

# Wataru Aoki

## List of Publications by Year in descending order

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Version: 2024-02-01

84  
papers

1,617  
citations

361045

20  
h-index

344852

36  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2519  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Antimicrobial Peptides toward the Development of Novel Antibiotics. <i>Pharmaceuticals</i> , 2013, 6, 1055-1081.	1.7	202
2	Apoptosis-derived membrane vesicles drive the cGAS-STING pathway and enhance type I IFN production in systemic lupus erythematosus. <i>Annals of the Rheumatic Diseases</i> , 2018, 77, 1507-1515.	0.5	164
3	Comprehensive characterization of secreted aspartic proteases encoded by a virulence gene family in <i>Candida albicans</i> . <i>Journal of Biochemistry</i> , 2011, 150, 431-438.	0.9	75
4	Aspartic Proteases and Major Cell Wall Components in <i>Candida albicans</i> Trigger the Release of Neutrophil Extracellular Traps. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 414.	1.8	70
5	Next generation of antimicrobial peptides as molecular targeted medicines. <i>Journal of Bioscience and Bioengineering</i> , 2012, 114, 365-370.	1.1	63
6	Inactivation of the Antifungal and Immunomodulatory Properties of Human Cathelicidin LL-37 by Aspartic Proteases Produced by the Pathogenic Yeast <i>Candida albicans</i> . <i>Infection and Immunity</i> , 2015, 83, 2518-2530.	1.0	59
7	<i>Ruegeria</i> sp. Strains Isolated from the Reef-Building Coral <i>Galaxea fascicularis</i> Inhibit Growth of the Temperature-Dependent Pathogen <i>Vibrio coralliilyticus</i> . <i>Marine Biotechnology</i> , 2019, 21, 1-8.	1.1	53
8	YAP1 mediates survival of ALK-rearranged lung cancer cells treated with alectinib via pro-apoptotic protein regulation. <i>Nature Communications</i> , 2020, 11, 74.	5.8	49
9	A Zeaxanthin-Producing Bacterium Isolated from the Algal Phycosphere Protects Coral Endosymbionts from Environmental Stress. <i>MBio</i> , 2020, 11, .	1.8	49
10	An oral vaccine against candidiasis generated by a yeast molecular display system. <i>Pathogens and Disease</i> , 2013, 69, 262-268.	0.8	44
11	Alectinib Resistance in ALK-Rearranged Lung Cancer by Dual Salvage Signaling in a Clinically Paired Resistance Model. <i>Molecular Cancer Research</i> , 2019, 17, 212-224.	1.5	41
12	Comparative Proteomic Analysis of <i>Lithospermum erythrorhizon</i> Reveals Regulation of a Variety of Metabolic Enzymes Leading to Comprehensive Understanding of the Shikonin Biosynthetic Pathway. <i>Plant and Cell Physiology</i> , 2019, 60, 19-28.	1.5	35
13	Comparative multi-omics analysis reveals diverse latex-based defense strategies against pests among latex-producing organs of the fig tree ( <i>Ficus carica</i> ). <i>Planta</i> , 2018, 247, 1423-1438.	1.6	31
14	Single cell trapping and cell-cell interaction monitoring of cardiomyocytes in a designed microfluidic chip. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 43-50.	4.0	27
15	<i>Candida albicans</i> Possesses Sap7 as a Pepstatin A-Insensitive Secreted Aspartic Protease. <i>PLoS ONE</i> , 2012, 7, e32513.	1.1	26
16	Time-course proteomic profile of <i>Candida albicans</i> during adaptation to a fetal serum. <i>Pathogens and Disease</i> , 2013, 67, 67-75.	0.8	26
17	Small RNAs detected in exosomes derived from the MH7A synovial fibroblast cell line with TNF- $\alpha$ stimulation. <i>PLoS ONE</i> , 2018, 13, e0201851.	1.1	25
18	High-throughput evaluation of T7 promoter variants using biased randomization and DNA barcoding. <i>PLoS ONE</i> , 2018, 13, e0196905.	1.1	25

