

# Hiroyuki Oshiumi

## List of Publications by Year in descending order

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105  
papers

8,876  
citations

53794

45  
h-index

42399

92  
g-index

113  
all docs

113  
docs citations

113  
times ranked

9865  
citing authors

#	ARTICLE	IF	CITATIONS
1	TICAM-1, an adaptor molecule that participates in Toll-like receptor 3-mediated interferon- $\beta$ induction. <i>Nature Immunology</i> , 2003, 4, 161-167.	14.5	1,107
2	Subcellular Localization of Toll-Like Receptor 3 in Human Dendritic Cells. <i>Journal of Immunology</i> , 2003, 171, 3154-3162.	0.8	646
3	TIR-containing Adapter Molecule (TICAM)-2, a Bridging Adapter Recruiting to Toll-like Receptor 4 TICAM-1 That Induces Interferon- $\beta$ . <i>Journal of Biological Chemistry</i> , 2003, 278, 49751-49762.	3.4	345
4	Complex Formation and Functional Versatility of Mre11 of Budding Yeast in Recombination. <i>Cell</i> , 1998, 95, 705-716.	28.9	341
5	Teleost TLR22 Recognizes RNA Duplex to Induce IFN and Protect Cells from Birnaviruses. <i>Journal of Immunology</i> , 2008, 181, 3474-3485.	0.8	319
6	Riplet/RNF135, a RING Finger Protein, Ubiquitinates RIG-I to Promote Interferon- $\beta$ Induction during the Early Phase of Viral Infection. <i>Journal of Biological Chemistry</i> , 2009, 284, 807-817.	3.4	308
7	Prediction of the prototype of the human Toll-like receptor gene family from the pufferfish, <i>Fugu rubripes</i> , genome. <i>Immunogenetics</i> , 2003, 54, 791-800.	2.4	285
8	DDX60, a DEXD/H Box Helicase, Is a Novel Antiviral Factor Promoting RIG-I-Like Receptor-Mediated Signaling. <i>Molecular and Cellular Biology</i> , 2011, 31, 3802-3819.	2.3	232
9	Combined Blockade of IL6 and PD-1/PD-L1 Signaling Abrogates Mutual Regulation of Their Immunosuppressive Effects in the Tumor Microenvironment. <i>Cancer Research</i> , 2018, 78, 5011-5022.	0.9	224
10	The Ubiquitin Ligase Riplet Is Essential for RIG-I-Dependent Innate Immune Responses to RNA Virus Infection. <i>Cell Host and Microbe</i> , 2010, 8, 496-509.	11.0	218
11	Sensing Bacterial Flagellin by Membrane and Soluble Orthologs of Toll-like Receptor 5 in Rainbow Trout ( <i>Onchorhynchus mikiss</i> ). <i>Journal of Biological Chemistry</i> , 2004, 279, 48588-48597.	3.4	214
12	Mitofusin 2 Inhibits Mitochondrial Antiviral Signaling. <i>Science Signaling</i> , 2009, 2, ra47.	3.6	206
13	DEAD/H BOX 3 (DDX3) helicase binds the RIG-I adaptor IPS-1 to up-regulate IFN- $\beta$ inducing potential. <i>European Journal of Immunology</i> , 2010, 40, 940-948.	2.9	196
14	Toll-like receptor 3 signaling converts tumor-supporting myeloid cells to tumoricidal effectors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2066-2071.	7.1	195
15	A Distinct Role of Riplet-Mediated K63-Linked Polyubiquitination of the RIG-I Repressor Domain in Human Antiviral Innate Immune Responses. <i>PLoS Pathogens</i> , 2013, 9, e1003533.	4.7	186
16	Toll-Like Receptor 3: A Link between Toll-Like Receptor, Interferon and Viruses. <i>Microbiology and Immunology</i> , 2004, 48, 147-154.	1.4	165
17	The cytoplasmic 'linker region' in Toll-like receptor 3 controls receptor localization and signaling. <i>International Immunology</i> , 2004, 16, 1143-1154.	4.0	159
18	Extracellular Vesicles Including Exosomes Regulate Innate Immune Responses to Hepatitis B Virus Infection. <i>Frontiers in Immunology</i> , 2016, 7, 335.	4.8	152

