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IPS-1, an adaptor triggering RIG-I- and Mda5-mediated type I interferon induction

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#	Paper	IF	Citations
2149	Hitching RIG to action. <i>Nature Immunology</i> , <b>2005</b> , 6, 1074-6	19.1	27
2148	Cardif is an adaptor protein in the RIG-I antiviral pathway and is targeted by hepatitis C virus. <b>2005</b> , 437, 1167-72		1909
2147	Interfering with interferons: Hepatitis C virus counters innate immunity. <b>2005</b> , 102, 17539-40		19
2146	Hepatitis C virus protease NS3/4A cleaves mitochondrial antiviral signaling protein off the mitochondria to evade innate immunity. <b>2005</b> , 102, 17717-22		649
2145	Hepatitis C virus NS2 and NS3/4A proteins are potent inhibitors of host cell cytokine/chemokine gene expression. <b>2006</b> , 3, 66		52
2144	Inhibition of the interferon antiviral response by hepatitis C virus. <b>2006</b> , 2, 49-58		2
2143	Radiation hybrid mapping and comparative sequence analysis of bovine RIG-I and MAVS genes. <b>2006</b> , 17, 314-8		2
2142	Cooperative molecular and cellular networks regulate Toll-like receptor-dependent inflammatory responses. <b>2006</b> , 20, 2153-5		74
2141	Antiviral signaling through pattern recognition receptors. <b>2007</b> , 141, 137-45		331
2140	HCV immunopathogenesis: virus-induced strategies against host immunity. 2006, 10, 753-71		12
2139	Lung epithelium as a sentinel and effector system in pneumoniamolecular mechanisms of pathogen recognition and signal transduction. <b>2006</b> , 7, 97		111
2138	The role of Toll-like receptors in immune disorders. <b>2006</b> , 6, 203-14		38
2137	Type 1 interferons and the virus-host relationship: a lesson in dEente. <b>2006</b> , 312, 879-82		695
2136	Pattern recognition receptors: an update. <b>2006</b> , 2, 569-83		6
2135	Activation of Interferon Gene Expression Through Toll-like Receptor-dependent and -independent Pathways. <b>2006</b> , 35-72		2
2134	Mitochondrial dysfunction in hepatitis C virus infection. <b>2006</b> , 1757, 1429-37		44
2133	The interferon response to bacterial and viral infections. <b>2006</b> , 12, 246-250		8

# (2006-2006)

2132	siRNA and isRNA: two edges of one sword. <b>2006</b> , 14, 463-70	181
2131	Cytoplasmic Listeria monocytogenes stimulates IFN-beta synthesis without requiring the adapter protein MAVS. <b>2006</b> , 580, 2341-2346	31
2130	Pathogen recognition and innate immunity. <b>2006</b> , 124, 783-801	8282
2129	RalB GTPase-mediated activation of the IkappaB family kinase TBK1 couples innate immune signaling to tumor cell survival. <b>2006</b> , 127, 157-70	296
2128	Recognition and signaling by toll-like receptors. <b>2006</b> , 22, 409-37	530
2127	Regulation and function of IKK and IKK-related kinases. <b>2006</b> , 2006, re13	882
2126	Toll-like receptors and RNA helicases: two parallel ways to trigger antiviral responses. <b>2006</b> , 22, 561-9	320
2125	MasterCARD: a priceless link to innate immunity. <b>2006</b> , 12, 53-6	160
2124	Recognition of cytosolic DNA activates an IRF3-dependent innate immune response. <b>2006</b> , 24, 93-103	777
2123	The specific and essential role of MAVS in antiviral innate immune responses. <b>2006</b> , 24, 633-42	489
2122	Parallel pathways of virus recognition. <b>2006</b> , 24, 510-2	11
2121	Type I interferons in host defense. <b>2006</b> , 25, 373-81	872
2120	Type I interferon [corrected] gene induction by the interferon regulatory factor family of transcription factors. <b>2006</b> , 25, 349-60	949
2119	CARD games between virus and host get a new player. <b>2006</b> , 27, 1-4	112
2118	[Toll-dependent and toll-independent innate antiviral immunity]. 2006, 22, 961-8	1
2117	[Innate immune recognition of viral infection]. <b>2006</b> , 56, 1-8	23
2116	Antiviral response in pandemic influenza viruses. <b>2006</b> , 12, 44-7	58
2115	. 2006,	13

2114 How to dismantle an immune response. 2006, 1, 9-11

2113	Viral targeting of interferon regulatory factor-3 and type I interferon gene transcription. <b>2006</b> , 1, 783-793	3	1
2112	Bibliography. Current world literature. Erythroid system and its diseases. <b>2006</b> , 13, 182-7		
2111	Causes and consequences of mitochondrial reactive oxygen species generation in hepatitis C. <b>2006</b> , 21 Suppl 3, S34-7		77
2110	Ringing the alarm bells: signalling and apoptosis in influenza virus infected cells. 2006, 8, 375-86		184
2109	Interferon signalling network in innate defence. <b>2006</b> , 8, 907-22		435
2108	Promoters of type I interferon genes from Atlantic salmon contain two main regulatory regions. <b>2006</b> , 273, 3893-906		65
2107	A Toll-like receptor-independent antiviral response induced by double-stranded B-form DNA.  Nature Immunology, <b>2006</b> , 7, 40-8	9.1	625
2106	Innate immune recognition of viral infection. <i>Nature Immunology</i> , <b>2006</b> , 7, 131-7	9.1	1390
2105	IRFs: master regulators of signalling by Toll-like receptors and cytosolic pattern-recognition receptors. <b>2006</b> , 6, 644-58		1209
2104	Hendra and Nipah viruses: different and dangerous. <b>2006</b> , 4, 23-35		270
2103	Differential roles of MDA5 and RIG-I helicases in the recognition of RNA viruses. <b>2006</b> , 441, 101-5		2807
2102	Intracellular pattern recognition receptors in the host response. <b>2006</b> , 442, 39-44		927
2101	TLR signaling. <b>2006</b> , 13, 816-25		1503
2100	TIR, CARD and PYRIN: three domains for an antimicrobial triad. <b>2006</b> , 13, 798-815		114
2099	IRF family proteins and type I interferon induction in dendritic cells. <b>2006</b> , 16, 134-40		127
2098	Antiviral innate immunity pathways. <b>2006</b> , 16, 141-7		340
2097	Regulation of antiviral responses by a direct and specific interaction between TRAF3 and Cardif. <b>2006</b> , 25, 3257-63		338

## (2006-2006)

2096	Manipulation of the nuclear factor-kappaB pathway and the innate immune response by viruses. <b>2006</b> , 25, 6844-67	208
2095	NF-kappaB and the immune response. <b>2006</b> , 25, 6758-80	901
2094	PRRs in pathogen recognition. <b>2006</b> , 1, 299-313	3
2093	Upregulation of mitochondrial gene expression in PBMC from convalescent SARS patients. <b>2006</b> , 26, 546-54	30
2092	Toll-like receptors and innate immunity. <b>2006</b> , 84, 712-25	314
2091	Retinoic acid inducible gene-I and mda-5 are involved in influenza A virus-induced expression of antiviral cytokines. <b>2006</b> , 8, 2013-20	73
2090	The interferon response circuit: induction and suppression by pathogenic viruses. <b>2006</b> , 344, 119-30	535
2089	Sendai virus defective-interfering genomes and the activation of interferon-beta. <b>2006</b> , 351, 101-11	156
2088	Innate immune responses: crosstalk of signaling and regulation of gene transcription. 2006, 352, 14-21	40
2087	Hepatitis C virus genotype 1b chimeric replicon containing genotype 3 NS5A domain. <b>2006</b> , 355, 192-202	14
2086	The N-terminus of PKR is responsible for the activation of the NF-kappaB signaling pathway by interacting with the IKK complex. <b>2006</b> , 18, 1865-75	51
2085	A target on the move: innate and adaptive immune escape strategies of hepatitis C virus. <b>2006</b> , 69, 129-41	102
2084	Mitochondria: more than just a powerhouse. <b>2006</b> , 16, R551-60	1308
2083	Recruitment of an interferon molecular signaling complex to the mitochondrial membrane: disruption by hepatitis C virus NS3-4A protease. <b>2006</b> , 72, 1477-84	25
2082	Intracellular mammalian DNA stimulates myeloid dendritic cells to produce type I interferons predominantly through a toll-like receptor 9-independent pathway. <b>2006</b> , 54, 951-62	38
2081	Cardif: a protein central to innate immunity is inactivated by the HCV NS3 serine protease. <b>2006</b> , 43, 615-7	9
2080	S-Adenosylmethionine and betaine correct hepatitis C virus induced inhibition of interferon signaling in vitro. <b>2006</b> , 43, 796-806	61
2079	Genomic response to interferon-alpha in chimpanzees: implications of rapid downregulation for hepatitis C kinetics. <b>2006</b> , 43, 961-72	96

2078	Pattern recognition receptors: a contemporary view on liver diseases. <b>2006</b> , 44, 287-98	140
2077	The protein kinase IKKepsilon can inhibit HCV expression independently of IFN and its own expression is downregulated in HCV-infected livers. <b>2006</b> , 44, 1635-47	18
2076	2005: signaling breakthroughs of the year. <b>2006</b> , 2006, eg1	
2075	Antiviral defense: interferons and beyond. <b>2006</b> , 203, 1837-41	74
2074	The innate antiviral response: new insights into a continuing story. <b>2007</b> , 69, 1-66	20
2073	The interferon response to bacterial and viral infections. <b>2006</b> , 12, 246-50	32
2072	Dissociation of a MAVS/IPS-1/VISA/Cardif-IKKepsilon molecular complex from the mitochondrial outer membrane by hepatitis C virus NS3-4A proteolytic cleavage. <b>2006</b> , 80, 6072-83	188
2071	TLR signaling pathways: opportunities for activation and blockade in pursuit of therapy. <b>2006</b> , 12, 4123-34	48
2070	Distinct induction patterns and functions of two closely related interferon-inducible human genes, ISG54 and ISG56. <b>2006</b> , 281, 34064-71	126
2069	Inhibition of the type I interferon response by the nucleoprotein of the prototypic arenavirus lymphocytic choriomeningitis virus. <b>2006</b> , 80, 9192-9	196
2068	Essential role of IPS-1 in innate immune responses against RNA viruses. <b>2006</b> , 203, 1795-803	407
2067	Replication of hepatitis C virus (HCV) RNA in mouse embryonic fibroblasts: protein kinase R (PKR)-dependent and PKR-independent mechanisms for controlling HCV RNA replication and mediating interferon activities. <b>2006</b> , 80, 7364-74	88
2066	Caspase recruitment domain protein 6 is a microtubule-interacting protein that positively modulates NF-kappaB activation. <b>2006</b> , 103, 988-93	45
2065	The hepatitis C virus and immune evasion: non-structural 3/4A transgenic mice are resistant to lethal tumour necrosis factor alpha mediated liver disease. <b>2006</b> , 55, 1475-83	43
2064	RNA- and virus-independent inhibition of antiviral signaling by RNA helicase LGP2. <b>2006</b> , 80, 12332-42	228
2063	Negative regulation of the retinoic acid-inducible gene I-induced antiviral state by the ubiquitin-editing protein A20. <b>2006</b> , 281, 2095-103	185
2062	Toll-like receptor-independent triggering of dendritic cell maturation by viruses. <b>2006</b> , 80, 3128-34	25
2061	Legionella pneumophila induces IFNbeta in lung epithelial cells via IPS-1 and IRF3, which also control bacterial replication. <b>2006</b> , 281, 36173-9	98

