Tuomo A KeinÃ¤nen

List of Publications by Year
in descending order

77 papers	1,829 citations	257450 24 h-index	289244 40 g-index
77 all docs	77 docs citations	77 times ranked	1684 citing authors

#	Article	IF	Citations
1	Genetic approaches to the cellular functions of polyamines in mammals. FEBS Journal, 2004, 271, 877-894.	0.2	174
2	Monitoring of the uptake and metabolism of aminooxy analogues of polyamines in cultured cells by high-performance liquid chromatography. Biomedical Applications, 1992, 574, 17-21.	1.7	118
3	Detection of Prostate Cancer by an Electronic Nose: A Proof of Principle Study. Journal of Urology, 2014, 192, 230-235.	0.4	72
4	Polyamine-regulated unproductive splicing and translation of spermidine/spermine N1-acetyltransferase. Rna, 2006, 12, 1569-1582.	3.5	59
5	Role of Hypusinated Eukaryotic Translation Initiation Factor 5A in Polyamine Depletion-induced Cytostasis. Journal of Biological Chemistry, 2007, 282, 34700-34706.	3.4	58
6	A Polyamine Analogue Prevents Acute Pancreatitis and Restores Early Liver Regeneration in Transgenic Rats with Activated Polyamine Catabolism. Journal of Biological Chemistry, 2002, 277, 39867-39872.	3.4	55
7	Animal disease models generated by genetic engineering of polyamine metabolism. Journal of Cellular and Molecular Medicine, 2005, 9, 865-882.	3.6	55
8	Analysis of underivatized polyamines by reversed phase liquid chromatography with electrospray tandem mass spectrometry. Journal of Pharmaceutical and Biomedical Analysis, 2007, 45, 625-634.	2.8	51
9	Chemically induced oxidative stress increases polyamine levels by activating the transcription of ornithine decarboxylase and spermidine/spermine-N1-acetyltransferase in human hepatoma HUH7 cells. Biochimie, 2012, 94, 1876-1883.	2.6	49
10	Activated Polyamine Catabolism in Acute Pancreatitis. American Journal of Pathology, 2006, 168, 115-122.	3.8	44
11	Targeted Disruption of Spermidine/SpermineN 1-Acetyltransferase Gene in Mouse Embryonic Stem Cells. Journal of Biological Chemistry, 2002, 277, 25323-25328.	3.4	43
12	Metabolic Stability of Î±-Methylated Polyamine Derivatives and Their Use as Substitutes for the Natural Polyamines. Journal of Biological Chemistry, 2005, 280, 6595-6601.	3.4	42
13	Mice with targeted disruption of spermidine/spermine N¹-acetyltransferase gene maintain nearly normal tissue polyamine homeostasis but show signs of insulin resistance upon aging. Journal of Cellular and Molecular Medicine, 2006, 10, 933-945.	3.6	42
14	Genetic Manipulation of Polyamine Catabolism in Rodents. Journal of Biochemistry, 2006, 139, 155-160.	1.7	40
15	Spermidine is indispensable in differentiation of 3T3â€Ł1 fibroblasts to adipocytes. Journal of Cellular and Molecular Medicine, 2010, 14, 1683-1692.	3.6	38
16	DNA Condensation by Chiral Î±-Methylated Polyamine Analogues and Protection of Cellular DNA from Oxidative Damage. Biomacromolecules, 2010, 11, 97-105.	5.4	37
17	Polyamine Metabolism Is Sensitive to Glycolysis Inhibition in Human Neuroblastoma Cells. Journal of Biological Chemistry, 2015, 290, 6106-6119.	3.4	36
18	Synthesis of hydroxylamine analogues of polyamines. Tetrahedron, 1996, 52, 13751-13766.	1.9	35

