

Steven G Clarke

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5890836/steven-g-clarke-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174
papers

11,251
citations

50
h-index

102
g-index

178
ext. papers

12,205
ext. citations

5.5
avg, IF

6.56
L-index

#	Paper	IF	Citations
174	Linkage of methionine addiction, histone lysine hypermethylation, and malignancy.. <i>IScience</i> , 2022 , 25, 104162	6.1	3
173	Extent and Instability of Trimethylation of Histone H3 Lysine Increases With Degree of Malignancy and Methionine Addiction.. <i>Cancer Genomics and Proteomics</i> , 2022 , 19, 12-18	3.3	3
172	Genetic screening reveals phospholipid metabolism as a key regulator of the biosynthesis of the redox-active lipid coenzyme Q. <i>Redox Biology</i> , 2021 , 46, 102127	11.3	3
171	Molecular damage in aging. <i>Nature Aging</i> , 2021 , 1, 1096-1106		3
170	Protein Arginine Methyltransferase 7 (PRMT7): A Human Enzyme Often Overexpressed in Cancer is Most Active Under Non-physiological Conditions. <i>FASEB Journal</i> , 2020 , 34, 1-1	0.9	
169	Human ARMT1 structure and substrate specificity indicates that it is a DUF89 family damage-control phosphatase. <i>Journal of Structural Biology</i> , 2020 , 212, 107576	3.4	1
168	l-Isoaspartyl Methyltransferase Deficiency in Zebrafish Leads to Impaired Calcium Signaling in the Brain. <i>Frontiers in Genetics</i> , 2020 , 11, 612343	4.5	0
167	The l-isoaspartate modification within protein fragments in the aging lens can promote protein aggregation. <i>Journal of Biological Chemistry</i> , 2019 , 294, 12203-12219	5.4	12
166	PRMT7 as a unique member of the protein arginine methyltransferase family: A review. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 665, 36-45	4.1	29
165	Structure of amyloid- β (20-34) with Alzheimer's-associated isomerization at Asp23 reveals a distinct protofilament interface. <i>Nature Communications</i> , 2019 , 10, 3357	17.4	25
164	Protein Methylation and Translation: Role of Lysine Modification on the Function of Yeast Elongation Factor 1A. <i>Biochemistry</i> , 2019 , 58, 4997-5010	3.2	6
163	Oxidative Modifications in Tissue Pathology and Autoimmune Disease. <i>Antioxidants and Redox Signaling</i> , 2018 , 29, 1415-1431	8.4	19
162	The ribosome: A hot spot for the identification of new types of protein methyltransferases. <i>Journal of Biological Chemistry</i> , 2018 , 293, 10438-10446	5.4	11
161	Protein methylation and translation: Role of lysine modification on the function of yeast elongation factor 1 alpha. <i>FASEB Journal</i> , 2018 , 32, 791.18	0.9	
160	Caenorhabditis elegans PRMT-7 and PRMT-9 Are Evolutionarily Conserved Protein Arginine Methyltransferases with Distinct Substrate Specificities. <i>Biochemistry</i> , 2017 , 56, 2612-2626	3.2	10
159	The Major Protein Arginine Methyltransferase in Functions as an Enzyme-Prozyme Complex. <i>Journal of Biological Chemistry</i> , 2017 , 292, 2089-2100	5.4	17
158	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> , 2017 , 114, 10101-10106	11.5	36

