

Kazuei Igarashi

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146
papers

7,429
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43
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82
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147
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8,108
ext. citations

4.4
avg, IF

5.91
L-index

#	Paper	IF	Citations
146	Ornithine decarboxylase is degraded by the 26S proteasome without ubiquitination. <i>Nature</i> , 1992 , 360, 597-9	50.4	693
145	Polyamines: mysterious modulators of cellular functions. <i>Biochemical and Biophysical Research Communications</i> , 2000 , 271, 559-64	3.4	692
144	Modulation of cellular function by polyamines. <i>International Journal of Biochemistry and Cell Biology</i> , 2010 , 42, 39-51	5.6	564
143	Polyamine transport in bacteria and yeast. <i>Biochemical Journal</i> , 1999 , 344, 633-642	3.8	196
142	Decrease in polyamines with aging and their ingestion from food and drink. <i>Journal of Biochemistry</i> , 2006 , 139, 81-90	3.1	168
141	Channel blockers acting at N-methyl-D-aspartate receptors: differential effects of mutations in the vestibule and ion channel pore. <i>Molecular Pharmacology</i> , 2002 , 61, 533-45	4.3	151
140	Excretion and uptake of cadaverine by CadB and its physiological functions in Escherichia coli. <i>Molecular Microbiology</i> , 2004 , 51, 1401-12	4.1	140
139	A regulatory domain (R1-R2) in the amino terminus of the N-methyl-D-aspartate receptor: effects of spermine, protons, and ifenprodil, and structural similarity to bacterial leucine/isoleucine/valine binding protein. <i>Molecular Pharmacology</i> , 1999 , 55, 957-69	4.3	139
138	Polyamine cytotoxicity in the presence of bovine serum amine oxidase. <i>Biochemical and Biophysical Research Communications</i> , 2001 , 282, 228-35	3.4	138
137	Inhibition by polyamines of lipid peroxide formation in rat liver microsomes. <i>Biochemical and Biophysical Research Communications</i> , 1979 , 87, 388-94	3.4	138
136	Polyamine oxidase and acrolein as novel biochemical markers for diagnosis of cerebral stroke. <i>Stroke</i> , 2005 , 36, 2609-13	6.7	137
135	Characteristics of cellular polyamine transport in prokaryotes and eukaryotes. <i>Plant Physiology and Biochemistry</i> , 2010 , 48, 506-12	5.4	128
134	Polyamine Modulon in Escherichia coli: genes involved in the stimulation of cell growth by polyamines. <i>Journal of Biochemistry</i> , 2006 , 139, 11-6	3.1	126
133	A unifying model for the role of polyamines in bacterial cell growth, the polyamine modulon. <i>Journal of Biological Chemistry</i> , 2004 , 279, 46008-13	5.4	118
132	Increase in putrescine, amine oxidase, and acrolein in plasma of renal failure patients. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 305, 143-9	3.4	112
131	Independent roles of eIF5A and polyamines in cell proliferation. <i>Biochemical Journal</i> , 2005 , 385, 779-85	3.8	108
130	Effect of polyamines of polyphenylalanine synthesis by Escherichia coli and rat-liver ribosomes. <i>FEBS Journal</i> , 1974 , 48, 495-502		107

