

# Steven G Clarke

## List of Publications by Citations

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174  
papers

11,251  
citations

50  
h-index

102  
g-index

178  
ext. papers

12,205  
ext. citations

5.5  
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6.56  
L-index

#	Paper	IF	Citations
174	Protein arginine methylation in mammals: who, what, and why. <i>Molecular Cell</i> , <b>2009</b> , 33, 1-13	17.6	1221
173	Protein isoprenylation and methylation at carboxyl-terminal cysteine residues. <i>Annual Review of Biochemistry</i> , <b>1992</b> , 61, 355-86	29.1	831
172	RNA and protein interactions modulated by protein arginine methylation. <i>Progress in Molecular Biology and Translational Science</i> , <b>1998</b> , 61, 65-131		404
171	The mammalian immediate-early TIS21 protein and the leukemia-associated BTG1 protein interact with a protein-arginine N-methyltransferase. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 15034-44	5.4	353
170	PRMT1 is the predominant type I protein arginine methyltransferase in mammalian cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 7723-30	5.4	319
169	PRMT5 (Janus kinase-binding protein 1) catalyzes the formation of symmetric dimethylarginine residues in proteins. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 32971-6	5.4	290
168	Propensity for spontaneous succinimide formation from aspartyl and asparaginyl residues in cellular proteins. <i>International Journal of Peptide and Protein Research</i> , <b>1987</b> , 30, 808-21		281
167	The novel human protein arginine N-methyltransferase PRMT6 is a nuclear enzyme displaying unique substrate specificity. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 3537-43	5.4	257
166	PRMT 3, a type I protein arginine N-methyltransferase that differs from PRMT1 in its oligomerization, subcellular localization, substrate specificity, and regulation. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 16935-45	5.4	247
165	Aging as war between chemical and biochemical processes: protein methylation and the recognition of age-damaged proteins for repair. <i>Ageing Research Reviews</i> , <b>2003</b> , 2, 263-85	12	223
164	Protein methylation. <i>Current Opinion in Cell Biology</i> , <b>1993</b> , 5, 977-83	9	193
163	S-Adenosylmethionine-dependent methylation in <i>Saccharomyces cerevisiae</i> . Identification of a novel protein arginine methyltransferase. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 814-24	5.4	181
162	PRMT8, a new membrane-bound tissue-specific member of the protein arginine methyltransferase family. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 32890-6	5.4	180
161	Uncovering the human methyltransferasome. <i>Molecular and Cellular Proteomics</i> , <b>2011</b> , 10, M110.000976	7.6	176
160	Human protein arginine methyltransferase 7 (PRMT7) is a type III enzyme forming ENG-monomethylated arginine residues. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 7859-70	5.4	169
159	The predominant protein-arginine methyltransferase from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 12585-94	5.4	160
158	L-Ascorbate biosynthesis in higher plants: the role of VTC2. <i>Trends in Plant Science</i> , <b>2008</b> , 13, 567-73	13.1	155