157	APP/A β structural diversity and Alzheimer's disease pathogenesis. <i>Neurochemistry International</i> , 2017 , 110, 1-13	4.4	59
156	Protein Arginine Methyltransferase Product Specificity Is Mediated by Distinct Active-site Architectures. <i>Journal of Biological Chemistry</i> , 2016 , 291, 18299-308	5.4	28
155	Ribosomal protein methyltransferases in the yeast <i>Saccharomyces cerevisiae</i> : Roles in ribosome biogenesis and translation. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 470, 552-557	3.4	4
154	Methylation of yeast ribosomal protein Rpl3 promotes translational elongation fidelity. <i>Rna</i> , 2016 , 22, 489-98	5.8	17
153	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> , 2016 , 113, 2068-73	11.5	36
152	Racemized and Isomerized Proteins in Aging Rat Teeth and Eye Lens. <i>Rejuvenation Research</i> , 2016 , 19, 309-17	2.6	7
151	Production of FAME biodiesel in <i>E. coli</i> by direct methylation with an insect enzyme. <i>Scientific Reports</i> , 2016 , 6, 24239	4.9	21
150	Deuteration protects asparagine residues against racemization. <i>Amino Acids</i> , 2016 , 48, 2189-96	3.5	5
149	Determining the Mitochondrial Methyl Proteome in <i>Saccharomyces cerevisiae</i> using Heavy Methyl SILAC. <i>Journal of Proteome Research</i> , 2016 , 15, 4436-4451	5.6	13
148	The invertebrate <i>Caenorhabditis elegans</i> biosynthesizes ascorbate. <i>Archives of Biochemistry and Biophysics</i> , 2015 , 569, 32-44	4.1	10
147	PRMT9 is a type II methyltransferase that methylates the splicing factor SAP145. <i>Nature Communications</i> , 2015 , 6, 6428	17.4	128
146	Unique Features of Human Protein Arginine Methyltransferase 9 (PRMT9) and Its Substrate RNA Splicing Factor SF3B2. <i>Journal of Biological Chemistry</i> , 2015 , 290, 16723-43	5.4	56
145	2-Hydroxyglutarate Inhibits ATP Synthase and mTOR Signaling. <i>Cell Metabolism</i> , 2015 , 22, 508-15	24.6	139
144	Ethanol-induced differential gene expression and acetyl-CoA metabolism in a longevity model of the nematode <i>Caenorhabditis elegans</i> . <i>Experimental Gerontology</i> , 2015 , 61, 20-30	4.5	16
143	Characterization of the Activity and Biological Function of Human Protein Arginine Methyltransferase 9 (PRMT9). <i>FASEB Journal</i> , 2015 , 29, LB211	0.9	3
142	Translational roles of elongation factor 2 protein lysine methylation. <i>Journal of Biological Chemistry</i> , 2014 , 289, 30511-30524	5.4	17
141	Non-repair pathways for minimizing protein isoaspartyl damage in the yeast <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2014 , 289, 16936-53	5.4	23
140	A new type of protein lysine methyltransferase trimethylates Lys-79 of elongation factor 1A. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 455, 382-9	3.4	14

139	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> , 2014 , 289, 32604-16	5.4	42
138	Histidine methylation of yeast ribosomal protein Rpl3p is required for proper 60S subunit assembly. <i>Molecular and Cellular Biology</i> , 2014 , 34, 2903-16	4.8	28
137	Thermal-stable proteins of fruit of long-living Sacred Lotus Gaertn var. China Antique. <i>Tropical Plant Biology</i> , 2013 , 6, 69	1.6	15
136	Isoaspartyl Dipeptidase (IadA) 2013 , 1654-1663		1
135	A novel automethylation reaction in the <i>Aspergillus nidulans</i> LaeA protein generates S-methylmethionine. <i>Journal of Biological Chemistry</i> , 2013 , 288, 14032-14045	5.4	44
134	Mammalian protein arginine methyltransferase 7 (PRMT7) specifically targets RXR sites in lysine- and arginine-rich regions. <i>Journal of Biological Chemistry</i> , 2013 , 288, 37010-25	5.4	112
133	An <i>Arabidopsis</i> ATP-dependent, DEAD-box RNA helicase loses activity upon IsoAsp formation but is restored by PROTEIN ISOASPARTYL METHYLTRANSFERASE. <i>Plant Cell</i> , 2013 , 25, 2573-86	11.6	22
132	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> , 2013 , 85, 2423-30	7.8	22
131	Protein methylation at the surface and buried deep: thinking outside the histone box. <i>Trends in Biochemical Sciences</i> , 2013 , 38, 243-52	10.3	129
130	Brain proteomics supports the role of glutamate metabolism and suggests other metabolic alterations in protein l-isoaspartyl methyltransferase (PIMT)-knockout mice. <i>Journal of Proteome Research</i> , 2013 , 12, 4566-76	5.6	8
129	A novel small molecule methyltransferase is important for virulence in <i>Candida albicans</i> . <i>ACS Chemical Biology</i> , 2013 , 8, 2785-93	4.9	4
128	Loss of the major Type I arginine methyltransferase PRMT1 causes substrate scavenging by other PRMTs. <i>Scientific Reports</i> , 2013 , 3, 1311	4.9	127
127	Circumventing embryonic lethality with <i>Lcmt1</i> deficiency: generation of hypomorphic <i>Lcmt1</i> mice with reduced protein phosphatase 2A methyltransferase expression and defects in insulin signaling. <i>PLoS ONE</i> , 2013 , 8, e65967	3.7	11
126	Identification of methylated proteins in the yeast small ribosomal subunit: a role for SPOUT methyltransferases in protein arginine methylation. <i>Biochemistry</i> , 2012 , 51, 5091-104	3.2	46
125	<i>Caenorhabditis elegans</i> battling starvation stress: low levels of ethanol prolong lifespan in L1 larvae. <i>PLoS ONE</i> , 2012 , 7, e29984	3.7	34
124	Wortmannin reduces insulin signaling and death in seizure-prone <i>Pcmt1</i> ^{-/-} mice. <i>PLoS ONE</i> , 2012 , 7, e467319	3.9	8
123	Human protein arginine methyltransferase 7 (PRMT7) is a type III enzyme forming ENG-monomethylated arginine residues. <i>Journal of Biological Chemistry</i> , 2012 , 287, 7859-70	5.4	169
122	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> , 2012 , 287, 14234-45	5.4	80

