

# Tsunehiro Aki

## List of Publications by Year in descending order

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110  
papers

2,820  
citations

159358

30  
h-index

205818

48  
g-index

113  
all docs

113  
docs citations

113  
times ranked

2265  
citing authors

#	ARTICLE	IF	CITATIONS
1	Repressor induced site-specific binding of HU for transcriptional regulation. <i>EMBO Journal</i> , 1997, 16, 3666-3674.	3.5	157
2	Immunochemical characterization of recombinant and native tropomyosins as a new allergen from the house dust mite,. <i>Journal of Allergy and Clinical Immunology</i> , 1995, 96, 74-83.	1.5	152
3	Molecular Cloning and Functional Characterization of Rat $\Delta^6$ Fatty Acid Desaturase. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 575-579.	1.0	127
4	Thraustochytrid as a potential source of carotenoids. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2003, 80, 789.	0.8	104
5	Atomic force microscopic demonstration of DNA looping by GalR and HU. <i>Nucleic Acids Research</i> , 1997, 25, 873-876.	6.5	102
6	Histone-like protein HU as a specific transcriptional regulator: co-factor role in repression of galtranscription by GAL repressor. <i>Genes To Cells</i> , 1996, 1, 179-188.	0.5	89
7	Utilization of Shochu distillery wastewater for production of polyunsaturated fatty acids and xanthophylls using thraustochytrid. <i>Journal of Bioscience and Bioengineering</i> , 2006, 102, 323-327.	1.1	89
8	Identification and Expression of a Rat Fatty Acid Elongase Involved in the Biosynthesis of C18 Fatty Acids. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 613-621.	0.6	76
9	Optimization of nitrogen source for enhanced production of squalene from thraustochytrid <i>Aurantiochytrium</i> sp.. <i>New Biotechnology</i> , 2010, 27, 382-389.	2.4	76
10	Grouping Newly Isolated Docosahexaenoic Acid-Producing Thraustochytrids Based on Their Polyunsaturated Fatty Acid Profiles and Comparative Analysis of 18S rRNA Genes. <i>Marine Biotechnology</i> , 2003, 5, 450-457.	1.1	69
11	Production of arachidonic acid by filamentous fungus, <i>Mortierella alliacea</i> strain YN-15. <i>JAOCS, Journal of the American Oil Chemists' Society</i> , 2001, 78, 599-604.	0.8	65
12	Enhanced production of squalene in the thraustochytrid <i>Aurantiochytrium mangrovei</i> by medium optimization and treatment with terbinafine. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 1303-1309.	1.7	65
13	Extracellular secretion of free fatty acids by disruption of a fatty acyl-CoA synthetase gene in <i>Saccharomyces cerevisiae</i> . <i>Journal of Bioscience and Bioengineering</i> , 2003, 95, 435-440.	1.1	56
14	Cloning and Expression of cDNA Coding for a New Allergen from the House Dust Mite, <i>Dermatophagoides farinae</i> : Homology with Human Heat Shock Cognate Proteins in the Heat Shock Protein 70 Family1. <i>Journal of Biochemistry</i> , 1994, 115, 435-440.	0.9	55
15	Screening and Characterization of Squalene-Producing Thraustochytrids from Hong Kong Mangroves. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 4267-4272.	2.4	54
16	Evaluation of marine sediments as microbial sources for methane production from brown algae under high salinity. <i>Bioresource Technology</i> , 2014, 169, 362-366.	4.8	47
17	A New Immunomodulatory Function of Low-Viscous Konjac Glucomannan with a Small Particle Size: Its Oral Intake Suppresses Spontaneously Occurring Dermatitis in NC/Nga Mice. <i>International Archives of Allergy and Immunology</i> , 2005, 136, 258-265.	0.9	46
18	Repression and activation of promoter-bound RNA polymerase activity by gal repressor 1 Edited by R. Ebright. <i>Journal of Molecular Biology</i> , 1997, 272, 293-300.	2.0	42