129	Polyamines and their metabolites as diagnostic markers of human diseases. <i>Biomolecules and Therapeutics</i> , 2013 , 21, 1-9	4.2	94
128	Acrolein toxicity: Comparison with reactive oxygen species. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 378, 313-8	3.4	94
127	Essential role of S-adenosylmethionine decarboxylase in mouse embryonic development. <i>Genes To Cells</i> , 2002 , 7, 41-7	2.3	93
126	Modulation of protein synthesis by polyamines. <i>IUBMB Life</i> , 2015 , 67, 160-9	4.7	91
125	The role of ribosome recycling factor in dissociation of 70S ribosomes into subunits. <i>Rna</i> , 2005 , 11, 1317-28	5.8	79
124	Excretion and uptake of putrescine by the PotE protein in Escherichia coli. <i>Journal of Biological Chemistry</i> , 1997 , 272, 6318-23	5.4	75
123	Intense correlation between brain infarction and protein-conjugated acrolein. <i>Stroke</i> , 2009 , 40, 3356-61	6.7	73
122	Polyamine uptake by DUR3 and SAM3 in Saccharomyces cerevisiae. <i>Journal of Biological Chemistry</i> , 2007 , 282, 7733-41	5.4	73
121	Crystal structure of PotD, the primary receptor of the polyamine transport system in Escherichia coli. <i>Journal of Biological Chemistry</i> , 1996 , 271, 9519-25	5.4	73
120	Identification of a spermidine excretion protein complex (MdtJI) in Escherichia coli. <i>Journal of Bacteriology</i> , 2008 , 190, 872-8	3.5	71
119	Polyamine transport in bacteria and yeast. <i>Biochemical Journal</i> , 1999 , 344, 633	3.8	69
118	Polyamine transport, accumulation, and release in brain. <i>Journal of Neurochemistry</i> , 2003 , 84, 610-7	6	66
117	Characteristics of the polyamine transporter TPO1 and regulation of its activity and cellular localization by phosphorylation. <i>Journal of Biological Chemistry</i> , 2005 , 280, 9646-52	5.4	62
116	N1-dansyl-spermine and N1-(n-octanesulfonyl)-spermine, novel glutamate receptor antagonists: block and permeation of N-methyl-D-aspartate receptors. <i>Molecular Pharmacology</i> , 1997 , 51, 861-71	4.3	60
115	Spermidine-preferential uptake system in Escherichia coli. Identification of amino acids involved in polyamine binding in PotD protein. <i>Journal of Biological Chemistry</i> , 1996 , 271, 12205-8	5.4	58
114	Correlation between the inhibition of cell growth by accumulated polyamines and the decrease of magnesium and ATP. <i>FEBS Journal</i> , 1993 , 217, 89-96		57
113	Brain infarction correlates more closely with acrolein than with reactive oxygen species. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 404, 1044-9	3.4	56
112	Polyamine stimulation of the synthesis of oligopeptide-binding protein (OppA). Involvement of a structural change of the Shine-Dalgarno sequence and the initiation codon aug in oppa mRNA. <i>Journal of Biological Chemistry</i> , 1999 , 274, 22723-8	5.4	54

