Gunther Hartmann

List of Publications by Year
in descending order

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200	30,597	9254 74	4641 170
papers	citations	h-index	g-index

215	215	215	34821
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Mammalian microRNA Expression Atlas Based on Small RNA Library Sequencing. Cell, 2007, 129, 1401-1414.	13.5	3,390
2	5'-Triphosphate RNA Is the Ligand for RIG-I. Science, 2006, 314, 994-997.	6.0	2,094
3	Quantitative Expression of Toll-Like Receptor 1â€“10 mRNA in Cellular Subsets of Human Peripheral Blood Mononuclear Cells and Sensitivity to CpG Oligodeoxynucleotides. Journal of Immunology, 2002, 168, 4531-4537.	0.4	1,780
4	Sequence-specific potent induction of IFN-Î± by short interfering RNA in plasmacytoid dendritic cells through TLR7. Nature Medicine, 2005, 11, 263-270.	15.2	1,153
5	Syk kinase signalling couples to the Nlrp3 inflammasome for anti-fungal host defence. Nature, 2009, 459, 433-436.	13.7	799
6	Cyclic [G(2â€²,5â€²)pA(3â€²,5â€²)p] Is the Metazoan Second Messenger Produced by DNA-Activated Cyclic GMP-AMP Synthase. Cell, 2013, 153, 1094-1107.	13.5	795
7	Identification of CpG oligonucleotide sequences with high induction of IFN-Î±/Î² in plasmacytoid dendritic cells. European Journal of Immunology, 2001, 31, 2154-2163.	1.6	790
8	RIG-I-dependent sensing of poly(dA:dT) through the induction of an RNA polymerase IIIâ€“transcribed RNA intermediate. Nature Immunology, 2009, 10, 1065-1072.	7.0	762
9	Toll-like receptor expression reveals CpG DNA as a unique microbial stimulus for plasmacytoid dendritic cells which synergizes with CD40 ligand to induce high amounts of IL-12. European Journal of Immunology, 2001, 31, 3026-3037.	1.6	704
10	Recognition of 5â€² Triphosphate by RIG-I Helicase Requires Short Blunt Double-Stranded RNA as Contained in Panhandle of Negative-Strand Virus. Immunity, 2009, 31, 25-34.	6.6	660
11	CpG DNA: A potent signal for growth, activation, and maturation of human dendritic cells. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9305-9310.	3.3	569
12	Mechanism and Function of a Newly Identified CpG DNA Motif in Human Primary B Cells. Journal of Immunology, 2000, 164, 944-953.	0.4	567
13	Delineation of a CpG Phosphorothioate Oligodeoxynucleotide for Activating Primate Immune Responses In Vitro and In Vivo. Journal of Immunology, 2000, 164, 1617-1624.	0.4	550
14	Recognition of RNA virus by RIG-I results in activation of CARD9 and inflammasome signaling for interleukin 1Î² production. Nature Immunology, 2010, 11, 63-69.	7.0	477
15	Structure-Function Analysis of STING Activation by c[G(2â€²,5â€²)pA(3â€²,5â€²)p] and Targeting by Antiviral DMXAA. Cell, 2013, 154, 748-762.	13.5	472
16	Antiviral immunity via RIG-I-mediated recognition of RNA bearing 5â€²-diphosphates. Nature, 2014, 514, 372-375.	13.7	459
17	Discriminating self from non-self in nucleic acid sensing. Nature Reviews Immunology, 2016, 16, 566-580.	10.6	438
18	Plasmacytoid Dendritic Cells: A New Cutaneous Dendritic Cell Subset with Distinct Role in Inflammatory Skin Diseases. Journal of Investigative Dermatology, 2002, 119, 1096-1102.	0.3	384

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19	HIGH ALTITUDE INCREASES CIRCULATING INTERLEUKIN-6, INTERLEUKIN-1 RECEPTOR ANTAGONIST AND C-REACTIVE PROTEIN. Cytokine, 2000, 12, 246-252.	1.4	376