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19	Disturbed Keratinocyte Differentiation in Transgenic Mice and Organotypic Keratinocyte Cultures as a Result of Spermidine/Spermine N1-Acetyltransferase Overexpression. Journal of Investigative Dermatology, 2005, 124, 596-601.	0.7	33
20	Î±-Methyl Polyamines:Â Efficient Synthesis and Tolerance Studies in Vivo and in Vitro. First Evidence for Dormant Stereospecificity of Polyamine Oxidase. Journal of Medicinal Chemistry, 2006, 49, 399-406.	6.4	33
21	Urinary Polyamines as Biomarkers for Ovarian Cancer. International Journal of Gynecological Cancer, 2017, 27, 1360-1366.	2.5	31
22	Polyamine-dependent alterations in the structure of microfilaments, golgi apparatus, endoplasmic reticulum, and proteoglycan synthesis in BHK cells. Journal of Cellular Biochemistry, 1997, 66, 165-174.	2.6	29
23	Synthesis and Biological Characterization of Novel Charge-Deficient Spermine Analogues. Journal of Medicinal Chemistry, 2010, 53, 5738-5748.	6.4	27
24	Continuous oxidative stress due to activation of polyamine catabolism accelerates aging and protects against hepatotoxic insults. Transgenic Research, 2011, 20, 387-396.	2.4	26
25	Analysis of free, mono- and diacetylated polyamines from human urine by LCâ€“MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2013, 941, 81-89.	2.3	26
26	Overexpression of spermidine/spermine N1-acetyltransferase elevates the threshold to pentylenetetrazol-induced seizure activity in transgenic mice. Experimental Neurology, 2003, 183, 645-652.	4.1	25
27	Hepatitis C virus alters metabolism of biogenic polyamines by affecting expression of key enzymes of their metabolism. Biochemical and Biophysical Research Communications, 2017, 483, 904-909.	2.1	24
28	Synthesis of novel optical isomers of Î±-methylpolyamines. Tetrahedron, 2007, 63, 2257-2262.	1.9	23
29	Spermidine promotes adipogenesis of 3T3-L1 cells by preventing interaction of ANP32 with HuR and PP2A. Biochemical Journal, 2013, 453, 467-474.	3.7	23
30	Concurrent overexpression of ornithine decarboxylase and spermidine/spermine N1-acetyltransferase further accelerates the catabolism of hepatic polyamines in transgenic mice. Biochemical Journal, 2001, 358, 343-348.	3.7	22
31	Chemical activation of SAT1 corrects diet-induced metabolic syndrome. Cell Death and Differentiation, 2020, 27, 2904-2920.	11.2	22
32	Quantitative determination of underivatized polyamines by using isotope dilution RP-LCâ€“ESI-MS/MS. Journal of Pharmaceutical and Biomedical Analysis, 2008, 48, 414-421.	2.8	21
33	Concurrent overexpression of ornithine decarboxylase and spermidine/spermine N1-acetyltransferase further accelerates the catabolism of hepatic polyamines in transgenic mice. Biochemical Journal, 2001, 358, 343.	3.7	20
34	Guide Molecule-driven Stereospecific Degradation of Î±-Methylpolyamines by Polyamine Oxidase. Journal of Biological Chemistry, 2006, 281, 4589-4595.	3.4	20
35	Metabolism of N-alkylated spermine analogues by polyamine and spermine oxidases. Amino Acids, 2010, 38, 369-381.	2.7	20
36	Divergent regulation of the key enzymes of polyamine metabolism by chiral Î±-methylated polyamine analogues. Biochemical Journal, 2009, 422, 321-328.	3.7	19

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37	The Use of Novel C-Methylated Spermidine Derivatives To Investigate the Regulation of Polyamine Metabolism. Journal of Medicinal Chemistry, 2011, 54, 4611-4618.	6.4	19
38	Triethylenetetramine modulates polyamine and energy metabolism and inhibits cancer cell proliferation. Biochemical Journal, 2016, 473, 1433-1441.	3.7	18
39	Hydroxylamine Analogue of Agmatine: Magic Bullet for Arginine Decarboxylase. Biomolecules, 2020, 10, 406.	4.0	18
40	Effects of novel C-methylated spermidine analogs on cell growth via hypusination of eukaryotic translation initiation factor 5A. Amino Acids, 2012, 42, 685-695.	2.7	17
41	Î±-Methylspermidine protects against carbon tetrachloride-induced hepatic and pancreatic damage. Amino Acids, 2010, 38, 575-581.	2.7	15
42	Selective regulation of polyamine metabolism with methylated polyamine analogues. Amino Acids, 2014, 46, 605-620.	2.7	15
43	Aminooxy analogues of spermidine evidence the divergent roles of the charged amino nitrogens in the cellular physiology of spermidine. Life Sciences, 1994, 56, 349-360.	4.3	14
44	Transgenic animals modelling polyamine metabolism-related diseases. Essays in Biochemistry, 2009, 46, 125-144.	4.7	14
45	Cutaneous application of Î±-methylspermidine activates the growth of resting hair follicles in mice. Amino Acids, 2010, 38, 583-590.	2.7	13
46	Detection of smell print differences between nonmalignant and malignant prostate cells with an electronic nose. Future Oncology, 2012, 8, 1157-1165.	2.4	13
47	Activation of Polyamine Catabolism by N1,N11-Diethylnorspermine in Hepatic HepaRG Cells Induces Dedifferentiation and Mesenchymal-Like Phenotype. Cells, 2018, 7, 275.	4.1	13
48	Spermine analogue-regulated expression of spermidine/spermine N1-acetyltransferase and its effects on depletion of intracellular polyamine pools in mouse fetal fibroblasts. Biochemical Journal, 2009, 422, 101-109.	3.7	12
49	Novel isosteric charge-deficient spermine analogueâ€"1,12-diamino-3,6,9-triazadodecane: synthesis, pK a measurement and biological activity. Amino Acids, 2010, 38, 501-507.	2.7	12
50	Enantiomers of 3-Methylspermidine Selectively Modulate Deoxyhypusine Synthesis and Reveal Important Determinants for Spermidine Transport. ACS Chemical Biology, 2015, 10, 1417-1424.	3.4	12
51	Tamoxifen metabolite endoxifen interferes with the polyamine pathway in breast cancer. Amino Acids, 2016, 48, 2293-2302.	2.7	12
52	Synthesis of novel deuterium labelled derivatives of N-alkylated polyamines. Tetrahedron, 2009, 65, 547-562.	1.9	11
53	Unforeseen Possibilities To Investigate the Regulation of Polyamine Metabolism Revealed by Novel C-Methylated Spermine Derivatives. Journal of Medicinal Chemistry, 2019, 62, 11335-11347.	6.4	10
54	Complex N-Acetylation of Triethylenetetramine. Drug Metabolism and Disposition, 2011, 39, 2242-2249.	3.3	9