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19	Collaborative Action of Brca1 and CtIP in Elimination of Covalent Modifications from Double-Strand Breaks to Facilitate Subsequent Break Repair. <i>PLoS Genetics</i> , 2010, 6, e1000828.	3.5	133
20	Antiviral responses induced by the TLR3 pathway. <i>Reviews in Medical Virology</i> , 2011, 21, 67-77.	8.3	132
21	DDX60 Is Involved in RIG-I-Dependent and Independent Antiviral Responses, and Its Function Is Attenuated by Virus-Induced EGFR Activation. <i>Cell Reports</i> , 2015, 11, 1193-1207.	6.4	127
22	A Protein Complex Containing Mei5 and Sae3 Promotes the Assembly of the Meiosis-Specific RecA Homolog Dmc1. <i>Cell</i> , 2004, 119, 927-940.	28.9	125
23	Cutting Edge: NF- $\kappa$ B-Activating Kinase-Associated Protein 1 Participates in TLR3/Toll-IL-1 Homology Domain-Containing Adapter Molecule-1-Mediated IFN Regulatory Factor 3 Activation. <i>Journal of Immunology</i> , 2005, 174, 27-30.	0.8	123
24	Immune-suppressive effects of interleukin-6 on T-cell-mediated anti-tumor immunity. <i>Cancer Science</i> , 2018, 109, 523-530.	3.9	106
25	Combinational recognition of bacterial lipoproteins and peptidoglycan by chicken Toll-like receptor 2 subfamily. <i>Developmental and Comparative Immunology</i> , 2008, 32, 147-155.	2.3	89
26	Identification of a polyI:C-inducible membrane protein that participates in dendritic cell-mediated natural killer cell activation. <i>Journal of Experimental Medicine</i> , 2010, 207, 2675-2687.	8.5	89
27	Extracellular Vesicles Deliver Host and Virus RNA and Regulate Innate Immune Response. <i>International Journal of Molecular Sciences</i> , 2017, 18, 666.	4.1	89
28	The Toll-Like Receptor 3-Mediated Antiviral Response Is Important for Protection against Poliovirus Infection in Poliovirus Receptor Transgenic Mice. <i>Journal of Virology</i> , 2012, 86, 185-194.	3.4	88
29	Phylogenetic and expression analysis of lamprey toll-like receptors. <i>Developmental and Comparative Immunology</i> , 2010, 34, 855-865.	2.3	84
30	Spatiotemporal Mobilization of Toll/IL-1 Receptor Domain-Containing Adaptor Molecule-1 in Response to dsRNA. <i>Journal of Immunology</i> , 2007, 179, 6867-6872.	0.8	82
31	Hepatitis C Virus Core Protein Abrogates the DDX3 Function That Enhances IPS-1-Mediated IFN- $\beta$ Induction. <i>PLoS ONE</i> , 2010, 5, e14258.	2.5	80
32	Direct binding of TRAF2 and TRAF6 to TICAM-1/TRIF adaptor participates in activation of the Toll-like receptor 3/4 pathway. <i>Molecular Immunology</i> , 2010, 47, 1283-1291.	2.2	80
33	The TLR3/TICAM-1 Pathway Is Mandatory for Innate Immune Responses to Poliovirus Infection. <i>Journal of Immunology</i> , 2011, 187, 5320-5327.	0.8	80
34	PolyI:C-Induced, TLR3/RIP3-Dependent Necroptosis Backs Up Immune Effector-Mediated Tumor Elimination <i>In Vivo</i> . <i>Cancer Immunology Research</i> , 2015, 3, 902-914.	3.4	79
35	Regulation of RIG-I Activation by K63-Linked Polyubiquitination. <i>Frontiers in Immunology</i> , 2017, 8, 1942.	4.8	71
36	Functional evolution of the TICAM-1 pathway for extrinsic RNA sensing. <i>Immunological Reviews</i> , 2009, 227, 44-53.	6.0	70