## (2007-2006)

2060	Cutting edge: Role of TANK-binding kinase 1 and inducible IkappaB kinase in IFN responses against viruses in innate immune cells. <b>2006</b> , 177, 5785-9	75
2059	Essential role of mda-5 in type I IFN responses to polyriboinosinic:polyribocytidylic acid and encephalomyocarditis picornavirus. <b>2006</b> , 103, 8459-64	909
2058	Roles of caspase-8 and caspase-10 in innate immune responses to double-stranded RNA. <b>2006</b> , 176, 4520-4	150
2057	Ebola virus VP35 protein binds double-stranded RNA and inhibits alpha/beta interferon production induced by RIG-I signaling. <b>2006</b> , 80, 5168-78	353
2056	Genetic analysis of innate immunity. <b>2006</b> , 91, 175-226	28
2055	Rabies viral mechanisms to escape the IFN system: the viral protein P interferes with IRF-3, Stat1, and PML nuclear bodies. <b>2006</b> , 26, 271-80	76
2054	The NPro product of bovine viral diarrhea virus inhibits DNA binding by interferon regulatory factor 3 and targets it for proteasomal degradation. <b>2006</b> , 80, 11723-32	197
2053	Toll-like receptor adaptor molecules enhance DNA-raised adaptive immune responses against influenza and tumors through activation of innate immunity. <b>2006</b> , 80, 6218-24	72
2052	NAK-associated protein 1 participates in both the TLR3 and the cytoplasmic pathways in type I IFN induction. <b>2006</b> , 177, 8676-83	113
2051	Promoter organization of the interferon-A genes differentially affects virus-induced expression and responsiveness to TBK1 and IKKepsilon. <b>2006</b> , 281, 4856-66	33
2050	The pathogenic NY-1 hantavirus G1 cytoplasmic tail inhibits RIG-I- and TBK-1-directed interferon responses. <b>2006</b> , 80, 9676-86	119
2049	Receptor (SLAM [CD150]) recognition and the V protein sustain swift lymphocyte-based invasion of mucosal tissue and lymphatic organs by a morbillivirus. <b>2006</b> , 80, 6084-92	124
2048	Viral and therapeutic control of IFN-beta promoter stimulator 1 during hepatitis C virus infection. <b>2006</b> , 103, 6001-6	343
2047	Double-stranded RNA binding of influenza B virus nonstructural NS1 protein inhibits protein kinase R but is not essential to antagonize production of alpha/beta interferon. <b>2006</b> , 80, 11667-77	61
2046	Toll-like receptor-dependent and -independent viperin gene expression and counter-regulation by PRDI-binding factor-1/BLIMP1. <b>2006</b> , 281, 26188-95	93
2045	Inhibition of dsRNA-induced signaling in hepatitis C virus-infected cells by NS3 protease-dependent and -independent mechanisms. <b>2006</b> , 103, 8499-504	111
2044	TRAF3: a new regulator of type I interferons. <b>2006</b> , 5, 804-7	41
2043	The chemotherapeutic agent DMXAA potently and specifically activates the TBK1-IRF-3 signaling axis. <b>2007</b> , 204, 1559-69	114

2042	Regulation of IRF-3-dependent innate immunity by the papain-like protease domain of the severe acute respiratory syndrome coronavirus. <b>2007</b> , 282, 32208-21	295
2041	Triggering the innate antiviral response through IRF-3 activation. <b>2007</b> , 282, 15325-9	344
2040	Negative regulation of the RIG-I signaling by the ubiquitin ligase RNF125. <b>2007</b> , 104, 7500-5	325
2039	Role of interferon regulatory factor 3 in type I interferon responses in rotavirus-infected dendritic cells and fibroblasts. <b>2007</b> , 81, 2758-68	26
2038	IkappaB kinase subunits alpha and gamma are required for activation of NF-kappaB and induction of apoptosis by mammalian reovirus. <b>2007</b> , 81, 1360-71	49
2037	Modulation of the interferon antiviral response by the TBK1/IKKi adaptor protein TANK. <b>2007</b> , 282, 11817-26	162
2036	Loss of DExD/H box RNA helicase LGP2 manifests disparate antiviral responses. <b>2007</b> , 178, 6444-55	311
2035	Function of RIG-I-like receptors in antiviral innate immunity. <b>2007</b> , 282, 15315-8	227
2034	Activation of innate immune defense mechanisms by signaling through RIG-I/IPS-1 in intestinal epithelial cells. <b>2007</b> , 179, 5425-32	71
2033	Functional and therapeutic analysis of hepatitis C virus NS3.4A protease control of antiviral immune defense. <b>2007</b> , 282, 10792-803	74
2032	Fas-associated death domain-containing protein-mediated antiviral innate immune signaling involves the regulation of Irf7. <b>2007</b> , 178, 2429-39	45
2031	Viral infections activate types I and III interferon genes through a common mechanism. <b>2007</b> , 282, 7576-81	267
2030	The death domain superfamily in intracellular signaling of apoptosis and inflammation. 2007, 25, 561-86	388
2029	Innate immune system regulation of nuclear hormone receptors in metabolic diseases. <b>2007</b> , 82, 187-95	17
2028	Regulation of interferon production by RIG-I and LGP2: a lesson in self-control. 2007, 2007, pe20	25
2027	Targeting the networks that underpin contiguous immunity in asthma and chronic obstructive pulmonary disease. <b>2007</b> , 175, 306-11	45
2026	Innate immune response and hepatic inflammation. <b>2007</b> , 27, 339-50	142
2025	The Atg5 Atg12 conjugate associates with innate antiviral immune responses. <b>2007</b> , 104, 14050-5	451

#### (2007-2007)

2024	Role of MyD88 and TLR9 in the innate immune response elicited by serotype 5 adenoviral vectors. <b>2007</b> , 18, 753-62	76
2023	Inhibition of retinoic acid-inducible gene I-mediated induction of beta interferon by the NS1 protein of influenza A virus. <b>2007</b> , 81, 514-24	468
2022	Type I interferon during viral infections: multiple triggers for a multifunctional mediator. <b>2007</b> , 316, 337-57	38
2021	Regulation of innate antiviral defenses through a shared repressor domain in RIG-I and LGP2. <b>2007</b> , 104, 582-7	582
2020	Differential role of TLR- and RLR-signaling in the immune responses to influenza A virus infection and vaccination. <b>2007</b> , 179, 4711-20	239
2019	Differential type I IFN-inducing abilities of wild-type versus vaccine strains of measles virus. <b>2007</b> , 179, 6123-33	101
2018	Tissue-specific and inducer-specific differential induction of ISG56 and ISG54 in mice. 2007, 81, 8656-65	55
2017	Adenovirus infection triggers a rapid, MyD88-regulated transcriptome response critical to acute-phase and adaptive immune responses in vivo. <b>2007</b> , 81, 1796-812	125
2016	Retinoic acid-inducible gene I mediates early antiviral response and Toll-like receptor 3 expression in respiratory syncytial virus-infected airway epithelial cells. <b>2007</b> , 81, 1401-11	253
2015	GB virus B disrupts RIG-I signaling by NS3/4A-mediated cleavage of the adaptor protein MAVS. <b>2007</b> , 81, 964-76	120
2014	Hepatitis C virus nonstructural protein 5A modulates the toll-like receptor-MyD88-dependent signaling pathway in macrophage cell lines. <b>2007</b> , 81, 8953-66	135
2013	IFN regulatory factor family members differentially regulate the expression of type III IFN (IFN-lambda) genes. <b>2007</b> , 179, 3434-42	236
2012	Type I interferon production during herpes simplex virus infection is controlled by cell-type-specific viral recognition through Toll-like receptor 9, the mitochondrial antiviral signaling protein pathway, and novel recognition systems. <b>2007</b> , 81, 13315-24	129
2011	Retinoic acid-inducible gene-I and interferon-beta promoter stimulator-1 augment proapoptotic responses following mammalian reovirus infection via interferon regulatory factor-3. <b>2007</b> , 282, 21953-61	100
2010	West Nile virus envelope protein inhibits dsRNA-induced innate immune responses. 2007, 179, 8403-9	58
2009	West Nile virus-induced interferon production is mediated by the double-stranded RNA-dependent protein kinase PKR. <b>2007</b> , 81, 11148-58	89
2008	Chlamydia muridarum infection elicits a beta interferon response in murine oviduct epithelial cells dependent on interferon regulatory factor 3 and TRIF. <b>2007</b> , 75, 1280-90	36
2007	MDA-5 is cleaved in poliovirus-infected cells. <b>2007</b> , 81, 3677-84	151

2006	Regulation of CXCL-8 (interleukin-8) induction by double-stranded RNA signaling pathways during hepatitis C virus infection. <b>2007</b> , 81, 309-18	61
2005	Innate immune response to adenoviral vectors is mediated by both Toll-like receptor-dependent and -independent pathways. <b>2007</b> , 81, 3170-80	280
2004	Hepatitis C virus non-structural proteins responsible for suppression of the RIG-I/Cardif-induced interferon response. <b>2007</b> , 88, 3323-3333	32
2003	Immunopathogenesis in hepatitis C virus cirrhosis. <b>2007</b> , 112, 141-55	65
2002	Innate immunity against vaccinia virus is mediated by TLR2 and requires TLR-independent production of IFN-beta. <b>2007</b> , 109, 619-25	152
2001	Toll-like receptors: emerging concepts in kidney disease. <b>2007</b> , 16, 177-83	90
2000	Current World Literature. 2007, 14, 62-84	
1999	Regulation of lupus-related autoantibody production and clinical disease by Toll-like receptors. <b>2007</b> , 19, 11-23	132
1998	Interferon, Mx, and viral countermeasures. <b>2007</b> , 18, 425-33	125
1997	Innate immune evasion by hepatitis C virus and West Nile virus. <b>2007</b> , 18, 535-44	24
1996	Present role and future potential of type I interferons in adjuvant therapy of high-risk operable melanoma. <b>2007</b> , 18, 451-8	25
1995	RIG-I family RNA helicases: cytoplasmic sensor for antiviral innate immunity. <b>2007</b> , 18, 545-51	106
1994	Infectious salmon anemia virus is a powerful inducer of key genes of the type I interferon system of Atlantic salmon, but is not inhibited by interferon. <b>2007</b> , 23, 378-89	85
1993	VISAa pass to innate immunity. <b>2007</b> , 39, 287-91	17
1992	Triggering antiviral response by RIG-I-related RNA helicases. <b>2007</b> , 89, 754-60	61
1991	Interferon, a growing cytokine family: 50 years of interferon research. <b>2007</b> , 89, 713-8	84
1990	The feedback phase of type I interferon induction in dendritic cells requires interferon regulatory factor 8. <b>2007</b> , 27, 228-39	135

