Masamichi Muramatsu

List of Publications by Year
in descending order

114 papers	14,791 citations	61984 43 h-index	22832 112 g-index
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. Cell, 2000, 102, 553-563.	28.9	3,089
2	Activation-Induced Cytidine Deaminase (AID) Deficiency Causes the Autosomal Recessive Form of the Hyper-IgM Syndrome (HIGM2). Cell, 2000, 102, 565-575.	28.9	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. Journal of Biological Chemistry, 1999, 274, 18470-18476.	3.4	1,014
4	Aberrant expansion of segmented filamentous bacteria in IgA-deficient gut. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1981-1986.	7.1	642
5	MOLECULARMECHANISM OFCLASSSWITCHRECOMBINATION: Linkage with Somatic Hypermutation. Annual Review of Immunology, 2002, 20, 165-196.	21.8	549
6	Critical Roles of Activation-Induced Cytidine Deaminase in the Homeostasis of Gut Flora. Science, 2002, 298, 1424-1427.	12.6	546
7	AID is required to initiate Nbs1/Î³-H2AX focus formation and mutations at sites of class switching. Nature, 2001, 414, 660-665.	27.8	459
8	AID Is Required for c-myc/IgH Chromosome Translocations In Vivo. Cell, 2004, 118, 431-438.	28.9	417
9	Constitutive Expression of AID Leads to Tumorigenesis. Journal of Experimental Medicine, 2003, 197, 1173-1181.	8.5	405
10	In situ class switching and differentiation to IgA-producing cells in the gut lamina propria. Nature, 2001, 413, 639-643.	27.8	381
11	B1b Lymphocytes Confer T Cell-Independent Long-Lasting Immunity. Immunity, 2004, 21, 379-390.	14.3	368
12	AID Enzyme-Induced Hypermutation in an Actively Transcribed Gene in Fibroblasts. Science, 2002, 296, 2033-2036.	12.6	345
13	AID is required for germinal centerâ€“derived lymphomagenesis. Nature Genetics, 2008, 40, 108-112.	21.4	340
14	AID mutant analyses indicate requirement for class-switch-specific cofactors. Nature Immunology, 2003, 4, 843-848.	14.5	301
15	Activation-induced cytidine deaminase shuttles between nucleus and cytoplasm like apolipoprotein B mRNA editing catalytic polypeptide 1. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1975-1980.	7.1	271
16	PD-1 and LAG-3 inhibitory co-receptors act synergistically to prevent autoimmunity in mice. Journal of Experimental Medicine, 2011, 208, 395-407.	8.5	256
17	The AID enzyme induces class switch recombination in fibroblasts. Nature, 2002, 416, 340-345.	27.8	240
18	Separate domains of AID are required for somatic hypermutation and class-switch recombination. Nature Immunology, 2004, 5, 707-712.	14.5	199

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19	Activation-induced Deaminase (AID)-directed Hypermutation in the Immunoglobulin SÎ¼ Region. Journal of Experimental Medicine, 2002, 195, 529-534.	8.5	182
20	Aid. Immunity, 2004, 20, 659-668.	14.3	181
21	Epidermal growth factor receptor is a host-entry cofactor triggering hepatitis B virus internalization. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 8487-8492.	7.1	170
22	Interleukin-1 and Tumor Necrosis Factor-Î± Trigger Restriction of Hepatitis B Virus Infection via a Cytidine Deaminase Activation-induced Cytidine Deaminase (AID). Journal of Biological Chemistry, 2013, 288, 31715-31727.	3.4	140
23	Isolation, Tissue Distribution, and Chromosomal Localization of the Human Activation-Induced Cytidine Deaminase (AID) Gene. Genomics, 2000, 68, 85-88.	2.9	129
24	Uracil DNA Glycosylase Activity Is Dispensable for Immunoglobulin Class Switch. Science, 2004, 305, 1160-1163.	12.6	112
25	Discovery of Activationâ€Induced Cytidine Deaminase, the Engraver of Antibody Memory. Advances in Immunology, 2007, 94, 1-36.	2.2	105
26	De novo protein synthesis is required for the activation-induced cytidine deaminase function in class-switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2634-2638.	7.1	104
27	Fractalkine and macrophage-derived chemokine: T cell-attracting chemokines expressed in T cell area dendritic cells. European Journal of Immunology, 1999, 29, 1925-1932.	2.9	101
28	Histone3 lysine4 trimethylation regulated by the facilitates chromatin transcription complex is critical for DNA cleavage in class switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22190-22195.	7.1	100
29	Negative regulation of activation-induced cytidine deaminase in B cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2752-2757.	7.1	93
30	AID to overcome the limitations of genomic information. Nature Immunology, 2005, 6, 655-661.	14.5	91