20	5â€²-triphosphate-siRNA: turning gene silencing and Rig-I activation against melanoma. Nature Medicine, 2008, 14, 1256-1263.	15.2	353
21	Oxidative Damage of DNA Confers Resistance to Cytosolic Nuclease TREX1 Degradation and Potentiates STING-Dependent Immune Sensing. Immunity, 2013, 39, 482-495.	6.6	338
22	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferonâ€“independent apoptosis in human melanoma cells. Journal of Clinical Investigation, 2009, 119, 2399-411.	3.9	322
23	Plasmacytoid Dendritic Cells Control TLR7 Sensitivity of Naive B Cells via Type I IFN. Journal of Immunology, 2005, 174, 4043-4050.	0.4	319
24	Activation with CpG-A and CpG-B Oligonucleotides Reveals Two Distinct Regulatory Pathways of Type I IFN Synthesis in Human Plasmacytoid Dendritic Cells. Journal of Immunology, 2003, 170, 4465-4474.	0.4	305
25	SiRNA delivery with exosome nanoparticles. Nature Biotechnology, 2011, 29, 325-326.	9.4	299
26	TRADD Protein Is an Essential Component of the RIG-like Helicase Antiviral Pathway. Immunity, 2008, 28, 651-661.	6.6	280
27	Rational design of new CpG oligonucleotides that combine B cell activation with high IFN-Î± induction in plasmacytoid dendritic cells. European Journal of Immunology, 2003, 33, 1633-1641.	1.6	276
28	Plasmacytoid dendritic cells, antigen, and CpG-C license human B cells for plasma cell differentiation and immunoglobulin production in the absence of T-cell help. Blood, 2004, 103, 3058-3064.	0.6	264
29	Neutralization of interleukin-18 reduces severity in murine colitis and intestinal IFN-Î³ and TNF-Î± production. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2001, 281, R1264-R1273.	0.9	263
30	Taming TNF: strategies to restrain this proinflammatory cytokine. Trends in Immunology, 1997, 18, 487-492.	7.5	255
31	Identification and functional analysis of tumor-infiltrating plasmacytoid dendritic cells in head and neck cancer. Cancer Research, 2003, 63, 6478-87.	0.4	249
32	Preferential expression and function of Toll-like receptor 3 in human astrocytes. Journal of Neuroimmunology, 2005, 159, 12-19.	1.1	234
33	Structural and functional insights into 5â€²-ppp RNA pattern recognition by the innate immune receptor RIG-I. Nature Structural and Molecular Biology, 2010, 17, 781-787.	3.6	229
34	Antisense therapy in oncology: new hope for an old idea?. Lancet, The, 2001, 358, 489-497.	6.3	223
35	Listeria monocytogenes is sensed by the NLRP3 and AIM2 inflammasome. European Journal of Immunology, 2010, 40, 1545-1551.	1.6	221
36	A Conserved Histidine in the RNA Sensor RIG-I Controls Immune Tolerance to N1-2â€²O-Methylated Self RNA. Immunity, 2015, 43, 41-51.	6.6	221

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37	siRNA and isRNA: two edges of one sword. Molecular Therapy, 2006, 14, 463-470.	3.7	214
38	Inhibition of Toll-Like Receptor 7- and 9-Mediated Alpha/Beta Interferon Production in Human Plasmacytoid Dendritic Cells by Respiratory Syncytial Virus and Measles Virus. Journal of Virology, 2005, 79, 5507-5515.	1.5	208
39	Infection fatality rate of SARS-CoV2 in a super-spreading event in Germany. Nature Communications, 2020, 11, 5829.	5.8	207
40	Exosomes as nucleic acid nanocarriers. Advanced Drug Delivery Reviews, 2013, 65, 331-335.	6.6	206