1988	Innate recognition of viruses. <b>2007</b> , 27, 370-83	542
1987	Suppression subtraction hybridization (SSH) and macroarray techniques reveal differential gene expression profiles in brain of sea bream infected with nodavirus. <b>2007</b> , 44, 2195-204	52
1986	Signaling to NF-kappaB by Toll-like receptors. <b>2007</b> , 13, 460-9	1501
1985	Innate immunogenetics: a tool for exploring new frontiers of host defence. <b>2007</b> , 7, 531-42	70
1984	Regulation of innate immunity against hepatitis C virus infection. <b>2008</b> , 38, 115-22	43
1983	The science of adjuvants. <b>2007</b> , 6, 673-84	87
1982	Vitamin E and NF-kappaB activation: a review. <b>2007</b> , 76, 135-53	25
1981	Negative regulation of MDA5- but not RIG-I-mediated innate antiviral signaling by the dihydroxyacetone kinase. <b>2007</b> , 104, 11706-11	106
1980	Disruption of innate immunity due to mitochondrial targeting of a picornaviral protease precursor. <b>2007</b> , 104, 7253-8	254
1979	Mouse hepatitis virus does not induce Beta interferon synthesis and does not inhibit its induction by double-stranded RNA. <b>2007</b> , 81, 568-74	97
1978	Immune-mediated changes in actinic keratosis following topical treatment with imiquimod 5% cream. <b>2007</b> , 5, 7	41
1977	Toll-like receptors. <b>2007</b> , Chapter 14, Unit 14.12	103
1976	Exploited defense: how influenza viruses take advantage of antiviral signaling responses. <b>2007</b> , 2, 91-100	15
1975	Interferon: The 50th Anniversary. <b>2007</b> ,	5
1974	The interferon inducing pathways and the hepatitis C virus. <b>2007</b> , 13, 2446-54	37
1973	TLR3 signaling in a hepatoma cell line is skewed towards apoptosis. <b>2007</b> , 100, 1301-12	70
1972	Central role of interferon regulatory factor-1 (IRF-1) in controlling retinoic acid inducible gene-I (RIG-I) expression. <b>2007</b> , 213, 502-10	53
1971	Interferon-regulatory-factor 1 controls Toll-like receptor 9-mediated IFN-beta production in myeloid dendritic cells. <b>2007</b> , 37, 315-27	112

1970	Synergistic activation of interferon-beta gene transcription by the viral FLICE inhibitory protein of Kaposi's sarcoma-associated herpesvirus and type I IFN activators. <b>2007</b> , 37, 2772-8	3
1969	Altered innate immunity in chronic hepatitis C infection: cause or effect?. <b>2007</b> , 46, 1279-90	35
1968	Hepatitis C virusbiology, host evasion strategies, and promising new therapies on the horizon. <b>2007</b> , 27, 353-73	33
1967	Signal transduction in the type I interferon system and viral countermeasures. <b>2007</b> , 7, 5-19	6
1966	Avian influenza virus signaling: implications for the disease severity of H5N1 infection. <b>2007</b> , 7, 64-80	7
1965	Ubiquitin-mediated activation of TAK1 and IKK. <b>2007</b> , 26, 3214-26	337
1964	Translational mini-review series on Toll-like receptors: recent advances in understanding the role of Toll-like receptors in anti-viral immunity. <b>2007</b> , 147, 217-26	31
1963	The adaptor protein CARD9 is required for innate immune responses to intracellular pathogens.  Nature Immunology, <b>2007</b> , 8, 198-205	306
1962	The NEMO adaptor bridges the nuclear factor-kappaB and interferon regulatory factor signaling pathways. <i>Nature Immunology</i> , <b>2007</b> , 8, 592-600	248
1961	Genetic analysis of resistance to viral infection. <b>2007</b> , 7, 753-66	151
1960	Replication of hepatitis C virus. <b>2007</b> , 5, 453-63	1049
1959	RIP1, a kinase on the crossroads of a cell's decision to live or die. <b>2007</b> , 14, 400-10	359
1958	SINTBAD, a novel component of innate antiviral immunity, shares a TBK1-binding domain with NAP1 and TANK. <b>2007</b> , 26, 3180-90	145
1957	Involvement of the ubiquitin-like domain of TBK1/IKK-i kinases in regulation of IFN-inducible genes. <b>2007</b> , 26, 3451-62	88
1956	The role of type I interferons in TLR responses. <b>2007</b> , 85, 446-57	102
1955	Toll-like receptors, RIG-I-like RNA helicases and the antiviral innate immune response. <b>2007</b> , 85, 435-45	186
1954	Rig-I-/- mice develop colitis associated with downregulation of G alpha i2. <b>2007</b> , 17, 858-68	98
1953	TRIM25 RING-finger E3 ubiquitin ligase is essential for RIG-I-mediated antiviral activity. <b>2007</b> , 446, 916-920	1135

1952	Small self-RNA generated by RNase L amplifies antiviral innate immunity. 2007, 448, 816-9	470
1951	IFNbeta induction by influenza A virus is mediated by RIG-I which is regulated by the viral NS1 protein. <b>2007</b> , 9, 930-8	225
1950	Innate immunity to respiratory viruses. <b>2007</b> , 9, 1641-6	38
1949	YopJ targets TRAF proteins to inhibit TLR-mediated NF-kappaB, MAPK and IRF3 signal transduction. <b>2007</b> , 9, 2700-15	102
1948	Innate immunity, macrophage activation, and atherosclerosis. 2007, 219, 187-203	196
1947	Recognition of viruses by innate immunity. <b>2007</b> , 220, 214-24	274
1946	Neo-ligands for innate immune receptors and the etiology of sterile inflammatory disease. <b>2007</b> , 220, 113-28	52
1945	Identification of type I interferon-associated inflammation in the pathogenesis of cutaneous lupus erythematosus opens up options for novel therapeutic approaches. <b>2007</b> , 16, 454-63	65
1944	Limited suppression of the interferon-beta production by hepatitis C virus serine protease in cultured human hepatocytes. <b>2007</b> , 274, 4161-76	31
1943	Signaling pathways activated by microorganisms. <b>2007</b> , 19, 185-91	63
1942	mda-5, but not RIG-I, is a common target for paramyxovirus V proteins. <b>2007</b> , 359, 190-200	250
1941	Vesicular stomatitis virus glycoprotein G activates a specific antiviral Toll-like receptor 4-dependent pathway. <b>2007</b> , 362, 304-13	152
1940	Bax-dependent mitochondrial membrane permeabilization enhances IRF3-mediated innate immune response during VSV infection. <b>2007</b> , 365, 20-33	29
1939	Ubiquitination and proteasomal degradation of interferon regulatory factor-3 induced by Npro from a cytopathic bovine viral diarrhea virus. <b>2007</b> , 366, 277-92	92
1938	Signaling pathways downstream of pattern-recognition receptors and their cross talk. 2007, 76, 447-80	577
1937	Principles of intracellular viral recognition. <b>2007</b> , 19, 17-23	124
1936	Bovine parainfluenza virus type 3 accessory proteins that suppress beta interferon production. <b>2007</b> , 9, 954-62	40
1935	Signalling pathways mediating type I interferon gene expression. <b>2007</b> , 9, 1245-51	19

1934	MDA5/RIG-I and virus recognition. <b>2008</b> , 20, 17-22	448
1933	Herpes simplex viruses and induction of interferon responses. 2008, 23, 416-428	
1932	Pathogen recognition by innate receptors. <b>2008</b> , 14, 86-92	160
1931	Crystal structure of human IPS-1/MAVS/VISA/Cardif caspase activation recruitment domain. <b>2008</b> , 8, 11	79
1930	Interferon regulatory factor 7-mediated responses are defective in cord blood plasmacytoid dendritic cells. <b>2008</b> , 38, 507-17	80
1929	Endoplasmic reticulum stress and the unfolded protein response are linked to synergistic IFN-beta induction via X-box binding protein 1. <b>2008</b> , 38, 1194-203	257
1928	Toll-like receptors and adaptor molecules in liver disease: update. <b>2008</b> , 48, 322-35	544
1927	Toll-like receptor and RIG-I-like receptor signaling. 2008, 1143, 1-20	706
1926	Toll-like receptors regulation of viral infection and disease. <b>2008</b> , 60, 786-94	59
1925	Cytoplasmic recognition of RNA. <b>2008</b> , 60, 841-6	43
1924	Intracellular pattern-recognition receptors. <b>2008</b> , 60, 830-40	31
1923	Inhibition of interferon induction and signaling by paramyxoviruses. <b>2008</b> , 225, 46-67	81
1922	The IKK-related kinases: from innate immunity to oncogenesis. <b>2008</b> , 18, 889-99	142
1921	Negative feedback regulation of cellular antiviral signaling by RBCK1-mediated degradation of IRF3. <b>2008</b> , 18, 1096-104	105
1920	The DEAD-box helicase DDX3X is a critical component of the TANK-binding kinase 1-dependent innate immune response. <b>2008</b> , 27, 2135-46	210
1919	Viral targeting of DEAD box protein 3 reveals its role in TBK1/IKKepsilon-mediated IRF activation. <b>2008</b> , 27, 2147-57	271
1918	NLRX1: friend or foe?. <b>2008</b> , 9, 243-5	9
1917	Influencing the fates of CD4 T cells on the path to memory: lessons from influenza. <b>2008</b> , 86, 343-52	41

1916 NLRX1 is a regulator of mitochondrial antiviral immunity. <b>2008</b> , 451, 573-7	432
1915 STING is an endoplasmic reticulum adaptor that facilitates innate immune signalling. <b>2008</b> , 455, 674-8	1795
1914 The antiviral adaptor proteins Cardif and Trif are processed and inactivated by caspases. <b>2008</b> , 15, 1804-1	1 64
1913 Toll-like receptors and immune regulation: implications for cancer therapy. <b>2008</b> , 27, 181-9	122
Phosphatase SHP-1 promotes TLR- and RIG-l-activated production of type I interferon by inhibiting the kinase IRAK1. <i>Nature Immunology</i> , <b>2008</b> , 9, 542-50	9.1 199
1911 5'-Triphosphate-siRNA: turning gene silencing and Rig-I activation against melanoma. <b>2008</b> , 14, 1256-63	307
1910 Ral GTPases and cancer: linchpin support of the tumorigenic platform. <b>2008</b> , 8, 133-40	189
Plasmacytoid dendritic cells: sensing nucleic acids in viral infection and autoimmune diseases. <b>2008</b> , 8, 594-606	913
1908 Innate immune modulation by RNA viruses: emerging insights from functional genomics. <b>2008</b> , 8, 644-54	115
1907 Viral evasion and subversion of pattern-recognition receptor signalling. <b>2008</b> , 8, 911-22	503
1906 IFNbeta responses induced by intracellular bacteria or cytosolic DNA in different human cells do not require ZBP1 (DLM-1/DAI). <b>2008</b> , 10, 2579-88	65
Identification of human metapneumovirus-induced gene networks in airway epithelial cells by microarray analysis. <b>2008</b> , 374, 114-27	41
Isolation and gene analysis of interferon alpha-resistant cell clones of the hepatitis C virus subgenome. <b>2008</b> , 375, 424-32	9
The interplay between viruses and innate immune signaling: recent insights and therapeutic opportunities. <b>2008</b> , 75, 589-602	100
1902 Non-apoptotic functions of caspase-8. <b>2008</b> , 76, 1365-73	90
1901 Are the IKKs and IKK-related kinases TBK1 and IKK-epsilon similarly activated?. <b>2008</b> , 33, 171-80	172
1900 The IRF family transcription factors in immunity and oncogenesis. <b>2008</b> , 26, 535-84	877
1899 Innate sensors of influenza virus: clues to developing better intranasal vaccines. <b>2008</b> , 7, 1435-45	33