157	PRMT7 is a member of the protein arginine methyltransferase family with a distinct substrate specificity. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 22902-7	5.4	148
156	2-Hydroxyglutarate Inhibits ATP Synthase and mTOR Signaling. <i>Cell Metabolism</i> , <b>2015</b> , 22, 508-15	24.6	139
155	Arabidopsis VTC2 encodes a GDP-L-galactose phosphorylase, the last unknown enzyme in the Smirnoff-Wheeler pathway to ascorbic acid in plants. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 18879-85	5.4	139
154	Automated identification of putative methyltransferases from genomic open reading frames. <i>Molecular and Cellular Proteomics</i> , <b>2003</b> , 2, 525-40	7.6	134
153	Protein methylation at the surface and buried deep: thinking outside the histone box. <i>Trends in Biochemical Sciences</i> , <b>2013</b> , 38, 243-52	10.3	129
152	Novel methyltransferase for modified uridine residues at the wobble position of tRNA. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 9283-92	4.8	129
151	PRMT9 is a type II methyltransferase that methylates the splicing factor SAP145. <i>Nature Communications</i> , <b>2015</b> , 6, 6428	17.4	128
150	Loss of the major Type I arginine methyltransferase PRMT1 causes substrate scavenging by other PRMTs. <i>Scientific Reports</i> , <b>2013</b> , 3, 1311	4.9	127
149	Accelerated Racemization of Aspartic Acid and Asparagine Residues via Succinimide Intermediates: An ab Initio Theoretical Exploration of Mechanism. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 9148-9155	16.4	124
148	Mammalian protein arginine methyltransferase 7 (PRMT7) specifically targets RXR sites in lysine- and arginine-rich regions. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 37010-25	5.4	112
147	Neighboring side chain effects on asparaginyl and aspartyl degradation: an ab initio study of the relationship between peptide conformation and backbone NH acidity. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 3499-506	16.4	105
146	Spontaneous degradation of polypeptides at aspartyl and asparaginyl residues: effects of the solvent dielectric. <i>Protein Science</i> , <b>1993</b> , 2, 331-8	6.3	100
145	Repair, refold, recycle: how bacteria can deal with spontaneous and environmental damage to proteins. <i>Molecular Microbiology</i> , <b>1995</b> , 16, 835-45	4.1	99
144	PRMT3 is a distinct member of the protein arginine N-methyltransferase family. Conferral of substrate specificity by a zinc-finger domain. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 32974-82	5.4	86
143	N-terminal methylation of proteins: structure, function and specificity. <i>FEBS Letters</i> , <b>1987</b> , 220, 8-14	3.8	84
142	Regulation of protein arginine methyltransferase 8 (PRMT8) activity by its N-terminal domain. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 36444-53	5.4	82
141	Exceptional Seed Longevity and Robust Growth: Ancient Sacred Lotus from China. <i>American Journal of Botany</i> , <b>1995</b> , 82, 1367	2.7	82
140	Impact of oxidative stress on ascorbate biosynthesis in <i>Chlamydomonas</i> via regulation of the VTC2 gene encoding a GDP-L-galactose phosphorylase. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 14234-45	5.4	80

139	Identification and characterization of the methyl arginines in the fragile X mental retardation protein Fmrp. <i>Human Molecular Genetics</i> , <b>2006</b> , 15, 87-96	5.6	78
138	Characterization of plant L-isoaspartyl methyltransferases that may be involved in seed survival: purification, cloning, and sequence analysis of the wheat germ enzyme. <i>Biochemistry</i> , <b>1993</b> , 32, 11100-11106	3.2	73
137	S-adenosyl-L-methionine synthetase from human erythrocytes: role in the regulation of cellular S-adenosylmethionine levels. <i>Biochemistry</i> , <b>1983</b> , 22, 2978-86	3.2	73
136	Identification of protein N-terminal methyltransferases in yeast and humans. <i>Biochemistry</i> , <b>2010</b> , 49, 5225-35	3.2	68
135	The L-isoaspartyl protein repair methyltransferase enhances survival of aging Escherichia coli subjected to secondary environmental stresses. <i>Journal of Bacteriology</i> , <b>1998</b> , 180, 2623-9	3.5	67
134	APP/A $\beta$ structural diversity and Alzheimer's disease pathogenesis. <i>Neurochemistry International</i> , <b>2017</b> , 110, 1-13	4.4	59
133	Proteomic identification of novel substrates of a protein isoaspartyl methyltransferase repair enzyme. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 32619-29	5.4	59
132	Limited accumulation of damaged proteins in L-isoaspartyl (D-aspartyl) O-methyltransferase-deficient mice. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 20695-702	5.4	59
131	A novel 3-methylhistidine modification of yeast ribosomal protein Rpl3 is dependent upon the YIL110W methyltransferase. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 37598-606	5.4	57
130	Multiple Motif Scanning to identify methyltransferases from the yeast proteome. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 1516-26	7.6	57
129	Unique Features of Human Protein Arginine Methyltransferase 9 (PRMT9) and Its Substrate RNA Splicing Factor SF3B2. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 16723-43	5.4	56
128	The gamma subunit of brain G-proteins is methyl esterified at a C-terminal cysteine. <i>FEBS Letters</i> , <b>1990</b> , 260, 313-7	3.8	55
127	delta-N-methylarginine is a novel posttranslational modification of arginine residues in yeast proteins. <i>Journal of Biological Chemistry</i> , <b>1998</b> , 273, 29283-6	5.4	54
126	Phenotypic analysis of seizure-prone mice lacking L-isoaspartate (D-aspartate) O-methyltransferase. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 20671-8	5.4	52
125	Crystal structure of a protein repair methyltransferase from <i>Pyrococcus furiosus</i> with its L-isoaspartyl peptide substrate. <i>Journal of Molecular Biology</i> , <b>2001</b> , 313, 1103-16	6.5	50
124	A highly active protein repair enzyme from an extreme thermophile: the L-isoaspartyl methyltransferase from <i>Thermotoga maritima</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>1998</b> , 358, 222-31	4.1	50
123	A second protein L-isoaspartyl methyltransferase gene in <i>Arabidopsis</i> produces two transcripts whose products are sequestered in the nucleus. <i>Plant Physiology</i> , <b>2004</b> , 136, 2652-64	6.6	49
122	Replacement of a labile aspartyl residue increases the stability of human epidermal growth factor. <i>Biochemistry</i> , <b>1990</b> , 29, 9584-91	3.2	49