41	Nucleic Acid Immunity. Advances in Immunology, 2017, 133, 121-169.	1.1	205
42	Sequence-specific activation of the DNA sensor cGAS by Y-form DNA structures as found in primary HIV-1 cDNA. Nature Immunology, 2015, 16, 1025-1033.	7.0	202
43	CpG DNA and LPS induce distinct patterns of activation in human monocytes. Gene Therapy, 1999, 6, 893-903.	2.3	191
44	Replication-Dependent Potent IFN-Î± Induction in Human Plasmacytoid Dendritic Cells by a Single-Stranded RNA Virus. Journal of Immunology, 2004, 173, 5935-5943.	0.4	191
45	Peritumoral CpG DNA Elicits a Coordinated Response of CD8 T Cells and Innate Effectors to Cure Established Tumors in a Murine Colon Carcinoma Model. Journal of Immunology, 2002, 169, 3892-3899.	0.4	178
46	Anti-inflammatory activities of cAMP-elevating agents: enhancement of IL-10 synthesis and concurrent suppression of TNF production. Journal of Leukocyte Biology, 1998, 63, 101-107.	1.5	167
47	Enhanced Dendritic Cell Maturation by TNF-Î± or Cytidine-Phosphate-Guanosine DNA Drives T Cell Activation In Vitro and Therapeutic Anti-Tumor Immune Responses In Vivo. Journal of Immunology, 2000, 165, 6278-6286.	0.4	167
48	Role of adenosine receptors in regulating chemotaxis and cytokine production of plasmacytoid dendritic cells. Blood, 2004, 103, 1391-1397.	0.6	164
49	Type I interferon-mediated autoinflammation due to DNase II deficiency. Nature Communications, 2017, 8, 2176.	5.8	164
50	Spontaneous Formation of Nucleic Acid-based Nanoparticles Is Responsible for High Interferon-Î± Induction by CpG-A in Plasmacytoid Dendritic Cells. Journal of Biological Chemistry, 2005, 280, 8086-8093.	1.6	160
51	RIG-I detects infection with liveListeriaby sensing secreted bacterial nucleic acids. EMBO Journal, 2012, 31, 4153-4164.	3.5	153
52	IL-12p70-Dependent Th1 Induction by Human B Cells Requires Combined Activation with CD40 Ligand and CpG DNA. Journal of Immunology, 2004, 172, 954-963.	0.4	147
53	Plasmacytoid dendritic cells: the key to CpG. Human Immunology, 2002, 63, 1111-1119.	1.2	135
54	Raised leptin concentrations at high altitude associated with loss of appetite. Lancet, The, 1998, 352, 1119-1120.	6.3	131

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55	Therapeutic Efficacy of Bifunctional siRNA Combining TGF-Î²1 Silencing with RIG-I Activation in Pancreatic Cancer. Cancer Research, 2013, 73, 1709-1720.	0.4	130
56	ATG16L1 orchestrates interleukin-22 signaling in the intestinal epithelium via cGASâ€“STING. Journal of Experimental Medicine, 2018, 215, 2868-2886.	4.2	122
57	B-Cell Lymphomas Differ in their Responsiveness to CpG Oligodeoxynucleotides. Clinical Cancer Research, 2005, 11, 1490-1499.	3.2	118
58	Delivery by Cationic Gelatin Nanoparticles Strongly Increases the Immunostimulatory Effects of CpG Oligonucleotides. Pharmaceutical Research, 2008, 25, 551-562.	1.7	117
59	Immune Sensing Mechanisms that Discriminate Self from Altered Self and Foreign Nucleic Acids. Immunity, 2020, 53, 54-77.	6.6	115
60	Combined dendritic cell- and CpG oligonucleotide-based immune therapy cures large murine tumors that resist chemotherapy. European Journal of Immunology, 2002, 32, 3235-3245.	1.6	107
61	Activation of Endothelial Toll-Like Receptor 3 Impairs Endothelial Function. Circulation Research, 2011, 108, 1358-1366.	2.0	107
