-433.	2.8	16
18	Crystal structure of a transfer-ribonucleoprotein particle that promotes asparagine formation. <i>EMBO Journal</i> , 2010, 29, 3118-3129.	7.8	43

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19	Yeast mitochondrial Gln-tRNA ^{Gln} is generated by a GatFAB-mediated transamidation pathway involving Arc1p-controlled subcellular sorting of cytosolic GluRS. <i>Genes and Development</i> , 2009, 23, 1119-1130.	5.9	80
20	Translating organellar glutamine codons : A case by case scenario?. <i>RNA Biology</i> , 2009, 6, 31-34.	3.1	24
21	On the role of an unusual tRNA ^{Gly} isoacceptor in <i>Staphylococcus aureus</i> . <i>Biochimie</i> , 2009, 91, 344-351.	2.6	37
22	Crystal Structure of Glutamyl-Queuosine tRNA ^{Asp} Synthetase Complexed with L-Glutamate: Structural Elements Mediating tRNA-Independent Activation of Glutamate and Glutamylolation of tRNA ^{Asp} Anticodon. <i>Journal of Molecular Biology</i> , 2008, 381, 1224-1237.	4.2	17
23	Dual-targeted tRNA-dependent amidotransferase ensures both mitochondrial and chloroplastic Gln-tRNA ^{Gln} synthesis in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 6481-6485.	7.1	61
24	Structural elements defining elongation factor Tu mediated suppression of codon ambiguity. <i>Nucleic Acids Research</i> , 2007, 35, 3420-3430.	14.5	41
25	<i>Deinococcus glutaminyl</i> -tRNA synthetase is a chimer between proteins from an ancient and the modern pathways of aminoacyl-tRNA formation. <i>Nucleic Acids Research</i> , 2007, 35, 1421-1431.	14.5	34
26	The Transamidosome: A Dynamic Ribonucleoprotein Particle Dedicated to Prokaryotic tRNA-Dependent Asparagine Biosynthesis. <i>Molecular Cell</i> , 2007, 28, 228-239.	9.7	70
27	Disorder Can Exist inside Well-Diffracting Crystals. <i>Crystal Growth and Design</i> , 2007, 7, 2195-2197.	3.0	5
28	A single tRNA base pair mediates bacterial tRNA-dependent biosynthesis of asparagine. <i>Nucleic Acids Research</i> , 2006, 34, 6083-6094.	14.5	47
29	Glu-Q-tRNA ^{Asp} synthetase coded by the <i>yadB</i> gene, a new paralog of aminoacyl-tRNA synthetase that glutamylates tRNA ^{Asp} anticodon. <i>Biochimie</i> , 2005, 87, 847-861.	2.6	31
30	A minimalist glutamyl-tRNA synthetase dedicated to aminoacylation of the tRNA ^{Asp} QUC anticodon. <i>Nucleic Acids Research</i> , 2004, 32, 2768-2775.	14.5	43
31	From The Cover: An aminoacyl-tRNA synthetase-like protein encoded by the <i>Escherichia coli yadB</i> gene glutamylates specifically tRNA ^{Asp} . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 7530-7535.	7.1	50
32	Crystallization and preliminary X-ray characterization of the atypical glutaminyl-tRNA synthetase from <i>Deinococcus radiodurans</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2361-2363.	2.5	2
33	The <i>Escherichia coli yadB</i> Gene Product Reveals a Novel Aminoacyl-tRNA Synthetase Like Activity. <i>Journal of Molecular Biology</i> , 2004, 337, 273-283.	4.2	45
34	When contemporary aminoacyl-tRNA synthetases invent their cognate amino acid metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 9837-9842.	7.1	71
35	A dual-specific Glu-tRNA ^{Gln} and Asp-tRNA ^{Asn} amidotransferase is involved in decoding glutamine and asparagine codons in <i>Acidithiobacillus ferrooxidans</i> . <i>FEBS Letters</i> , 2001, 500, 129-131.	2.8	33
36	A Single Amidotransferase Forms Asparaginyl-tRNA and Glutaminyl-tRNA in <i>Chlamydia trachomatis</i> . <i>Journal of Biological Chemistry</i> , 2001, 276, 45862-45867.	3.4	71

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37	Domain-specific recruitment of amide amino acids for protein synthesis. <i>Nature</i> , 2000, 407, 106-110.	27.8	152
38	The Adaptor hypothesis revisited. <i>Trends in Biochemical Sciences</i> , 2000, 25, 311-316.	7.5	118
39	Context-dependent anticodon recognition by class I lysyl-tRNA synthetases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 14224-14228.	7.1	21
40	The heterotrimeric <i>Thermus thermophilus</i> Asp-tRNA ^{Asn} amidotransferase can also generate Gln-tRNA ^{Gln} . <i>FEBS Letters</i> , 2000, 476, 140-144.	2.8	41
41	One Polypeptide with Two Aminoacyl-tRNA Synthetase Activities. <i>Science</i> , 2000, 287, 479-482.	12.6	76
42	<i>Thermus thermophilus</i> Contains an Eubacterial and an Archaeobacterial Aspartyl-tRNA Synthetase. <i>Biochemistry</i> , 2000, 39, 3216-3230.	2.5	54
43	Archaeal Aminoacyl-tRNA Synthesis: Diversity Replaces Dogma. <i>Genetics</i> , 1999, 152, 1269-1276.	2.9	40
44	<i>Thermus thermophilus</i> : A link in evolution of the tRNA-dependent amino acid amidation pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 12832-12837.	7.1	153
45	Existence of Two Distinct Aspartyl-tRNA Synthetases in <i>Thermus thermophilus</i> . Structural and Biochemical Properties of the Two Enzymes. <i>Biochemistry</i> , 1997, 36, 8785-8797.	2.5	61
46	Identity of Prokaryotic and Eukaryotic tRNA ^{Asp} for Aminoacylation by Aspartyl-tRNA Synthetase from <i>Thermus thermophilus</i> . <i>Biochemistry</i> , 1996, 35, 7447-7458.	2.5	67