

Rune Hartmann

List of Publications by Year in descending order

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98
papers

9,112
citations

44069

48
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43889

91
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110
all docs

110
docs citations

110
times ranked

13054
citing authors

#	ARTICLE	IF	CITATIONS
1	Double-Stranded RNA Is Produced by Positive-Strand RNA Viruses and DNA Viruses but Not in Detectable Amounts by Negative-Strand RNA Viruses. <i>Journal of Virology</i> , 2006, 80, 5059-5064.	3.4	828
2	Type III Interferon (IFN) Induces a Type I IFN-Like Response in a Restricted Subset of Cells through Signaling Pathways Involving both the Jak-STAT Pathway and the Mitogen-Activated Protein Kinases. <i>Journal of Virology</i> , 2007, 81, 7749-7758.	3.4	404
3	An Important Role for Type III Interferon (IFN- λ /IL-28) in TLR-Induced Antiviral Activity. <i>Journal of Immunology</i> , 2008, 180, 2474-2485.	0.8	387
4	A structural basis for discriminating between self and nonself double-stranded RNAs in mammalian cells. <i>Nature Biotechnology</i> , 2006, 24, 559-565.	17.5	343
5	Type I and III interferons disrupt lung epithelial repair during recovery from viral infection. <i>Science</i> , 2020, 369, 712-717.	12.6	333
6	Guarding the frontiers: the biology of type III interferons. <i>Nature Immunology</i> , 2015, 16, 802-809.	14.5	279
7	OAS proteins and cGAS: unifying concepts in sensing and responding to cytosolic nucleic acids. <i>Nature Reviews Immunology</i> , 2014, 14, 521-528.	22.7	246
8	The Oligoadenylate Synthetase Family: An Ancient Protein Family with Multiple Antiviral Activities. <i>Journal of Interferon and Cytokine Research</i> , 2011, 31, 41-47.	1.2	243
9	cGAS is a potent anti-influenza therapeutic without the inflammatory side effects of IFN- λ treatment. <i>EMBO Molecular Medicine</i> , 2016, 8, 1099-1112.	6.9	228
10	The Two Groups of Zebrafish Virus-Induced Interferons Signal via Distinct Receptors with Specific and Shared Chains. <i>Journal of Immunology</i> , 2009, 183, 3924-3931.	0.8	220
11	Inhibition of SARS-CoV-2 by type I and type III interferons. <i>Journal of Biological Chemistry</i> , 2020, 295, 13958-13964.	3.4	220
12	Antiviral Activity of Human OASL Protein Is Mediated by Enhancing Signaling of the RIG-I RNA Sensor. <i>Immunity</i> , 2014, 40, 936-948.	14.3	201
13	cGAS is activated by DNA in a length-dependent manner. <i>EMBO Reports</i> , 2017, 18, 1707-1715.	4.5	201
14	IFN- λ prevents influenza virus spread from the upper airways to the lungs and limits virus transmission. <i>ELife</i> , 2018, 7, .	6.0	198
15	Efficient Replication of the Novel Human Betacoronavirus EMC on Primary Human Epithelium Highlights Its Zoonotic Potential. <i>MBio</i> , 2013, 4, e00611-12.	4.1	183
16	Gene structure and function of the 2-5-oligoadenylate synthetase family. <i>Cellular and Molecular Life Sciences</i> , 2000, 57, 1593-1612.	5.4	177
17	Interferon lambda 4 signals via the IFN- λ receptor to regulate antiviral activity against HCV and coronaviruses. <i>EMBO Journal</i> , 2013, 32, 3055-3065.	7.8	177
18	COVID-19 and emerging viral infections: The case for interferon lambda. <i>Journal of Experimental Medicine</i> , 2020, 217, .	8.5	177