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55	Tissue-specific alternative splicing of spermidine/spermine N 1-acetyltransferase. Amino Acids, 2012, 42, 485-493.	2.7	9
56	Derivatives of l-Aminooxy-3-Aminopropane as Polyamine Antimetabolites: Stability and Effects on BHK21/C13 Cells1. Journal of Biochemistry, 1994, 116, 1056-1062.	1.7	8
57	Î±-Methylated Polyamines as Potential Drugs and Experimental Tools in Enzymology. Mini-Reviews in Medicinal Chemistry, 2007, 7, 813-820.	2.4	8
58	Metabolism of Triethylenetetramine and 1,12-Diamino-3,6,9-Triazadodecane by the Spermidine/Spermine-N¹-Acetyltransferase and Thialysine Acetyltransferase. Drug Metabolism and Disposition, 2013, 41, 30-32.	3.3	8
59	Charge Deficient Analogues of the Natural Polyamines. Current Pharmaceutical Design, 2014, 20, 262-277.	1.9	8
60	Methylated Polyamines as Research Tools. Methods in Molecular Biology, 2011, 720, 449-461.	0.9	8
61	Polyamine flux analysis by determination of heavy isotope incorporation from 13C, 15N-enriched amino acids into polyamines by LCâ€“MS/MS. Amino Acids, 2012, 42, 451-460.	2.7	7
62	Synthesis of (R)- and (S)-isomers of 1-methylspermidine. Mendeleev Communications, 2005, 15, 142-143.	1.6	5
63	Acetylated derivatives of C-methylated analogues of spermidine: synthesis and interaction with N1-acetylpolyamine oxidase. Mendeleev Communications, 2018, 28, 479-481.	1.6	5
64	Novel CoA-Polyamine Conjugates for Effective Inhibition of Spermine/Spermidine-N1-Acetyltransferase. Nucleosides, Nucleotides and Nucleic Acids, 2007, 26, 1245-1248.	1.1	4
65	Controlling ofN-alkylpolyamine analogue metabolism by selective deuteration. Biochemical Journal, 2018, 475, 663-676.	3.7	4
66	Controlling the regioselectivity and stereospecificity of FAD-dependent polyamine oxidases with the use of amine-attached guide molecules as conformational modulators. Bioscience Reports, 2018, 38, .	2.4	4
67	Role of Polyamine-Induced Dimerization of Antizyme in Its Cellular Functions. International Journal of Molecular Sciences, 2022, 23, 4614.	4.1	4
68	Mice with targeted disruption of spermidine/spermine N1-acetyltransferase gene maintain nearly normal tissue polyamine homeostasis but show signs of insulin resistance upon aging. Journal of Cellular and Molecular Medicine, 2006, 10, 815-827.	3.6	3
69	A potential estrogen mimetic effect of a bis(ethyl)polyamine analogue on estrogen receptor positive MCF-7 breast cancer cells. Amino Acids, 2012, 42, 899-911.	2.7	2
70	Î±-Difluoromethylornithine-Induced Cytostasis is Reversed by Exogenous Polyamines, Not by Thymidine Supplementation. Biomolecules, 2021, 11, 707.	4.0	2
71	Urinary acetylated polyamines in ovarian cancer.. Journal of Clinical Oncology, 2015, 33, 5543-5543.	1.6	1
72	Genetic Engineering of Polyamine Catabolism in Transgenic Mice and Rats. , 2006, , 465-477.		0

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73	Mice with targeted disruption of spermidine/spermine N1-acetyltransferase gene maintain nearly normal tissue polyamine homeostasis but show signs of insulin resistance upon aging. Journal of Cellular and Molecular Medicine, 2006, 10, 1-13.	3.6	0
74	Abstract 4603: Role of endoxifen as an antiestrogen: Effects on oncogene expression and polyamine pathway. , 2010, , .		0
75	Abstract 4594: Estrogen mimetic effect of a polyamine analogue in MCF-7 breast cancer cells. , 2010, , .		0
76	Abstract 5578: Breast cancer cell growth regulatory mechanisms of tamoxifen metabolites. , 2014, , .		0
77	Abstract 5511: Endoxifen inhibits polyamine biosynthetic enzyme activity and up-regulates metabolizing enzymes, spermine oxidase (SMO) and acetyl spermine oxidase (APAO)in breast cancer. , 2015, , .		0