121	Effect of adjacent histidine and cysteine residues on the spontaneous degradation of asparaginyl- and aspartyl-containing peptides. <i>International Journal of Peptide and Protein Research</i> , <b>1995</b> , 45, 547-53		48
120	Identification of methylated proteins in the yeast small ribosomal subunit: a role for SPOUT methyltransferases in protein arginine methylation. <i>Biochemistry</i> , <b>2012</b> , 51, 5091-104	3.2	46
119	Two novel methyltransferases acting upon eukaryotic elongation factor 1A in <i>Saccharomyces cerevisiae</i> . <i>Archives of Biochemistry and Biophysics</i> , <b>2010</b> , 500, 137-43	4.1	46
118	A novel SET domain methyltransferase in yeast: Rkm2-dependent trimethylation of ribosomal protein L12ab at lysine 10. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 35835-45	5.4	45
117	A novel automethylation reaction in the <i>Aspergillus nidulans</i> LaeA protein generates S-methylmethionine. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 14032-14045	5.4	44
116	A type III protein arginine methyltransferase from the protozoan parasite <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 11590-600	5.4	44
115	Modification of eukaryotic signaling proteins by C-terminal methylation reactions <b>1993</b> , 59, 281-300		44
114	Substrate specificity of human protein arginine methyltransferase 7 (PRMT7): the importance of acidic residues in the double E loop. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 32604-16	5.4	42
113	Targeted gene disruption of the <i>Caenorhabditis elegans</i> L-isoaspartyl protein repair methyltransferase impairs survival of dauer stage nematodes. <i>Archives of Biochemistry and Biophysics</i> , <b>1997</b> , 348, 320-8	4.1	42
112	Activation of the PI3K/Akt signal transduction pathway and increased levels of insulin receptor in protein repair-deficient mice. <i>Aging Cell</i> , <b>2005</b> , 4, 1-12	9.9	41
111	A novel SET domain methyltransferase modifies ribosomal protein Rpl23ab in yeast. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 34590-8	5.4	41
110	Bioinformatic Identification of Novel Methyltransferases. <i>Epigenomics</i> , <b>2009</b> , 1, 163-175	4.4	40
109	Molecular phylogenetics of a protein repair methyltransferase. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , <b>1997</b> , 117, 379-85	2.3	40
108	A second GDP-L-galactose phosphorylase in <i>Arabidopsis</i> en route to vitamin C. Covalent intermediate and substrate requirements for the conserved reaction. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 18483-92	5.4	40
107	Spliceosome Sm proteins D1, D3, and B/BS are asymmetrically dimethylated at arginine residues in the nucleus. <i>Biochemical and Biophysical Research Communications</i> , <b>2004</b> , 323, 382-7	3.4	37
106	Calcium affects the spontaneous degradation of aspartyl/asparaginyl residues in calmodulin. <i>Biochemistry</i> , <b>1989</b> , 28, 4020-7	3.2	37
105	A glutamate/aspartate switch controls product specificity in a protein arginine methyltransferase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 2068-73	11.5	36
104	Epigenetic control via allosteric regulation of mammalian protein arginine methyltransferases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 10101-10106	11.5	36

