

Masamichi Muramatsu

List of Publications by Year in descending order

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114
papers

14,791
citations

61945

43
h-index

22808

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118
all docs

118
docs citations

118
times ranked

10101
citing authors

#	ARTICLE	IF	CITATIONS
1	Class Switch Recombination and Hypermutation Require Activation-Induced Cytidine Deaminase (AID), a Potential RNA Editing Enzyme. <i>Cell</i> , 2000, 102, 553-563.	13.5	3,089
2	Activation-Induced Cytidine Deaminase (AID) Deficiency Causes the Autosomal Recessive Form of the Hyper-IgM Syndrome (HIGM2). <i>Cell</i> , 2000, 102, 565-575.	13.5	1,489
3	Specific Expression of Activation-induced Cytidine Deaminase (AID), a Novel Member of the RNA-editing Deaminase Family in Germinal Center B Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 18470-18476.	1.6	1,014
4	Aberrant expansion of segmented filamentous bacteria in IgA-deficient gut. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1981-1986.	3.3	642
5	MOLECULAR MECHANISM OF CLASS SWITCH RECOMBINATION: Linkage with Somatic Hypermutation. <i>Annual Review of Immunology</i> , 2002, 20, 165-196.	9.5	549
6	Critical Roles of Activation-Induced Cytidine Deaminase in the Homeostasis of Gut Flora. <i>Science</i> , 2002, 298, 1424-1427.	6.0	546
7	AID is required to initiate Nbs1/Î³-H2AX focus formation and mutations at sites of class switching. <i>Nature</i> , 2001, 414, 660-665.	13.7	459
8	AID Is Required for c-myc/IgH Chromosome Translocations In Vivo. <i>Cell</i> , 2004, 118, 431-438.	13.5	417
9	Constitutive Expression of AID Leads to Tumorigenesis. <i>Journal of Experimental Medicine</i> , 2003, 197, 1173-1181.	4.2	405
10	In situ class switching and differentiation to IgA-producing cells in the gut lamina propria. <i>Nature</i> , 2001, 413, 639-643.	13.7	381
11	B1b Lymphocytes Confer T Cell-Independent Long-Lasting Immunity. <i>Immunity</i> , 2004, 21, 379-390.	6.6	368
12	AID Enzyme-Induced Hypermutation in an Actively Transcribed Gene in Fibroblasts. <i>Science</i> , 2002, 296, 2033-2036.	6.0	345
13	AID is required for germinal center-derived lymphomagenesis. <i>Nature Genetics</i> , 2008, 40, 108-112.	9.4	340
14	AID mutant analyses indicate requirement for class-switch-specific cofactors. <i>Nature Immunology</i> , 2003, 4, 843-848.	7.0	301
15	Activation-induced cytidine deaminase shuttles between nucleus and cytoplasm like apolipoprotein B mRNA editing catalytic polypeptide 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1975-1980.	3.3	271
16	PD-1 and LAG-3 inhibitory co-receptors act synergistically to prevent autoimmunity in mice. <i>Journal of Experimental Medicine</i> , 2011, 208, 395-407.	4.2	256
17	The AID enzyme induces class switch recombination in fibroblasts. <i>Nature</i> , 2002, 416, 340-345.	13.7	240
18	Separate domains of AID are required for somatic hypermutation and class-switch recombination. <i>Nature Immunology</i> , 2004, 5, 707-712.	7.0	199