121	Defying the proteasome, autophagy and convention: <i>S. cerevisiae</i> dodges the isoaspartyl aging bullet. <i>FASEB Journal</i> , 2012 , 26, 547.5	0.9	
120	The interplay between protein L-isoaspartyl methyltransferase activity and insulin-like signaling to extend lifespan in <i>Caenorhabditis elegans</i> . <i>PLoS ONE</i> , 2011 , 6, e20850	3.7	14
119	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> , 2011 , 286, 18405-13	5.4	25
118	Uncovering the human methyltransferasome. <i>Molecular and Cellular Proteomics</i> , 2011 , 10, M110.0009767.6		176
117	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> , 2011 , 286, 21511-23	5.4	26
116	TbPRMT6 is a type I protein arginine methyltransferase that contributes to cytokinesis in <i>Trypanosoma brucei</i> . <i>Eukaryotic Cell</i> , 2010 , 9, 866-77		29
115	A novel 3-methylhistidine modification of yeast ribosomal protein Rpl3 is dependent upon the YIL110W methyltransferase. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37598-606	5.4	57
114	Substrates of the <i>Arabidopsis thaliana</i> protein isoaspartyl methyltransferase 1 identified using phage display and biopanning. <i>Journal of Biological Chemistry</i> , 2010 , 285, 37281-92	5.4	31
113	Yeast, plants, worms, and flies use a methyltransferase to metabolize age-damaged (R,S)-AdoMet, but what do mammals do?. <i>Rejuvenation Research</i> , 2010 , 13, 362-4	2.6	7
112	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> , 2010 , 285, 20526-3	5.4	21
111	Identification of protein N-terminal methyltransferases in yeast and humans. <i>Biochemistry</i> , 2010 , 49, 5225-35	3.2	68
110	Rmt1 catalyzes zinc-finger independent arginine methylation of ribosomal protein Rps2 in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2010 , 391, 1658-62	3.4	20
109	Two novel methyltransferases acting upon eukaryotic elongation factor 1A in <i>Saccharomyces cerevisiae</i> . <i>Archives of Biochemistry and Biophysics</i> , 2010 , 500, 137-43	4.1	46
108	Formation of N ^G -homomethylarginine as the sole product of human protein arginine methyltransferase 7 (PRMT7): a true type III methyltransferase?. <i>FASEB Journal</i> , 2010 , 24, 904.5	0.9	
107	Bioinformatic Identification of Novel Methyltransferases. <i>Epigenomics</i> , 2009 , 1, 163-175	4.4	40
106	A type III protein arginine methyltransferase from the protozoan parasite <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 11590-600	5.4	44
105	Multiple Motif Scanning to identify methyltransferases from the yeast proteome. <i>Molecular and Cellular Proteomics</i> , 2009 , 8, 1516-26	7.6	57
104	Defective responses to oxidative stress in protein l-isoaspartyl repair-deficient <i>Caenorhabditis elegans</i> . <i>Mechanisms of Ageing and Development</i> , 2009 , 130, 670-80	5.6	22