62	Accessing the therapeutic potential of immunostimulatory nucleic acids. Current Opinion in Immunology, 2008, 20, 389-395.	2.4	104
63	T Cell-Independent, TLR-Induced IL-12p70 Production in Primary Human Monocytes. Journal of Immunology, 2006, 176, 7438-7446.	0.4	102
64	Staphylococcus aureus Protein A Triggers T Cell-Independent B Cell Proliferation by Sensitizing B Cells for TLR2 Ligands. Journal of Immunology, 2007, 178, 2803-2812.	0.4	97
65	Free-Circulating Methylated DNA in Blood for Diagnosis, Staging, Prognosis, and Monitoring of Head and Neck Squamous Cell Carcinoma Patients: An Observational Prospective Cohort Study. Clinical Chemistry, 2017, 63, 1288-1296.	1.5	97
66	Human Plasmacytoid Dendritic Cells Support Th17 Cell Effector Function in Response to TLR7 Ligation. Journal of Immunology, 2010, 184, 1159-1167.	0.4	96
67	CpG-A and CpG-B oligonucleotides differentially enhance human peptideâ€“specific primary and memory CD8+ T-cell responses in vitro. Blood, 2004, 103, 2162-2169.	0.6	94
68	Tumourâ€derived prostaglandin E₂ and transforming growth factorâ€Î² synergize to inhibit plasmacytoid dendritic cellâ€derived interferonâ€Î±. Immunology, 2009, 128, 439-450.	2.0	93
69	Turning Tumors into Vaccines: Co-opting the Innate Immune System. Immunity, 2013, 39, 27-37.	6.6	93
70	Selection of Molecular Structure and Delivery of RNA Oligonucleotides to Activate TLR7 versus TLR8 and to Induce High Amounts of IL-12p70 in Primary Human Monocytes. Journal of Immunology, 2009, 182, 6824-6833.	0.4	90
71	Amplification of N-Myc is associated with a T-cell-poor microenvironment in metastatic neuroblastoma restraining interferon pathway activity and chemokine expression. OncoImmunology, 2017, 6, e1320626.	2.1	89
72	Correlation between a quantitative antiâ€SARSâ€CoVâ€2 IgG ELISA and neutralization activity. Journal of Medical Virology, 2022, 94, 388-392.	2.5	89

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73	Binding-Pocket and Lid-Region Substitutions Render Human STING Sensitive to the Species-Specific Drug DMXAA. Cell Reports, 2014, 8, 1668-1676.	2.9	87
74	The Chase for the RIG-I Ligandâ€"Recent Advances. Molecular Therapy, 2010, 18, 1254-1262.	3.7	84
75	Immune Sensing of Synthetic, Bacterial, and Protozoan RNA by Toll-like Receptor 8 Requires Coordinated Processing by RNase T2 and RNase 2. Immunity, 2020, 52, 591-605.e6.	6.6	83
76	Oligodeoxynucleotides Enhance Lipopolysaccharide-Stimulated Synthesis of Tumor Necrosis Factor: Dependence on Phosphorothioate Modification and Reversal by Heparin. Molecular Medicine, 1996, 2, 429-438.	1.9	81
77	RNA Recognition via TLR7 and TLR8. Handbook of Experimental Pharmacology, 2008, , 71-86.	0.9	77
78	Targeted Activation of RNA Helicase Retinoic Acidâ€"Inducible Gene-I Induces Proimmunogenic Apoptosis of Human Ovarian Cancer Cells. Cancer Research, 2010, 70, 5293-5304.	0.4	77
79	Targeting the Cytosolic Innate Immune Receptors RIG-I and MDA5 Effectively Counteracts Cancer Cell Heterogeneity in Glioblastoma. Stem Cells, 2013, 31, 1064-1074.	1.4	76
80	ATP hydrolysis by the viral RNA sensor RIG-I prevents unintentional recognition of self-RNA. ELife, 2015, 4, .	2.8	75
81	Approaching the RNA ligand for RIGâ€I?. Immunological Reviews, 2009, 227, 66-74.	2.8	73
82	CpG ODN enhance antigen-specific NKT cell activation via plasmacytoid dendritic cells. European Journal of Immunology, 2005, 35, 2347-2357.	1.6	71