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19	Interferon- β Is Functionally an Interferon but Structurally Related to the Interleukin-10 Family. <i>Journal of Biological Chemistry</i> , 2009, 284, 20869-20875.	3.4	176
20	<sc>HSV</sc> α 1 <sc>ICP</sc> 27 targets the <sc>TBK</sc> 1-activated STING signalsome to inhibit virus-induced type I <sc>IFN</sc> expression. <i>EMBO Journal</i> , 2016, 35, 1385-1399.	7.8	173
21	Functional IRF3 deficiency in a patient with herpes simplex encephalitis. <i>Journal of Experimental Medicine</i> , 2015, 212, 1371-1379.	8.5	171
22	Influenza A virus targets a cGAS-independent STING pathway that controls enveloped RNA viruses. <i>Nature Communications</i> , 2016, 7, 10680.	12.8	169
23	Crystal Structure of the 2'-5'-Specific and Double-Stranded RNA-Activated Interferon-Induced Antiviral Protein 2'-5'-Oligoadenylate Synthetase. <i>Molecular Cell</i> , 2003, 12, 1173-1185.	9.7	153
24	Human interferon- β 3 is a potent member of the type III interferon family. <i>Genes and Immunity</i> , 2009, 10, 125-131.	4.1	150
25	Modular Structure of PACT: Distinct Domains for Binding and Activating PKR. <i>Molecular and Cellular Biology</i> , 2001, 21, 1908-1920.	2.3	145
26	Pandemic H1N1 2009 Influenza A Virus Induces Weak Cytokine Responses in Human Macrophages and Dendritic Cells and Is Highly Sensitive to the Antiviral Actions of Interferons. <i>Journal of Virology</i> , 2010, 84, 1414-1422.	3.4	143
27	Reduced IFN- γ 4 activity is associated with improved HCV clearance and reduced expression of interferon-stimulated genes. <i>Nature Communications</i> , 2014, 5, 5699.	12.8	117
28	The Kinase IKK β 2 Regulates a STING- and NF- κ B-Dependent Antiviral Response Pathway in <i>Drosophila</i> . <i>Immunity</i> , 2018, 49, 225-234.e4.	14.3	114
29	HSV Infection Induces Production of ROS, which Potentiate Signaling from Pattern Recognition Receptors: Role for S-glutathionylation of TRAF3 and 6. <i>PLoS Pathogens</i> , 2011, 7, e1002250.	4.7	107
30	Conformational diversity in prion protein variants influences intermolecular β -sheet formation. <i>EMBO Journal</i> , 2010, 29, 251-262.	7.8	105
31	p59OASL, a 2'-5' oligoadenylate synthetase like protein: a novel human gene related to the 2'-5' oligoadenylate synthetase family. <i>Nucleic Acids Research</i> , 1998, 26, 4121-4128.	14.5	100
32	Differential Regulation of the <i>OASL</i> and <i>OAS1</i> Genes in Response to Viral Infections. <i>Journal of Interferon and Cytokine Research</i> , 2009, 29, 199-208.	1.2	100
33	Extracellular 2'-5'-Oligoadenylate Synthetase Stimulates RNase L-Independent Antiviral Activity: a Novel Mechanism of Virus-Induced Innate Immunity. <i>Journal of Virology</i> , 2010, 84, 11898-11904.	3.4	93
34	Characterization of the 2'-5'-oligoadenylate synthetase ubiquitin-like family. <i>Nucleic Acids Research</i> , 2003, 31, 3166-3173.	14.5	91
35	Weak Induction of Interferon Expression by Severe Acute Respiratory Syndrome Coronavirus 2 Supports Clinical Trials of Interferon- β to Treat Early Coronavirus Disease 2019. <i>Clinical Infectious Diseases</i> , 2020, 71, 1410-1412.	5.8	88
36	IFN- β 3, not IFN- β 4, likely mediates IFNL3-IFNL4 haplotype-dependent hepatic inflammation and fibrosis. <i>Nature Genetics</i> , 2017, 49, 795-800.	21.4	86