31	Evolution of class switch recombination function in fish activation-induced cytidine deaminase, AID. International Immunology, 2006, 18, 41-47.	4.0	84
32	APOBEC3 Deaminases Induce Hypermutation in Human Papillomavirus 16 DNA upon Beta Interferon Stimulation. Journal of Virology, 2014, 88, 1308-1317.	3.4	84
33	DNA Double-Strand Breaks. Journal of Experimental Medicine, 2002, 195, 1187-1192.	8.5	83
34	Flap endonuclease 1 is involved in cccDNA formation in the hepatitis B virus. PLoS Pathogens, 2018, 14, e1007124.	4.7	78
35	Unmutated Immunoglobulin M Can Protect Mice from Death by Influenza Virus Infection. Journal of Experimental Medicine, 2003, 197, 1779-1785.	8.5	72
36	Activation-induced cytidine deaminase (AID) promotes B cell lymphomagenesis in Emu-cmyc transgenic mice. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 1616-1620.	7.1	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. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 4506-4511.	7.1	70
38	CXCR5-Dependent Seeding of Follicular Niches by B and Th Cells Augments Antiviral B Cell Responses. Journal of Immunology, 2005, 175, 7109-7116.	0.8	68
39	AID-induced decrease in topoisomerase 1 induces DNA structural alteration and DNA cleavage for class switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22375-22380.	7.1	66
40	Uracil DNA Glycosylase Counteracts APOBEC3G-Induced Hypermutation of Hepatitis B Viral Genomes: Excision Repair of Covalently Closed Circular DNA. PLoS Pathogens, 2013, 9, e1003361.	4.7	61
41	RNA editing of hepatitis B virus transcripts by activation-induced cytidine deaminase. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2246-2251.	7.1	54
42	AID-deficient Bcl-xL transgenic mice develop delayed atypical plasma cell tumors with unusual Ig/Myc chromosomal rearrangements. Journal of Experimental Medicine, 2007, 204, 2989-3001.	8.5	45
43	IgG and IgE Collaboratively Accelerate Expulsion of Strongyloides venezuelensis in a Primary Infection. Infection and Immunity, 2013, 81, 2518-2527.	2.2	45
44	TGF-Î² Suppression of HBV RNA through AID-Dependent Recruitment of an RNA Exosome Complex. PLoS Pathogens, 2015, 11, e1004780.	4.7	45
45	High-throughput neutralization assay for multiple flaviviruses based on single-round infectious particles using dengue virus type 1 reporter replicon. Scientific Reports, 2018, 8, 16624.	3.3	43
46	APOBEC3A and 3C decrease human papillomavirus 16 pseudovirion infectivity. Biochemical and Biophysical Research Communications, 2015, 457, 295-299.	2.1	42
47	The aryl hydrocarbon receptorâ€“cytochrome P450 1A1 pathway controls lipid accumulation and enhances the permissiveness for hepatitis C virus assembly. Journal of Biological Chemistry, 2018, 293, 19559-19571.	3.4	42
48	Type two hyper-IgM syndrome caused by mutation in activation-induced cytidine deaminase. Journal of Medical and Dental Sciences, 2003, 50, 41-6.	0.4	42
49	Activationâ€Induced Cytidine Deaminase Links Class Switch Recombination and Somatic Hypermutation. Annals of the New York Academy of Sciences, 2003, 987, 1-8.	3.8	40
50	De novo protein synthesis is required for activation-induced cytidine deaminase-dependent DNA cleavage in immunoglobulin class switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13003-13007.	7.1	39
51	Troglitazone Impedes the Oligomerization of Sodium Taurocholate Cotransporting Polypeptide and Entry of Hepatitis B Virus Into Hepatocytes. Frontiers in Microbiology, 2018, 9, 3257.	3.5	38
52	The machinery for endocytosis of epidermal growth factor receptor coordinates the transport of incoming hepatitis B virus to the endosomal network. Journal of Biological Chemistry, 2020, 295, 800-807.	3.4	37
53	DNA cleavage in immunoglobulin somatic hypermutation depends on de novo protein synthesis but not on uracil DNA glycosylase. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2022-2027.	7.1	34
54	RNA-editing cytidine deaminase Apobec-1 is unable to induce somatic hypermutation in mammalian cells. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 12895-12898.	7.1	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. Journal of Biological Chemistry, 2020, 295, 800-807.	3.4	30
56	Hypermutation in theE2gene of human papillomavirus type 16 in cervical intraepithelial neoplasia. Journal of Medical Virology, 2015, 87, 1754-1760.	5.0	29