1898	Nucleic acid recognition receptors in autoimmunity. <b>2008</b> , 129-51	26
1897	Potential relevance of cytoplasmic viral sensors and related regulators involving innate immunity in antiviral response. <b>2008</b> , 134, 1396-405	37
1896	New tricks for old NODs. <b>2008</b> , 9, 217	
1895	Innate recognition of non-self nucleic acids. <b>2008</b> , 9, 211	25
1894	Hepatitis C and innate immunity: recent advances. <b>2008</b> , 12, 675-92, x	45
1893	Length-dependent recognition of double-stranded ribonucleic acids by retinoic acid-inducible gene-I and melanoma differentiation-associated gene 5. <b>2008</b> , 205, 1601-10	1105
1892	Toll-Like Receptors (TLRs) and Innate Immunity. 2008,	7
1891	The C-terminal regulatory domain is the RNA 5'-triphosphate sensor of RIG-I. <b>2008</b> , 29, 169-79	408
1890	UbcH8 regulates ubiquitin and ISG15 conjugation to RIG-I. <b>2008</b> , 45, 1078-84	46
1889	Identification of MAVS splicing variants that interfere with RIGI/MAVS pathway signaling. 2008, 45, 2277-87	44
1889 1888	Identification of MAVS splicing variants that interfere with RIGI/MAVS pathway signaling. 2008, 45, 2277-87  Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. 2008, 45, 2839-46	107
	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta	
1888	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. <b>2008</b> , 45, 2839-46  Spontaneous resolution of hepatitis C virus infection is not due to a mutation at Cys-508 of	107
1888 1887 1886	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. <b>2008</b> , 45, 2839-46  Spontaneous resolution of hepatitis C virus infection is not due to a mutation at Cys-508 of MAVS/VISA/IPS-1/CARDIF. <b>2008</b> , 42, 229-30  The role of viral nucleic acid recognition in dendritic cells for innate and adaptive antiviral	107
1888 1887 1886 1885	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. 2008, 45, 2839-46  Spontaneous resolution of hepatitis C virus infection is not due to a mutation at Cys-508 of MAVS/VISA/IPS-1/CARDIF. 2008, 42, 229-30  The role of viral nucleic acid recognition in dendritic cells for innate and adaptive antiviral immunity. 2007, 212, 701-14	107 2 36
1888 1887 1886 1885	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. 2008, 45, 2839-46  Spontaneous resolution of hepatitis C virus infection is not due to a mutation at Cys-508 of MAVS/VISA/IPS-1/CARDIF. 2008, 42, 229-30  The role of viral nucleic acid recognition in dendritic cells for innate and adaptive antiviral immunity. 2007, 212, 701-14  TRADD protein is an essential component of the RIG-like helicase antiviral pathway. 2008, 28, 651-61	107 2 36 242
1888 1887 1886 1885	Porcine reproductive and respiratory syndrome virus (PRRSV) suppresses interferon-beta production by interfering with the RIG-I signaling pathway. 2008, 45, 2839-46  Spontaneous resolution of hepatitis C virus infection is not due to a mutation at Cys-508 of MAVS/VISA/IPS-1/CARDIF. 2008, 42, 229-30  The role of viral nucleic acid recognition in dendritic cells for innate and adaptive antiviral immunity. 2007, 212, 701-14  TRADD protein is an essential component of the RIG-like helicase antiviral pathway. 2008, 28, 651-61  Regulation of mitochondrial antiviral signaling pathways. 2008, 28, 735-9  The adaptor protein MITA links virus-sensing receptors to IRF3 transcription factor activation. 2008, 29, 538-50	107 2 36 242 64

1880 The mitochondrial antiviral signaling protein, MAVS, is cleaved during apoptosis. <b>2008</b> , 375, 101-6	28
TLR-independent type I interferon induction in response to an extracellular bacterial pathogen via intracellular recognition of its DNA. <b>2008</b> , 4, 543-54	110
1878 Innate immune response to viral infection. <b>2008</b> , 43, 336-41	237
1877 Negative regulation of cytoplasmic RNA-mediated antiviral signaling. <b>2008</b> , 43, 350-8	104
Interferons and viruses: an interplay between induction, signalling, antiviral responses and virus countermeasures. <b>2008</b> , 89, 1-47	1180
1875 Acute hepatitis C. <b>2008</b> , 372, 321-32	191
1874 Distinct RIG-I and MDA5 signaling by RNA viruses in innate immunity. <b>2008</b> , 82, 335-45	806
1873 Essential role of the N-terminal domain in the regulation of RIG-I ATPase activity. <b>2008</b> , 283, 9488-96	54
Hepatitis C virus proteins interfere with the activation of chemokine gene promoters and downregulate chemokine gene expression. <b>2008</b> , 89, 432-443	19
Hepatitis C virus (HCV) employs multiple strategies to subvert the host innate antiviral response. <b>2008</b> , 389, 1283-98	30
Modifications in small interfering RNA that separate immunostimulation from RNA interference. <b>2008</b> , 180, 3229-37	88
Zebrafish TRIF, a Golgi-localized protein, participates in IFN induction and NF-kappaB activation. <b>2008</b> , 180, 5373-83	71
Double-stranded RNA induces an antiviral defense status in epidermal keratinocytes through TLR3-, PKR-, and MDA5/RIG-I-mediated differential signaling. <b>2008</b> , 181, 2694-704	130
1867 Viral infection: a potent barrier to transplantation tolerance. <b>2008</b> , 2008, 742810	5
1866 Hepatitis C viral NS3-4A protease activity is enhanced by the NS3 helicase. <b>2008</b> , 283, 29929-37	86
Potential for all-trans retinoic acid (tretinoin) to enhance interferon-alpha treatment response in chronic myelogenous leukemia, melanoma, myeloma and renal cell carcinoma. <b>2008</b> , 7, 1515-9	11
1864 A New TRADDition in intracellular antiviral signaling. <b>2008</b> , 1, pe36	5
Establishment and maintenance of the innate antiviral response to West Nile Virus involves both RIG-I and MDA5 signaling through IPS-1. <b>2008</b> , 82, 609-16	257

1862	Modulation of the immune responses in chickens by low-pathogenicity avian influenza virus H9N2. <b>2008</b> , 89, 1288-1299	76
1861	The NY-1 hantavirus Gn cytoplasmic tail coprecipitates TRAF3 and inhibits cellular interferon responses by disrupting TBK1-TRAF3 complex formation. <b>2008</b> , 82, 9115-22	78
1860	Inhibition of proinflammatory and innate immune signaling pathways by a cytomegalovirus RIP1-interacting protein. <b>2008</b> , 105, 3094-9	110
1859	A novel IFN regulatory factor 3-dependent pathway activated by trypanosomes triggers IFN-beta in macrophages and fibroblasts. <b>2008</b> , 181, 7917-24	44
1858	Small interfering RNAs induce macrophage migration inhibitory factor production and proliferation in breast cancer cells via a double-stranded RNA-dependent protein kinase-dependent mechanism. <b>2008</b> , 180, 7125-33	31
1857	Induction of protein kinase PKR-dependent activation of interferon regulatory factor 3 by vaccinia virus occurs through adapter IPS-1 signaling. <b>2008</b> , 283, 34580-7	60
1856	Cutting edge: cooperation of IPS-1- and TRIF-dependent pathways in poly IC-enhanced antibody production and cytotoxic T cell responses. <b>2008</b> , 180, 683-7	128
1855	Receptor-interacting protein homotypic interaction motif-dependent control of NF-kappa B activation via the DNA-dependent activator of IFN regulatory factors. <b>2008</b> , 181, 6427-34	175
1854	TRAF6 and MEKK1 play a pivotal role in the RIG-I-like helicase antiviral pathway. 2008, 283, 36211-20	73
1853	Virus infection triggers SUMOylation of IRF3 and IRF7, leading to the negative regulation of type I interferon gene expression. <b>2008</b> , 283, 25660-25670	118
1852	FLN29 deficiency reveals its negative regulatory role in the Toll-like receptor (TLR) and retinoic acid-inducible gene I (RIG-I)-like helicase signaling pathway. <b>2008</b> , 283, 33858-64	44
1851	Respiratory syncytial virus induces RelA release from cytoplasmic 100-kDa NF-kappa B2 complexes via a novel retinoic acid-inducible gene-I{middle dot}NF- kappa B-inducing kinase signaling pathway. <b>2008</b> , 283, 23169-78	51
1850	West Nile virus nonstructural protein 1 inhibits TLR3 signal transduction. <b>2008</b> , 82, 8262-71	129
1849	Evolution of MDA-5/RIG-I-dependent innate immunity: independent evolution by domain grafting. <b>2008</b> , 105, 17040-5	63
1848	Negative feedback regulation of RIG-I-mediated antiviral signaling by interferon-induced ISG15 conjugation. <b>2008</b> , 82, 1474-83	175
1847	MAVS and MyD88 are essential for innate immunity but not cytotoxic T lymphocyte response against respiratory syncytial virus. <b>2008</b> , 105, 14046-51	113
1846	Activation of an immunoregulatory and antiviral gene expression program in poly(I:C)-transfected human neutrophils. <b>2008</b> , 181, 6563-73	84
1845	RIG-I mediates the co-induction of tumor necrosis factor and type I interferon elicited by myxoma virus in primary human macrophages. <b>2008</b> , 4, e1000099	72

## (2008-2008)

1844	Soluble G protein of respiratory syncytial virus inhibits Toll-like receptor 3/4-mediated IFN-beta induction. <b>2008</b> , 20, 1169-80	57
1843	Antigen-induced immunomodulation in the pathogenesis of atherosclerosis. <b>2008</b> , 2008, 723539	32
1842	Negative regulation of virus-triggered IFN-beta signaling pathway by alternative splicing of TBK1. <b>2008</b> , 283, 35590-7	37
1841	Vaccinia virus subverts a mitochondrial antiviral signaling protein-dependent innate immune response in keratinocytes through its double-stranded RNA binding protein, E3. <b>2008</b> , 82, 10735-46	35
1840	Sabotage of antiviral signaling and effectors by influenza viruses. <b>2008</b> , 389, 1299-305	20
1839	Phagocytosis of picornavirus-infected cells induces an RNA-dependent antiviral state in human dendritic cells. <b>2008</b> , 82, 2930-7	22
1838	Targeting poly(I:C) to the TLR3-independent pathway boosts effector CD8 T cell differentiation through IFN-alpha/beta. <b>2008</b> , 181, 7670-80	56
1837	Roles of RIG-I N-terminal tandem CARD and splice variant in TRIM25-mediated antiviral signal transduction. <b>2008</b> , 105, 16743-8	187
1836	Role of retinoic acid inducible gene-I in human metapneumovirus-induced cellular signalling. <b>2008</b> , 89, 1978-1986	41
1835	Lymphocytoid choriomeningitis virus activates plasmacytoid dendritic cells and induces a cytotoxic T-cell response via MyD88. <b>2008</b> , 82, 196-206	102
1834	TLR7-dependent and FcgammaR-independent production of type I interferon in experimental mouse lupus. <b>2008</b> , 205, 2995-3006	171
1833	Active caspase-1-mediated secretion of retinoic acid inducible gene-I. <b>2008</b> , 181, 7324-31	15
1832	Hepatitis A virus protein 2B suppresses beta interferon (IFN) gene transcription by interfering with IFN regulatory factor 3 activation. <b>2008</b> , 89, 1593-1604	43
1831	Homo-oligomerization is essential for Toll/interleukin-1 receptor domain-containing adaptor molecule-1-mediated NF-kappaB and interferon regulatory factor-3 activation. <b>2008</b> , 283, 18283-91	58
1830	The non-canonical role of Atg family members as suppressors of innate antiviral immune signaling. <b>2008</b> , 4, 67-9	50
1829	Pathogen-Related Signal Transduction Pathways of Dendritic Cells: Perspectives for Cancer Immunotherapy. <b>2008</b> , 3, 133-137	О
1828	Immunostimulatory virotherapy using recombinant Sendai virus as a new cancer therapeutic regimen. <b>2008</b> , 13, 4953-9	6
1827	[Structural and functional views of the intracellular viral RNA sensor RIG-I]. <b>2008</b> , 58, 97-103	2