103	Protein arginine methylation in mammals: who, what, and why. <i>Molecular Cell</i> , 2009 , 33, 1-13	17.6	1221
102	The protein L-isoaspartyl-O-methyltransferase functions in the <i>Caenorhabditis elegans</i> stress response. <i>Mechanisms of Ageing and Development</i> , 2008 , 129, 752-8	5.6	9
101	L-Ascorbate biosynthesis in higher plants: the role of VTC2. <i>Trends in Plant Science</i> , 2008 , 13, 567-73	13.1	155
100	Hsl7 is a substrate-specific type II protein arginine methyltransferase in yeast. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 372, 811-5	3.4	24
99	Chemo-enzymatic detection of protein isoaspartate using protein isoaspartate methyltransferase and hydrazine trapping. <i>Analytical Chemistry</i> , 2008 , 80, 3882-9	7.8	34
98	Identification of two SET domain proteins required for methylation of lysine residues in yeast ribosomal protein Rpl42ab. <i>Journal of Biological Chemistry</i> , 2008 , 283, 35561-8	5.4	36
97	A second GDP-L-galactose phosphorylase in arabidopsis en route to vitamin C. Covalent intermediate and substrate requirements for the conserved reaction. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18483-92	5.4	40
96	Protein-repair and hormone-signaling pathways specify dauer and adult longevity and dauer development in <i>Caenorhabditis elegans</i> . <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2008 , 63, 798-808	6.4	10
95	Regulation of protein arginine methyltransferase 8 (PRMT8) activity by its N-terminal domain. <i>Journal of Biological Chemistry</i> , 2007 , 282, 36444-53	5.4	82
94	Yeast ribosomal/cytochrome c SET domain methyltransferase subfamily: identification of Rpl23ab methylation sites and recognition motifs. <i>Journal of Biological Chemistry</i> , 2007 , 282, 12368-76	5.4	31
93	Autophagy and insulin/TOR signaling in <i>Caenorhabditis elegans</i> pcm-1 protein repair mutants. <i>Autophagy</i> , 2007 , 3, 357-9	10.2	8
92	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> , 2007 , 282, 8604-12	5.4	28
91	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> , 2007 , 104, 13857-8	11.5	19
90	S-adenosylmethionine-dependent protein methylation in mammalian cytosol via tyrphostin modification by catechol-O-methyltransferase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 31094-102	5.4	3
89	The L-isoaspartyl-O-methyltransferase in <i>Caenorhabditis elegans</i> larval longevity and autophagy. <i>Developmental Biology</i> , 2007 , 303, 493-500	3.1	20
88	<i>Arabidopsis</i> 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> , 2007 , 282, 18879-85	5.4	139
87	16 Inhibition of mammalian protein methyltransferases by 5S-methylthioadenosine (MTA): A mechanism of action of dietary same?. <i>The Enzymes</i> , 2006 , 24, 467-93	2.3	22
86	Identification and characterization of the methyl arginines in the fragile X mental retardation protein Fmrp. <i>Human Molecular Genetics</i> , 2006 , 15, 87-96	5.6	78