83	Structural Alterations of MET Trigger Response to MET Kinase Inhibition in Lung Adenocarcinoma Patients. Clinical Cancer Research, 2018, 24, 1337-1343.	3.2	71
84	Mechanisms and therapeutic applications of immune stimulatory CpG DNA. , 1999, 84, 113-120.		70
85	Distinct CpG oligonucleotide sequences activate human Î³ Î´ T cells via interferon-Î±/-Î². European Journal of Immunology, 2001, 31, 3525-3534.	1.6	68
86	RIG-I Detects Triphosphorylated RNA of Listeria monocytogenes during Infection in Non-Immune Cells. PLoS ONE, 2013, 8, e62872.	1.1	68
87	CpG-A Oligonucleotides Induce a Monocyte-Derived Dendritic Cell-Like Phenotype That Preferentially Activates CD8 T Cells. Journal of Immunology, 2003, 170, 3468-3477.	0.4	67
88	Inflammasome-Dependent Induction of Adaptive NK Cell Memory. Immunity, 2016, 44, 1406-1421.	6.6	67
89	Selective and direct activation of human neutrophils but not eosinophils by Toll-like receptor 8. Journal of Allergy and Clinical Immunology, 2009, 123, 1026-1033.	1.5	66
90	5â€² Triphosphorylated Small Interfering RNAs Control Replication of Hepatitis B Virus and Induce an Interferon Response in Human Liver Cells and Mice. Gastroenterology, 2011, 141, 696-706.e3.	0.6	66

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91	Virally Infected Mouse Liver Endothelial Cells Trigger CD8+ T-Cell Immunity. Gastroenterology, 2010, 138, 336-346.	0.6	65
92	Selfâ€priming determines high type I <scp>IFN</scp> production by plasmacytoid dendritic cells. European Journal of Immunology, 2014, 44, 807-818.	1.6	63
93	Characterizing the genetic basis of innate immune response in TLR4-activated human monocytes. Nature Communications, 2014, 5, 5236.	5.8	61
94	Cytosolic RIG-Iâ€“like helicases act as negative regulators of sterile inflammation in the CNS. Nature Neuroscience, 2012, 15, 98-106.	7.1	60
95	In Vivo Synthesis of Tumor Necrosis Factorâ€Î± in Healthy Humans after Live Yellow Fever Vaccination. Journal of Infectious Diseases, 1998, 177, 774-778.	1.9	58
96	CpG oligonucleotides: novel regulators of osteoclast differentiation. FASEB Journal, 2002, 16, 274-282.	0.2	56
97	Sorafenib in combination with carboplatin and paclitaxel as neoadjuvant chemotherapy in patients with advanced ovarian cancer. Cancer Chemotherapy and Pharmacology, 2010, 66, 203-207.	1.1	55
98	Immunostimulatory RNA Blocks Suppression by Regulatory T Cells. Journal of Immunology, 2010, 184, 939-946.	0.4	55
99	Analysis of Plasmacytoid and Myeloid Dendritic Cells in Nasal Epithelium. Vaccine Journal, 2006, 13, 1278-1286.	3.2	54
100	Immunostimulatory RNA oligonucleotides trigger an antigen-specific cytotoxic T-cell and IgG2a response. Blood, 2007, 109, 2953-2960.	0.6	54
101	A Human In Vitro Whole Blood Assay to Predict the Systemic Cytokine Response to Therapeutic Oligonucleotides Including siRNA. PLoS ONE, 2013, 8, e71057.	1.1	51
102	Memory B cells targeting SARS-CoV-2 spike protein and their dependence on CD4+ TÂcell help. Cell Reports, 2021, 35, 109320.	2.9	47
103	Complete Regression of Advanced Primary and Metastatic Mouse Melanomas following Combination Chemoimmunotherapy. Cancer Research, 2009, 69, 6265-6274.	0.4	46
104	Structural studies of oligonucleotides containing G-quadruplex motifs using AFM. Biochemical and Biophysical Research Communications, 2004, 313, 1065-1072.	1.0	44
