

Tomoko Hayashi

List of Publications by Year in descending order

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70
papers

4,409
citations

159585

30
h-index

106344

65
g-index

71
all docs

71
docs citations

71
times ranked

6101
citing authors

#	ARTICLE	IF	CITATIONS
1	Toll-like receptor 9 signaling mediates the anti-inflammatory effects of probiotics in murine experimental colitis. <i>Gastroenterology</i> , 2004, 126, 520-528.	1.3	817
2	Immunostimulatory DNA ameliorates experimental and spontaneous murine colitis. <i>Gastroenterology</i> , 2002, 122, 1428-1441.	1.3	333
3	The Hippo Pathway Kinases LATS1/2 Suppress Cancer Immunity. <i>Cell</i> , 2016, 167, 1525-1539.e17.	28.9	318
4	Inhibition of experimental asthma by indoleamine 2,3-dioxygenase. <i>Journal of Clinical Investigation</i> , 2004, 114, 270-279.	8.2	297
5	Combination immunotherapy with TLR agonists and checkpoint inhibitors suppresses head and neck cancer. <i>JCI Insight</i> , 2017, 2, .	5.0	203
6	3-Hydroxyanthranilic acid inhibits PDK1 activation and suppresses experimental asthma by inducing T cell apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18619-18624.	7.1	161
7	IFN- γ Promote Priming of Antigen-Specific CD8+ and CD4+ T Lymphocytes by Immunostimulatory DNA-Based Vaccines. <i>Journal of Immunology</i> , 2002, 168, 4907-4913.	0.8	117
8	Nrf2 responses and the therapeutic selectivity of electrophilic compounds in chronic lymphocytic leukemia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 7479-7484.	7.1	112
9	Immunostimulatory DNA-Based Vaccines Elicit Multifaceted Immune Responses Against HIV at Systemic and Mucosal Sites. <i>Journal of Immunology</i> , 2001, 167, 1584-1591.	0.8	100
10	Prevention of autoimmune disease by induction of tolerance to Toll-like receptor 7. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2764-2769.	7.1	100
11	Immunotherapeutic activity of a conjugate of a Toll-like receptor 7 ligand. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 3990-3995.	7.1	98
12	Synthesis and Immunological Characterization of Toll-Like Receptor 7 Agonistic Conjugates. <i>Bioconjugate Chemistry</i> , 2009, 20, 1194-1200.	3.6	95
13	Synthetic Toll-Like Receptor 4 (TLR4) and TLR7 Ligands as Influenza Virus Vaccine Adjuvants Induce Rapid, Sustained, and Broadly Protective Responses. <i>Journal of Virology</i> , 2015, 89, 3221-3235.	3.4	92
14	Vaccination with Irradiated <i>Listeria</i> Induces Protective T Cell Immunity. <i>Immunity</i> , 2006, 25, 143-152.	14.3	86
15	Airway peptidoglycan and immunostimulatory DNA exposures have divergent effects on the development of airway allergen hypersensitivities. <i>Journal of Allergy and Clinical Immunology</i> , 2004, 113, 448-454.	2.9	82
16	Identification of Substituted Pyrimido[5,4- <i>b</i>]indoles as Selective Toll-Like Receptor 4 Ligands. <i>Journal of Medicinal Chemistry</i> , 2013, 56, 4206-4223.	6.4	76
17	Liposomal immunostimulatory DNA sequence (ISS-ODN): an efficient parenteral and mucosal adjuvant for influenza and hepatitis B vaccines. <i>Vaccine</i> , 2002, 20, 3342-3354.	3.8	75
18	TLR4-dependent activation of dendritic cells by an HMGB1-derived peptide adjuvant. <i>Journal of Translational Medicine</i> , 2014, 12, 211.	4.4	75