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19	Heterologous Production of Dihomo- $\hat{3}$ -Linolenic Acid in <i>Saccharomyces cerevisiae</i> . Applied and Environmental Microbiology, 2007, 73, 6965-6971.	1.4	41
20	Dietary Pulverized Konjac Glucomannan Prevents the Development of Allergic Rhinitis-Like Symptoms and IgE Response in Mice. Bioscience, Biotechnology and Biochemistry, 2007, 71, 2551-2556.	0.6	40
21	Extracellular Secretion of Free Fatty Acids by Disruption of a Fatty Acyl-CoA Synthetase Gene in <i>Saccharomyces cerevisiae</i> . Journal of Bioscience and Bioengineering, 2003, 95, 435-440.	1.1	40
22	Profile of polyunsaturated fatty acids produced by <i>Thraustochytrium</i> sp. KK17-3. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 605-610.	0.8	39
23	Transcription Regulation by Repressosome and by RNA Polymerase Contact. Cold Spring Harbor Symposia on Quantitative Biology, 1998, 63, 1-10.	2.0	38
24	Isolation of High Carotenoid-producing <i>Aurantiochytrium</i> sp. Mutants and Improvement of Astaxanthin Productivity Using Metabolic Information. Journal of Oleo Science, 2018, 67, 571-578.	0.6	36
25	Differential response to low temperature of two $\omega$ 6 fatty acid desaturases from <i>Mucor circinelloides</i> . Applied Microbiology and Biotechnology, 2003, 62, 362-368.	1.7	35
26	Cloning and Characterization of cDNA Coding for a New Allergen from the House Dust Mite, <i>Dermatophagoides farinae</i> . International Archives of Allergy and Immunology, 1994, 103, 349-356.	0.9	34
27	Cloning and characterization of a new allergen, Mag 3, from the house dust mite, <i>Dermatophagoides farinae</i> : Cross-reactivity with high-molecular-weight allergen. Molecular Immunology, 1996, 33, 311-319.	1.0	34
28	Two-Dimensional IgE-Binding Spectrum of Japanese Cedar ( <i>Cryptomeria japonica</i> ) Pollen Allergens. International Archives of Allergy and Immunology, 2004, 133, 125-135.	0.9	33
29	Nutritional enrichment of larval fish feed with <i>thraustochytrid</i> producing polyunsaturated fatty acids and xanthophylls. Journal of Bioscience and Bioengineering, 2007, 104, 200-206.	1.1	33
30	Dietary Pulverized Konjac Glucomannan Suppresses Scratching Behavior and Skin Inflammatory Immune Responses in NC/Nga Mice. International Archives of Allergy and Immunology, 2007, 144, 95-104.	0.9	32
31	A Possible Trifunctional $\hat{2}$ -Carotene Synthase Gene Identified in the Draft Genome of <i>Aurantiochytrium</i> sp. Strain KH105. Genes, 2018, 9, 200.	1.0	32
32	Utilization of Waste Syrup for Production of Polyunsaturated Fatty Acids and Xanthophylls by <i>Aurantiochytrium</i> . Journal of Oleo Science, 2013, 62, 729-736.	0.6	31
33	RNase H-assisted RNA-primed rolling circle amplification for targeted RNA sequence detection. Scientific Reports, 2018, 8, 7770.	1.6	29
34	Altered antigenicity of M-177, a 177-kDa allergen from the house dust mite <i>Dermatophagoides farinae</i> , in stored extract. Clinical and Experimental Allergy, 1998, 28, 1549-1564.	1.4	28
35	Molecular cloning and characterization of a new Japanese cedar pollen allergen homologous to plant isoflavone reductase family. Clinical and Experimental Allergy, 2002, 32, 1064-1070.	1.4	28
36	Improved methane production from brown algae under high salinity by fed-batch acclimation. Bioresource Technology, 2015, 187, 275-281.	4.8	27