105	RIG-I activation induces the release of extracellular vesicles with antitumor activity. OncoImmunology, 2016, 5, e1219827.	2.1	44
106	Deficiency in coatomer complex I causes aberrant activation of STING signalling. Nature Communications, 2022, 13, 2321.	5.8	43
107	Immunostimulatory RNA Oligonucleotides Induce an Effective Antitumoral NK Cell Response through the TLR7. Journal of Immunology, 2009, 183, 6078-6086.	0.4	42
108	Dendritic cell vaccination in human melanoma: relationships between clinical effects and vaccine parameters. Pigment Cell and Melanoma Research, 2010, 23, 607-619.	1.5	42

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109	Cutting Edge: The RIG-I Ligand 3pRNA Potently Improves CTL Cross-Priming and Facilitates Antiviral Vaccination. Journal of Immunology, 2016, 196, 2439-2443.	0.4	42
110	Adrenaline enhances LPS-induced IL-10 synthesis: evidence for protein kinase A-mediated pathway. International Journal of Immunopharmacology, 1998, 20, 57-69.	1.1	40
111	Immunogenic cell death of human ovarian cancer cells induced by cytosolic poly(I:C) leads to myeloid cell maturation and activates NK cells. European Journal of Immunology, 2011, 41, 3028-3039.	1.6	40
112	Improved sensitivity for detection of breast cancer by combination of miR-34a and tumor markers CA 15-3 or CEA. Oncotarget, 2018, 9, 22523-22536.	0.8	40
113	Immunotherapy with dendritic cells and CpG oligonucleotides can be combined with chemotherapy without loss of efficacy in a mouse model of colon cancer. International Journal of Cancer, 2006, 118, 2790-2795.	2.3	39
114	Immunostimulatory Properties of CpG-Oligonucleotides Are Enhanced by the Use of Protamine Nanoparticles. Oligonucleotides, 2006, 16, 313-322.	2.7	38
115	High RIGâ€I expression in ovarian cancer associates with an immuneâ€escape signature and poor clinical outcome. International Journal of Cancer, 2020, 146, 2007-2018.	2.3	38
116	Specific Suppression of Human Tumor Necrosis Factor-Î± Synthesis by Antisense Oligodeoxynucleotides. Oligonucleotides, 1996, 6, 291-299.	4.4	33
117	AChE and RACK1 Promote the Anti-Inflammatory Properties of Fluoxetine. Journal of Molecular Neuroscience, 2014, 53, 306-315.	1.1	33
118	Suppression of tumor necrosis factor-Î± production by interleukin-10 is enhanced by cAMP-elevating agents. European Journal of Pharmacology, 1997, 321, 231-239.	1.7	32
119	Stressing hematopoiesis and immunity: an acetylcholinesterase window into nervous and immune system interactions. Frontiers in Molecular Neuroscience, 2012, 5, 30.	1.4	32
120	Higher activation of TLR9 in plasmacytoid dendritic cells by microbial DNA compared with self-DNA based on CpG-specific recognition of phosphodiester DNA. Journal of Leukocyte Biology, 2009, 86, 663-670.	1.5	31
121	Clinical Performance of CEA, CA19-9, CA15-3, CA125 and AFP in Gastrointestinal Cancer Using LOCIâ„¢-based Assays. Anticancer Research, 2017, 37, 353-360.	0.5	31
122	Shock waves: a novel method for cytoplasmic delivery of antisense oligonucleotides. Journal of Molecular Medicine, 2001, 79, 306-313.	1.7	30
123	TLR8-driven IL-12â€“dependent Reciprocal and Synergistic Activation of NK Cells and Monocytes by Immunostimulatory RNA. Journal of Immunotherapy, 2009, 32, 262-271.	1.2	30
