

Toshiro Takai

List of Publications by Year in descending order

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86
papers

3,344
citations

117625

34
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149698

56
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90
all docs

90
docs citations

90
times ranked

3323
citing authors

#	ARTICLE	IF	CITATIONS
1	TSLP Expression: Cellular Sources, Triggers, and Regulatory Mechanisms. <i>Allergy International</i> , 2012, 61, 3-17.	3.3	212
2	Engineering of the major house dust mite allergen Der f 2 for allergen-specific immunotherapy. <i>Nature Biotechnology</i> , 1997, 15, 754-758.	17.5	166
3	IL-33-Mediated Innate Response and Adaptive Immune Cells Contribute to Maximum Responses of Protease Allergen-Induced Allergic Airway Inflammation. <i>Journal of Immunology</i> , 2013, 190, 4489-4499.	0.8	151
4	Staphylococcus aureus membrane and diacylated lipopeptide induce thymic stromal lymphopoietin in keratinocytes through the Toll-like receptor 2-Toll-like receptor 6 pathway. <i>Journal of Allergy and Clinical Immunology</i> , 2010, 126, 985-993.e3.	2.9	147
5	Barrier Dysfunction Caused by Environmental Proteases in the Pathogenesis of Allergic Diseases. <i>Allergy International</i> , 2011, 60, 25-35.	3.3	126
6	Mite serine protease activates protease-activated receptor 2 and induces cytokine release in human keratinocytes. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2009, 64, 1366-1374.	5.7	112
7	Cytokine milieu modulates release of thymic stromal lymphopoietin from human keratinocytes stimulated with double-stranded RNA. <i>Journal of Allergy and Clinical Immunology</i> , 2009, 123, 179-186.	2.9	110
8	Crucial Commitment of Proteolytic Activity of a Purified Recombinant Major House Dust Mite Allergen Der p1 to Sensitization toward IgE and IgG Responses. <i>Journal of Immunology</i> , 2006, 177, 1609-1617.	0.8	109
9	Cystatin A inhibits IL-8 production by keratinocytes stimulated with Der p 1 and Der f 1: Biochemical skin barrier against mite cysteine proteases. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 116, 169-176.	2.9	101
10	Staphylococcus aureus Extracellular Protease Causes Epidermal Barrier Dysfunction. <i>Journal of Investigative Dermatology</i> , 2010, 130, 614-617.	0.7	87
11	Reduction of Skin Barrier Function by Proteolytic Activity of a Recombinant House Dust Mite Major Allergen Der f 1. <i>Journal of Investigative Dermatology</i> , 2006, 126, 2719-2723.	0.7	83
12	Analysis of the structure and allergenicity of recombinant pro- and mature Der p 1 and Der f 1: Major conformational IgE epitopes blocked by prodomains. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 115, 555-563.	2.9	77
13	Prevention of allergic asthma by vaccination with transgenic rice seed expressing mite allergen: induction of allergen-specific oral tolerance without bystander suppression. <i>Plant Biotechnology Journal</i> , 2011, 9, 982-990.	8.3	77
14	Human antimicrobial peptide LL-37 modulates proinflammatory responses induced by cytokine milieus and double-stranded RNA in human keratinocytes. <i>Biochemical and Biophysical Research Communications</i> , 2013, 433, 532-537.	2.1	76
15	Long TSLP transcript expression and release of TSLP induced by TLR ligands and cytokines in human keratinocytes. <i>Journal of Dermatological Science</i> , 2012, 66, 233-237.	1.9	75
16	Lipopolysaccharide binding of the mite allergen Der f 2. <i>Genes To Cells</i> , 2009, 14, 1055-1065.	1.2	74
17	Protease Activity of Allergenic Pollen of Cedar, Cypress, Juniper, Birch and Ragweed. <i>Allergy International</i> , 2008, 57, 83-91.	3.3	68
18	Recombinant Der p 1 and Der f 1 exhibit cysteine protease activity but no serine protease activity. <i>Biochemical and Biophysical Research Communications</i> , 2005, 328, 944-952.	2.1	66