85	A novel SET domain methyltransferase in yeast: Rkm2-dependent trimethylation of ribosomal protein L12ab at lysine 10. <i>Journal of Biological Chemistry</i> , 2006 , 281, 35835-45	5.4	45
84	Proteomic identification of novel substrates of a protein isoaspartyl methyltransferase repair enzyme. <i>Journal of Biological Chemistry</i> , 2006 , 281, 32619-29	5.4	59
83	Intracellular protein modification associated with altered T cell functions in autoimmunity. <i>Journal of Immunology</i> , 2006 , 177, 4541-9	5.3	25
82	Arabidopsis Protein Repair L-Isoaspartyl Methyltransferases: Predominant Activities at Lethal Temperatures. <i>Physiologia Plantarum</i> , 2006 , 128, 581-592	4.6	22
81	A novel methyltransferase required for the formation of the hypermodified nucleoside wybutosine in eucaryotic tRNA. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 433-40	3.4	29
80	Activation of the PI3K/Akt signal transduction pathway and increased levels of insulin receptor in protein repair-deficient mice. <i>Aging Cell</i> , 2005 , 4, 1-12	9.9	41
79	Increased cell proliferation and granule cell number in the dentate gyrus of protein repair-deficient mice. <i>Journal of Comparative Neurology</i> , 2005 , 493, 524-37	3.4	23
78	Diet-dependent survival of protein repair-deficient mice. <i>Journal of Nutritional Biochemistry</i> , 2005 , 16, 554-61	6.3	6
77	A novel SET domain methyltransferase modifies ribosomal protein Rpl23ab in yeast. <i>Journal of Biological Chemistry</i> , 2005 , 280, 34590-8	5.4	41
76	PRMT8, a new membrane-bound tissue-specific member of the protein arginine methyltransferase family. <i>Journal of Biological Chemistry</i> , 2005 , 280, 32890-6	5.4	180
75	PRMT7 is a member of the protein arginine methyltransferase family with a distinct substrate specificity. <i>Journal of Biological Chemistry</i> , 2004 , 279, 22902-7	5.4	148
74	A second protein L-isoaspartyl methyltransferase gene in Arabidopsis produces two transcripts whose products are sequestered in the nucleus. <i>Plant Physiology</i> , 2004 , 136, 2652-64	6.6	49
73	A new type of protein methylation activated by tyrphostin A25 and vanadate. <i>FEBS Letters</i> , 2004 , 577, 181-6	3.8	10
72	Improved rotorod performance and hyperactivity in mice deficient in a protein repair methyltransferase. <i>Behavioural Brain Research</i> , 2004 , 153, 129-41	3.4	30
71	Spliceosome Sm proteins D1, D3, and B/BS are asymmetrically dimethylated at arginine residues in the nucleus. <i>Biochemical and Biophysical Research Communications</i> , 2004 , 323, 382-7	3.4	37
70	Fighting cancer by disrupting C-terminal methylation of signaling proteins. <i>Journal of Clinical Investigation</i> , 2004 , 113, 513-5	15.9	10
69	IadA Isoaspartyl dipeptidase 2004 , 972-977		
68	Novel methyltransferase for modified uridine residues at the wobble position of tRNA. <i>Molecular and Cellular Biology</i> , 2003 , 23, 9283-92	4.8	129

67	Aging as war between chemical and biochemical processes: protein methylation and the recognition of age-damaged proteins for repair. <i>Ageing Research Reviews</i> , 2003 , 2, 263-85	12	223
66	Automated identification of putative methyltransferases from genomic open reading frames. <i>Molecular and Cellular Proteomics</i> , 2003 , 2, 525-40	7.6	134
65	Crystal structure of human L-isoaspartyl methyltransferase. <i>Journal of Biological Chemistry</i> , 2002 , 277, 10642-6	5.4	20
64	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> , 2002 , 277, 1058-65	5.4	17
63	The novel human protein arginine N-methyltransferase PRMT6 is a nuclear enzyme displaying unique substrate specificity. <i>Journal of Biological Chemistry</i> , 2002 , 277, 3537-43	5.4	257
62	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> , 2002 , 277, 27856-63	5.4	33
61	The methylator meets the terminator. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1104-6	11.5	20
60	Can Elevated Plasma Homocysteine Levels Result in the Inhibition of Intracellular Methyltransferases? 2002 , 557-562		3
59	7 Postisoprenylation protein processing: CXXX (CaaX) endoproteases and isoprenylcysteine carboxyl methyltransferase. <i>The Enzymes</i> , 2001 , 21, 155-213	2.3	25
58	Limited accumulation of damaged proteins in l-isoaspartyl (D-aspartyl) O-methyltransferase-deficient mice. <i>Journal of Biological Chemistry</i> , 2001 , 276, 20695-702	5.4	59
57	PRMT5 (Janus kinase-binding protein 1) catalyzes the formation of symmetric dimethylarginine residues in proteins. <i>Journal of Biological Chemistry</i> , 2001 , 276, 32971-6	5.4	290
56	Distinct patterns of expression but similar biochemical properties of protein L-isoaspartyl methyltransferase in higher plants. <i>Plant Physiology</i> , 2001 , 125, 1023-35	6.6	31
55	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> , 2001 , 395, 239-45	4.1	25
54	Crystal structure of a protein repair methyltransferase from <i>Pyrococcus furiosus</i> with its L-isoaspartyl peptide substrate. <i>Journal of Molecular Biology</i> , 2001 , 313, 1103-16	6.5	50
53	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> , 2001 , 123, 3499-506	16.4	105
52	Distinct reactions catalyzed by bacterial and yeast trans-aconitate methyltransferases. <i>Biochemistry</i> , 2001 , 40, 2210-9	3.2	23
51	A novel post-translational modification of yeast elongation factor 1A. Methyl esterification at the C terminus. <i>Journal of Biological Chemistry</i> , 2000 , 275, 37150-8	5.4	36
50	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> , 2000 , 275, 32974-82	5.4	86