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19	Activation-induced Deaminase (AID)-directed Hypermutation in the Immunoglobulin S $\frac{1}{4}$ Region. <i>Journal of Experimental Medicine</i> , 2002, 195, 529-534.	4.2	182
20	Aid. <i>Immunity</i> , 2004, 20, 659-668.	6.6	181
21	Epidermal growth factor receptor is a host-entry cofactor triggering hepatitis B virus internalization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8487-8492.	3.3	170
22	Interleukin-1 and Tumor Necrosis Factor- β Trigger Restriction of Hepatitis B Virus Infection via a Cytidine Deaminase Activation-induced Cytidine Deaminase (AID). <i>Journal of Biological Chemistry</i> , 2013, 288, 31715-31727.	1.6	140
23	Isolation, Tissue Distribution, and Chromosomal Localization of the Human Activation-Induced Cytidine Deaminase (AID) Gene. <i>Genomics</i> , 2000, 68, 85-88.	1.3	129
24	Uracil DNA Glycosylase Activity Is Dispensable for Immunoglobulin Class Switch. <i>Science</i> , 2004, 305, 1160-1163.	6.0	112
25	Discovery of Activation-Induced Cytidine Deaminase, the Engraver of Antibody Memory. <i>Advances in Immunology</i> , 2007, 94, 1-36.	1.1	105
26	De novo protein synthesis is required for the activation-induced cytidine deaminase function in class-switch recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 2634-2638.	3.3	104
27	Fractalkine and macrophage-derived chemokine: T cell-attracting chemokines expressed in T cell area dendritic cells. <i>European Journal of Immunology</i> , 1999, 29, 1925-1932.	1.6	101
28	Histone3 lysine4 trimethylation regulated by the facilitates chromatin transcription complex is critical for DNA cleavage in class switch recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 22190-22195.	3.3	100
29	Negative regulation of activation-induced cytidine deaminase in B cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2752-2757.	3.3	93
30	AID to overcome the limitations of genomic information. <i>Nature Immunology</i> , 2005, 6, 655-661.	7.0	91
31	Evolution of class switch recombination function in fish activation-induced cytidine deaminase, AID. <i>International Immunology</i> , 2006, 18, 41-47.	1.8	84
32	APOBEC3 Deaminases Induce Hypermutation in Human Papillomavirus 16 DNA upon Beta Interferon Stimulation. <i>Journal of Virology</i> , 2014, 88, 1308-1317.	1.5	84
33	DNA Double-Strand Breaks. <i>Journal of Experimental Medicine</i> , 2002, 195, 1187-1192.	4.2	83
34	Flap endonuclease 1 is involved in cccDNA formation in the hepatitis B virus. <i>PLoS Pathogens</i> , 2018, 14, e1007124.	2.1	78
35	Unmutated Immunoglobulin M Can Protect Mice from Death by Influenza Virus Infection. <i>Journal of Experimental Medicine</i> , 2003, 197, 1779-1785.	4.2	72
36	Activation-induced cytidine deaminase (AID) promotes B cell lymphomagenesis in Emu-cmyc transgenic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 1616-1620.	3.3	72

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37	A target selection of somatic hypermutations is regulated similarly between T and B cells upon activation-induced cytidine deaminase expression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 4506-4511.	3.3	70
38	CXCR5-Dependent Seeding of Follicular Niches by B and Th Cells Augments Antiviral B Cell Responses. <i>Journal of Immunology</i> , 2005, 175, 7109-7116.	0.4	68
39	AID-induced decrease in topoisomerase 1 induces DNA structural alteration and DNA cleavage for class switch recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22375-22380.	3.3	66
40	Uracil DNA Glycosylase Counteracts APOBEC3G-Induced Hypermutation of Hepatitis B Viral Genomes: Excision Repair of Covalently Closed Circular DNA. <i>PLoS Pathogens</i> , 2013, 9, e1003361.	2.1	61
41	RNA editing of hepatitis B virus transcripts by activation-induced cytidine deaminase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2246-2251.	3.3	54
42	AID-deficient Bcl-xL transgenic mice develop delayed atypical plasma cell tumors with unusual Ig/Myc chromosomal rearrangements. <i>Journal of Experimental Medicine</i> , 2007, 204, 2989-3001.	4.2	45
43	IgG and IgE Collaboratively Accelerate Expulsion of <i>Strongyloides venezuelensis</i> in a Primary Infection. <i>Infection and Immunity</i> , 2013, 81, 2518-2527.	1.0	45
44	TGF- β 2 Suppression of HBV RNA through AID-Dependent Recruitment of an RNA Exosome Complex. <i>PLoS Pathogens</i> , 2015, 11, e1004780.	2.1	45
45	High-throughput neutralization assay for multiple flaviviruses based on single-round infectious particles using dengue virus type 1 reporter replicon. <i>Scientific Reports</i> , 2018, 8, 16624.	1.6	43
46	APOBEC3A and 3C decrease human papillomavirus 16 pseudovirion infectivity. <i>Biochemical and Biophysical Research Communications</i> , 2015, 457, 295-299.	1.0	42
47	The aryl hydrocarbon receptor cytochrome P450 1A1 pathway controls lipid accumulation and enhances the permissiveness for hepatitis C virus assembly. <i>Journal of Biological Chemistry</i> , 2018, 293, 19559-19571.	1.6	42
48	Type two hyper-IgM syndrome caused by mutation in activation-induced cytidine deaminase. <i>Journal of Medical and Dental Sciences</i> , 2003, 50, 41-6.	0.4	42
49	Activation-Induced Cytidine Deaminase Links Class Switch Recombination and Somatic Hypermutation. <i>Annals of the New York Academy of Sciences</i> , 2003, 987, 1-8.	1.8	40
50	De novo protein synthesis is required for activation-induced cytidine deaminase-dependent DNA cleavage in immunoglobulin class switch recombination. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 13003-13007.	3.3	39
51	Troglitazone Impedes the Oligomerization of Sodium Taurocholate Cotransporting Polypeptide and Entry of Hepatitis B Virus Into Hepatocytes. <i>Frontiers in Microbiology</i> , 2018, 9, 3257.	1.5	38
52	The machinery for endocytosis of epidermal growth factor receptor coordinates the transport of incoming hepatitis B virus to the endosomal network. <i>Journal of Biological Chemistry</i> , 2020, 295, 800-807.	1.6	37
53	DNA cleavage in immunoglobulin somatic hypermutation depends on de novo protein synthesis but not on uracil DNA glycosylase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2022-2027.	3.3	34
54	RNA-editing cytidine deaminase Apobec-1 is unable to induce somatic hypermutation in mammalian cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 12895-12898.	3.3	30