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37	Toward elucidating the full spectrum of mite allergens " state of the art. Journal of Bioscience and Bioengineering, 2002, 94, 285-298.	1.1	26
38	Molecular cloning of a class IV chitinase allergen from Japanese cedar ( <i>Cryptomeria japonica</i> ) pollen and competitive inhibition of its immunoglobulin E-binding capacity by latex C-serum. Clinical and Experimental Allergy, 2005, 35, 234-243.	1.4	26
39	LIVER TRANSPLANTATION-INDUCED ANTIHISTONE H1 AUTOANTIBODIES SUPPRESS MIXED LYMPHOCYTE REACTION. Transplantation, 2004, 77, 1595-1603.	0.5	25
40	Molecular Cloning and Immunochemical Characterization of a Novel Major Japanese Cedar Pollen Allergen Belonging to the Aspartic Protease Family. International Archives of Allergy and Immunology, 2010, 152, 207-218.	0.9	25
41	Sake Lees Fermented with Lactic Acid Bacteria Prevents Allergic Rhinitis-Like Symptoms and IgE-Mediated Basophil Degranulation. Bioscience, Biotechnology and Biochemistry, 2011, 75, 140-144.	0.6	23
42	Identification of amino acid residues that determine the substrate specificity of mammalian membrane-bound front-end fatty acid desaturases. Journal of Lipid Research, 2016, 57, 89-99.	2.0	22
43	<i>Dysgonomonas alginatilytica</i> sp. nov., an alginate-degrading bacterium isolated from a microbial consortium. International Journal of Systematic and Evolutionary Microbiology, 2015, 65, 3570-3575.	0.8	22
44	Prophylactic effect of <i>Lactobacillus</i> oral vaccine expressing a Japanese cedar pollen allergen. Journal of Bioscience and Bioengineering, 2012, 113, 536-541.	1.1	21
45	Der f 35: An MD-2-like house dust mite allergen that cross-reacts with Der f 2 and Pso o 2. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 1728-1736.	2.7	21
46	Decrease in the Allergenicity of Japanese Cedar Pollen Allergen by Treatment with Positive and Negative Cluster Ions. International Archives of Allergy and Immunology, 2006, 141, 313-321.	0.9	20
47	Purification and characterization of intracellular lipase from the polyunsaturated fatty acid-producing fungus <i>Mortierella alliacea</i> . New Biotechnology, 2011, 28, 158-164.	2.4	20
48	Toward elucidating the full spectrum of mite allergens--state of the art. Journal of Bioscience and Bioengineering, 2002, 94, 285-98.	1.1	20
49	Bacterial community structure and predicted alginate metabolic pathway in an alginate-degrading bacterial consortium. Journal of Bioscience and Bioengineering, 2016, 121, 286-292.	1.1	19
50	Cloning and expression of Der f 6, a serine protease allergen from the house dust mite, <i>Dermatophagoides farinae</i> 1The sequence data reported in this paper have been deposited in the GenBank Sequence Database under accession No. AF125187.1. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 1999, 1454, 201-207.	1.8	18
51	Der f 16: a novel gelsolin-related molecule identified as an allergen from the house dust mite, <i>Dermatophagoides farinae</i> 1. FEBS Letters, 2002, 516, 234-238.	1.3	18
52	Value-added lipid production from brown seaweed biomass by two-stage fermentation using acetic acid bacterium and thraustochytrid. Applied Microbiology and Biotechnology, 2014, 98, 9207-9216.	1.7	18
53	Enzymatic Analysis of Positional Distribution of Fatty Acids in Solid Fat by 1,3-Selective Transesterification with <i>Candida antarctica</i> Lipase B. JAOCS, Journal of the American Oil Chemists' Society, 2014, 91, 1323-1330.	0.8	17
54	Der f 34, a Novel Major House Dust Mite Allergen Belonging to a Highly Conserved Rid/YjgF/YER057c/UK114 Family of Imine Deaminases. Journal of Biological Chemistry, 2016, 291, 21607-21615.	1.6	17