103	Identification of two SET domain proteins required for methylation of lysine residues in yeast ribosomal protein Rpl42ab. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 35561-8	5.4	36
102	A novel post-translational modification of yeast elongation factor 1A. Methylesterification at the C terminus. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 37150-8	5.4	36
101	Caenorhabditis elegans battling starvation stress: low levels of ethanol prolong lifespan in L1 larvae. <i>PLoS ONE</i> , <b>2012</b> , 7, e29984	3.7	34
100	Chemo-enzymatic detection of protein isoaspartate using protein isoaspartate methyltransferase and hydrazine trapping. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 3882-9	7.8	34
99	Do eukaryotic carboxyl methyltransferase regulate protein function?. <i>Trends in Biochemical Sciences</i> , <b>1983</b> , 8, 391-394	10.3	34
98	In vitro methylation of bacterial chemotaxis proteins: characterization of protein methyltransferase activity in crude extracts of Salmonella typhimurium. <i>Journal of Supramolecular Structure</i> , <b>1980</b> , 13, 315-28		34
97	Altered levels of S-adenosylmethionine and S-adenosylhomocysteine in the brains of L-isoaspartyl (D-Aspartyl) O-methyltransferase-deficient mice. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 27856-63	5.4	33
96	Purification and characterization of an isoaspartyl dipeptidase from Escherichia coli. <i>Journal of Biological Chemistry</i> , <b>1995</b> , 270, 4076-87	5.4	33
95	Mutations in the Escherichia coli surE gene increase isoaspartyl accumulation in a strain lacking the pcm repair methyltransferase but suppress stress-survival phenotypes. <i>FEMS Microbiology Letters</i> , <b>1998</b> , 167, 19-25	2.9	32
94	A highly conserved 3-methylhistidine modification is absent in yeast actin. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 370, 105-11	4.1	32
93	Alternative splicing of the human isoaspartyl protein carboxyl methyltransferase RNA leads to the generation of a C-terminal -RDEL sequence in isozyme II. <i>Biochemical and Biophysical Research Communications</i> , <b>1992</b> , 185, 277-83	3.4	32
92	Protein carboxyl methyltransferase and methyl acceptor proteins in aging and cataractous tissue of the human eye lens. <i>Mechanisms of Ageing and Development</i> , <b>1986</b> , 34, 91-105	5.6	32
91	Substrates of the Arabidopsis thaliana protein isoaspartyl methyltransferase 1 identified using phage display and biopanning. <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 37281-92	5.4	31
90	Yeast ribosomal/cytochrome c SET domain methyltransferase subfamily: identification of Rpl23ab methylation sites and recognition motifs. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 12368-76	5.4	31
89	Distinct patterns of expression but similar biochemical properties of protein L-isoaspartyl methyltransferase in higher plants. <i>Plant Physiology</i> , <b>2001</b> , 125, 1023-35	6.6	31
88	Improved rotorod performance and hyperactivity in mice deficient in a protein repair methyltransferase. <i>Behavioural Brain Research</i> , <b>2004</b> , 153, 129-41	3.4	30
87	A distinctly regulated protein repair L-isoaspartylmethyltransferase from Arabidopsis thaliana. <i>Plant Molecular Biology</i> , <b>1996</b> , 30, 723-37	4.6	30
86	Two major isozymes of the protein D-aspartyl/L-isoaspartyl methyltransferase from human erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , <b>1988</b> , 151, 1136-43	3.4	30