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37	Pan-Vertebrate Toll-Like Receptors During Evolution. <i>Current Genomics</i> , 2008, 9, 488-493.	1.6	69
38	RIG-I-Like Receptor-Mediated Recognition of Viral Genomic RNA of Severe Acute Respiratory Syndrome Coronavirus-2 and Viral Escape From the Host Innate Immune Responses. <i>Frontiers in Immunology</i> , 2021, 12, 700926.	4.8	69
39	STING in tumor and host cells cooperatively work for NK cell-mediated tumor growth retardation. <i>Biochemical and Biophysical Research Communications</i> , 2016, 478, 1764-1771.	2.1	66
40	Homo-oligomerization Is Essential for Toll/Interleukin-1 Receptor Domain-containing Adaptor Molecule-1-mediated NF- $\kappa$ B and Interferon Regulatory Factor-3 Activation. <i>Journal of Biological Chemistry</i> , 2008, 283, 18283-18291.	3.4	63
41	RIOK3-Mediated Phosphorylation of MDA5 Interferes with Its Assembly and Attenuates the Innate Immune Response. <i>Cell Reports</i> , 2015, 11, 192-200.	6.4	63
42	Ubiquitin-mediated modulation of the cytoplasmic viral RNA sensor RIG-I. <i>Journal of Biochemistry</i> , 2012, 151, 5-11.	1.7	62
43	Cross-priming for antitumor CTL induced by soluble Ag + polyI:C depends on the TICAM-1 pathway in mouse CD11c <sup>+</sup> /CD8 $\alpha$ <sup>+</sup> dendritic cells. <i>Oncolmmunology</i> , 2012, 1, 581-592.	4.6	58
44	Accessory Factors of Cytoplasmic Viral RNA Sensors Required for Antiviral Innate Immune Response. <i>Frontiers in Immunology</i> , 2016, 7, 200.	4.8	58
45	TICAM-1 and TICAM-2: toll-like receptor adapters that participate in induction of type 1 interferons. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 524-529.	2.8	52
46	Recognition of Viral RNA by Pattern Recognition Receptors in the Induction of Innate Immunity and Excessive Inflammation During Respiratory Viral Infections. <i>Viral Immunology</i> , 2017, 30, 408-420.	1.3	47
47	TLR3/TICAM-1 signaling in tumor cell RIP3-dependent necroptosis. <i>Oncolmmunology</i> , 2012, 1, 917-923.	4.6	46
48	A Molecular Mechanism for Toll-IL-1 Receptor Domain-containing Adaptor Molecule-1-mediated IRF-3 Activation. <i>Journal of Biological Chemistry</i> , 2010, 285, 20128-20136.	3.4	42
49	Biphasic function of TLR3 adjuvant on tumor and spleen dendritic cells promotes tumor T cell infiltration and regression in a vaccine therapy. <i>Oncolmmunology</i> , 2016, 5, e1188244.	4.6	41
50	Pattern recognition receptors of innate immunity and their application to tumor immunotherapy. <i>Cancer Science</i> , 2010, 101, 313-320.	3.9	38
51	Cell Type-Specific Subcellular Localization of Phospho-TBK1 in Response to Cytoplasmic Viral DNA. <i>PLoS ONE</i> , 2013, 8, e83639.	2.5	37
52	Myeloid-Derived Suppressor Cells Confer Tumor-Suppressive Functions on Natural Killer Cells via Polyinosinic:Polycytidylic Acid Treatment in Mouse Tumor Models. <i>Journal of Innate Immunity</i> , 2014, 6, 293-305.	3.8	35
53	Functional interfaces between TICAM-2/TRAM and TICAM-1/TRIF in TLR4 signaling. <i>Biochemical Society Transactions</i> , 2017, 45, 929-935.	3.4	35
54	MicroRNA-451a in extracellular, blood-resident vesicles attenuates macrophage and dendritic cell responses to influenza whole-virus vaccine. <i>Journal of Biological Chemistry</i> , 2018, 293, 18585-18600.	3.4	35