1826	The role of plasmacytoid dendritic cell-derived IFN alpha in antiviral immunity. 2008, 28, 61-94	29
1825	[RIG-I mediated hepatic innate immune signaling that controls HCV infection]. 2008, 58, 105-15	4
1824	Regulation of viral recognition signaling by ubiquitin modification. <b>2008</b> , 58, 47-54	
1823	Antiviral strategies: the present and beyond. <b>2009</b> , 2, 32-9	17
1822	Role of Toll-like receptors, NOD-like receptors and RIG-I-like receptors in endothelial cells and systemic infections. <b>2009</b> , 102, 1103-9	79
1821	Activation of Innate Immune System During Viral Infection: Role of Pattern-recognition Receptors (PRRs) in Viral Infection. <b>2009</b> , 39, 145	6
1820	MAVS-mediated apoptosis and its inhibition by viral proteins. <b>2009</b> , 4, e5466	145
1819	Hepatitis C. <b>2009</b> , 413-440	1
1818	ISG56 is a negative-feedback regulator of virus-triggered signaling and cellular antiviral response. <b>2009</b> , 106, 7945-50	151
1817	Mechanisms employed by herpes simplex virus 1 to inhibit the interferon response. <b>2009</b> , 29, 599-607	76
1816	Activation of pattern recognition receptor-mediated innate immunity inhibits the replication of hepatitis B virus in human hepatocyte-derived cells. <b>2009</b> , 83, 847-58	97
1815	The tyrosine kinase c-Src enhances RIG-I (retinoic acid-inducible gene I)-elicited antiviral signaling. <b>2009</b> , 284, 19122-31	31
1814	Agonist and antagonist recognition by RIG-I, a cytoplasmic innate immunity receptor. <b>2009</b> , 284, 1155-65	48
1813	Baculovirus induces type I interferon production through toll-like receptor-dependent and -independent pathways in a cell-type-specific manner. <b>2009</b> , 83, 7629-40	75
1812	Control of herpes simplex virus replication is mediated through an interferon regulatory factor 3-dependent pathway. <b>2009</b> , 83, 12399-406	17
1811	MAVS dimer is a crucial signaling component of innate immunity and the target of hepatitis C virus NS3/4A protease. <b>2009</b> , 83, 1299-311	120
1810	The NS1 protein of a human influenza virus inhibits type I interferon production and the induction of antiviral responses in primary human dendritic and respiratory epithelial cells. <b>2009</b> , 83, 6849-62	80
1809	Lymphocytic choriomeningitis virus-induced central nervous system disease: a model for studying the role of chemokines in regulating the acute antiviral CD8+ T-cell response in an immune-privileged organ 2009, 83, 20-8	19

#### (2009-2009)

1808	dendritic cells harboring recombinant Sendai virus. <b>2009</b> , 183, 4211-9	30
1807	RIG-I-mediated activation of p38 MAPK is essential for viral induction of interferon and activation of dendritic cells: dependence on TRAF2 and TAK1. <b>2009</b> , 284, 10774-82	83
1806	The RNA-activated protein kinase enhances the induction of interferon-beta and apoptosis mediated by cytoplasmic RNA sensors. <b>2009</b> , 284, 1644-51	85
1805	A signaling polypeptide derived from an innate immune adaptor molecule can be harnessed as a new class of vaccine adjuvant. <b>2009</b> , 182, 1593-601	14
1804	Astrocytes recognize intracellular polyinosinic-polycytidylic acid via MDA-5. <b>2009</b> , 23, 1064-71	42
1803	Protein kinase PKR-dependent activation of mitogen-activated protein kinases occurs through mitochondrial adapter IPS-1 and is antagonized by vaccinia virus E3L. <b>2009</b> , 83, 5718-25	37
1802	Mitochondrial antiviral signaling protein plays a major role in induction of the fish innate immune response against RNA and DNA viruses. <b>2009</b> , 83, 7815-27	205
1801	Human respiratory syncytial virus nonstructural protein NS2 antagonizes the activation of beta interferon transcription by interacting with RIG-I. <b>2009</b> , 83, 3734-42	167
1800	Polo-like kinase 1 (PLK1) regulates interferon (IFN) induction by MAVS. <b>2009</b> , 284, 21797-21809	67
1799	The regulatory domain of the RIG-I family ATPase LGP2 senses double-stranded RNA. <b>2009</b> , 37, 2014-25	112
1798	Measure and countermeasure: type I IFN (IFN-alpha/beta) antiviral response against West Nile virus. <b>2009</b> , 1, 435-45	27
1797	Direct cleavage, proteasomal degradation and sequestration: three mechanisms of viral subversion of type I interferon responses. <b>2009</b> , 1, 599-606	10
1796	A Common Pathway for All Autoimmune Diseases? The Unholy Alliance of Environment, Cell Death and Nucleic Acids. <b>2009</b> , 5, 69-88	5
1795	Endosomal Toll-like receptors in autoimmunity: mechanisms for clinical diversity. <b>2009</b> , 6, 433-442	25
1794	Ebola virus protein VP35 impairs the function of interferon regulatory factor-activating kinases IKKepsilon and TBK-1. <b>2009</b> , 83, 3069-77	181
1793	PyNTTTTGT prototype oligonucleotide IMT504, a novel effective adjuvant of the FMDV DNA vaccine. <b>2009</b> , 22, 131-8	13
1792	Antagonism of innate immunity by paramyxovirus accessory proteins. <b>2009</b> , 1, 574-93	16
1791	The E3 ubiquitin ligase Triad3A negatively regulates the RIG-I/MAVS signaling pathway by targeting TRAF3 for degradation. <b>2009</b> , 5, e1000650	130

1790	Identification of host cytosolic sensors and bacterial factors regulating the type I interferon response to Legionella pneumophila. <b>2009</b> , 5, e1000665	143
1789	Mitofusin 2 inhibits mitochondrial antiviral signaling. <b>2009</b> , 2, ra47	175
1788	An antiviral response directed by PKR phosphorylation of the RNA helicase A. 2009, 5, e1000311	41
1787	Absence of autophagy results in reactive oxygen species-dependent amplification of RLR signaling. <b>2009</b> , 106, 2770-5	443
1786	Negative regulation of MAVS-mediated innate immune response by PSMA7. 2009, 183, 4241-8	69
1785	HCV innate immune responses. <b>2009</b> , 1, 1073-88	4
1784	The C proteins of human parainfluenza virus type 1 (HPIV1) control the transcription of a broad array of cellular genes that would otherwise respond to HPIV1 infection. <b>2009</b> , 83, 1892-910	12
1783	Inhibition of RIG-I and MDA5-dependent antiviral response by gC1qR at mitochondria. 2009, 106, 1530-5	102
1782	Retinoic acid-induced gene-1 (RIG-I) associates with the actin cytoskeleton via caspase activation and recruitment domain-dependent interactions. <b>2009</b> , 284, 6486-94	39
1781	Solution structures of cytosolic RNA sensor MDA5 and LGP2 C-terminal domains: identification of the RNA recognition loop in RIG-I-like receptors. <b>2009</b> , 284, 17465-74	147
1780	ERIS, an endoplasmic reticulum IFN stimulator, activates innate immune signaling through dimerization. <b>2009</b> , 106, 8653-8	514
1779	Nucleotide sequences and modifications that determine RIG-I/RNA binding and signaling activities. <b>2009</b> , 83, 4174-84	128
1778	A shared interface mediates paramyxovirus interference with antiviral RNA helicases MDA5 and LGP2. <b>2009</b> , 83, 7252-60	94
1777	Riplet/RNF135, a RING finger protein, ubiquitinates RIG-I to promote interferon-beta induction during the early phase of viral infection. <b>2009</b> , 284, 807-17	241
1776	TRIM21 is essential to sustain IFN regulatory factor 3 activation during antiviral response. <b>2009</b> , 182, 3782-92	127
1775	The levels of retinoic acid-inducible gene I are regulated by heat shock protein 90-alpha. <b>2009</b> , 182, 2717-25	26
1774	MAVS self-association mediates antiviral innate immune signaling. <b>2009</b> , 83, 3420-8	110
1773	Regulation of signal transduction by enzymatically inactive antiviral RNA helicase proteins MDA5, RIG-I, and LGP2. <b>2009</b> , 284, 9700-12	126

## (2009-2009)

1772	Vaccinia virus E3 suppresses expression of diverse cytokines through inhibition of the PKR, NF-kappaB, and IRF3 pathways. <b>2009</b> , 83, 6757-68	70
1771	TANK-binding kinase-1 plays an important role during in vitro and in vivo type I IFN responses to DNA virus infections. <b>2009</b> , 182, 2248-57	34
1770	Ubiquitin-regulated recruitment of IkappaB kinase epsilon to the MAVS interferon signaling adapter. <b>2009</b> , 29, 3401-12	70
1769	Viral myocarditis: from the perspective of the virus. <b>2009</b> , 119, 2615-24	178
1768	Cytosolic viral sensor RIG-I is a 5'-triphosphate-dependent translocase on double-stranded RNA. <b>2009</b> , 323, 1070-4	290
1767	Poly I:C-induced activation of NK cells by CD8 alpha+ dendritic cells via the IPS-1 and TRIF-dependent pathways. <b>2009</b> , 183, 2522-8	89
1766	Role of double-stranded RNA pattern recognition receptors in rhinovirus-induced airway epithelial cell responses. <b>2009</b> , 183, 6989-97	188
1765	Functions of the cytoplasmic RNA sensors RIG-I and MDA-5: key regulators of innate immunity. <b>2009</b> , 124, 219-34	126
1764	Origin and evolution of the RIG-I like RNA helicase gene family. <b>2009</b> , 9, 85	191
1763	Antiviral activity and host gene induction by tamarin and marmoset interferon-alpha and interferon-gamma in the GBV-B primary hepatocyte culture model. <b>2009</b> , 390, 186-96	6
1762	RIG-I is cleaved during picornavirus infection. <b>2009</b> , 391, 171-6	149
1761	The viral RNA recognition sensor RIG-I is degraded during encephalomyocarditis virus (EMCV) infection. <b>2009</b> , 393, 311-8	67
1760	Positioning mitochondrial plasticity within cellular signaling cascades. <b>2009</b> , 1793, 154-70	115
1759	Using high-throughput genomics to study hepatitis C: what determines the outcome of infection?. <b>2009</b> , 81, 198-208	12
1758	Bacterial RNA is recognized by different sets of immunoreceptors. <b>2009</b> , 39, 2537-47	61
1757	Characterization of the cellular immune response in hepatitis C virus infection. <b>2009</b> , 29, 843-66	14
1756	Apoptosis induced by synthetic retinoic acid CD437 on human melanoma A375 cells involves RIG-I pathway. <b>2009</b> , 301, 15-20	16
1755	The ubiquitin ligase RNF5 regulates antiviral responses by mediating degradation of the adaptor protein MITA. <b>2009</b> , 30, 397-407	288