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37	Crystal Structure of Zebrafish Interferons I and II Reveals Conservation of Type I Interferon Structure in Vertebrates. <i>Journal of Virology</i> , 2011, 85, 8181-8187.	3.4	85
38	Two cGAS-like receptors induce antiviral immunity in <i>Drosophila</i> . <i>Nature</i> , 2021, 597, 114-118.	27.8	84
39	Activation of 2'5'-Oligoadenylate Synthetase by Single-stranded and Double-stranded RNA Aptamers. <i>Journal of Biological Chemistry</i> , 1998, 273, 3236-3246.	3.4	82
40	STEEP mediates STING ER exit and activation of signaling. <i>Nature Immunology</i> , 2020, 21, 868-879.	14.5	82
41	Disparate temperature-dependent virus-host dynamics for SARS-CoV-2 and SARS-CoV in the human respiratory epithelium. <i>PLoS Biology</i> , 2021, 19, e3001158.	5.6	79
42	Crystal Structure of Interleukin-21 Receptor (IL-21R) Bound to IL-21 Reveals That Sugar Chain Interacting with WSXWS Motif Is Integral Part of IL-21R. <i>Journal of Biological Chemistry</i> , 2012, 287, 9454-9460.	3.4	76
43	Antiviral Activities of Different Interferon Types and Subtypes against Hepatitis E Virus Replication. <i>Antimicrobial Agents and Chemotherapy</i> , 2016, 60, 2132-2139.	3.2	75
44	SARS-CoV-2 suppresses IFN β production mediated by NSP1, 5, 6, 15, ORF6 and ORF7b but does not suppress the effects of added interferon. <i>PLoS Pathogens</i> , 2021, 17, e1009800.	4.7	74
45	SARS-CoV-2 evades immune detection in alveolar macrophages. <i>EMBO Reports</i> , 2020, 21, e51252.	4.5	70
46	Interferon- γ enhances adaptive mucosal immunity by boosting release of thymic stromal lymphopoietin. <i>Nature Immunology</i> , 2019, 20, 593-601.	14.5	68
47	The 2'5'-Oligoadenylate Synthetase 3 Enzyme Potently Synthesizes the 2'5'-Oligoadenylates Required for RNase L Activation. <i>Journal of Virology</i> , 2014, 88, 14222-14231.	3.4	59
48	Structural and functional analysis reveals that human OASL binds dsRNA to enhance RIG-I signaling. <i>Nucleic Acids Research</i> , 2015, 43, 5236-5248.	14.5	57
49	The p59 oligoadenylate synthetase-like protein possesses antiviral activity that requires the C-terminal ubiquitin-like domain. <i>Journal of General Virology</i> , 2008, 89, 2767-2772.	2.9	56
50	SARS-CoV-2 elicits robust adaptive immune responses regardless of disease severity. <i>EBioMedicine</i> , 2021, 68, 103410.	6.1	56
51	Gene structure of the murine 2'5'-oligoadenylate synthetase family. <i>Cellular and Molecular Life Sciences</i> , 2002, 59, 1212-1222.	5.4	47
52	2'3'-cGAMP triggers a STING- and NF- κ B-dependent broad antiviral response in <i>Drosophila</i> . <i>Science Signaling</i> , 2020, 13, .	3.6	46
53	Transcriptome analysis reveals a classical interferon signature induced by IFN γ in human primary cells. <i>Genes and Immunity</i> , 2015, 16, 414-421.	4.1	44
54	Defective RNA sensing by RIG-I in severe influenza virus infection. <i>Clinical and Experimental Immunology</i> , 2018, 192, 366-376.	2.6	39