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55	The machinery for endocytosis of epidermal growth factor receptor coordinates the transport of incoming hepatitis B virus to the endosomal network. <i>Journal of Biological Chemistry</i> , 2020, 295, 800-807.	1.6	30
56	Hypermethylation in the <i>E2</i> gene of human papillomavirus type 16 in cervical intraepithelial neoplasia. <i>Journal of Medical Virology</i> , 2015, 87, 1754-1760.	2.5	29
57	A new strategy to identify hepatitis B virus entry inhibitors by AlphaScreen technology targeting the envelope-receptor interaction. <i>Biochemical and Biophysical Research Communications</i> , 2018, 501, 374-379.	1.0	28
58	A Single Adaptive Mutation in Sodium Taurocholate Cotransporting Polypeptide Induced by Hepadnaviruses Determines Virus Species Specificity. <i>Journal of Virology</i> , 2019, 93, .	1.5	26
59	Expression of estrogen receptor alpha is associated with pathogenesis and prognosis of human papillomavirus-positive oropharyngeal cancer. <i>International Journal of Cancer</i> , 2019, 145, 1547-1557.	2.3	25
60	Identification of a Specific Domain Required for Dimerization of Activation-induced Cytidine Deaminase. <i>Journal of Biological Chemistry</i> , 2006, 281, 19115-19123.	1.6	23
61	Carboxy-terminal domain of AID required for its mRNA complex formation in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 2747-2751.	3.3	21
62	Detection of hypermutated human papillomavirus type 16 genome by Next-Generation Sequencing. <i>Virology</i> , 2015, 485, 460-466.	1.1	21
63	Role of Activation-Induced Cytidine Deaminase in the Development of Oral Squamous Cell Carcinoma. <i>PLoS ONE</i> , 2013, 8, e62066.	1.1	20
64	Expression of activation-induced cytidine deaminase enhances the clearance of pneumococcal pneumonia: evidence of a subpopulation of protective anti-pneumococcal B1a cells. <i>Immunology</i> , 2016, 147, 97-113.	2.0	19
65	Dasabuvir Inhibits Human Norovirus Infection in Human Intestinal Enteroids. <i>MSphere</i> , 2021, 6, e0062321.	1.3	19
66	Genetic Variations of Human Papillomavirus Type 16: Implications for Cervical Carcinogenesis. <i>Japanese Journal of Infectious Diseases</i> , 2015, 68, 169-175.	0.5	18
67	Adenosine deaminase acting on RNA-1 (ADAR1) inhibits hepatitis B virus (HBV) replication by enhancing microRNA-122 processing. <i>Journal of Biological Chemistry</i> , 2019, 294, 14043-14054.	1.6	18
68	<i>APOBEC3G</i> is increasingly expressed on the human uterine cervical intraepithelial neoplasia along with disease progression. <i>American Journal of Reproductive Immunology</i> , 2017, 78, e12703.	1.2	17
69	Experimental Cross-Species Transmission of Rat Hepatitis E Virus to Rhesus and Cynomolgus Monkeys. <i>Viruses</i> , 2022, 14, 293.	1.5	16
70	Concerted action of activation-induced cytidine deaminase and uracil-DNA glycosylase reduces covalently closed circular DNA of duck hepatitis B virus. <i>FEBS Letters</i> , 2013, 587, 3148-3152.	1.3	14
71	Immunoglobulin class switching to IgG4 in Warthin tumor and analysis of serum IgG4 levels and IgG4-positive plasma cells in the tumor. <i>Human Pathology</i> , 2014, 45, 793-801.	1.1	14
72	Current status of hepatitis E virus infection at a rhesus monkey farm in China. <i>Veterinary Microbiology</i> , 2019, 230, 244-248.	0.8	14