1754	The intracellular sensor NLRP3 mediates key innate and healing responses to influenza A virus via the regulation of caspase-1. <b>2009</b> , 30, 566-75		530
1753	Innate immune recognition of nucleic acids. <b>2009</b> , 43, 98-108		19
1752	Differences in distribution of single nucleotide polymorphisms among intracellular pattern recognition receptors in pigs. <b>2009</b> , 61, 153-60		17
1751	Crystallization and preliminary crystallographic studies of human RIG-I in complex with double-stranded RNA. <b>2009</b> , 65, 648-50		1
1750	Regulation of the innate immune response by threonine-phosphatase of Eyes absent. <b>2009</b> , 460, 520-4		124
1749	STING regulates intracellular DNA-mediated, type I interferon-dependent innate immunity. <b>2009</b> , 461, 788-92		1567
1748	IPS-1 is crucial for DAP3-mediated anoikis induction by caspase-8 activation. <b>2009</b> , 16, 1615-21		27
1747	RIG-I-dependent sensing of poly(dA:dT) through the induction of an RNA polymerase III-transcribed RNA intermediate. <i>Nature Immunology</i> , <b>2009</b> , 10, 1065-72	19.1	645
1746	PCBP2 mediates degradation of the adaptor MAVS via the HECT ubiquitin ligase AIP4. <i>Nature Immunology</i> , <b>2009</b> , 10, 1300-8	19.1	233
1745	Approaching the RNA ligand for RIG-I?. 2009, 227, 66-74		66
	Approaching the RNA ligand for RIG-I?. 2009, 227, 66-74  Viral sensors: diversity in pathogen recognition. 2009, 227, 87-94		<ul><li>66</li><li>57</li></ul>
1744	Viral sensors: diversity in pathogen recognition. <b>2009</b> , 227, 87-94		57
1744 1743	Viral sensors: diversity in pathogen recognition. <b>2009</b> , 227, 87-94  RNA recognition and signal transduction by RIG-I-like receptors. <b>2009</b> , 227, 54-65  Structure and regulation of cytoplasmic adapter proteins involved in innate immune signaling. <b>2009</b>		57 458
1744 1743 1742	Viral sensors: diversity in pathogen recognition. 2009, 227, 87-94  RNA recognition and signal transduction by RIG-I-like receptors. 2009, 227, 54-65  Structure and regulation of cytoplasmic adapter proteins involved in innate immune signaling. 2009, 227, 161-75  Innate immunity to virus infection. 2009, 227, 75-86  Innate recognition of intracellular pathogens: detection and activation of the first line of defense.		57 458 29
1744 1743 1742 1741	Viral sensors: diversity in pathogen recognition. 2009, 227, 87-94  RNA recognition and signal transduction by RIG-I-like receptors. 2009, 227, 54-65  Structure and regulation of cytoplasmic adapter proteins involved in innate immune signaling. 2009, 227, 161-75  Innate immunity to virus infection. 2009, 227, 75-86  Innate recognition of intracellular pathogens: detection and activation of the first line of defense.		57 458 29 866
1744 1743 1742 1741 1740	Viral sensors: diversity in pathogen recognition. 2009, 227, 87-94  RNA recognition and signal transduction by RIG-I-like receptors. 2009, 227, 54-65  Structure and regulation of cytoplasmic adapter proteins involved in innate immune signaling. 2009, 227, 161-75  Innate immunity to virus infection. 2009, 227, 75-86  Innate recognition of intracellular pathogens: detection and activation of the first line of defense. 2009, 117, 323-37		57 458 29 866 65

## (2009-2009)

1736	Interferons: signaling, antiviral and viral evasion. <b>2009</b> , 122, 1-11	141
1735	Interferons and viral infections. <b>2009</b> , 35, 14-20	268
1734	The role of differential expression of human interferona genes in antiviral immunity. <b>2009</b> , 20, 283-95	77
1733	Atlantic salmon IPS-1 mediates induction of IFNa1 and activation of NF-kappaB and localizes to mitochondria. <b>2009</b> , 33, 1196-204	75
1732	RNA polymerase III detects cytosolic DNA and induces type I interferons through the RIG-I pathway. <b>2009</b> , 138, 576-91	871
1731	Influenza A virus NS1 targets the ubiquitin ligase TRIM25 to evade recognition by the host viral RNA sensor RIG-I. <b>2009</b> , 5, 439-49	600
1730	An essential role for RIG-I in toll-like receptor-stimulated phagocytosis. <b>2009</b> , 6, 150-61	64
1729	RIG-I-like receptors: sensing and responding to RNA virus infection. <b>2009</b> , 21, 215-22	176
1728	The role of mitochondria in cellular defense against microbial infection. <b>2009</b> , 21, 223-32	80
1727	Key role of Ubc5 and lysine-63 polyubiquitination in viral activation of IRF3. <b>2009</b> , 36, 315-25	133
1726	Cytoplasmic nucleic acid sensors in antiviral immunity. <b>2009</b> , 15, 359-68	51
1725	siRNA and innate immunity. <b>2009</b> , 19, 89-102	318
1724	The roles of TLRs, RLRs and NLRs in pathogen recognition. <b>2009</b> , 21, 317-37	1113
1723	Intracellular detection and immune signaling pathways of DNA vaccines. <b>2009</b> , 8, 1161-70	16
1722	Modulation of innate immune signalling pathways by viral proteins. <b>2009</b> , 666, 49-63	14
1721	Rhabdovirus evasion of the interferon system. <b>2009</b> , 29, 499-509	59
1720	Short-hairpin RNAs delivered by lentiviral vector transduction trigger RIG-I-mediated IFN activation. <b>2009</b> , 37, 6587-99	33
1719	Innate immune control of nucleic acid-based vaccine immunogenicity. <b>2009</b> , 8, 1099-107	28

1718	Pathogen recognition in the innate immune response. <b>2009</b> , 420, 1-16	417
1717	A host type I interferon response is induced by cytosolic sensing of the bacterial second messenger cyclic-di-GMP. <b>2009</b> , 206, 1899-911	222
1716	Cleavage of IPS-1 in cells infected with human rhinovirus. <b>2009</b> , 83, 11581-7	68
1715	Interferon response and viral evasion by members of the family rhabdoviridae. <b>2009</b> , 1, 832-51	34
1714	Long-term virus-induced alterations of CYP3A-mediated drug metabolism: a look at the virology, immunology and molecular biology of a multi-faceted problem. <b>2009</b> , 5, 1189-211	10
1713	Influenza viruses control the vertebrate type I interferon system: factors, mechanisms, and consequences. <b>2009</b> , 29, 549-57	59
1712	The interferon system and vaccinia virus evasion mechanisms. <b>2009</b> , 29, 581-98	126
1711	Interferon regulatory factors in hematopoietic cell differentiation and immune regulation. <b>2009</b> , 29, 765-80	57
1710	Innate immune recognition of viruses and viral vectors. <b>2009</b> , 20, 293-301	67
1709	Pathogen recognition and inflammatory signaling in innate immune defenses. <b>2009</b> , 22, 240-73, Table of Contents	1892
1708	Pathogen recognition by innate immunity and its signaling. <b>2009</b> , 85, 143-56	171
1708 1707	Pathogen recognition by innate immunity and its signaling. <b>2009</b> , 85, 143-56  Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent apoptosis in human melanoma cells. <b>2009</b> , 119, 2399-411	171 270
1707	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent	,
1707	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent apoptosis in human melanoma cells. <b>2009</b> , 119, 2399-411	,
1707 1706 1705	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent apoptosis in human melanoma cells. <b>2009</b> , 119, 2399-411  Molecular Biology of Hepatitis Viruses. 807-834	270
1707 1706 1705	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent apoptosis in human melanoma cells. 2009, 119, 2399-411  Molecular Biology of Hepatitis Viruses. 807-834  Negative regulators in Toll-like receptor responses. 2010, 29 Suppl 1, S13-9	270
1707 1706 1705	Proapoptotic signaling induced by RIG-I and MDA-5 results in type I interferon-independent apoptosis in human melanoma cells. 2009, 119, 2399-411  Molecular Biology of Hepatitis Viruses. 807-834  Negative regulators in Toll-like receptor responses. 2010, 29 Suppl 1, S13-9  Host innate immune responses induced by baculovirus in mammals. 2010, 10, 226-31	270 3 41

1700	Recognition of viruses by cytoplasmic sensors. <b>2010</b> , 22, 41-7	330
1699	Innate immune responses of the airway epithelium. <b>2010</b> , 30, 173-83	42
1698	Induction of type I interferon by RNA viruses: cellular receptors and their substrates. <b>2010</b> , 38, 1283-99	104
1697	SUMOylation of RIG-I positively regulates the type I interferon signaling. <b>2010</b> , 1, 275-83	55
1696	TRAF-mediated regulation of immune and inflammatory responses. <b>2010</b> , 53, 159-68	33
1695	Regulation of virus-triggered type I interferon signaling by cellular and viral proteins. <b>2010</b> , 5, 12-31	5
1694	TLR, NLR Agonists, and Other Immune Modulators as Infectious Disease Vaccine Adjuvants. <b>2010</b> , 12, 4-12	44
1693	Signaling network of dendritic cells in response to pathogens: a community-input supported knowledgebase. <b>2010</b> , 4, 137	30
1692	Construction of a large scale integrated map of macrophage pathogen recognition and effector systems. <b>2010</b> , 4, 63	32
1691	Innate immune response and viral interference strategies developed by human herpesviruses. <b>2010</b> , 80, 1955-72	36
1690	c-Abl tyrosine kinase interacts with MAVS and regulates innate immune response. <b>2010</b> , 584, 33-8	24
1689	Role for interferon regulatory factors in autoimmunity. <b>2010</b> , 77, 525-31	18
1688	Nonstructural NS1 proteins of several mosquito-borne Flavivirus do not inhibit TLR3 signaling. <b>2010</b> , 404, 319-30	32
1687	Influenza A virus strains that circulate in humans differ in the ability of their NS1 proteins to block the activation of IRF3 and interferon-transcription. <b>2010</b> , 408, 146-58	68
1686	Cleavage of mitochondrial antiviral signaling protein in the liver of patients with chronic hepatitis C correlates with a reduced activation of the endogenous interferon system. <b>2010</b> , 51, 1127-36	93
1685	DEAD/H BOX 3 (DDX3) helicase binds the RIG-I adaptor IPS-1 to up-regulate IFN-beta-inducing potential. <b>2010</b> , 40, 940-8	145
1684	Mitochondria and the culture of the Borg: understanding the integration of mitochondrial function within the reticulum, the cell, and the organism. <b>2010</b> , 32, 958-66	49
1683	Implication de la famille des facteurs de transcription IRF dans lauto-immunit[]2010, 77, 556-562	