57	A new strategy to identify hepatitis B virus entry inhibitors by AlphaScreen technology targeting the envelope-receptor interaction. Biochemical and Biophysical Research Communications, 2018, 501, 374-379.	2.1	28
58	A Single Adaptive Mutation in Sodium Taurocholate Cotransporting Polypeptide Induced by Hepadnaviruses Determines Virus Species Specificity. Journal of Virology, 2019, 93, .	3.4	26
59	Expression of estrogen receptor alpha is associated with pathogenesis and prognosis of human papillomavirusâ€positive oropharyngeal cancer. International Journal of Cancer, 2019, 145, 1547-1557.	5.1	25
60	Identification of a Specific Domain Required for Dimerization of Activation-induced Cytidine Deaminase. Journal of Biological Chemistry, 2006, 281, 19115-19123.	3.4	23
61	Carboxy-terminal domain of AID required for its mRNA complex formation in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2747-2751.	7.1	21
62	Detection of hypermutated human papillomavirus type 16 genome by Next-Generation Sequencing. Virology, 2015, 485, 460-466.	2.4	21
63	Role of Activation-Induced Cytidine Deaminase in the Development of Oral Squamous Cell Carcinoma. PLoS ONE, 2013, 8, e62066.	2.5	20
64	Expression of activationâ€induced cytidine deaminase enhances the clearance of pneumococcal pneumonia: evidence of a subpopulation of protective antiâ€pneumococcal B1a cells. Immunology, 2016, 147, 97-113.	4.4	19
65	Dasabuvir Inhibits Human Norovirus Infection in Human Intestinal Enteroids. MSphere, 2021, 6, e0062321.	2.9	19
66	Genetic Variations of Human Papillomavirus Type 16: Implications for Cervical Carcinogenesis. Japanese Journal of Infectious Diseases, 2015, 68, 169-175.	1.2	18
67	Adenosine deaminase acting on RNA-1 (ADAR1) inhibits hepatitis B virus (HBV) replication by enhancing microRNA-122 processing. Journal of Biological Chemistry, 2019, 294, 14043-14054.	3.4	18
68	<scp>APOBEC</scp>3G is increasingly expressed on the human uterine cervical intraepithelial neoplasia along with disease progression. American Journal of Reproductive Immunology, 2017, 78, e12703.	1.2	17
69	Experimental Cross-Species Transmission of Rat Hepatitis E Virus to Rhesus and Cynomolgus Monkeys. Viruses, 2022, 14, 293.	3.3	16
70	Concerted action of activationâ€induced cytidine deaminase and uracilâ€DNA glycosylase reduces covalently closed circular DNA of duck hepatitis B virus. FEBS Letters, 2013, 587, 3148-3152.	2.8	14
71	Immunoglobulin class switching to IgG4 in Warthin tumor and analysis of serum IgG4 levels and IgG4-positive plasma cells in the tumor. Human Pathology, 2014, 45, 793-801.	2.0	14
72	Current status of hepatitis E virus infection at a rhesus monkey farm in China. Veterinary Microbiology, 2019, 230, 244-248.	1.9	14

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73	Keratinocyte differentiation induces APOBEC3A, 3B, and mitochondrial DNA hypermutation. Scientific Reports, 2018, 8, 9745.	3.3	13
74	Activation of protein kinase R by hepatitis C virus RNA-dependent RNA polymerase. Virology, 2019, 529, 226-233.	2.4	12
75	EBVâ€LMP1 induces APOBEC3s and mitochondrial DNA hypermutation in nasopharyngeal cancer. Cancer Medicine, 2020, 9, 7663-7671.	2.8	12
76	MafF Is an Antiviral Host Factor That Suppresses Transcription from Hepatitis B Virus Core Promoter. Journal of Virology, 2021, 95, e0076721.	3.4	11
77	NTCP Oligomerization Occurs Downstream of the NTCP-EGFR Interaction during Hepatitis B Virus Internalization. Journal of Virology, 2021, 95, e0093821.	3.4	11
78	Different antiviral activities of natural APOBEC3C, APOBEC3G, and APOBEC3H variants against hepatitis B virus. Biochemical and Biophysical Research Communications, 2019, 518, 26-31.	2.1	10
79	MCPIP1 reduces HBV-RNA by targeting its epsilon structure. Scientific Reports, 2020, 10, 20763.	3.3	10
80	Persistent infection with a rabbit hepatitis E virus created by a reverse genetics system. Transboundary and Emerging Diseases, 2021, 68, 615-625.	3.0	10
81	Expression and subcellular localisation of AID and APOBEC3 in adenoid and palatine tonsils. Scientific Reports, 2018, 8, 918.	3.3	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. Journal of Virology, 2022, 96, JVI0181121.	3.4	9
83	Fungal Secondary Metabolite Exophillic Acid Selectively Inhibits the Entry of Hepatitis B and D Viruses. Viruses, 2022, 14, 764.	3.3	9
84	Estrogen induces the expression of <scp>EBV</scp> lytic protein <scp>ZEBRA</scp>, aÂmarker of poor prognosis in nasopharyngeal carcinoma. Cancer Science, 2022, 113, 2862-2877.	3.9	9