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55	INAM Plays a Critical Role in IFN- $\beta$ Production by NK Cells Interacting with Polyinosinic-Polycytidylic Acid-“Stimulated Accessory Cells. <i>Journal of Immunology</i> , 2014, 193, 5199-5207.	0.8	31
56	Recent Advances and Contradictions in the Study of the Individual Roles of Ubiquitin Ligases That Regulate RIG-I-Like Receptor-Mediated Antiviral Innate Immune Responses. <i>Frontiers in Immunology</i> , 2020, 11, 1296.	4.8	31
57	Strain-to-strain difference of V protein of measles virus affects MDA5-mediated IFN- $\beta$ -inducing potential. <i>Molecular Immunology</i> , 2011, 48, 497-504.	2.2	30
58	Interferon-stimulated gene of 20 kDa protein (ISG20) degrades RNA of hepatitis B virus to impede the replication of HBV <i>in vitro</i> and <i>in vivo</i> . <i>Oncotarget</i> , 2016, 7, 68179-68193.	1.8	30
59	HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains. <i>PLoS Pathogens</i> , 2017, 13, e1006162.	4.7	30
60	A Short Consensus Repeat-Containing Complement Regulatory Protein of Lamprey That Participates in Cleavage of Lamprey Complement 3. <i>Journal of Immunology</i> , 2004, 173, 1118-1128.	0.8	29
61	Cyclin-dependent kinase promotes formation of the synaptonemal complex in yeast meiosis. <i>Genes To Cells</i> , 2010, 15, 1036-1050.	1.2	27
62	Attenuation of the Innate Immune Response against Viral Infection Due to ZNF598-Promoted Binding of FAT10 to RIG-I. <i>Cell Reports</i> , 2019, 28, 1961-1970.e4.	6.4	25
63	Aging-Associated Extracellular Vesicles Contain Immune Regulatory microRNAs Alleviating Hyperinflammatory State and Immune Dysfunction in the Elderly. <i>IScience</i> , 2020, 23, 101520.	4.1	24
64	DNAJB1/HSP40 Suppresses Melanoma Differentiation-Associated Gene 5-Mitochondrial Antiviral Signaling Protein Function in Conjunction with HSP70. <i>Journal of Innate Immunity</i> , 2018, 10, 44-55.	3.8	22
65	Circulating extracellular vesicle microRNAs associated with adverse reactions, proinflammatory cytokine, and antibody production after COVID-19 vaccination. <i>Npj Vaccines</i> , 2022, 7, 16.	6.0	22
66	Aging-associated and CD4 T-cell-dependent ectopic CXCL13 activation predisposes to anti-PD-1 therapy-induced adverse events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	21
67	Development of Mouse Hepatocyte Lines Permissive for Hepatitis C Virus (HCV). <i>PLoS ONE</i> , 2011, 6, e21284.	2.5	20
68	Links between recognition and degradation of cytoplasmic viral RNA in innate immune response. <i>Reviews in Medical Virology</i> , 2016, 26, 90-101.	8.3	19
69	Regulator of Complement Activation (RCA) Locus in Chicken: Identification of Chicken RCA Gene Cluster and Functional RCA Proteins. <i>Journal of Immunology</i> , 2005, 175, 1724-1734.	0.8	18
70	The MyD88 Pathway in Plasmacytoid and CD4+Dendritic Cells Primarily Triggers Type I IFN Production against Measles Virus in a Mouse Infection Model. <i>Journal of Immunology</i> , 2013, 191, 4740-4747.	0.8	18
71	IPS-1 Is Essential for Type III IFN Production by Hepatocytes and Dendritic Cells in Response to Hepatitis C Virus Infection. <i>Journal of Immunology</i> , 2014, 192, 2770-2777.	0.8	18
72	Resistance to chemical carcinogenesis induction via a dampened inflammatory response in naked mole-rats. <i>Communications Biology</i> , 2022, 5, 287.	4.4	17

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73	An embryo-specific expressing TGF- $\beta$ family protein, growth-differentiation factor 3 (GDF3), augments progression of B16 melanoma. <i>Journal of Experimental and Clinical Cancer Research</i> , 2010, 29, 135.	8.6	16
74	Development of mouse models for analysis of human virus infections. <i>Microbiology and Immunology</i> , 2017, 61, 107-113.	1.4	16
75	A MAVS/TICAM-1-Independent Interferon-Inducing Pathway Contributes to Regulation of Hepatitis B Virus Replication in the Mouse Hydrodynamic Injection Model. <i>Journal of Innate Immunity</i> , 2015, 7, 47-58.	3.8	15
76	Zyxin stabilizes RIG-I and MAVS interactions and promotes type I interferon response. <i>Scientific Reports</i> , 2017, 7, 11905.	3.3	15
77	Regulator of complement activation (RCA) gene cluster in <i>Xenopus tropicalis</i> . <i>Immunogenetics</i> , 2009, 61, 371-384.	2.4	14
78	Interferon (IFN) and Cellular Immune Response Evoked in RNA-Pattern Sensing During Infection with Hepatitis C Virus (HCV). <i>Sensors</i> , 2015, 15, 27160-27173.	3.8	14
79	Dendritic cell subsets involved in type I IFN induction in mouse measles virus infection models. <i>International Journal of Biochemistry and Cell Biology</i> , 2014, 53, 329-333.	2.8	13
80	Evolution of the DEAD box helicase family in chicken: chickens have no DHX9 ortholog. <i>Microbiology and Immunology</i> , 2015, 59, 633-640.	1.4	13
81	cGAMP Promotes Germinal Center Formation and Production of IgA in Nasal-Associated Lymphoid Tissue. <i>Medical Sciences (Basel, Switzerland)</i> , 2017, 5, 35.	2.9	13
82	Circulating Extracellular Vesicles Carry Immune Regulatory miRNAs and Regulate Vaccine Efficacy and Local Inflammatory Response After Vaccination. <i>Frontiers in Immunology</i> , 2021, 12, 685344.	4.8	13
83	Recombinant interleukin-12 and interleukin-18 antitumor therapy in a guinea-pig hepatoma cell implant model. <i>Cancer Science</i> , 2007, 98, 1936-1942.	3.9	11
84	Immune-regulatory microRNA expression levels within circulating extracellular vesicles correspond with the appearance of local symptoms after seasonal flu vaccination. <i>PLoS ONE</i> , 2019, 14, e0219510.	2.5	11
85	Cooperative methylation of human tRNA <sup>3Lys</sup> at positions A58 and U54 drives the early and late steps of HIV-1 replication. <i>Nucleic Acids Research</i> , 2021, 49, 11855-11867.	14.5	11
86	Multi-Step Regulation of Interferon Induction by Hepatitis C Virus. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2013, 61, 127-138.	2.3	10
87	Toll-IL-1-Receptor-Containing Adaptor Molecule-1. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 117, 487-510.	1.7	10
88	Oligomerized TICAM-1 (TRIF) in the cytoplasm recruits nuclear BS69 to enhance NF- $\kappa$ B activation and type I IFN induction. <i>European Journal of Immunology</i> , 2009, 39, 3469-3476.	2.9	9
89	Activation of TLR3 and its adaptor TICAM-1 increases miR-21 levels in extracellular vesicles released from human cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 500, 744-750.	2.1	9
90	The role of macrophages in anti-tumor immune responses: pathological significance and potential as therapeutic targets. <i>Human Cell</i> , 2021, 34, 1031-1039.	2.7	9