1682	The ubiquitin ligase TRIM56 regulates innate immune responses to intracellular double-stranded DNA. <b>2010</b> , 33, 765-76		306
1681	Glycogen synthase kinase 3#egulates IRF3 transcription factor-mediated antiviral response via activation of the kinase TBK1. <b>2010</b> , 33, 878-89		130
1680	Recognition of viral nucleic acids in innate immunity. <b>2010</b> , 20, 4-22		221
1679	The innate immune system in the intestine. <b>2010</b> , 54, 645-57		24
1678	Double-stranded RNAs containing multiple IU pairs are sufficient to suppress interferon induction and apoptosis. <b>2010</b> , 17, 1043-50		87
1677	Hepatitis B virus X protein suppresses virus-triggered IRF3 activation and IFN-beta induction by disrupting the VISA-associated complex. <b>2010</b> , 7, 341-8		61
1676	Tom70 mediates activation of interferon regulatory factor 3 on mitochondria. <b>2010</b> , 20, 994-1011		100
1675	Viral apoptosis is induced by IRF-3-mediated activation of Bax. <b>2010</b> , 29, 1762-73		185
1674	Mitochondrial dynamics regulate the RIG-I-like receptor antiviral pathway. <b>2010</b> , 11, 133-8		216
1673	Real-time imaging of hepatitis C virus infection using a fluorescent cell-based reporter system. <b>2010</b> , 28, 167-71		201
1672	Recognition of RNA virus by RIG-I results in activation of CARD9 and inflammasome signaling for interleukin 1 beta production. <i>Nature Immunology</i> , <b>2010</b> , 11, 63-9	19.1	407
1671	The cytosolic exonuclease TREX1 inhibits the innate immune response to human immunodeficiency virus type 1. <i>Nature Immunology</i> , <b>2010</b> , 11, 1005-13	19.1	390
1670	Central roles of NLRs and inflammasomes in viral infection. <b>2010</b> , 10, 688-98		320
1669	Hepatitis C virus core protein abrogates the DDX3 function that enhances IPS-1-mediated IFN-beta induction. <b>2010</b> , 5, e14258		58
1668	Green tea catechin, epigallocatechin gallate, suppresses signaling by the dsRNA innate immune receptor RIG-I. <b>2010</b> , 5, e12878		24
1667	Pattern recognition receptor-dependent mechanisms of acute lung injury. <b>2010</b> , 16, 69-82		74
1666	Activation of the interferon response by human cytomegalovirus occurs via cytoplasmic double-stranded DNA but not glycoprotein B. <b>2010</b> , 84, 8913-25		31
1665	Interferon regulatory factor 3-dependent pathways are critical for control of herpes simplex virus type 1 central nervous system infection. <b>2010</b> , 84, 9685-94		41

## (2010-2010)

1664	The PB2 subunit of the influenza virus RNA polymerase affects virulence by interacting with the mitochondrial antiviral signaling protein and inhibiting expression of beta interferon. <b>2010</b> , 84, 8433-45	155
1663	Essential role of mitochondrial antiviral signaling, IFN regulatory factor (IRF)3, and IRF7 in Chlamydophila pneumoniae-mediated IFN-beta response and control of bacterial replication in human endothelial cells. <b>2010</b> , 184, 3072-8	31
1662	RNase L releases a small RNA from HCV RNA that refolds into a potent PAMP. <b>2010</b> , 16, 2108-19	108
1661	Induction and inhibition of type I interferon responses by distinct components of lymphocytic choriomeningitis virus. <b>2010</b> , 84, 9452-62	103
1660	Thogoto virus ML protein is a potent inhibitor of the interferon regulatory factor-7 transcription factor. <b>2010</b> , 91, 220-7	17
1659	Conidia but not yeast cells of the fungal pathogen Histoplasma capsulatum trigger a type I interferon innate immune response in murine macrophages. <b>2010</b> , 78, 3871-82	34
1658	Influenza A infection enhances cross-priming of CD8+ T cells to cell-associated antigens in a TLR7-and type I IFN-dependent fashion. <b>2010</b> , 185, 6013-22	28
1657	Tick-borne encephalitis virus delays interferon induction and hides its double-stranded RNA in intracellular membrane vesicles. <b>2010</b> , 84, 8470-83	123
1656	MyD88 signaling is indispensable for primary influenza A virus infection but dispensable for secondary infection. <b>2010</b> , 84, 12713-22	69
1655	TAX1BP1 and A20 inhibit antiviral signaling by targeting TBK1-IKKi kinases. <b>2010</b> , 285, 14999-15009	118
1654	WDR5 is essential for assembly of the VISA-associated signaling complex and virus-triggered IRF3 and NF-kappaB activation. <b>2010</b> , 107, 815-20	80
1653	Identification of a polyI:C-inducible membrane protein that participates in dendritic cell-mediated natural killer cell activation. <b>2010</b> , 207, 2675-87	81
1652	The ubiquitin-specific protease 17 is involved in virus-triggered type I IFN signaling. <b>2010</b> , 20, 802-11	47
1651	MDA5 and MAVS mediate type I interferon responses to coxsackie B virus. <b>2010</b> , 84, 254-60	109
1650	The interferon stimulator mitochondrial antiviral signaling protein facilitates cell death by disrupting the mitochondrial membrane potential and by activating caspases. <b>2010</b> , 84, 2421-31	51
1649	Regulation of virus-triggered signaling by OTUB1- and OTUB2-mediated deubiquitination of TRAF3 and TRAF6. <b>2010</b> , 285, 4291-7	127
1648	Sequence-non-specific effects of RNA interference triggers and microRNA regulators. <b>2010</b> , 38, 1-16	362
1647	Evolutional conservation of molecular structure and antiviral function of a viral RNA receptor, LGP2, in Japanese flounder, Paralichthys olivaceus. <b>2010</b> , 185, 7507-17	78

1646	Recognition of virus infection and innate host responses to viral gene therapy vectors. <b>2010</b> , 18, 1422-9	44
1645	Stimulator of IFN gene is critical for induction of IFN-beta during Chlamydia muridarum infection. <b>2010</b> , 184, 2551-60	89
1644	The hepatitis B virus X protein disrupts innate immunity by downregulating mitochondrial antiviral signaling protein. <b>2010</b> , 185, 1158-68	178
1643	Influenza A virus protein PB1-F2 exacerbates IFN-beta expression of human respiratory epithelial cells. <b>2010</b> , 185, 4812-23	76
1642	Rabies virus nucleoprotein functions to evade activation of the RIG-I-mediated antiviral response. <b>2010</b> , 84, 4002-12	76
1641	Gold nanorod delivery of an ssRNA immune activator inhibits pandemic H1N1 influenza viral replication. <b>2010</b> , 107, 10172-7	91
1640	The cysteine protease domain of porcine reproductive and respiratory syndrome virus non-structural protein 2 antagonizes interferon regulatory factor 3 activation. <b>2010</b> , 91, 2947-58	60
1639	Interferon induced with helicase C domain 1 (IFIH1) and virus-induced autoimmunity: a review. <b>2010</b> , 23, 3-15	35
1638	Negative role of RIG-I serine 8 phosphorylation in the regulation of interferon-beta production. <b>2010</b> , 285, 20252-61	89
1637	Clinical relevance of genetic heterogeneity in HCV. <b>2010</b> , 5, 33-49	5
1637 1636	Clinical relevance of genetic heterogeneity in HCV. <b>2010</b> , 5, 33-49  Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. <b>2010</b> , 107, 15856-61	5
<i>,</i>	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral	
1636	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. <b>2010</b> , 107, 15856-61  Preference of RIG-I for short viral RNA molecules in infected cells revealed by next-generation sequencing. <b>2010</b> , 107, 16303-8	124
1636 1635	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. 2010, 107, 15856-61  Preference of RIG-I for short viral RNA molecules in infected cells revealed by next-generation sequencing. 2010, 107, 16303-8  Z proteins of New World arenaviruses bind RIG-I and interfere with type I interferon induction.	124 316
1636 1635 1634	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. 2010, 107, 15856-61  Preference of RIG-I for short viral RNA molecules in infected cells revealed by next-generation sequencing. 2010, 107, 16303-8  Z proteins of New World arenaviruses bind RIG-I and interfere with type I interferon induction. 2010, 84, 1785-91  Type B coxsackieviruses and their interactions with the innate and adaptive immune systems. 2010,	124 316 115
1636 1635 1634	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. 2010, 107, 15856-61  Preference of RIG-I for short viral RNA molecules in infected cells revealed by next-generation sequencing. 2010, 107, 16303-8  Z proteins of New World arenaviruses bind RIG-I and interfere with type I interferon induction. 2010, 84, 1785-91  Type B coxsackieviruses and their interactions with the innate and adaptive immune systems. 2010, 5, 1329-47	124 316 115 41
1636 1635 1634 1633	Polyubiquitin conjugation to NEMO by triparite motif protein 23 (TRIM23) is critical in antiviral defense. 2010, 107, 15856-61  Preference of RIG-I for short viral RNA molecules in infected cells revealed by next-generation sequencing. 2010, 107, 16303-8  Z proteins of New World arenaviruses bind RIG-I and interfere with type I interferon induction. 2010, 84, 1785-91  Type B coxsackieviruses and their interactions with the innate and adaptive immune systems. 2010, 5, 1329-47  LGP2 is a positive regulator of RIG-I- and MDA5-mediated antiviral responses. 2010, 107, 1512-7  Virus-triggered ubiquitination of TRAF3/6 by cIAP1/2 is essential for induction of interferon-beta	124 316 115 41 464

## (2010-2010)

1628	promoter stimulator 1. <b>2010</b> , 285, 32064-74	99
1627	The Chlamydia muridarum-induced IFN-晋esponse is TLR3-dependent in murine oviduct epithelial cells. <b>2010</b> , 185, 6689-97	31
1626	A common polymorphism in the caspase recruitment domain of RIG-I modifies the innate immune response of human dendritic cells. <b>2010</b> , 185, 424-32	42
1625	Viral induction of the zinc finger antiviral protein is IRF3-dependent but NF-kappaB-independent. <b>2010</b> , 285, 6080-90	51
1624	Cell type-specific recognition of human metapneumoviruses (HMPVs) by retinoic acid-inducible gene I (RIG-I) and TLR7 and viral interference of RIG-I ligand recognition by HMPV-B1 phosphoprotein. <b>2010</b> , 184, 1168-79	51
1623	Innate immune recognition in infectious and noninfectious diseases of the lung. <b>2010</b> , 181, 1294-309	188
1622	Induction of type I interferon by adenovirus-encoded small RNAs. <b>2010</b> , 107, 17286-91	48
1621	Human cytomegalovirus induces the interferon response via the DNA sensor ZBP1. <b>2010</b> , 84, 585-98	155
1620	Peripheral B cells may serve as a reservoir for persistent hepatitis C virus infection. <b>2010</b> , 2, 607-17	29
1619	Virus-infection or 5'ppp-RNA activates antiviral signal through redistribution of IPS-1 mediated by MFN1. <b>2010</b> , 6, e1001012	131
1618	The IKK Kinases: Operators of Antiviral Signaling. <b>2010</b> , 2, 55-72	14
1617	Virus infection recognition and early innate responses to non-enveloped viral vectors. <b>2010</b> , 2, 244-61	9
1616	Rabies virus infection induces type I interferon production in an IPS-1 dependent manner while dendritic cell activation relies on IFNAR signaling. <b>2010</b> , 6, e1001016	72
1615	Dissociation of paramyxovirus interferon evasion activities: universal and virus-specific requirements for conserved V protein amino acids in MDA5 interference. <b>2010</b> , 84, 11152-63	53
1614	Evasion of the interferon-mediated antiviral response by filoviruses. <b>2010</b> , 2, 262-82	7
1613	Co-ordinated role of TLR3, RIG-I and MDA5 in the innate response to rhinovirus in bronchial epithelium. <b>2010</b> , 6, e1001178	236
1612	Buying time-the immune system determinants of the incubation period to respiratory viruses. <b>2010</b> , 2, 2541-58	19
1611	NF-kappa B RelA subunit is crucial for early IFN-beta expression and resistance to RNA virus replication. <b>2010</b> , 185, 1720-9	99