111	Correlation between images of silent brain infarction, carotid atherosclerosis and white matter hyperintensity, and plasma levels of acrolein, IL-6 and CRP. <i>Atherosclerosis</i> , 2010 , 211, 475-9	3.1	51
110	The functional role of polyamines in eukaryotic cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2019 , 107, 104-115	5.6	50
109	Increased protein-conjugated acrolein and amyloid- β 40/42 ratio in plasma of patients with mild cognitive impairment and Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2012 , 32, 33-41	4.3	49
108	Acrolein, IL-6 and CRP as markers of silent brain infarction. <i>Atherosclerosis</i> , 2009 , 203, 557-62	3.1	49
107	Identification of the putrescine recognition site on polyamine transport protein PotE. <i>Journal of Biological Chemistry</i> , 2000 , 275, 36007-12	5.4	49
106	Polyamine depletion induces apoptosis through mitochondria-mediated pathway. <i>Experimental Cell Research</i> , 2002 , 276, 120-8	4.2	46
105	Effect of polyamines on globin synthesis in a rabbit reticulocyte polyamine-free protein synthetic system. <i>Journal of Biochemistry</i> , 1989 , 105, 164-7	3.1	45
104	Protein-conjugated acrolein as a biochemical marker of brain infarction. <i>Molecular Nutrition and Food Research</i> , 2011 , 55, 1332-41	5.9	43
103	Molecular mechanism of polyamine stimulation of the synthesis of oligopeptide-binding protein. <i>Journal of Biological Chemistry</i> , 1997 , 272, 4058-64	5.4	43
102	Binding of spermine and ifenprodil to a purified, soluble regulatory domain of the N-methyl-D-aspartate receptor. <i>Journal of Neurochemistry</i> , 2008 , 107, 1566-77	6	43
101	AMD1 is essential for ESC self-renewal and is translationally down-regulated on differentiation to neural precursor cells. <i>Genes and Development</i> , 2012 , 26, 461-73	12.6	41
100	Polyamine enhancement of the synthesis of adenylate cyclase at the translational level and the consequential stimulation of the synthesis of the RNA polymerase sigma 28 subunit. <i>Journal of Biological Chemistry</i> , 2001 , 276, 16289-95	5.4	41
99	Enhancement of +1 frameshift by polyamines during translation of polypeptide release factor 2 in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2006 , 281, 9527-37	5.4	40
98	Polyamines enhance synthesis of the RNA polymerase sigma 38 subunit by suppression of an amber termination codon in the open reading frame. <i>Journal of Biological Chemistry</i> , 2002 , 277, 37139-46	5.4	40
97	Formation of a complex containing ATP, Mg ²⁺ , and spermine. Structural evidence and biological significance. <i>Journal of Biological Chemistry</i> , 1998 , 273, 30939-44	5.4	39
96	Excretion of putrescine and spermidine by the protein encoded by YKL174c (TPO5) in <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2005 , 280, 12637-42	5.4	38
95	Effects of polyamines on protein synthesis and growth of. <i>Journal of Biological Chemistry</i> , 2018 , 293, 18702-18709	5.4	36
94	Enhanced biofilm formation and/or cell viability by polyamines through stimulation of response regulators UvrY and CpxR in the two-component signal transducing systems, and ribosome recycling factor. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 1877-86	5.6	36

93	Selective structural change by spermidine in the bulged-out region of double-stranded RNA and its effect on RNA function. <i>Journal of Biological Chemistry</i> , 2008 , 283, 32989-94	5-4	36
92	Decrease in the S1 protein of 30-S ribosomal subunits in polyamine-requiring mutants of <i>Escherichia coli</i> grown in the absence of polyamines. <i>FEBS Journal</i> , 1981 , 114, 127-31		35
91	Identification of the cadaverine recognition site on the cadaverine-lysine antiporter CadB. <i>Journal of Biological Chemistry</i> , 2006 , 281, 29213-20	5-4	34
90	Enhancement of the synthesis of RpoN, Cra, and H-NS by polyamines at the level of translation in <i>Escherichia coli</i> cultured with glucose and glutamate. <i>Journal of Bacteriology</i> , 2007 , 189, 2359-68	3-5	34
89	Uptake of putrescine and spermidine by Gap1p on the plasma membrane in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 2005 , 328, 1028-33	3-4	34
88	Differential stimulation by polyamines of phage RNA-directed synthesis of proteins. <i>Nucleic Acids and Protein Synthesis</i> , 1981 , 656, 134-9		34
87	Increase of fidelity of polypeptide synthesis by spermidine in eukaryotic cell-free systems. <i>FEBS Journal</i> , 1982 , 128, 597-604		33
86	Identification of proteins whose synthesis is preferentially enhanced by polyamines at the level of translation in mammalian cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2009 , 41, 2251-61	5-6	32
85	Transcriptional inhibition of the operon for the spermidine uptake system by the substrate-binding protein PotD. <i>Journal of Biological Chemistry</i> , 1999 , 274, 1942-8	5-4	32
84	Acrolein-conjugated low-density lipoprotein induces macrophage foam cell formation. <i>Atherosclerosis</i> , 2013 , 227, 51-7	3-1	31
83	Intense correlation between protein-conjugated acrolein and primary Sjögren's syndrome. <i>Clinica Chimica Acta</i> , 2010 , 411, 359-63	6-2	31
82	Involvement of polyamines in B cell receptor-mediated apoptosis: spermine functions as a negative modulator. <i>Experimental Cell Research</i> , 2001 , 265, 174-83	4-2	31
81	Relationship among activation of the Na ⁺ /H ⁺ antiporter, ornithine decarboxylase induction, and DNA synthesis. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 259, 171-8	4-1	31
80	Effect of polyamines on polypeptide synthesis in rat liver cell-free system. <i>Nucleic Acids and Protein Synthesis</i> , 1973 , 299, 325-30		31
79	Distinction between mild cognitive impairment and Alzheimer's disease by CSF amyloid β 0 and β 2, and protein-conjugated acrolein. <i>Clinica Chimica Acta</i> , 2014 , 430, 150-5	6-2	30
78	Identification of acrolein-conjugated protein in plasma of patients with brain infarction. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 391, 1234-9	3-4	30
77	Evaluation of dementia by acrolein, amyloid- β and creatinine. <i>Clinica Chimica Acta</i> , 2015 , 450, 56-63	6-2	29
76	Inverse correlation between stroke and urinary 3-hydroxypropyl mercapturic acid, an acrolein-glutathione metabolite. <i>Clinica Chimica Acta</i> , 2012 , 413, 753-9	6-2	29