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19	Metabolite profiling of the fermentation process of "yamahai-ginjo-shikomi" Japanese sake. PLoS ONE, 2018, 13, e0190040.	1.1	23
20	Evaluation of Mdh1 Protein as an Antigenic Candidate for a Vaccine against Candidiasis. Biocontrol Science, 2014, 19, 51-55.	0.2	22
21	Description of the interaction between <i>Candida albicans</i> and macrophages by mixed and quantitative proteome analysis without isolation. AMB Express, 2015, 5, 127.	1.4	22
22	Folate Biofortification in Hydroponically Cultivated Spinach by the Addition of Phenylalanine. Journal of Agricultural and Food Chemistry, 2017, 65, 4605-4610.	2.4	22
23	Ammonia production from amino acid-based biomass-like sources by engineered <i>Escherichia coli</i> . AMB Express, 2017, 7, 83.	1.4	22
24	Dramatic dietary shift maintains sequestered toxins in chemically defended snakes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5964-5969.	3.3	21
25	Profiling of adhesive properties of the agglutinin-like sequence (ALS) protein family, a virulent attribute of <i>Candida albicans</i> . FEMS Immunology and Medical Microbiology, 2012, 65, 121-124.	2.7	20
26	Oral Immunization Against Candidiasis Using <i>Lactobacillus casei</i> Displaying Enolase 1 from <i>Candida albicans</i> . Scientia Pharmaceutica, 2014, 82, 697-708.	0.7	19
27	Kinin release from human kininogen by 10 aspartic proteases produced by pathogenic yeast <i>Candida albicans</i> . BMC Microbiology, 2015, 15, 60.	1.3	19
28	Elucidation of potentially virulent factors of <i>Candida albicans</i> during serum adaptation by using quantitative time-course proteomics. Journal of Proteomics, 2013, 91, 417-429.	1.2	18
29	Secreted aspartic peptidases of <i>Candida albicans</i> liberate bactericidal hemocidins from human hemoglobin. Peptides, 2013, 48, 49-58.	1.2	18
30	Centrifugal microfluidic platform for single-cell level cardiomyocyte-based drug profiling and screening. Lab on A Chip, 2015, 15, 3572-3580.	3.1	17
31	The action of ten secreted aspartic proteases of pathogenic yeast <i>Candida albicans</i> on major human salivary antimicrobial peptide, histatin 5. Acta Biochimica Polonica, 2016, 63, 403-10.	0.3	17
32	Transcriptome and proteome analyses provide insight into laticifer's defense of <i>Euphorbia tirucalli</i> against pests. Plant Physiology and Biochemistry, 2016, 108, 434-446.	2.8	16
33	High-throughput identification of peptide agonists against GPCRs by co-culture of mammalian reporter cells and peptide-secreting yeast cells using droplet microfluidics. Scientific Reports, 2019, 9, 10920.	1.6	16
34	High-throughput screening of improved protease inhibitors using a yeast cell surface display system and a yeast cell chip. Journal of Bioscience and Bioengineering, 2011, 111, 16-18.	1.1	15
35	Inactivation of human kininogen-derived antimicrobial peptides by secreted aspartic proteases produced by the pathogenic yeast <i>Candida albicans</i> . Biological Chemistry, 2015, 396, 1369-1375.	1.2	14
36	Evaluation of the yeast surface display system for screening of functional nanobodies. AMB Express, 2020, 10, 51.	1.4	14