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55	Efficient conversion of mannitol derived from brown seaweed to fructose for fermentation with a thraustochytrid. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 180-184.	1.1	17
56	Improvement of Stearidonic Acid Production in Oleaginous <i>Saccharomyces cerevisiae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2009, 73, 1447-1449.	0.6	16
57	Purification and Characterization of a Novel Fungal $\alpha$ -Glucosidase from <i>Mortierella alliacea</i> with High Starch-hydrolytic Activity. <i>Bioscience, Biotechnology and Biochemistry</i> , 2002, 66, 2415-2423.	0.6	15
58	A New Lipid Transfer Protein Homolog Identified as an IgE-Binding Antigen from Japanese Cedar Pollen. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 504-509.	0.6	15
59	Structure of IgE Epitopes on a New 39-kD Allergen Molecule from the House Dust Mite, <i>Dermatophagoides farinae</i> . <i>International Archives of Allergy and Immunology</i> , 1994, 103, 357-364.	0.9	14
60	Lipid composition of a newly isolated polyunsaturated fatty acid-producing fungus, <i>Achlya sp. ma-2801</i> . <i>Journal of Bioscience and Bioengineering</i> , 1998, 86, 504-507.	0.9	14
61	Characterization of immunosuppressive factors expressed in serum by rat tolerogenic liver transplantation. <i>Transplantation Proceedings</i> , 2005, 37, 80-81.	0.3	14
62	The ability of konjac-glucomannan to suppress spontaneously occurring dermatitis in NC/Nga mice depends upon the particle size. <i>BioFactors</i> , 2004, 21, 163-166.	2.6	13
63	Improvement of fatty acid productivity of thraustochytrid, <i>Aurantiochytrium sp.</i> by genome editing. <i>Journal of Bioscience and Bioengineering</i> , 2021, 131, 373-380.	1.1	13
64	Semi-continuous methane production from undiluted brown algae using a halophilic marine microbial community. <i>Bioresource Technology</i> , 2016, 200, 616-623.	4.8	12
65	Metabolite Profile Analysis of <i>Aurantiochytrium limacinum</i> SR21 Grown on Acetate-based Medium for Lipid Fermentation. <i>Journal of Oleo Science</i> , 2019, 68, 541-549.	0.6	12
66	Evidence of Isozymes for $\Delta^6$ Fatty Acid Desaturase in Rat Hepatocytes. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 451-454.	0.6	10
67	Molecular Cloning and Immunochemical Characterization of a New Japanese Cedar Pollen Allergen Homologous to Plant Subtilisin-Like Serine Protease. <i>World Allergy Organization Journal</i> , 2010, 3, 262-265.	1.6	10
68	Development of a two-step chromatography procedure that allows the purification of a high-purity anti-histone H1 monoclonal immunoglobulin M antibody with immunosuppressant activity. <i>Biomedical Chromatography</i> , 2008, 22, 13-19.	0.8	9
69	Thermal analysis for differentiating between oleaginous and non-oleaginous microorganisms. <i>Biochemical Engineering Journal</i> , 2011, 57, 23-29.	1.8	9
70	Prominent IgE-binding and cytokine-inducing capacities of a newly cloned N-terminal region of Der f 14, an apolipoprotein-like house dust mite allergen. <i>Journal of Biochemistry</i> , 2018, 163, 51-60.	0.9	9
71	Marine Oomycetes ( <i>Halophytophthora</i> and <i>Salispina</i> ): A Potential Source of Fatty Acids with Cytotoxic Activity Against Breast Adenocarcinoma Cells (MCF7). <i>Journal of Oleo Science</i> , 2019, 68, 1163-1174.	0.6	9
72	Metabolism and Synthesis of Lipids in the Polyunsaturated Fatty Acid-Producing Fungus <i>Mortierella alliacea</i> . <i>Journal of Oleo Science</i> , 2011, 60, 11-17.	0.6	9