75	Relationship between methylation of adenine near the 3' end of 16-S ribosomal RNA and the activity of 30-S ribosomal subunits. <i>FEBS Journal</i> , 1981 , 113, 587-93		29
74	Effect of polyamines on isoleucyl-tRNA formation by rat-liver isoleucyl-tRNA synthetase. <i>FEBS Journal</i> , 1978 , 82, 301-7		29
73	Role of polyamines at the G1/S boundary and G2/M phase of the cell cycle. <i>International Journal of Biochemistry and Cell Biology</i> , 2013 , 45, 1042-50	5.6	28
72	Augmented glutathione synthesis decreases acrolein toxicity. <i>Biochemical and Biophysical Research Communications</i> , 2012 , 418, 110-5	3.4	27
71	Inactivation of GAPDH as one mechanism of acrolein toxicity. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 1265-71	3.4	26
70	Acrolein toxicity at advanced age: present and future. <i>Amino Acids</i> , 2018 , 50, 217-228	3.5	25
69	Polyphenol extract from <i>Phellinus igniarius</i> protects against acrolein toxicity in vitro and provides protection in a mouse stroke model. <i>PLoS ONE</i> , 2015 , 10, e0122733	3.7	25
68	Ribosome modulation factor, an important protein for cell viability encoded by the polyamine modulon. <i>Journal of Biological Chemistry</i> , 2010 , 285, 28698-707	5.4	25
67	Polyamine modulon in yeast-Stimulation of COX4 synthesis by spermidine at the level of translation. <i>International Journal of Biochemistry and Cell Biology</i> , 2009 , 41, 2538-45	5.6	25
66	Overproduction of S-adenosylmethionine decarboxylase in ethylglyoxal-bis(guanylhydrazine)-resistant mouse FM3A cells. <i>FEBS Journal</i> , 1993 , 215, 247-53		23
65	The pore region of N-methyl-D-aspartate receptors differentially influences stimulation and block by spermine. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 327, 68-77	4.7	22
64	Structural and functional relationship among diamines in terms of inhibition of cell growth. <i>Journal of Biochemistry</i> , 2004 , 136, 533-9	3.1	22
63	Practical fluorescence detection of acrolein in human plasma via a two-step tethering approach. <i>Chemical Communications</i> , 2014 , 50, 14946-8	5.8	21
62	Enhancement of the synthesis of RpoE and StpA by polyamines at the level of translation in <i>Escherichia coli</i> under heat shock conditions. <i>Journal of Bacteriology</i> , 2009 , 191, 5348-57	3.5	21
61	Anthraquinone polyamines: novel channel blockers to study N-methyl-D-aspartate receptors. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004 , 309, 884-93	4.7	21
60	The ATPase activity and the functional domain of PotA, a component of the spermidine-preferential uptake system in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2002 , 277, 24212-9	5.4	21
59	Correlation between spermine stimulation of rat liver Ile-tRNA formation and structural change of the acceptor stem by spermine. <i>Biochemical and Biophysical Research Communications</i> , 1991 , 177, 745-50	3.4	20
58	Structure and function of polyamine-amino acid antiporters CadB and PotE in <i>Escherichia coli</i> . <i>Amino Acids</i> , 2012 , 42, 733-40	3.5	19