49	PRMT1 is the predominant type I protein arginine methyltransferase in mammalian cells. <i>Journal of Biological Chemistry</i> , 2000 , 275, 7723-30	5.4	319
48	Expression, purification, and characterization of the protein repair L-isoaspartyl methyltransferase from <i>Arabidopsis thaliana</i> . <i>Protein Expression and Purification</i> , 2000 , 20, 237-51	2	20
47	S-Adenosylmethionine-dependent methylation in <i>Saccharomyces cerevisiae</i> . Identification of a novel protein arginine methyltransferase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 814-24	5.4	181
46	Phenotypic analysis of seizure-prone mice lacking L-isoaspartate (D-aspartate) O-methyltransferase. <i>Journal of Biological Chemistry</i> , 1999 , 274, 20671-8	5.4	52
45	Do damaged proteins accumulate in <i>Caenorhabditis elegans</i> L-isoaspartate methyltransferase (pcm-1) deletion mutants?. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 364, 209-18	4.1	17
44	A highly conserved 3-methylhistidine modification is absent in yeast actin. <i>Archives of Biochemistry and Biophysics</i> , 1999 , 370, 105-11	4.1	32
43	A PROTEIN CARBOXYL METHYLTRANSFERASE THAT RECOGNIZES AGE-DAMAGED PEPTIDES AND PROTEINS AND PARTICIPATES IN THEIR REPAIR 1999 , 123-148		6
42	Mutations in the <i>Escherichia coli</i> surE gene increase isoaspartyl accumulation in a strain lacking the pcm repair methyltransferase but suppress stress-survival phenotypes. <i>FEMS Microbiology Letters</i> , 1998 , 167, 19-25	2.9	32
41	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> , 1998 , 273, 16935-45	5.4	247
40	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> , 1998 , 358, 222-31	4.1	50
39	delta-N-methylarginine is a novel posttranslational modification of arginine residues in yeast proteins. <i>Journal of Biological Chemistry</i> , 1998 , 273, 29283-6	5.4	54
38	RNA and protein interactions modulated by protein arginine methylation. <i>Progress in Molecular Biology and Translational Science</i> , 1998 , 61, 65-131		404
37	The L-isoaspartyl protein repair methyltransferase enhances survival of aging <i>Escherichia coli</i> subjected to secondary environmental stresses. <i>Journal of Bacteriology</i> , 1998 , 180, 2623-9	3.5	67
36	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> , 1997 , 348, 320-8	4.1	42
35	Molecular phylogenetics of a protein repair methyltransferase. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 1997 , 117, 379-85	2.3	40
34	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> , 1996 , 271, 15034-44	5.4	353
33	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> , 1996 , 118, 9148-9155	16.4	124
32	A distinctly regulated protein repair L-isoaspartylmethyltransferase from <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 1996 , 30, 723-37	4.6	30