85	PRMT7 as a unique member of the protein arginine methyltransferase family: A review. <i>Archives of Biochemistry and Biophysics</i> , <b>2019</b> , 665, 36-45	4.1	29
84	TbPRMT6 is a type I protein arginine methyltransferase that contributes to cytokinesis in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , <b>2010</b> , 9, 866-77		29
83	A novel methyltransferase required for the formation of the hypermodified nucleoside wybutosine in eucaryotic tRNA. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 334, 433-40	3.4	29
82	Protein Arginine Methyltransferase Product Specificity Is Mediated by Distinct Active-site Architectures. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 18299-308	5.4	28
81	Histidine methylation of yeast ribosomal protein Rpl3p is required for proper 60S subunit assembly. <i>Molecular and Cellular Biology</i> , <b>2014</b> , 34, 2903-16	4.8	28
80	Recognition of age-damaged (R,S)-adenosyl-L-methionine by two methyltransferases in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 8604-12	5.4	28
79	A novel GDP-D-glucose phosphorylase involved in quality control of the nucleoside diphosphate sugar pool in <i>Caenorhabditis elegans</i> and mammals. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 21511-23	5.4	26
78	Spontaneous degradation and enzymatic repair of aspartyl and asparaginyl residues in aging red cell proteins analyzed by computer simulation. <i>Gerontology</i> , <b>1991</b> , 37, 128-51	5.5	26
77	Analysis of erythrocyte protein methyl esters by two-dimensional gel electrophoresis under acidic separating conditions. <i>Analytical Biochemistry</i> , <b>1985</b> , 148, 79-86	3.1	26
76	Structure of amyloid- $\beta$ (20-34) with Alzheimer's-associated isomerization at Asp23 reveals a distinct protofilament interface. <i>Nature Communications</i> , <b>2019</b> , 10, 3357	17.4	25
75	The ribosomal l1 protuberance in yeast is methylated on a lysine residue catalyzed by a seven-beta-strand methyltransferase. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 18405-13	5.4	25
74	Intracellular protein modification associated with altered T cell functions in autoimmunity. <i>Journal of Immunology</i> , <b>2006</b> , 177, 4541-9	5.3	25
73	7 Postisoprenylation protein processing: CXXX (CaaX) endoproteases and isoprenylcysteine carboxyl methyltransferase. <i>The Enzymes</i> , <b>2001</b> , 21, 155-213	2.3	25
72	Protein phosphatase methyltransferase 1 (Ppm1p) is the sole activity responsible for modification of the major forms of protein phosphatase 2A in yeast. <i>Archives of Biochemistry and Biophysics</i> , <b>2001</b> , 395, 239-45	4.1	25
71	Hsl7 is a substrate-specific type II protein arginine methyltransferase in yeast. <i>Biochemical and Biophysical Research Communications</i> , <b>2008</b> , 372, 811-5	3.4	24
70	Non-repair pathways for minimizing protein isoaspartyl damage in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 16936-53	5.4	23
69	Increased cell proliferation and granule cell number in the dentate gyrus of protein repair-deficient mice. <i>Journal of Comparative Neurology</i> , <b>2005</b> , 493, 524-37	3.4	23
68	Distinct reactions catalyzed by bacterial and yeast trans-aconitate methyltransferases. <i>Biochemistry</i> , <b>2001</b> , 40, 2210-9	3.2	23