124	MAPK-pathway inhibition mediates inflammatory reprogramming and sensitizes tumors to targeted activation of innate immunity sensor RIG-I. Nature Communications, 2021, 12, 5505.	5.8	30
125	RIG-I Resists Hypoxia-Induced Immunosuppression and Dedifferentiation. Cancer Immunology Research, 2017, 5, 455-467.	1.6	29
126	Where Failure Is Not an Option â€“Personalized Medicine in Astronauts. PLoS ONE, 2015, 10, e0140764.	1.1	29

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127	Endothelial RIG-I activation impairs endothelial function. Biochemical and Biophysical Research Communications, 2012, 420, 66-71.	1.0	27
128	Specific expression of k63-linked ubiquitination of calmodulin-like protein 5 in breast cancer of premenopausal patients. Journal of Cancer Research and Clinical Oncology, 2013, 139, 2125-2132.	1.2	27
129	Targeting the innate immunoreceptor RIG-I overcomes melanoma-intrinsic resistance to T cell immunotherapy. Journal of Clinical Investigation, 2020, 130, 4266-4281.	3.9	27
130	Efficient Solidâ€Phase Synthesis of pppRNA by Using Productâ€Specific Labeling. Angewandte Chemie - International Edition, 2014, 53, 4694-4698.	7.2	26
131	RIG-I Activation Protects and Rescues from Lethal Influenza Virus Infection and Bacterial Superinfection. Molecular Therapy, 2017, 25, 2093-2103.	3.7	26
132	Human TLR8 Senses RNA From Plasmodium falciparum-Infected Red Blood Cells Which Is Uniquely Required for the IFN-Î³ Response in NK Cells. Frontiers in Immunology, 2019, 10, 371.	2.2	26
133	Clinical performance of LOCIâ„¢-based tumor marker assays for tumor markers CA 15-3, CA 125, CEA, CA 19-9 and AFP in gynecological cancers. Tumor Biology, 2017, 39, 101042831773024.	0.8	25
134	Influence of Acute Exposure to High Altitude on Basal and Postprandial Plasma Levels of Gastroenteropancreatic Peptides. PLoS ONE, 2012, 7, e44445.	1.1	25
135	Direct RIGâ€I activation in human NK cells induces TRAILâ€dependent cytotoxicity toward autologous melanoma cells. International Journal of Cancer, 2019, 144, 1645-1656.	2.3	23
136	Malaria parasites both repress host CXCL10 and use it as a cue for growth acceleration. Nature Communications, 2021, 12, 4851.	5.8	22
137	CpG oligonucleotides induce strong humoral but only weak CD4+ T cell responses to protein antigens in rhesus macaques in vivo. Vaccine, 2005, 23, 3310-3317.	1.7	20
138	Absence of cGAS-mediated type I IFN responses in HIV-1â€“infected T cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19475-19486.	3.3	20
139	Monocyte-Mediated Inhibition of TLR9-Dependent IFN-Î± Induction in Plasmacytoid Dendritic Cells Questions Bacterial DNA as the Active Ingredient of Bacterial Lysates. Journal of Immunology, 2010, 185, 7367-7373.	0.4	19
140	CpG Oligonucleotides Elicit Antitumor Responses in a Human Melanoma NOD/SCID Xenotransplantation Model. Journal of Investigative Dermatology, 2004, 122, 387-391.	0.3	18
141	Regulation and function of the cytosolic viral RNA sensor RIG-I in pancreatic beta cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1768-1775.	1.9	18
142	Animal models of SARS-CoV-2 and COVID-19 for the development of prophylactic and therapeutic interventions. , 2021, 228, 107931.		18