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19	Irreversible Electroporation Combined with Checkpoint Blockade and TLR7 Stimulation Induces Antitumor Immunity in a Murine Pancreatic Cancer Model. <i>Cancer Immunology Research</i> , 2019, 7, 1714-1726.	3.4	72
20	Enhancement of Innate Immunity against <i>Mycobacterium avium</i> Infection by Immunostimulatory DNA Is Mediated by Indoleamine 2,3-Dioxygenase. <i>Infection and Immunity</i> , 2001, 69, 6156-6164.	2.2	71
21	Immunobiological activities of chemically defined lipid A from <i>Helicobacter pylori</i> LPS in comparison with <i>Porphyromonas gingivalis</i> lipid A and <i>Escherichia coli</i> -type synthetic lipid A (compound 506). <i>Vaccine</i> , 1997, 15, 1598-1605.	3.8	61
22	TLR9-Based Immunotherapy for Allergic Disease. <i>American Journal of Medicine</i> , 2006, 119, 897.e1-897.e6.	1.5	46
23	Enhancement of the Immunostimulatory Activity of a TLR7 Ligand by Conjugation to Polysaccharides. <i>Bioconjugate Chemistry</i> , 2015, 26, 1713-1723.	3.6	38
24	Role of CD40 Ligand in <i>Mycobacterium avium</i> Infection. <i>Infection and Immunity</i> , 1999, 67, 3558-3565.	2.2	38
25	Delivery of Immunotherapeutic Nanoparticles to Tumors via Enzyme-Directed Assembly. <i>Advanced Healthcare Materials</i> , 2019, 8, e1901105.	7.6	35
26	Mast cell-dependent anorexia and hypothermia induced by mucosal activation of Toll-like receptor 7. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R123-R132.	1.8	32
27	Importance of Toll-Like Receptor 9 in Host Defense against M1T1 Group A <i>Streptococcus</i> Infections. <i>Journal of Innate Immunity</i> , 2012, 4, 213-218.	3.8	32
28	Synthetic Toll-Like Receptor 4 (TLR4) and TLR7 Ligands Work Additively via MyD88 To Induce Protective Antiviral Immunity in Mice. <i>Journal of Virology</i> , 2017, 91, .	3.4	32
29	Generation and Application of a Reporter Cell Line for the Quantitative Screen of Extracellular Vesicle Release. <i>Frontiers in Pharmacology</i> , 2021, 12, 668609.	3.5	32
30	Synthesis and Characterization of PEGylated Toll Like Receptor 7 Ligands. <i>Bioconjugate Chemistry</i> , 2011, 22, 445-454.	3.6	30
31	Induction of Tolerogenic Dendritic Cells by a PEGylated TLR7 Ligand for Treatment of Type 1 Diabetes. <i>PLoS ONE</i> , 2015, 10, e0129867.	2.5	27
32	Intravesical Toll-like receptor 7 agonist R837: Optimization of its formulation in an orthotopic mouse model of bladder cancer. <i>International Journal of Urology</i> , 2010, 17, 483-490.	1.0	26
33	Cutting Edge: Nitrogen Bisphosphonate-Induced Inflammation Is Dependent upon Mast Cells and IL-1. <i>Journal of Immunology</i> , 2012, 188, 2977-2980.	0.8	24
34	Additive melanoma suppression with intralesional phospholipid-conjugated TLR7 agonists and systemic IL-2. <i>Melanoma Research</i> , 2011, 21, 66-75.	1.2	22
35	Role of IL-1 receptor-associated kinase-M (IRAK-M) in priming of immune and inflammatory responses by nitrogen bisphosphonates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 11163-11168.	7.1	22
36	Extraction protocol and mass spectrometry method for quantification of doxorubicin released locally from prodrugs in tumor tissue. <i>Journal of Mass Spectrometry</i> , 2013, 48, 768-773.	1.6	22

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37	Induction and Inhibition of the Th2 Phenotype Spread: Implications for Childhood Asthma. <i>Journal of Immunology</i> , 2005, 174, 5864-5873.	0.8	21
38	In vivo efficacy of a phosphodiester TLR-9 aptamer and its beneficial effect in a pulmonary anthrax infection model. <i>Cellular Immunology</i> , 2008, 251, 78-85.	3.0	21
39	Cell-penetrating peptide CGKRK mediates efficient and widespread targeting of bladder mucosa following focal injury. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1925-1932.	3.3	21
40	Discovery of substituted 4-aminoquinazolines as selective Toll-like receptor 4 ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 4931-4938.	2.2	20
41	Treatment of Autoimmune Inflammation by a TLR7 Ligand Regulating the Innate Immune System. <i>PLoS ONE</i> , 2012, 7, e45860.	2.5	20
42	Identification of Biologically Active Pyrimido[5,4- <i>b</i>]indoles That Prolong NF- κ B Activation without Intrinsic Activity. <i>ACS Combinatorial Science</i> , 2017, 19, 533-543.	3.8	19
43	Localized <i>In Vivo</i> Activation of a Photoactivatable Doxorubicin Prodrug in Deep Tumor Tissue. <i>Photochemistry and Photobiology</i> , 2013, 89, 698-708.	2.5	18
44	Gold Nanoparticles Coimmobilized with Small Molecule Toll-Like Receptor 7 Ligand and α -Mannose as Adjuvants. <i>Bioconjugate Chemistry</i> , 2019, 30, 2811-2821.	3.6	18
45	Analysis of high-throughput screening assays using cluster enrichment. <i>Statistics in Medicine</i> , 2012, 31, 4175-4189.	1.6	17
46	Induction of oligoclonal CD8 T cell responses against pulmonary metastatic cancer by a phospholipid-conjugated TLR7 agonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6836-E6844.	7.1	17
47	Innate Immune Protection against Infectious Diseases by Pulmonary Administration of a Phospholipid-Conjugated TLR7 Ligand. <i>Journal of Innate Immunity</i> , 2014, 6, 315-324.	3.8	16
48	A Novel Synthetic Dual Agonistic Liposomal TLR4/7 Adjuvant Promotes Broad Immune Responses in an Influenza Vaccine With Minimal Reactogenicity. <i>Frontiers in Immunology</i> , 2020, 11, 1207.	4.8	16
49	Novel Synthetic Toll-Like Receptor 4/MD2 Ligands Attenuate Sterile Inflammation. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2014, 350, 330-340.	2.5	15
50	Fluorescent-tilmancept for tumor margin analysis in the mouse model. <i>Journal of Surgical Research</i> , 2014, 190, 528-534.	1.6	14
51	Recent Advances and Perspectives in Small-molecule TLR Ligands and Their Modulators. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 1156-1159.	2.8	14
52	A clinico-epidemiological analysis of <i>Helicobacter pylori</i> (H. pylori) by Southern blotting with A urease gene probe. <i>Journal of Gastroenterology</i> , 1994, 29, 120-124.	5.1	13
53	Conjugation of a Small-Molecule TLR7 Agonist to Silica Nanoshells Enhances Adjuvant Activity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26637-26647.	8.0	13
54	CpG oligonucleotides partially inhibit growth of <i>Mycobacterium tuberculosis</i> , but not <i>Salmonella</i> or <i>Listeria</i> , in human monocyte-derived macrophages. <i>FEMS Immunology and Medical Microbiology</i> , 2005, 45, 303-310.	2.7	12