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91	MAVS-dependent IRF3/7 bypass of interferon $\hat{2}$ -induction restricts the response to measles infection in CD150Tg mouse bone marrow-derived dendritic cells. <i>Molecular Immunology</i> , 2014, 57, 100-110.	2.2	7
92	Nucleic Acid Sensors Involved in the Recognition of HBV in the Liverâ€“Specific in vivo Transfection Mouse Modelsâ€“Pattern Recognition Receptors and Sensors for HBV. <i>Medical Sciences (Basel)</i> , 2019, 7, 10.	2.0	10
93	TICAM-1 is dispensable in STING-mediated innate immune responses in myeloid immune cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 499, 985-991.	2.1	7
94	Identification of a Regulatory Acidic Motif as the Determinant of Membrane Localization of TICAM-2. <i>Journal of Immunology</i> , 2015, 195, 4456-4465.	0.8	5
95	Aureobasidium pullulans-cultured fluid induces IL-18 production, leading to Th1-polarization during influenza A virus infection. <i>Journal of Biochemistry</i> , 2018, 163, 31-38.	1.7	5
96	TICAM-1/TRIF associates with Act1 and suppresses IL-17 receptorâ€“mediated inflammatory responses. <i>Life Science Alliance</i> , 2022, 5, e202101181.	2.8	5
97	Subtilase cytotoxin from Shiga-toxigenic Escherichia coli impairs the inflammasome and exacerbates enteropathogenic bacterial infection. <i>IScience</i> , 2022, 25, 104050.	4.1	5
98	Double-stranded RNA analog and type I interferon regulate expression of Trem paired receptors in murine myeloid cells. <i>BMC Immunology</i> , 2016, 17, 9.	2.2	4
99	miR-451a levels rather than human papillomavirus vaccine administration is associated with the severity of murine experimental autoimmune encephalomyelitis. <i>Scientific Reports</i> , 2021, 11, 9369.	3.3	4
100	Export of RNA-derived modified nucleosides by equilibrative nucleoside transporters defines the magnitude of autophagy response and Zika virus replication. <i>RNA Biology</i> , 2021, 18, 478-495.	3.1	4
101	E3 Ubiquitin Ligase Riplet Is Expressed in T Cells and Suppresses T Cellâ€“Mediated Antitumor Immune Responses. <i>Journal of Immunology</i> , 2022, 208, 2067-2076.	0.8	4
102	Editorial: Emerging Viruses: Host Immunity and Novel Therapeutic Interventions. <i>Frontiers in Immunology</i> , 2018, 9, 2828.	4.8	3
103	Cytoplasmic dsRNA induces the expression of OCT3/4 and NANOG mRNAs in differentiated human cells. <i>Journal of Biological Chemistry</i> , 2019, 294, 18969-18979.	3.4	3
104	RIOK3 keeps MDA5 inactive. <i>Oncotarget</i> , 2015, 6, 30423-30424.	1.8	3
105	The dataset of proteins specifically interacted with activated TICAM-1. <i>Data in Brief</i> , 2016, 8, 697-699.	1.0	1