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55	The role of IFN in the development of NAFLD and NASH. <i>Cytokine</i> , 2019, 124, 154519.	3.2	31
56	The interferon-stimulated gene product oligoadenylate synthetase-like protein enhances replication of Kaposi's sarcoma-associated herpesvirus (KSHV) and interacts with the KSHV ORF20 protein. <i>PLoS Pathogens</i> , 2018, 14, e1006937.	4.7	28
57	Characterization of distinct molecular interactions responsible for IRF3 and IRF7 phosphorylation and subsequent dimerization. <i>Nucleic Acids Research</i> , 2020, 48, 11421-11433.	14.5	28
58	2'-5' Oligoadenylate synthetase shares active site architecture with the archaeal CCA-adding enzyme. <i>Cellular and Molecular Life Sciences</i> , 2008, 65, 2613-2620.	5.4	26
59	Ap3A and Ap4A are primers for oligoadenylate synthesis catalyzed by interferon-inducible 2-5A synthetase1. <i>FEBS Letters</i> , 1997, 408, 177-181.	2.8	25
60	Interaction between the 2'-5' oligoadenylate synthetase-like protein p59 OASL and the transcriptional repressor methyl CpG-binding protein 1. <i>FEBS Journal</i> , 2004, 271, 628-636.	0.2	25
61	The Structure of Human Interferon Lambda and What It Has Taught Us. <i>Journal of Interferon and Cytokine Research</i> , 2010, 30, 565-571.	1.2	25
62	Type I and Type III Interferons Differ in Their Adjuvant Activities for Influenza Vaccines. <i>Journal of Virology</i> , 2019, 93, .	3.4	25
63	The crystal structure of zebrafish IL-22 reveals an evolutionary, conserved structure highly similar to that of human IL-22. <i>Genes and Immunity</i> , 2014, 15, 293-302.	4.1	24
64	Cross-species analysis of viral nucleic acid interacting proteins identifies TAOs as innate immune regulators. <i>Nature Communications</i> , 2021, 12, 7009.	12.8	22
65	Lambda Interferons: New Cytokines with Old Functions. <i>Pharmaceuticals</i> , 2010, 3, 795-809.	3.8	21
66	A conserved sugar bridge connected to the WSXWS motif has an important role for transport of IL-21R to the plasma membrane. <i>Genes and Immunity</i> , 2015, 16, 405-413.	4.1	19
67	Defective interferon priming and impaired antiviral responses in a patient with an IRF7 variant and severe influenza. <i>Medical Microbiology and Immunology</i> , 2019, 208, 869-876.	4.8	19
68	Length dependent activation of OAS proteins by dsRNA. <i>Cytokine</i> , 2020, 126, 154867.	3.2	18
69	Selective Janus kinase inhibition preserves interferon- λ -mediated antiviral responses. <i>Science Immunology</i> , 2021, 6, .	11.9	16
70	Selection of a Novel and Highly Specific Tumor Necrosis Factor β (TNF β) Antagonist. <i>Journal of Biological Chemistry</i> , 2010, 285, 12096-12100.	3.4	15
71	The <i>IFNL4</i> Gene Is a Noncanonical Interferon Gene with a Unique but Evolutionarily Conserved Regulation. <i>Journal of Virology</i> , 2020, 94, .	3.4	14
72	Rational Design of Interleukin-21 Antagonist through Selective Elimination of the β C Binding Epitope. <i>Journal of Biological Chemistry</i> , 2010, 285, 12223-12231.	3.4	13