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73	Keratinocyte differentiation induces APOBEC3A, 3B, and mitochondrial DNA hypermutation. <i>Scientific Reports</i> , 2018, 8, 9745.	1.6	13
74	Activation of protein kinase R by hepatitis C virus RNA-dependent RNA polymerase. <i>Virology</i> , 2019, 529, 226-233.	1.1	12
75	EBV LMP1 induces APOBEC3s and mitochondrial DNA hypermutation in nasopharyngeal cancer. <i>Cancer Medicine</i> , 2020, 9, 7663-7671.	1.3	12
76	MafF Is an Antiviral Host Factor That Suppresses Transcription from Hepatitis B Virus Core Promoter. <i>Journal of Virology</i> , 2021, 95, e0076721.	1.5	11
77	NTCP Oligomerization Occurs Downstream of the NTCP-EGFR Interaction during Hepatitis B Virus Internalization. <i>Journal of Virology</i> , 2021, 95, e0093821.	1.5	11
78	Different antiviral activities of natural APOBEC3C, APOBEC3G, and APOBEC3H variants against hepatitis B virus. <i>Biochemical and Biophysical Research Communications</i> , 2019, 518, 26-31.	1.0	10
79	MCPIP1 reduces HBV-RNA by targeting its epsilon structure. <i>Scientific Reports</i> , 2020, 10, 20763.	1.6	10
80	Persistent infection with a rabbit hepatitis E virus created by a reverse genetics system. <i>Transboundary and Emerging Diseases</i> , 2021, 68, 615-625.	1.3	10
81	Expression and subcellular localisation of AID and APOBEC3 in adenoid and palatine tonsils. <i>Scientific Reports</i> , 2018, 8, 918.	1.6	9
82	Hepatitis C Virus-Induced ROS/JNK Signaling Pathway Activates the E3 Ubiquitin Ligase Itch to Promote the Release of HCV Particles via Polyubiquitylation of VPS4A. <i>Journal of Virology</i> , 2022, 96, JVI0181121.	1.5	9
83	Fungal Secondary Metabolite Exophillic Acid Selectively Inhibits the Entry of Hepatitis B and D Viruses. <i>Viruses</i> , 2022, 14, 764.	1.5	9
84	Estrogen induces the expression of EBV lytic protein ZEBRA, a marker of poor prognosis in nasopharyngeal carcinoma. <i>Cancer Science</i> , 2022, 113, 2862-2877.	1.7	9
85	Complex layers of genetic alteration in the generation of antibody diversity. <i>Trends in Immunology</i> , 2001, 22, 66-68.	2.9	8
86	Antibodies to myelin oligodendrocyte glycoprotein are not involved in the severity of chronic non-relapsing experimental autoimmune encephalomyelitis. <i>Immunology Letters</i> , 2009, 122, 145-149.	1.1	8
87	High Prevalence of Hepatitis E Virus Infection in Imported Cynomolgus Monkeys in Japan. <i>Japanese Journal of Infectious Diseases</i> , 2019, 72, 429-431.	0.5	8
88	A Cross-Species Transmission of a Camel-Derived Genotype 8 Hepatitis E Virus to Rabbits. <i>Pathogens</i> , 2021, 10, 1374.	1.2	8
89	Prolonged Gut Dysbiosis and Fecal Excretion of Hepatitis A Virus in Patients Infected with Human Immunodeficiency Virus. <i>Viruses</i> , 2021, 13, 2101.	1.5	8
90	Mongolia Gerbils Are Broadly Susceptible to Hepatitis E Virus. <i>Viruses</i> , 2022, 14, 1125.	1.5	8