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37	Protection of Coral Larvae from Thermally Induced Oxidative Stress by Redox Nanoparticles. <i>Marine Biotechnology</i> , 2018, 20, 542-548.	1.1	12
38	Inactivation of $\alpha$ 1-proteinase inhibitor by <i>Candida albicans</i> aspartic proteases favors the epithelial and endothelial cell colonization in the presence of neutrophil extracellular traps.. <i>Acta Biochimica Polonica</i> , 2016, 63, 167-175.	0.3	11
39	Development of a yeast cell surface display method using the SpyTag/SpyCatcher system. <i>Scientific Reports</i> , 2021, 11, 11059.	1.6	11
40	Construction of engineered yeast producing ammonia from glutamine and soybean residues (okara). <i>AMB Express</i> , 2020, 10, 70.	1.4	10
41	Efficient ammonia production from food by-products by engineered <i>Escherichia coli</i> . <i>AMB Express</i> , 2020, 10, 150.	1.4	10
42	A comparative proteomics study of a synovial cell line stimulated with TNF $\alpha$ . <i>FEBS Open Bio</i> , 2016, 6, 418-424.	1.0	9
43	Temporal proteome dynamics of <i>Clostridium cellulovorans</i> cultured with major plant cell wall polysaccharides. <i>BMC Microbiology</i> , 2019, 19, 118.	1.3	9
44	Peptide barcoding for establishment of new types of genotype-phenotype linkages. <i>PLoS ONE</i> , 2019, 14, e0215993.	1.1	9
45	Pinpoint Chemical Modification of the Quinone-Access Channel of Mitochondrial Complex I via a Two-Step Conjugation Reaction. <i>Biochemistry</i> , 2017, 56, 4279-4287.	1.2	8
46	Cellomics approach for high-throughput functional annotation of <i>Caenorhabditis elegans</i> neural network. <i>Scientific Reports</i> , 2018, 8, 10380.	1.6	8
47	Enzyme systems involved in glucosinolate metabolism in <i>Companilactobacillus farciminis</i> KB1089. <i>Scientific Reports</i> , 2021, 11, 23715.	1.6	8
48	Reduction of Synthetic Ubiquinone QT Catalyzed by Bovine Mitochondrial Complex I Is Decoupled from Proton Translocation. <i>Biochemistry</i> , 2016, 55, 470-481.	1.2	7
49	One-step nanoimprinted hybrid micro-/nano-structure for in situ protein detection of isolated cell array via localized surface plasmon resonance. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EC03.	0.8	7
50	Improved ammonia production from soybean residues by cell surface-displayed $\alpha$ -amino acid oxidase on yeast. <i>Bioscience, Biotechnology and Biochemistry</i> , 2021, 85, 972-980.	0.6	7
51	A critical role of an oxygen-responsive gene for aerobic nitrogenase activity in <i>Azotobacter vinelandii</i> and its application to <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2022, 12, 4182.	1.6	7
52	Design of a Novel Antimicrobial Peptide Activated by Virulent Proteases. <i>Chemical Biology and Drug Design</i> , 2012, 80, 725-733.	1.5	6
53	Integrating reductive and synthetic approaches in biology using man-made cell-like compartments. <i>Scientific Reports</i> , 2015, 4, 4722.	1.6	6
54	Specific Methylation of Asp160 (49 kDa subunit) Located inside the Quinone Binding Cavity of Bovine Mitochondrial Complex I. <i>Biochemistry</i> , 2016, 55, 3189-3197.	1.2	6