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73	Cellular Mechanism for Impaired Hepatitis C Virus Clearance by Interferon Associated with IFNL3 Gene Polymorphisms Relates to Intrahepatic Interferon- λ Expression. <i>American Journal of Pathology</i> , 2016, 186, 938-951.	3.8	13
74	Identification of an <i>IRF3</i> variant and defective antiviral interferon responses in a patient with severe influenza. <i>European Journal of Immunology</i> , 2019, 49, 2111-2114.	2.9	13
75	Selective Degradation of 2'-Adenylated Diadenosine Tri- and Tetraphosphates, Ap3A and Ap4A, by Two Specific Human Dinucleoside Polyphosphate Hydrolases. <i>Archives of Biochemistry and Biophysics</i> , 2000, 373, 218-224.	3.0	12
76	Frequently used bioinformatics tools overestimate the damaging effect of allelic variants. <i>Genes and Immunity</i> , 2019, 20, 10-22.	4.1	12
77	Systemic juvenile idiopathic arthritis and recurrent macrophage activation syndrome due to a <i>CASP1</i> variant causing inflammasome hyperactivation. <i>Rheumatology</i> , 2020, 59, 3099-3105.	1.9	12
78	Ectodermal dysplasia with immunodeficiency caused by a branch-point mutation in <i>IKBK</i> / <i>NEMO</i> . <i>Journal of Allergy and Clinical Immunology</i> , 2016, 138, 1706-1709.e4.	2.9	11
79	Species Specificity of Type III Interferon Activity and Development of a Sensitive Luciferase-Based Bioassay for Quantitation of Mouse Interferon- λ . <i>Journal of Interferon and Cytokine Research</i> , 2018, 38, 469-479.	1.2	11
80	Inhibition of 2'-5' oligoadenylate synthetase by divalent metal ions. <i>FEBS Letters</i> , 2001, 507, 54-58.	2.8	10
81	Effective Interferon Lambda Treatment Regimen To Control Lethal MERS-CoV Infection in Mice. <i>Journal of Virology</i> , 2022, 96, e0036422.	3.4	8
82	Rapid Uptake and Inhibition of Viral Propagation by Extracellular OAS1. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 359-366.	1.2	7
83	2'-Adenylated derivatives of Ap3A activate RNase L. <i>FEBS Letters</i> , 1999, 457, 9-12.	2.8	5
84	Interferon- λ Improves the Efficacy of Intranasally or Rectally Administered Influenza Subunit Vaccines by a Thymic Stromal Lymphopoietin-Dependent Mechanism. <i>Frontiers in Immunology</i> , 2021, 12, 749325.	4.8	5
85	Natural Mutations in a 2'-5' Oligoadenylate Synthetase Transgene Revealed Residues Essential for Enzyme Activity. <i>Biochemistry</i> , 2005, 44, 6837-6843.	2.5	4
86	The Influence of the rs30461 Single Nucleotide Polymorphism on IFN- λ 1 Activity and Secretion. <i>Journal of Interferon and Cytokine Research</i> , 2019, 39, 661-667.	1.2	4
87	A Highly Sensitive Anion Exchange Chromatography Method for Measuring cGAS Activity in vitro. <i>Bio-protocol</i> , 2018, 8, e3055.	0.4	3
88	The Impact of IFN- λ 4 on the Adaptive Immune Response to SARS-CoV-2 Infection. <i>Journal of Interferon and Cytokine Research</i> , 2021, 41, 407-414.	1.2	3
89	B Cell Intrinsic STING Signaling Is Not Required for Autoreactive Germinal Center Participation. <i>Frontiers in Immunology</i> , 2021, 12, 782558.	4.8	3
90	The role of <i>IFNL4</i> in liver inflammation and progression of fibrosis. <i>Genes and Immunity</i> , 2022, 23, 111-117.	4.1	2

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91	The presence of interferon affects the progression of non-alcoholic fatty liver disease. <i>Genes and Immunity</i> , 2022, 23, 157-165.	4.1	2
92	Establishment of well-differentiated camelid airway cultures to study Middle East respiratory syndrome coronavirus. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
93	What makes the hepatitis C virus evolve?. <i>ELife</i> , 2019, 8, .	6.0	1
94	Crystal Structure of the 2â€™5â€™-specific and Doubleâ€™Stranded RNAâ€™Activated Interferonâ€™Induced Antiviral Protein 2â€™5â€™â€™Oligoadenylate Synthetase. <i>Scandinavian Journal of Immunology</i> , 2004, 59, 617-617.	2.7	0
95	THU-281-Single nucleotide polymorphisms associated with no interferon lambda 4 production are associated with reduced mortality in alcoholic hepatitis. <i>Journal of Hepatology</i> , 2019, 70, e286.	3.7	0
96	Interferon lambda 4 genotype and pathway in alcoholic hepatitis. <i>Scandinavian Journal of Gastroenterology</i> , 2021, 56, 304-311.	1.5	0
97	Identification of essential regulatory elements responsible for the explicit expression of IL-28RÎ± and their effect on critical SNPs using in-Silico methods. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2015, 28, 1523-32.	0.2	0
98	Unraveling the molecular mechanism governing the tissue specific expression of IFNÎ±R1. <i>Pakistan Journal of Pharmaceutical Sciences</i> , 2016, 29, 795-9.	0.2	0