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91	Low-affinity IgM antibodies lacking somatic hypermutations are produced in the secondary response of C57BL/6 mice to (4-hydroxy-3-nitrophenyl)acetyl hapten. <i>International Immunology</i> , 2014, 26, 195-208.	1.8	7
92	Molecular characterization of AID-mediated reduction of hepatitis B virus transcripts. <i>Virology</i> , 2017, 510, 281-288.	1.1	7
93	Comparison of the Clinical Features of Hepatitis A in People Living with HIV between Pandemics in 1999-2000 and 2017-2018 in the Metropolitan Area of Japan. <i>Japanese Journal of Infectious Diseases</i> , 2020, 73, 89-95.	0.5	7
94	Characterization of a Novel Rat Hepatitis E Virus Isolated from an Asian Musk Shrew (<i>Suncus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	1.5	7
95	Generation of a Bactrian camel hepatitis E virus by a reverse genetics system. <i>Journal of General Virology</i> , 2021, 102, .	1.3	7
96	Molecular Mechanism of Class Switch Recombination. , 2004, , 307-326.		7
97	Evaluation of Heat Inactivation of Human Norovirus in Freshwater Clams Using Human Intestinal Enteroids. <i>Viruses</i> , 2022, 14, 1014.	1.5	7
98	Seroprevalence of Flavivirus Neutralizing Antibodies in Thailand by High-Throughput Neutralization Assay: Endemic Circulation of Zika Virus before 2012. <i>MSphere</i> , 2021, 6, e0033921.	1.3	6
99	IFN- γ -Induced APOBEC3B Contributes to Merkel Cell Polyomavirus Genome Mutagenesis in Merkel Cell Carcinoma. <i>Journal of Investigative Dermatology</i> , 2022, 142, 1793-1803.e11.	0.3	6
100	APOBEC 3 regulates keratinocyte differentiation and expression of Notch3. <i>Experimental Dermatology</i> , 2019, 28, 1341-1347.	1.4	5
101	Identification of natural compounds extracted from crude drugs as novel inhibitors of hepatitis C virus. <i>Biochemical and Biophysical Research Communications</i> , 2021, 567, 1-8.	1.0	5
102	Induction of neutralizing antibodies against hepatitis C virus by a subviral particle-based DNA vaccine. <i>Antiviral Research</i> , 2022, 199, 105266.	1.9	5
103	The kinesin KIF4 mediates HBV/HDV entry through the regulation of surface NTCP localization and can be targeted by RXR agonists in vitro. <i>PLoS Pathogens</i> , 2022, 18, e1009983.	2.1	5
104	Activation-induced cytidine deaminase is a possible regulator of cross-talk between oocytes and granulosa cells through GDF-9 and SCF feedback system. <i>Scientific Reports</i> , 2021, 11, 3833.	1.6	4
105	HPV Status Determines the Efficacy of Adjuvant Chemotherapy With S-1, an Oral Fluorouracil Prodrug, in Oropharyngeal Cancer. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2015, 124, 400-406.	0.6	3
106	Immunization of human hepatitis E viruses conferred protection against challenge by a camel hepatitis E virus. <i>Vaccine</i> , 2020, 38, 7316-7322.	1.7	3
107	Immunogenicity and Antigenicity of Rabbit Hepatitis E Virus-Like Particles Produced by Recombinant Baculoviruses. <i>Viruses</i> , 2021, 13, 1573.	1.5	3
108	Activities of endogenous APOBEC3s and uracil-DNA-glycosylase affect the hypermutation frequency of hepatitis B virus cccDNA. <i>Journal of General Virology</i> , 2022, 103, .	1.3	3

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109	Novel flavonoid hybrids as potent antiviral agents against hepatitis A: Design, synthesis and biological evaluation. <i>European Journal of Medicinal Chemistry</i> , 2022, 238, 114452.	2.6	3
110	Isolation and Characterization of a Subtype 4b of Hepatitis E Virus Using a PLC/PRF/5 cell-derived Cell Line Resistant to Porcine Sapelovirus Infection. <i>Japanese Journal of Infectious Diseases</i> , 2021, 74, 573-575.	0.5	2
111	Development of an intervention system for linkage-to-care and follow-up for hepatitis B and C virus carriers. <i>Hepatology International</i> , 2021, , 1.	1.9	2
112	Novel Neplanocin A Derivatives as Selective Inhibitors of Hepatitis B Virus with a Unique Mechanism of Action. <i>Antimicrobial Agents and Chemotherapy</i> , 2022, 66, .	1.4	2
113	Unmutated immunoglobulin M can protect mice from death by influenza virus infection. <i>International Congress Series</i> , 2004, 1263, 135-140.	0.2	0
114	AID to overcome the limitations of genomic information by introducing somatic DNA alterations. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2006, 82, 104-120.	1.6	0