143	Activation of Dendritic Cells and Induction of T Cell Responses by Hpv 16 L1/E7 Chimeric Virus-Like Particles are Enhanced by Cpg ODN or Sorbitol. Antiviral Therapy, 2004, 9, 479-489.	0.6	18
144	Analysis of Serum miRNA in Glioblastoma Patients: CD44-Based Enrichment of Extracellular Vesicles Enhances Specificity for the Prognostic Signature. International Journal of Molecular Sciences, 2020, 21, 7211.	1.8	17

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145	Recessive NLRC4-Autoinflammatory Disease Reveals an Ulcerative Colitis Locus. Journal of Clinical Immunology, 2022, 42, 325-335.	2.0	17
146	No Indication for a Defect in Toll-Like Receptor Signaling in Patients with Hyper-IgE Syndrome. Journal of Clinical Immunology, 2005, 25, 321-328.	2.0	16
147	Enzymatic Synthesis and Purification of a Defined RIG-I Ligand. Methods in Molecular Biology, 2014, 1169, 15-25.	0.4	16
148	Diagnostic Performance of a Novel Multiplex Immunoassay in Colorectal Cancer. Anticancer Research, 2017, 37, 2477-2486.	0.5	16
149	Interferon-driven brain phenotype in a mouse model of RNaseT2 deficient leukoencephalopathy. Nature Communications, 2021, 12, 6530.	5.8	16
150	Adrenomedullin: A Player at High Altitude?. Chest, 1998, 113, 1428.	0.4	15
151	<scp>MDA</scp>â€5 activation by cytoplasmic doubleâ€stranded <scp>RNA</scp> impairs endothelial function and aggravates atherosclerosis. Journal of Cellular and Molecular Medicine, 2016, 20, 1696-1705.	1.6	15
152	Individualized versus standardized risk assessment in patients at high risk for adverse drug reactions (IDrug) â€“ study protocol for a pragmatic randomized controlled trial. BMC Family Practice, 2016, 17, 49.	2.9	14
153	Analysis of integrated clinical trial protocols in early phases of medicinal product development. European Journal of Clinical Pharmacology, 2017, 73, 1565-1577.	0.8	14
154	RIG-I-induced innate antiviral immunity protects mice from lethal SARS-CoV-2 infection. Molecular Therapy - Nucleic Acids, 2022, 27, 1225-1234.	2.3	14
155	Extracellular Vesicle Separation Techniques Impact Results from Human Blood Samples: Considerations for Diagnostic Applications. International Journal of Molecular Sciences, 2021, 22, 9211.	1.8	13
156	Effects of an active immunization on the immune response of laying Japanese quail (Coturnix coturnix) Tj ETQq0 0 0 rgBT /Overlock 10 T 89, 1122-1128.	1.5	12
157	Nucleic Acid Adjuvants. Advances in Immunology, 2012, 114, 1-32.	1.1	12
158	Yeast Virus-Derived Stimulator of the Innate Immune System Augments the Efficacy of Virus Vector-Based Immunotherapy. Journal of Virology, 2014, 88, 5242-5255.	1.5	12
159	Stimulation of TLR7 prior to polymicrobial sepsis improves the immune control of the inflammatory response in adult mice. Inflammation Research, 2011, 60, 271-279.	1.6	11
160	The coffee ingredients caffeic acid and caffeic acid phenylethyl ester protect against irinotecanâ€induced leukopenia and oxidative stress response. British Journal of Pharmacology, 2020, 177, 4193-4208.	2.7	11
161	Mitf silencing cooperates with IL-12 gene transfer to inhibit melanoma in mice. International Immunopharmacology, 2010, 10, 540-545.	1.7	10
162	VKORC1-dependent pharmacokinetics of intravenous and oral phylloquinone (vitamin K1) mixed micelles formulation. European Journal of Clinical Pharmacology, 2013, 69, 467-475.	0.8	10

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