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19	NMR Study on the Major Mite Allergen Der f 2: Its Refined Tertiary Structure, Epitopes for Monoclonal Antibodies and Characteristics Shared by ML Protein Group Members. <i>Journal of Biochemistry</i> , 2005, 137, 255-263.	1.7	61
20	The Squamous Cell Carcinoma Antigen 2 Inhibits the Cysteine Proteinase Activity of a Major Mite Allergen, Der p 1. <i>Journal of Biological Chemistry</i> , 2004, 279, 5081-5087.	3.4	57
21	Recombinant Der p 1 and Der f 1 with in vitro Enzymatic Activity to Cleave Human CD23, CD25 and α -Antitrypsin, and in vivo IgE-Eliciting Activity in Mice. <i>International Archives of Allergy and Immunology</i> , 2005, 137, 194-200.	2.1	55
22	Extracellular Double-Stranded RNA Induces TSLP via an Endosomal Acidification- and NF- κ B-Dependent Pathway in Human Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2011, 131, 2205-2212.	0.7	54
23	Flagellin Induces the Expression of Thymic Stromal Lymphopoietin in Human Keratinocytes via Toll-Like Receptor 5. <i>International Archives of Allergy and Immunology</i> , 2011, 155, 31-37.	2.1	53
24	Biologically active recombinant forms of a major house dust mite group 1 allergen Der f 1 with full activities of both cysteine protease and IgE binding. <i>Clinical and Experimental Allergy</i> , 2001, 31, 116-124.	2.9	45
25	Determination of the N- and C-terminal sequences required to bind human IgE of the major house dust mite allergen Der f 2 and epitope mapping for monoclonal antibodies. <i>Molecular Immunology</i> , 1997, 34, 255-261.	2.2	44
26	Maturation of the activities of recombinant mite allergens Der p 1 and Der f 1, and its implication in the blockade of proteolytic activity. <i>FEBS Letters</i> , 2002, 531, 265-272.	2.8	44
27	Determination of Three Disulfide Bonds in a Major House Dust Mite Allergen, α -Der f 1. <i>International Archives of Allergy and Immunology</i> , 1993, 101, 159-166.	2.1	43
28	Characterization of Proteases, Proteins, and Eicosanoid-Like Substances in Soluble Extracts from Allergenic Pollen Grains. <i>International Archives of Allergy and Immunology</i> , 2008, 147, 276-288.	2.1	43
29	Non-anaphylactic combination of partially deleted fragments of the major house dust mite allergen Der f 2 for allergen-specific immunotherapy. <i>Molecular Immunology</i> , 1999, 36, 1055-1065.	2.2	42
30	NADPH oxidase activity in allergenic pollen grains of different plant species. <i>Biochemical and Biophysical Research Communications</i> , 2009, 387, 430-434.	2.1	42
31	TSLP Expression Induced via Toll-Like Receptor Pathways in Human Keratinocytes. <i>Methods in Enzymology</i> , 2014, 535, 371-387.	1.0	42
32	Pectate Lyase Pollen Allergens: Sensitization Profiles and Cross-Reactivity Pattern. <i>PLoS ONE</i> , 2015, 10, e0120038.	2.5	41
33	Epicutaneous Allergic Sensitization by Cooperation between Allergen Protease Activity and Mechanical Skin Barrier Damage in Mice. <i>Journal of Investigative Dermatology</i> , 2016, 136, 1408-1417.	0.7	41
34	Upregulation of the Release of Granulocyte-Macrophage Colony-Stimulating Factor from Keratinocytes Stimulated with Cysteine Protease Activity of Recombinant Major Mite Allergens, Der f 1 and Der p 1. <i>International Archives of Allergy and Immunology</i> , 2008, 146, 27-35.	2.1	37
35	Cupressaceae Pollen Grains Modulate Dendritic Cell Response and Exhibit IgE-Inducing Adjuvant Activity In Vivo. <i>Journal of Immunology</i> , 2009, 183, 6087-6094.	0.8	34
36	Glucocorticoids Inhibit Double-Stranded RNA-Induced Thymic Stromal Lymphopoietin Release from Keratinocytes in an Atopic Cytokine Milieu More Effectively than Tacrolimus. <i>International Archives of Allergy and Immunology</i> , 2010, 153, 27-34.	2.1	31