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55	A traditional Japanese medicine mitigates TNBS-induced colitis in rats. <i>Scandinavian Journal of Gastroenterology</i> , 2006, 41, 1183-1189.	1.5	12
56	Release of monocyte chemoattractant protein (MCP)-1 by a human alveolar epithelial cell line in response to <i>Mycobacterium avium</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2000, 29, 1-7.	2.7	11
57	Chromosomal heterogeneity of <i>Helicobacter pylori</i> isolates by pulsed-field gel electrophoresis. <i>Zentralblatt Fur Bakteriologie: International Journal of Medical Microbiology</i> , 1993, 280, 120-127.	0.5	10
58	Discovery of a Novel Microtubule Targeting Agent as an Adjuvant for Cancer Immunotherapy. <i>BioMed Research International</i> , 2018, 2018, 1-13.	1.9	10
59	The Role of Plasmacytoid and Myeloid Dendritic Cells in Induction of Asthma in a Mouse Model and the Effect of a TLR9 Agonist on Dendritic Cells. <i>Allergy, Asthma and Immunology Research</i> , 2011, 3, 199.	2.9	9
60	Inhibition of keratinocyte proliferation by phospholipid-conjugates of a TLR7 ligand in a Myc-induced hyperplastic actinic keratosis model in the absence of systemic side effects. <i>European Journal of Dermatology</i> , 2013, 23, 618-628.	0.6	9
61	Identification of Compounds That Prolong Type I Interferon Signaling as Potential Vaccine Adjuvants. <i>SLAS Discovery</i> , 2018, 23, 960-973.	2.7	9
62	Identification of a chemotactic, MCP-1-like protein from <i>Mycobacterium avium</i> . <i>FEMS Immunology and Medical Microbiology</i> , 2002, 33, 115-124.	2.7	8
63	Structure-Activity Relationship Studies To Identify Affinity Probes in Bis-aryl Sulfonamides That Prolong Immune Stimuli. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 9521-9540.	6.4	8
64	Mast Cell-Mediated Inhibition of Abdominal Neutrophil Inflammation by a PEGylated TLR7 Ligand. <i>Mediators of Inflammation</i> , 2012, 2012, 1-10.	3.0	7
65	Detection of mitochondrial DNA nucleotide 11778 point mutation of Leber hereditary optic neuropathy from archival stained histopathological preparations. <i>Acta Ophthalmologica</i> , 1998, 76, 14-19.	0.3	6
66	Mitochondria-dependent synthetic small-molecule vaccine adjuvants for influenza virus infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	6
67	Structure-activity relationship studies in substituted sulfamoyl benzamidothiazoles that prolong NF- κ B activation. <i>Bioorganic and Medicinal Chemistry</i> , 2021, 43, 116242.	3.0	5
68	Increased aldehyde dehydrogenase activity in high-risk chronic lymphocytic leukemia. <i>Leukemia and Lymphoma</i> , 2013, 54, 400-402.	1.3	4
69	Synthesis and immunostimulatory activity of sugar-conjugated TLR7 ligands. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 126840.	2.2	3
70	A Triple High Throughput Screening for Extracellular Vesicle Inducing Agents With Immunostimulatory Activity. <i>Frontiers in Pharmacology</i> , 2022, 13, 869649.	3.5	2