57	Dependency of spermidine stimulation of polypeptide synthesis on the uracil content of messenger ribonucleic acid. <i>Biochemical and Biophysical Research Communications</i> , 1975 , 67, 407-13	3.4	19
56	Aggravation of brain infarction through an increase in acrolein production and a decrease in glutathione with aging. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 473, 630-5	3.4	19
55	Distinguishing mild cognitive impairment from Alzheimer's disease with acrolein metabolites and creatinine in urine. <i>Clinica Chimica Acta</i> , 2015 , 441, 115-21	6.2	18
54	Increase in cell viability by polyamines through stimulation of the synthesis of ppGpp regulatory protein and σ protein of RNA polymerase in Escherichia coli. <i>International Journal of Biochemistry and Cell Biology</i> , 2012 , 44, 412-22	5.6	18
53	Polyamines release the let-7b-mediated suppression of initiation codon recognition during the protein synthesis of EXT2. <i>Scientific Reports</i> , 2016 , 6, 33549	4.9	17
52	Properties of putrescine uptake by PotFGHI and PuuP and their physiological significance in Escherichia coli. <i>Amino Acids</i> , 2014 , 46, 661-70	3.5	17
51	Three members of polyamine modulon under oxidative stress conditions: two transcription factors (SoxR and EmrR) and a glutathione synthetic enzyme (GshA). <i>PLoS ONE</i> , 2015 , 10, e0124883	3.7	17
50	Activation of MMP-9 activity by acrolein in saliva from patients with primary Sjögren's syndrome and its mechanism. <i>International Journal of Biochemistry and Cell Biology</i> , 2017 , 88, 84-91	5.6	15
49	Increase in acrolein-conjugated immunoglobulins in saliva from patients with primary Sjögren's syndrome. <i>Clinica Chimica Acta</i> , 2015 , 450, 184-9	6.2	15
48	Acrolein stimulates the synthesis of IL-6 and C-reactive protein (CRP) in thrombosis model mice and cultured cells. <i>Journal of Neurochemistry</i> , 2013 , 127, 652-9	6	15
47	Structural changes of regulatory domain heterodimer of N-methyl-D-aspartate receptor subunits GluN1 and GluN2B through the binding of spermine and ifenprodil. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012 , 343, 82-90	4.7	15
46	Selective structural change of bulged-out region of double-stranded RNA containing bulged nucleotides by spermidine. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 370, 572-7	3.4	15
45	Use of polyamine metabolites as markers for stroke and renal failure. <i>Methods in Molecular Biology</i> , 2011 , 720, 395-408	1.4	14
44	Protective Effects of Brain Infarction by -Acetylcysteine Derivatives. <i>Stroke</i> , 2018 , 49, 1727-1733	6.7	13
43	Polyamine stimulation of eEF1A synthesis based on the unusual position of a complementary sequence to 18S rRNA in eEF1A mRNA. <i>Amino Acids</i> , 2015 , 47, 345-56	3.5	12
42	Utility of SPM8 plus DARTEL (VSRAD) combined with magnetic resonance spectroscopy as adjunct techniques for screening and predicting dementia due to Alzheimer's disease in clinical practice. <i>Journal of Alzheimer's Disease</i> , 2014 , 41, 1207-22	4.3	12
41	Characterization of genes for polyamine modulon. <i>Methods in Molecular Biology</i> , 2011 , 720, 51-65	1.4	12
40	MINDY1 Is a Downstream Target of the Polyamines and Promotes Embryonic Stem Cell Self-Renewal. <i>Stem Cells</i> , 2018 , 36, 1170-1178	5.8	11