31	The predominant protein-arginine methyltransferase from <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 1996 , 271, 12585-94	5.4	160
30	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> , 1995 , 45, 547-53		48
29	Repair, refold, recycle: how bacteria can deal with spontaneous and environmental damage to proteins. <i>Molecular Microbiology</i> , 1995 , 16, 835-45	4.1	99
28	Exceptional Seed Longevity and Robust Growth: Ancient Sacred Lotus from China. <i>American Journal of Botany</i> , 1995 , 82, 1367	2.7	82
27	Purification and characterization of an isoaspartyl dipeptidase from <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 1995 , 270, 4076-87	5.4	33
26	Chapter 12 Why are proteins methylated?. <i>Principles of Medical Biology</i> , 1995 , 4, 287-303		
25	Protein aging Extracellular amyloid formation and intracellular repair. <i>Trends in Cardiovascular Medicine</i> , 1994 , 4, 3-8	6.9	7
24	Protein methylation. <i>Current Opinion in Cell Biology</i> , 1993 , 5, 977-83	9	193
23	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> , 1993 , 32, 11100-11108	3.2	73
22	Spontaneous degradation of polypeptides at aspartyl and asparaginyl residues: effects of the solvent dielectric. <i>Protein Science</i> , 1993 , 2, 331-8	6.3	100
21	Modification of eukaryotic signaling proteins by C-terminal methylation reactions 1993 , 59, 281-300		44
20	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> , 1992 , 185, 277-83	3.4	32
19	Protein isoprenylation and methylation at carboxyl-terminal cysteine residues. <i>Annual Review of Biochemistry</i> , 1992 , 61, 355-86	29.1	831
18	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> , 1991 , 175, 351-8	3.4	18
17	Spontaneous degradation and enzymatic repair of aspartyl and asparaginyl residues in aging red cell proteins analyzed by computer simulation. <i>Gerontology</i> , 1991 , 37, 128-51	5.5	26
16	The fidelity of protein synthesis: can mischarging by aspartyl-tRNA(Asp) synthetase lead to the formation of isoaspartyl residues in proteins?. <i>BBA - Proteins and Proteomics</i> , 1990 , 1040, 153-8		6
15	Replacement of a labile aspartyl residue increases the stability of human epidermal growth factor. <i>Biochemistry</i> , 1990 , 29, 9584-91	3.2	49
14	The gamma subunit of brain G-proteins is methyl esterified at a C-terminal cysteine. <i>FEBS Letters</i> , 1990 , 260, 313-7	3.8	55

13	Multiple sites of methyl esterification of calmodulin in intact human erythrocytes. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 279, 320-7	4.1	23
12	Calcium affects the spontaneous degradation of aspartyl/asparaginyl residues in calmodulin. <i>Biochemistry</i> , 1989 , 28, 4020-7	3.2	37
11	Two major isozymes of the protein D-aspartyl/L-isoaspartyl methyltransferase from human erythrocytes. <i>Biochemical and Biophysical Research Communications</i> , 1988 , 151, 1136-43	3.4	30
10	Propensity for spontaneous succinimide formation from aspartyl and asparaginyl residues in cellular proteins. <i>International Journal of Peptide and Protein Research</i> , 1987 , 30, 808-21		281
9	N-terminal methylation of proteins: structure, function and specificity. <i>FEBS Letters</i> , 1987 , 220, 8-14	3.8	84
8	Protein carboxyl methyltransferase and methyl acceptor proteins in aging and cataractous tissue of the human eye lens. <i>Mechanisms of Ageing and Development</i> , 1986 , 34, 91-105	5.6	32
7	Protein Methylation at Abnormal Aspartyl Residues 1986 , 3-14		5
6	Analysis of erythrocyte protein methyl esters by two-dimensional gel electrophoresis under acidic separating conditions. <i>Analytical Biochemistry</i> , 1985 , 148, 79-86	3.1	26
5	Demethylation of protein carboxyl methyl esters: a nonenzymatic process in human erythrocytes?. <i>Biochemistry</i> , 1985 , 24, 4867-71	3.2	14
4	Isolation of D-aspartic acid beta-methyl ester from erythrocyte carboxyl methylated proteins. <i>Methods in Enzymology</i> , 1984 , 106, 330-44	1.7	12
3	Do eukaryotic carboxyl methyltransferase regulate protein function?. <i>Trends in Biochemical Sciences</i> , 1983 , 8, 391-394	10.3	34
2	S-adenosyl-L-methionine synthetase from human erythrocytes: role in the regulation of cellular S-adenosylmethionine levels. <i>Biochemistry</i> , 1983 , 22, 2978-86	3.2	73
1	In vitro methylation of bacterial chemotaxis proteins: characterization of protein methyltransferase activity in crude extracts of <i>Salmonella typhimurium</i> . <i>Journal of Supramolecular Structure</i> , 1980 , 13, 315-28		34