67	Multiple sites of methyl esterification of calmodulin in intact human erythrocytes. <i>Archives of Biochemistry and Biophysics</i> , <b>1990</b> , 279, 320-7	4.1	23
66	An Arabidopsis ATP-dependent, DEAD-box RNA helicase loses activity upon IsoAsp formation but is restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. <i>Plant Cell</i> , <b>2013</b> , 25, 2573-86	11.6	22
65	Integrated proteomic analysis of major isoaspartyl-containing proteins in the urine of wild type and protein L-isoaspartate O-methyltransferase-deficient mice. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 2423-30	7.8	22
64	Defective responses to oxidative stress in protein l-isoaspartyl repair-deficient <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , <b>2009</b> , 130, 670-80	5.6	22
63	16 Inhibition of mammalian protein methyltransferases by 5S-methylthioadenosine (MTA): A mechanism of action of dietary same?. <i>The Enzymes</i> , <b>2006</b> , 24, 467-93	2.3	22
62	Arabidopsis Protein Repair L-Isoaspartyl Methyltransferases: Predominant Activities at Lethal Temperatures. <i>Physiologia Plantarum</i> , <b>2006</b> , 128, 581-592	4.6	22
61	Homocysteine methyltransferases Mht1 and Sam4 prevent the accumulation of age-damaged (R,S)-AdoMet in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , <b>2010</b> , 285, 20526-31	5.4	21
60	Production of FAME biodiesel in <i>E. coli</i> by direct methylation with an insect enzyme. <i>Scientific Reports</i> , <b>2016</b> , 6, 24239	4.9	21
59	Rmt1 catalyzes zinc-finger independent arginine methylation of ribosomal protein Rps2 in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , <b>2010</b> , 391, 1658-62	3.4	20
58	The L-isoaspartyl-O-methyltransferase in <i>Caenorhabditis elegans</i> larval longevity and autophagy. <i>Developmental Biology</i> , <b>2007</b> , 303, 493-500	3.1	20
57	Crystal structure of human L-isoaspartyl methyltransferase. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 10642-6	5.4	20
56	The methylator meets the terminator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2002</b> , 99, 1104-6	11.5	20
55	Expression, purification, and characterization of the protein repair l-isoaspartyl methyltransferase from <i>Arabidopsis thaliana</i> . <i>Protein Expression and Purification</i> , <b>2000</b> , 20, 237-51	2	20
54	Oxidative Modifications in Tissue Pathology and Autoimmune Disease. <i>Antioxidants and Redox Signaling</i> , <b>2018</b> , 29, 1415-1431	8.4	19
53	HIV protease inhibitors and nuclear lamin processing: getting the right bells and whistles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 13857-8	11.5	19
52	Distinct C-terminal sequences of isozymes I and II of the human erythrocyte L-isoaspartyl/D-aspartyl protein methyltransferase. <i>Biochemical and Biophysical Research Communications</i> , <b>1991</b> , 175, 351-8	3.4	18
51	The Major Protein Arginine Methyltransferase in Functions as an Enzyme-Prozyme Complex. <i>Journal of Biological Chemistry</i> , <b>2017</b> , 292, 2089-2100	5.4	17
50	Methylation of yeast ribosomal protein Rpl3 promotes translational elongation fidelity. <i>Rna</i> , <b>2016</b> , 22, 489-98	5.8	17



49	Translational roles of elongation factor 2 protein lysine methylation. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 30511-30524	5.4	17
48	Protein repair methyltransferase from the hyperthermophilic archaeon <i>Pyrococcus furiosus</i> . Unusual methyl-accepting affinity for D-aspartyl and N-succinyl-containing peptides. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 1058-65	5.4	17
47	Do damaged proteins accumulate in <i>Caenorhabditis elegans</i> L-isoaspartate methyltransferase (pcm-1) deletion mutants?. <i>Archives of Biochemistry and Biophysics</i> , <b>1999</b> , 364, 209-18	4.1	17
46	Ethanol-induced differential gene expression and acetyl-CoA metabolism in a longevity model of the nematode <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , <b>2015</b> , 61, 20-30	4.5	16
45	Thermal-stable proteins of fruit of long-living Sacred Lotus Gaertn var. China Antique. <i>Tropical Plant Biology</i> , <b>2013</b> , 6, 69	1.6	15
44	A new type of protein lysine methyltransferase trimethylates Lys-79 of elongation factor 1A. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 455, 382-9	3.4	14
43	The interplay between protein L-isoaspartyl methyltransferase activity and insulin-like signaling to extend lifespan in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , <b>2011</b> , 6, e20850	3.7	14
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