39	Differential stimulation by polyamines of phage DNA-directed in vitro synthesis of proteins. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 1983 , 740, 362-8		11
38	Stimulation by polyamines of enzymatic methylation of two adjacent adenines near the 3' end of 16S ribosomal RNA of Escherichia coli. <i>Biochemical and Biophysical Research Communications</i> , 1980 , 96, 678-84	3.4	11
37	Assessing acrolein for determination of the severity of brain stroke, dementia, renal failure, and Sjögren's syndrome. <i>Amino Acids</i> , 2020 , 52, 119-127	3.5	11
36	Properties of a revertant of Escherichia coli viable in the presence of spermidine accumulation: increase in L-glycerol 3-phosphate. <i>Journal of Bacteriology</i> , 2001 , 183, 4493-8	3.5	10
35	Decrease in acrolein toxicity based on the decline of polyamine oxidases. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 79, 151-157	5.6	9
34	Toxic acrolein production due to Ca ²⁺ influx by the NMDA receptor during stroke. <i>Atherosclerosis</i> , 2016 , 244, 131-7	3.1	9
33	Spermidine and Ca ²⁺ , but not Na ⁺ , can permeate NMDA receptors consisting of GluN1 and GluN2A or GluN2B in the presence of Mg ²⁺ . <i>Biochemical and Biophysical Research Communications</i> , 2015 , 463, 1190-5	3.4	8
32	Polyamines regulate gene expression by stimulating translation of histone acetyltransferase mRNAs. <i>Journal of Biological Chemistry</i> , 2020 , 295, 8736-8745	5.4	8
31	Recent Progress in Analytical Methods for Determination of Urinary 3-Hydroxypropylmercapturic Acid, a Major Metabolite of Acrolein. <i>Biological and Pharmaceutical Bulletin</i> , 2016 , 39, 915-9	2.3	8
30	Spermine oxidase promotes bile canalicular lumen formation through acrolein production. <i>Scientific Reports</i> , 2017 , 7, 14841	4.9	8
29	Acetaldehyde-induced cytotoxicity involves induction of spermine oxidase at the transcriptional level. <i>Toxicology</i> , 2013 , 310, 1-7	4.4	7
28	Identification of functional amino acid residues involved in polyamine and agmatine transport by human organic cation transporter 2. <i>PLoS ONE</i> , 2014 , 9, e102234	3.7	7
27	Polyamine-Rich Diet Elevates Blood Spermine Levels and Inhibits Pro-Inflammatory Status: An Interventional Study. <i>Medical Sciences (Basel, Switzerland)</i> , 2021 , 9,	3.3	7
26	Polyamines stimulate the CHSY1 synthesis through the unfolding of the RNA G-quadruplex at the 5' untranslated region. <i>Biochemical Journal</i> , 2018 , 475, 3797-3812	3.8	7
25	Inhibition of dendritic spine extension through acrolein conjugation with β -tubulin proteins. <i>International Journal of Biochemistry and Cell Biology</i> , 2019 , 113, 58-66	5.6	6
24	Molecular mechanism underlying promiscuous polyamine recognition by spermidine acetyltransferase. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 76, 87-97	5.6	6
23	Antagonism of NMDA receptors by butanesulfonyl-homospermine guanidine and neuroprotective effects in in vitro and in vivo. <i>Neuroscience Letters</i> , 2012 , 506, 251-5	3.3	6
22	Relationship between metabolic disorders and relative risk values of brain infarction estimated by protein-conjugated acrolein, IL-6 and CRP together with age. <i>Clinica Chimica Acta</i> , 2011 , 412, 339-42	6.2	6