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73	A High-Molecular-Weight Mite Antigen (HM1) Fraction Aggravates Airway Hyperresponsiveness of Allergic Mice to House Dusts and Whole Mite Cultures. <i>International Archives of Allergy and Immunology</i> , 2002, 129, 204-211.	0.9	8
74	Regulation of Polyunsaturated Fatty Acid Biosynthesis by Seaweed Fucoxanthin and Its Metabolite in Cultured Hepatocytes. <i>Lipids</i> , 2014, 49, 133-141.	0.7	8
75	Direct detection of mRNA expression in microbial cells by fluorescence in situ hybridization using RNase H-assisted rolling circle amplification. <i>Scientific Reports</i> , 2020, 10, 9588.	1.6	8
76	Identification of T-cell epitope sequences on an important mite antigen. <i>Clinical and Experimental Allergy</i> , 1997, 27, 1086-1094.	1.4	7
77	Improved methanization and microbial diversity during batch mode cultivation with repetition of substrate addition using defined organic matter and marine sediment inoculum at seawater salinity. <i>Bioresource Technology</i> , 2017, 245, 833-840.	4.8	7
78	Production of Polyunsaturated Fatty Acids by Genetic Engineering of Yeast.. <i>Journal of Oleo Science</i> , 2001, 50, 359-365.	0.6	7
79	Kinetics of Sorbitol Decomposition under Hydrothermal Condition. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 149-154.	0.4	6
80	Isolation and characterization of bacterium producing lipid from short-chain fatty acids. <i>Bioresource Technology</i> , 2016, 201, 215-221.	4.8	6
81	Characterization of a halotolerant acetoclastic methanogen highly enriched from marine sediment and its application in removal of acetate. <i>Journal of Bioscience and Bioengineering</i> , 2016, 121, 196-202.	1.1	6
82	T-cell epitope analysis of Mag 3, an important allergen from the house dust mite, <i>Dermatophagoides farinae</i> . <i>Immunology Letters</i> , 2000, 72, 53-60.	1.1	5
83	Induction of a Proliferative Response of T Cells by a High-Molecular Antigen in <i>Dermatophagoides farinae</i> Feces. <i>International Archives of Allergy and Immunology</i> , 2002, 127, 276-284.	0.9	5
84	Behavior of Organics in Kelp during Hydrothermal Pretreatment: Fundamental Characteristics and Effect of Salt. <i>Nihon Enerugi Gakkaishi</i> /Journal of the Japan Institute of Energy, 2014, 93, 531-535.	0.2	5
85	Effect of Salinity on Methanogenic Propionate Degradation by Acclimated Marine Sediment-Derived Culture. <i>Applied Biochemistry and Biotechnology</i> , 2015, 177, 1541-1552.	1.4	5
86	Quantitative In Situ Mass Spectrometry Analysis of Mannitol Decomposition Products under Hydrothermal Conditions. <i>Energy &amp; Fuels</i> , 2017, 31, 10866-10873.	2.5	5
87	&lt;i>In-situ&lt;/i> Mass Spectroscopic Analysis of Glucose Decomposition under Hydrothermal Condition: Quantitative Analysis for Reaction Kinetics. <i>Journal of the Japan Petroleum Institute</i> , 2017, 60, 101-109.	0.4	5
88	Enzymatic Preparation of Glycerides Rich in Docosahexaenoic Acid from <i>Thraustochytrid</i> Single Cell Oils by <i>Candida rugosa</i> Lipase.. <i>Journal of Oleo Science</i> , 2002, 51, 447-455.	0.6	5
89	Purification and characterization of M-177, a 177 kDa allergen, from the house dust mite <i>Dermatophagoides farinae</i> . <i>Allergology International</i> , 1999, 48, 43-51.	1.4	4
90	Purification and characterization of sea squirt $\hat{\pm}$ -N-acetylgalactosaminidase. <i>Journal of Bioscience and Bioengineering</i> , 2000, 89, 84-86.	1.1	4