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37	Epicutaneous Administration of Papain Induces IgE and IgG Responses in a Cysteine Protease Activity-Dependent Manner. <i>Allergy International</i> , 2014, 63, 219-226.	3.3	30
38	Hyposensitization to allergic reaction in rDer f 2-sensitized mice by the intranasal administration of a mutant of rDer f 2, C8/119S. <i>Clinical and Experimental Immunology</i> , 1998, 113, 1-9.	2.6	28
39	Production of Enzymatically and Immunologically Active Der f 1 in <i>Escherichia coli</i> . <i>International Archives of Allergy and Immunology</i> , 2000, 122, 108-114.	2.1	27
40	Glycosylation of Recombinant Proforms of Major House Dust Mite Allergens Der p 1 and Der f 1 Decelerates the Speed of Maturation. <i>International Archives of Allergy and Immunology</i> , 2006, 139, 181-187.	2.1	27
41	Modulation of Allergenicity of Major House Dust Mite Allergens Der f 1 and Der p 1 by Interaction with an Endogenous Ligand. <i>Journal of Immunology</i> , 2009, 183, 7958-7965.	0.8	27
42	Unlocking the allergenic structure of the major house dust mite allergen Der f 2 by elimination of key intramolecular interactions. <i>FEBS Letters</i> , 2000, 484, 102-107.	2.8	24
43	Japanese Society of Allergology task force report on standardization of house dust mite allergen vaccines – Secondary publication. <i>Allergy International</i> , 2015, 64, 181-186.	3.3	24
44	Effects of proline mutations in the major house dust mite allergen Der f 2 on IgE binding and histamine-releasing activity. <i>FEBS Journal</i> , 2000, 267, 6650-6656.	0.2	23
45	Production of Humanized Fab Fragment against Human High Affinity IgE Receptor in <i>Pichia pastoris</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 2138-2144.	1.3	21
46	Inhibition of double-stranded RNA-induced TSLP in human keratinocytes by glucocorticoids. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2009, 64, 1231-1232.	5.7	19
47	Effects of Site-Directed Mutagenesis in the Cysteine Residues and the N-Glycosylation Motif in Recombinant Der f 1 on Secretion and Protease Activity. <i>International Archives of Allergy and Immunology</i> , 2001, 124, 454-460.	2.1	18
48	Multiple mutation at a potential ligand-binding region decreased allergenicity of a mite allergen Der f 2 without disrupting global structure. <i>FEBS Letters</i> , 2005, 579, 1988-1994.	2.8	18
49	Cloning and Expression of cDNA Encoding the Complete Prepro-Form of an Isoform of Der f 1, the Major Group 1 Allergen from House Dust Mite <i>Dermatophagoides farinae</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 563-569.	1.3	17
50	Application of Immunoreaction Enhancer Solutions to an Enzyme-Linked Immunosorbent Assay for Antigen-Specific IgE in Mice Immunized with Recombinant Major Mite Allergens or Ovalbumin. <i>International Archives of Allergy and Immunology</i> , 2006, 141, 322-330.	2.1	17
51	SLPI prevents cytokine release in mite protease-exposed conjunctival epithelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2009, 379, 681-685.	2.1	17
52	Viral infection induces Thymic stromal lymphopoietin (TSLP) in human keratinocytes. <i>Journal of Dermatological Science</i> , 2011, 62, 131-134.	1.9	16
53	Subcutaneous Allergic Sensitization to Protease Allergen Is Dependent on Mast Cells but Not IL-33: Distinct Mechanisms between Subcutaneous and Intranasal Routes. <i>Journal of Immunology</i> , 2016, 196, 3559-3569.	0.8	16
54	Epitope Analysis and Primary Structures of Variable Regions of Anti-human FcγRI Monoclonal Antibodies, and Expression of the Chimeric Antibodies Fused with Human Constant Regions. <i>Bioscience, Biotechnology and Biochemistry</i> , 2000, 64, 1856-1867.	1.3	14