85	Complex layers of genetic alteration in the generation of antibody diversity. Trends in Immunology, 2001, 22, 66-68.	6.8	8
86	Antibodies to myelin oligodendrocyte glycoprotein are not involved in the severity of chronic non-remitting experimental autoimmune encephalomyelitis. Immunology Letters, 2009, 122, 145-149.	2.5	8
87	High Prevalence of Hepatitis E Virus Infection in Imported Cynomolgus Monkeys in Japan. Japanese Journal of Infectious Diseases, 2019, 72, 429-431.	1.2	8
88	A Cross-Species Transmission of a Camel-Derived Genotype 8 Hepatitis E Virus to Rabbits. Pathogens, 2021, 10, 1374.	2.8	8
89	Prolonged Gut Dysbiosis and Fecal Excretion of Hepatitis A Virus in Patients Infected with Human Immunodeficiency Virus. Viruses, 2021, 13, 2101.	3.3	8
90	Mongolia Gerbils Are Broadly Susceptible to Hepatitis E Virus. Viruses, 2022, 14, 1125.	3.3	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. International Immunology, 2014, 26, 195-208.	4.0	7
92	Molecular characterization of AID-mediated reduction of hepatitis B virus transcripts. Virology, 2017, 510, 281-288.	2.4	7
93	Comparison of the Clinical Features of Hepatitis A in People Living with HIV between Pandemics in 1999â€“2000 and 2017â€“2018 in the Metropolitan Area of Japan. Japanese Journal of Infectious Diseases, 2020, 73, 89-95.	1.2	7
94	Characterization of a Novel Rat Hepatitis E Virus Isolated from an Asian Musk Shrew (Suncus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622	3.3	7
95	Generation of a Bactrian camel hepatitis E virus by a reverse genetics system. Journal of General Virology, 2021, 102, .	2.9	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. Viruses, 2022, 14, 1014.	3.3	7
98	Seroprevalence of Flavivirus Neutralizing Antibodies in Thailand by High-Throughput Neutralization Assay: Endemic Circulation of Zika Virus before 2012. MSphere, 2021, 6, e0033921.	2.9	6
99	IFN-Î³â€'Induced APOBEC3B Contributes to Merkel Cell Polyomavirus Genome Mutagenesis in Merkel Cell Carcinoma. Journal of Investigative Dermatology, 2022, 142, 1793-1803.e11.	0.7	6
100	APOBEC 3 regulates keratinocyte differentiation and expression of Notch3. Experimental Dermatology, 2019, 28, 1341-1347.	2.9	5
101	Identification of natural compounds extracted from crude drugs as novel inhibitors of hepatitis C virus. Biochemical and Biophysical Research Communications, 2021, 567, 1-8.	2.1	5
102	Induction of neutralizing antibodies against hepatitis C virus by a subviral particle-based DNA vaccine. Antiviral Research, 2022, 199, 105266.	4.1	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. PLoS Pathogens, 2022, 18, e1009983.	4.7	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. Scientific Reports, 2021, 11, 3833.	3.3	4
105	HPV Status Determines the Efficacy of Adjuvant Chemotherapy With S-1, an Oral Fluorouracil Prodrug, in Oropharyngeal Cancer. Annals of Otology, Rhinology and Laryngology, 2015, 124, 400-406.	1.1	3
106	Immunization of human hepatitis E viruses conferred protection against challenge by a camel hepatitis E virus. Vaccine, 2020, 38, 7316-7322.	3.8	3
107	Immunogenicity and Antigenicity of Rabbit Hepatitis E Virus-Like Particles Produced by Recombinant Baculoviruses. Viruses, 2021, 13, 1573.	3.3	3
108	Activities of endogenous APOBEC3s and uracil-DNA-glycosylase affect the hypermutation frequency of hepatitis B virus cccDNA. Journal of General Virology, 2022, 103, .	2.9	3

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109	Novel flavonoid hybrids as potent antiviral agents against hepatitis A: Design, synthesis and biological evaluation. European Journal of Medicinal Chemistry, 2022, 238, 114452.	5.5	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. Japanese Journal of Infectious Diseases, 2021, 74, 573-575.	1.2	2
111	Development of an intervention system for linkage-to-care and follow-up for hepatitis B and C virus carriers. Hepatology International, 2021, , 1.	4.2	2
112	Novel Neplanocin A Derivatives as Selective Inhibitors of Hepatitis B Virus with a Unique Mechanism of Action. Antimicrobial Agents and Chemotherapy, 2022, 66, .	3.2	2
113	Unmutated immunoglobulin M can protect mice from death by influenza virus infection. International Congress Series, 2004, 1263, 135-140.	0.2	0
114	AID to overcome the limitations of genomic information by introducing somatic DNA alterations. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 2006, 82, 104-120.	3.8	0