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91	Lack of Effect of the Abnormal Fatty Acid Metabolism in NC/Nga Mice on Their Atopic Dermatitis. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 431-434.	0.6	4
92	cDNA cloning and functional expression of $\beta$ -glucosidase from <i>Mortierella alliacea</i> . <i>Applied Microbiology and Biotechnology</i> , 2003, 62, 202-209.	1.7	4
93	Simultaneous thermogravimetry and differential thermal analysis for comparing burning characteristics between oleaginous and non-oleaginous microorganisms. <i>Thermochimica Acta</i> , 2011, 517, 115-120.	1.2	4
94	Determination of Mannitol Decomposition Rate under Hydrothermal Pretreatment Condition. <i>Journal of the Japan Petroleum Institute</i> , 2015, 58, 252-255.	0.4	4
95	Unexpected T cell regulatory activity of anti-histone H1 autoantibody: Its mode of action in regulatory T cell-dependent and -independent manners. <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 246-252.	1.0	3
96	Decomposition kinetics of uronic acids obtained from kelp under hydrothermal condition. <i>Journal of the Energy Institute</i> , 2017, 90, 185-190.	2.7	3
97	In situ mass spectrometry of glucose decomposition under hydrothermal reactions. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 1524-1530.	1.2	3
98	Complete genome sequence of <i>Nitratireductor</i> sp. strain OM-1: A lipid-producing bacterium with potential use in wastewater treatment. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 24, e00366.	2.1	3
99	Real-Time Mass Spectrometric Analysis of Hydrothermal Reaction Products. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 9993-9998.	1.8	2
100	Detection of Acyl-CoA Derivatized with Butylamide for <i>in vitro</i> Fatty Acid Desaturase Assay. <i>Journal of Oleo Science</i> , 2016, 65, 161-167.	0.6	1
101	Visualization of Gene Reciprocity among Lactic Acid Bacteria in Yogurt by RNase H-Assisted Rolling Circle Amplification-Fluorescence In Situ Hybridization. <i>Microorganisms</i> , 2021, 9, 1208.	1.6	1
102	Decomposition Kinetics of Mannose, Its Sugar Alcohol, and Its Uronic Acid under Hydrothermal Condition. <i>Journal of Chemical Engineering of Japan</i> , 2016, 49, 663-667.	0.3	1
103	Microbial Production of Carotenoids. <i>Oleoscience</i> , 2003, 3, 175-181,174.	0.0	0
104	I-3. Genetic engineering of oleaginous microbes for functional lipid production. <i>Nippon Suisan Gakkaishi</i> , 2012, 78, 1005-1005.	0.0	0
105	Kinetics of Sorbitol Decomposition under Hydrothermal Condition. <i>Journal of the Japan Petroleum Institute</i> , 2016, 59, 241-241.	0.4	0
106	æµ-è-»ã,«ãfãftãfZã,ãf%ãã,é£1/2ã'CEè,,è,èé...ã»£è-•ãf-ã,«ãfjã®æŠ-è,¥æ°€ãŠ1æžœã®æ©ÿæšã,æžã,ã. KagabuTo Seibutsu, 2016		
107	Studies on the Biosynthesis and Production of Polyunsaturated Fatty Acids. <i>Oleoscience</i> , 2005, 5, 589-599.	0.0	0
108	Fatty Acid-Modifying Enzymes. , 2005, , 15-1-15-11.		0

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109	Anti-histone H1 Autoantibody Directly Acts on T Cells to Exert Its Immunosuppressive Activity. , 2008, , 145-150.		0
110	High-rate Fermentation of Acetate to Methane under Saline Condition by Aceticlastic Methanogens Immobilized in Marine Sediment. Journal of the Japan Petroleum Institute, 2016, 59, 9-15.	0.4	0