21	Identification and functions of amino acid residues in PotB and PotC involved in spermidine uptake activity. <i>Journal of Biological Chemistry</i> , 2010 , 285, 39061-9	5-4	6
20	Ischemic stroke disrupts the endothelial glycocalyx through activation of proHPSE via acrolein exposure. <i>Journal of Biological Chemistry</i> , 2020 , 295, 18614-18624	5-4	6
19	N-Nonyl-1,4-diaminobutane ameliorates brain infarction size in photochemically induced thrombosis model mice. <i>Neuroscience Letters</i> , 2018 , 672, 118-122	3-3	5
18	In vitro and in vivo evaluation of polymethylene tetraamine derivatives as NMDA receptor channel blockers. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2013 , 23, 3901-4	2-9	5
17	Analysis of the acrolein-modified sites of apolipoprotein B-100 in LDL. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021 , 1866, 158809	5	5
16	KLF4 is required for suppression of histamine synthesis by polyamines during bone marrow-derived mast cell differentiation. <i>PLoS ONE</i> , 2020 , 15, e0229744	3-7	4
15	Modulation of Protein Synthesis by Polyamines in Mammalian Cells. <i>Methods in Molecular Biology</i> , 2018 , 1694, 325-336	1-4	4
14	Polyamine Regulator AMD1 Promotes Cell Migration in Epidermal Wound Healing. <i>Journal of Investigative Dermatology</i> , 2018 , 138, 2653-2665	4-3	4
13	Acrolein: An Effective Biomarker for Tissue Damage Produced from Polyamines. <i>Methods in Molecular Biology</i> , 2018 , 1694, 459-468	1-4	4
12	Structural change and degradation of cytoskeleton due to the acrolein conjugation with vimentin and actin during brain infarction. <i>Cytoskeleton</i> , 2020 , 77, 414-421	2-4	4
11	Effect of Spermidine Analogues on Cell Growth of Escherichia coli Polyamine Requiring Mutant MA261. <i>PLoS ONE</i> , 2016 , 11, e0159494	3-7	4
10	Translational Regulation of Clock Genes BMAL1 and REV-ERB β by Polyamines. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6-3	4
9	Determination of 3-hydroxypropylmercapturic acid in urine by three column-switching high-performance liquid chromatography with electrochemical detection using a diamond electrode. <i>Journal of Chromatography A</i> , 2017 , 1517, 79-85	4-5	3
8	Functional roles of polyamines and their metabolite acrolein in eukaryotic cells. <i>Amino Acids</i> , 2021 , 53, 1473-1492	3-5	3
7	Correlation between brain damage, associated biomarkers, and medication in psychiatric inpatients: A cross-sectional study. <i>Clinica Chimica Acta</i> , 2017 , 464, 50-56	6-2	2
6	The Polyamine Putrescine Promotes Human Epidermal Melanogenesis. <i>Journal of Investigative Dermatology</i> , 2020 , 140, 2032-2040.e1	4-3	2
5	Cytotoxic Mechanism of Excess Polyamines Functions through Translational Repression of Specific Proteins Encoded by Polyamine Modulon. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6-3	2
4	Development of an ELISA for Measurement of Urinary 3-Hydroxypropyl Mercapturic Acid (3-HPMA), the Marker of Stroke. <i>Medical Sciences (Basel, Switzerland)</i> , 2020 , 8,	3-3	2

3	Time dependent transition of the levels of protein-conjugated acrolein (PC-Acro), IL-6 and CRP in plasma during stroke. <i>ENeurologicalSci</i> , 2017 , 7, 18-24	2.1	1
2	Plasma acrolein level in rheumatoid arthritis increases independently of the disease characteristics. <i>Modern Rheumatology</i> , 2021 , 31, 357-364	3.3	1
1	The Polyamine Regulator AMD1 Upregulates Spermine Levels to Drive Epidermal Differentiation. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 2178-2188.e6	4.3	1