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55	Repeated antigen painting and sublingual immunotherapy in mice convert sublingual dendritic cell subsets. <i>Vaccine</i> , 2014, 32, 5669-5676.	3.8	14
56	Presensitization to <i>Ascaris</i> antigens promotes induction of mite-specific IgE upon mite antigen inhalation in mice. <i>Allergy International</i> , 2016, 65, 44-51.	3.3	14
57	Innate IL-17A Enhances IL-33-Independent Skin Eosinophilia and IgE Response on Subcutaneous Papain Sensitization. <i>Journal of Investigative Dermatology</i> , 2021, 141, 105-113.e14.	0.7	14
58	Inhibition of IgE-Dependent Histamine Release from Human Peripheral Blood Basophils by Humanized Fab Fragments That Recognize the Membrane Proximal Domain of the Human Fc μ R1 β -Chain. <i>International Archives of Allergy and Immunology</i> , 2000, 123, 308-318.	2.1	13
59	Development of Transgenic Rice Expressing Mite Antigen for a New Concept of Immunotherapy. <i>International Archives of Allergy and Immunology</i> , 2009, 149, 21-24.	2.1	13
60	Innate basophil IL-4 responses against allergens, endotoxin, and cytokines require the Fc receptor β -chain. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 1613-1615.e2.	2.9	13
61	Immunization of Rabbits with Nematode <i>Ascaris lumbricoides</i> Antigens Induces Antibodies Cross-Reactive to House Dust Mite <i>Dermatophagoides farinae</i> Antigens. <i>Bioscience, Biotechnology and Biochemistry</i> , 2013, 77, 145-150.	1.3	12
62	Cyclooxygenase inhibition in mice heightens adaptive and innate type responses against inhaled protease allergen and IL-33. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2237-2240.	5.7	12
63	Characterization of novel squamous cell carcinoma antigen-related molecules in mice. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 1340-1345.	2.1	11
64	Dilution Method to Refold Bacterially Expressed Recombinant Der f 2 and Der p 2 to Exhibit the Secondary Structure and Histamine-Releasing Activity of Natural Allergens. <i>International Archives of Allergy and Immunology</i> , 2005, 137, 1-8.	2.1	11
65	Skin Treatment with Detergent Promotes Protease Allergen-Dependent Epicutaneous Sensitization in a Manner Different from Tape Stripping in Mice. <i>Journal of Investigative Dermatology</i> , 2017, 137, 1578-1582.	0.7	11
66	Airway inflammation after epicutaneous sensitization of mice requires protease activity of low-dose allergen inhalation. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 2271-2273.e7.	2.9	11
67	Effects of Double Mutation at Two Distant IgE-binding Sites in the Three-dimensional Structure of the Major House Dust Mite Allergen Der f 2 on IgE-binding and Histamine-releasing Activity. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1601-1609.	1.3	10
68	The Epithelium Takes Center Stage in Allergic Keratoconjunctivitis. <i>Cornea</i> , 2010, 29, S41-S47.	1.7	8
69	Cysteine protease antigens cleave CD123, the β subunit of murine IL-3 receptor, on basophils and suppress IL-3-mediated basophil expansion. <i>Biochemical and Biophysical Research Communications</i> , 2015, 460, 261-266.	2.1	8
70	Enzyme-Linked Immunosorbent Assays with High Sensitivity for Antigen-Specific and Total Murine IgE: A Useful Tool for the Study of Allergies in Mouse Models. <i>Allergy International</i> , 2009, 58, 225-235.	3.3	6
71	Epicutaneous vaccination with protease inhibitor-treated papain prevents papain-induced Th2-mediated airway inflammation without inducing Th17 in mice. <i>Biochemical and Biophysical Research Communications</i> , 2021, 546, 192-199.	2.1	6
72	Epicutaneous challenge with protease allergen requires its protease activity to recall Th2 and Th17/Th22 responses in mice pre-sensitized via distant skin. <i>Journal of Immunotoxicology</i> , 2021, 18, 118-126.	1.7	5

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73	Expression of Humanized Fab Fragments That Recognize the IgE-Binding Domain of Human Fc ϵ RI α in COS and CHO Cells. <i>Journal of Biochemistry</i> , 2001, 129, 5-12.	1.7	4
74	Reactivities of Mutants of a Major House Dust Mite Allergen Der f 2 to Mouse Anti-Der f 2 Monoclonal Antibodies Analyzed by Immunoblotting. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 694-697.	1.3	4
75	Direct Expression of the Extracellular Portion of Human Fc μ RI α Chain as Inclusion Bodies in <i>Escherichia coli</i> . <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 79-85.	1.3	4
76	Production of Humanized Antibody against Human High-affinity IgE Receptor in a Serum-free Culture of CHO Cells, and Purification of the Fab Fragments. <i>Bioscience, Biotechnology and Biochemistry</i> , 2001, 65, 1082-1089.	1.3	4
77	Crystallization and preliminary X-ray analysis of Der f 2, a potent allergen derived from the house dust mite (<i>Dermatophagoides farinae</i>). <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1046-1048.	2.5	4
78	Missions of Protease Allergens in the Epithelium. <i>International Archives of Allergy and Immunology</i> , 2011, 154, 3-5.	2.1	4
79	Inhibition of Allergen-Induced Airway Inflammation by Low-Dose Oral Immunotherapy with Transgenic Rice Seeds Independently of Immunoglobulin E Synthesis. <i>International Archives of Allergy and Immunology</i> , 2012, 158, 66-69.	2.1	4
80	Inhibition of Both Cyclooxygenase-1 and -2 Promotes Epicutaneous Th2 and Th17 Sensitization and Allergic Airway Inflammation on Subsequent Airway Exposure to Protease Allergen in Mice. <i>International Archives of Allergy and Immunology</i> , 2021, 182, 788-799.	2.1	3
81	Mite Endopeptidase 1. , 2013, , 1957-1963.		1
82	Allergens in modern society: Updated catalogs and future prospects. <i>Allergology International</i> , 2015, 64, 293-294.	3.3	1
83	Serine Endopeptidase Allergens from <i>Dermatophagoides</i> Species. , 2013, , 3055-3060.		1
84	Cedar Allergen Harvest from Tobacco: Plant Biotechnology for Recombinant Allergens. <i>International Archives of Allergy and Immunology</i> , 2010, 153, 431-433.	2.1	0
85	Allergens in modern society: 2021. <i>Allergology International</i> , 2021, 70, 279-280.	3.3	0
86	Immunotherapy to Treat Allergies: Recent Advances and Future Prospects. <i>Juntendo Medical Journal</i> , 2015, 61, 597-600.	0.1	0