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55	Definitive screening design enables optimization of LC-ESI-MS/MS parameters in proteomics. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 2237-2243.	0.6	6
56	Detection of betacyanin in red-tube spinach ( <i>Spinacia oleracea</i> ) and its biofortification by strategic hydroponics. <i>PLoS ONE</i> , 2018, 13, e0203656.	1.1	6
57	Neuronal subclass-selective proteomic analysis in <i>Caenorhabditis elegans</i> . <i>Scientific Reports</i> , 2020, 10, 13840.	1.6	6
58	Sustainable Biological Ammonia Production towards a Carbon-Free Society. <i>Sustainability</i> , 2021, 13, 9496.	1.6	6
59	A three-component monooxygenase from <i>Rhodococcus wratislaviensis</i> may expand industrial applications of bacterial enzymes. <i>Communications Biology</i> , 2021, 4, 16.	2.0	6
60	Cell-surface modification of non-GMO without chemical treatment by novel GMO-coupled and -separated cocultivation method. <i>Applied Microbiology and Biotechnology</i> , 2009, 82, 293-301.	1.7	4
61	Detection of <i>Candida albicans</i> by using a designed fluorescence-quenched peptide. <i>Journal of Bioscience and Bioengineering</i> , 2013, 116, 573-575.	1.1	4
62	Molecular and Physiological Study of <i>Candida albicans</i> by Quantitative Proteome Analysis. <i>Proteomes</i> , 2018, 6, 34.	1.7	4
63	Pentenediol-Type Compounds Specifically Bind to Voltage-Dependent Anion Channel 1 in <i>Saccharomyces cerevisiae</i> Mitochondria. <i>Biochemistry</i> , 2019, 58, 1141-1154.	1.2	4
64	Specific chemical modification explores dynamic structure of the NqrB subunit in Na <sup>+</sup> -pumping NADH-ubiquinone oxidoreductase from <i>Vibrio cholerae</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2021, 1862, 148432.	0.5	4
65	Evaluation of meter-long monolithic columns for selected reaction monitoring mass spectrometry. <i>Journal of Bioscience and Bioengineering</i> , 2019, 128, 379-383.	1.1	3
66	Identification of a Putative Sensor Protein Involved in Regulation of Vesicle Production by a Hypervesiculating Bacterium, <i>Shewanella vesiculosa</i> HM13. <i>Frontiers in Microbiology</i> , 2021, 12, 629023.	1.5	3
67	Domain swapping of complementarity-determining region in nanobodies produced by <i>Pichia pastoris</i> . <i>AMB Express</i> , 2019, 9, 107.	1.4	2
68	Engineering Antibodies and Alternative Binders for Therapeutic Uses. , 2019, , 123-147.		2
69	Production of Single-Domain Antibodies in <i>Pichia pastoris</i> . <i>Methods in Molecular Biology</i> , 2022, 2446, 181-203.	0.4	2
70	Epoxy-cyclohexenedione-Type Compounds Make Up a New Class of Inhibitors of the Bovine Mitochondrial ADP/ATP Carrier. <i>Biochemistry</i> , 2018, 57, 1031-1044.	1.2	1
71	Selected reaction monitoring for the quantification of <i>Escherichia coli</i> ribosomal proteins. <i>PLoS ONE</i> , 2020, 15, e0236850.	1.1	1
72	Peptide barcoding for one-pot evaluation of sequence-function relationships of nanobodies. <i>Scientific Reports</i> , 2021, 11, 21516.	1.6	1

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73	Molecular changes in appearance of a cancer cell among normal HEK293T cells. Journal of Bioscience and Bioengineering, 2017, 123, 281-286.	1.1	0
74	Characterization of xanthine oxidase from Cellulosimicrobium funkei possessing hypoxanthineâ€metabolizing activity. Journal of Applied Microbiology, 2021, 130, 2132-2140.	1.4	0
75	Peptide barcoding for multiplex evaluation of affinities of nanobody libraries. FASEB Journal, 2021, 35, .	0.2	0
76	Selected Reaction Monitoring Method for The Quantification of Escherichia coli Ribosomal Proteins. FASEB Journal, 2021, 35, .	0.2	0
77	Candida albicans exhibits a pepstatin Aâ€insensitive secreted aspartic protease as a virulence factor. FASEB Journal, 2012, 26, 557.1.	0.2	0
78	Mixed proteome analysis for clarification of the mechanism of infectious candidiasis (152.6). FASEB Journal, 2014, 28, 152.6.	0.2	0
79	Analysis of neural networks of Caenorhabditis elegans by functional cellomics. FASEB Journal, 2019, 33, 791.21.	0.2	0
80	Reconstruction of biological subsystems using bottomâ€up genetics. FASEB Journal, 2019, 33, 641.1.	0.2	0
81	Advantages of proteomics using meterâ€long monolithic columns with small inner diameter. FASEB Journal, 2019, 33, 475.8.	0.2	0
82	Development and improvement of â€functional neural cellomicsâ€™ to elucidate the structureâ€function relationships of neural networks of <i>Caenorhabditis elegans</i> . FASEB Journal, 2020, 34, 1-1.	0.2	0
83	Prompt and Convenient Preparation of Oral Vaccines Using Yeast Cell Surface Display. Fungal Biology, 2020, , 127-136.	0.3	0
84	Peptide barcoding for highâ€throughput functional evaluation of antibodies without immobilization. FASEB Journal, 2020, 34, 1-1.	0.2	0