1610	An accessory to the 'Trinity': SR-As are essential pathogen sensors of extracellular dsRNA, mediating entry and leading to subsequent type I IFN responses. <b>2010</b> , 6, e1000829	97
1609	The 3C protein of enterovirus 71 inhibits retinoid acid-inducible gene I-mediated interferon regulatory factor 3 activation and type I interferon responses. <b>2010</b> , 84, 8051-61	153
1608	Murine gamma-herpesvirus 68 hijacks MAVS and IKKbeta to initiate lytic replication. <b>2010</b> , 6, e1001001	48
1607	Molecular basis for an attenuated cytoplasmic dsRNA response in human embryonic stem cells. <b>2010</b> , 9, 3552-64	46
1606	dsRNA and the innate antiviral immune response. <b>2010</b> , 5, 325-341	26
1605	An unexpected role for RNA in the recognition of DNA by the innate immune system. <b>2010</b> , 7, 151-7	10
1604	Phosphorylation-mediated negative regulation of RIG-I antiviral activity. <b>2010</b> , 84, 3220-9	99
1603	Hepatitis A and hepatitis C viruses: divergent infection outcomes marked by similarities in induction and evasion of interferon responses. <b>2010</b> , 30, 319-32	29
1602	Anticancer function of polyinosinic-polycytidylic acid. <b>2010</b> , 10, 1219-23	82
1601	NF- <b>B</b> and innate immunity. <b>2011</b> , 349, 115-43	93
	NF-B and innate immunity. 2011, 349, 115-43  Rubella virus capsid protein: a small protein with big functions. 2010, 5, 571-84	93
1600	Rubella virus capsid protein: a small protein with big functions. <b>2010</b> , 5, 571-84  Melanoma differentiation-associated gene 5 (MDA5) is involved in the innate immune response to	9
1600 1599	Rubella virus capsid protein: a small protein with big functions. <b>2010</b> , 5, 571-84  Melanoma differentiation-associated gene 5 (MDA5) is involved in the innate immune response to Paramyxoviridae infection in vivo. <b>2010</b> , 6, e1000734	9
1600 1599 1598	Rubella virus capsid protein: a small protein with big functions. <b>2010</b> , 5, 571-84  Melanoma differentiation-associated gene 5 (MDA5) is involved in the innate immune response to Paramyxoviridae infection in vivo. <b>2010</b> , 6, e1000734  Innate immune evasion strategies of influenza viruses. <b>2010</b> , 5, 23-41  Positive regulation of interferon regulatory factor 3 activation by Herc5 via ISG15 modification.	9 98 119
1600 1599 1598 1597	Rubella virus capsid protein: a small protein with big functions. 2010, 5, 571-84  Melanoma differentiation-associated gene 5 (MDA5) is involved in the innate immune response to Paramyxoviridae infection in vivo. 2010, 6, e1000734  Innate immune evasion strategies of influenza viruses. 2010, 5, 23-41  Positive regulation of interferon regulatory factor 3 activation by Herc5 via ISG15 modification. 2010, 30, 2424-36  Respective roles of TLR, RIG-I and NLRP3 in influenza virus infection and immunity: impact on	9 98 119 171
1600 1599 1598 1597 1596	Rubella virus capsid protein: a small protein with big functions. 2010, 5, 571-84  Melanoma differentiation-associated gene 5 (MDA5) is involved in the innate immune response to Paramyxoviridae infection in vivo. 2010, 6, e1000734  Innate immune evasion strategies of influenza viruses. 2010, 5, 23-41  Positive regulation of interferon regulatory factor 3 activation by Herc5 via ISG15 modification. 2010, 30, 2424-36  Respective roles of TLR, RIG-I and NLRP3 in influenza virus infection and immunity: impact on vaccine design. 2010, 9, 1315-24  Advances and challenges in studying hepatitis C virus in its native environment. 2010, 4, 541-50	9 98 119 171 37

1592	The fight between the teleost fish immune response and aquatic viruses. <b>2010</b> , 47, 2525-36	109
1591	Molecular cloning and immune responsive expression of MDA5 gene, a pivotal member of the RLR gene family from grass carp Ctenopharyngodon idella. <b>2010</b> , 28, 712-8	85
1590	Identification and expression profiling analysis of grass carp Ctenopharyngodon idella LGP2 cDNA. <b>2010</b> , 29, 349-55	57
1589	Molecular cloning and antiviral activity of IFN-promoter stimulator-1 (IPS-1) gene in Japanese flounder, Paralichthys olivaceus. <b>2010</b> , 29, 979-86	58
1588	ISG15 and immune diseases. <b>2010</b> , 1802, 485-96	118
1587	Reconstitution of the RIG-I pathway reveals a signaling role of unanchored polyubiquitin chains in innate immunity. <b>2010</b> , 141, 315-30	447
1586	The ubiquitin ligase Riplet is essential for RIG-I-dependent innate immune responses to RNA virus infection. <b>2010</b> , 8, 496-509	178
1585	Identification of the resistance of a novel molecule heat shock protein 90alpha (HSP90alpha) in Microtus fortis to Schistosoma japonicum infection. <b>2010</b> , 115, 220-6	12
1584	Induction and evasion of innate antiviral responses by hepatitis C virus. <b>2010</b> , 285, 22741-7	85
1583	Management of hepatitis C; Report of the Consensus Meeting at the 45th Annual Meeting of the Japan Society of Hepatology (2009). <b>2010</b> , 40, 347-68	37
1582	Retracted article: MAVS protects cells from apoptosis by negatively regulating VDAC1. 2013, 375, 219	7
1581	Ubiquitin-Mediated Regulation of Protein Kinases in NFB Signaling. 2010, 633-644	
1580	Aspartate-glutamate-alanine-histidine box motif (DEAH)/RNA helicase A helicases sense microbial DNA in human plasmacytoid dendritic cells. <b>2010</b> , 107, 15181-6	242
1579	Type I interferon production induced by RIG-I-like receptors. <b>2010</b> , 30, 875-81	24
1578	How the noninflammasome NLRs function in the innate immune system. <b>2010</b> , 327, 286-90	237
1577	RIG-I helicase-independent pathway in sendai virus-activated dendritic cells is critical for preventing lung metastasis of AT6.3 prostate cancer. <b>2010</b> , 12, 906-14	15
1576	Hepatitis C virus non-structural protein 3 (HCV NS3): a multifunctional antiviral target. <b>2010</b> , 285, 22725-31	117
1575	The selective footprints of viral pressures at the human RIG-I-like receptor family. <b>2011</b> , 20, 4462-74	38

1574	Host response to Chikungunya virus and perspectives for immune-based therapies. <b>2011</b> , 6, 975-984	10
1573	NF- <b>B</b> in immunobiology. <b>2011</b> , 21, 223-44	563
1572	Type I interferons: diversity of sources, production pathways and effects on immune responses. <b>2011</b> , 1, 463-75	7 <sup>2</sup>
1571	Cytosolic surveillance and antiviral immunity. <b>2011</b> , 1, 455-62	65
1570	A new role for myeloid HO-1 in the innate to adaptive crosstalk and immune homeostasis. <b>2011</b> , 780, 101-11	21
1569	Intrinsic and extrinsic regulation of innate immune receptors. <b>2011</b> , 52, 379-92	65
1568	Interferon in rabies virus infection. <b>2011</b> , 79, 91-114	27
1567	NF-kB in Health and Disease. <b>2011</b> ,	Ο
1566	Crossroads between Innate and Adaptive Immunity III. 2011,	3
1565	Innate immunity in the respiratory epithelium. <b>2011</b> , 45, 189-201	294
1565 1564		294 19
1564		
1564	Mitochondrion: an emerging platform critical for host antiviral signaling. <b>2011</b> , 15, 647-65	19
1564 1563	Mitochondrion: an emerging platform critical for host antiviral signaling. <b>2011</b> , 15, 647-65  Activation of STAT6 by STING is critical for antiviral innate immunity. <b>2011</b> , 147, 436-46  Structural basis for the activation of innate immune pattern-recognition receptor RIG-I by viral	19 234
1564 1563 1562	Mitochondrion: an emerging platform critical for host antiviral signaling. 2011, 15, 647-65  Activation of STAT6 by STING is critical for antiviral innate immunity. 2011, 147, 436-46  Structural basis for the activation of innate immune pattern-recognition receptor RIG-I by viral RNA. 2011, 147, 423-35  Viral infection augments Nod1/2 signaling to potentiate lethality associated with secondary	19 234 439
1564 1563 1562 1561	Mitochondrion: an emerging platform critical for host antiviral signaling. 2011, 15, 647-65  Activation of STAT6 by STING is critical for antiviral innate immunity. 2011, 147, 436-46  Structural basis for the activation of innate immune pattern-recognition receptor RIG-I by viral RNA. 2011, 147, 423-35  Viral infection augments Nod1/2 signaling to potentiate lethality associated with secondary bacterial infections. 2011, 9, 496-507  Orchestrating the interferon antiviral response through the mitochondrial antiviral signaling	19 234 439 89
1564 1563 1562 1561 1560	Mitochondrion: an emerging platform critical for host antiviral signaling. 2011, 15, 647-65  Activation of STAT6 by STING is critical for antiviral innate immunity. 2011, 147, 436-46  Structural basis for the activation of innate immune pattern-recognition receptor RIG-I by viral RNA. 2011, 147, 423-35  Viral infection augments Nod1/2 signaling to potentiate lethality associated with secondary bacterial infections. 2011, 9, 496-507  Orchestrating the interferon antiviral response through the mitochondrial antiviral signaling (MAVS) adapter. 2011, 23, 564-72  Modulation of innate immune responses during human T-cell leukemia virus (HTLV-1) pathogenesis.	19 234 439 89 170

1556	Expression profiles of carp IRF-3/-7 correlate with the up-regulation of RIG-I/MAVS/TRAF3/TBK1, four pivotal molecules in RIG-I signaling pathway. <b>2011</b> , 30, 1159-69	88
1555	Contribution of IPS-1 to polyI:C-induced cytokine production in conjunctival epithelial cells. <b>2011</b> , 404, 419-23	16
1554	IL-13 suppresses double-stranded RNA-induced IFN-[production in lung cells. <b>2011</b> , 404, 922-7	20
1553	A protein-kinase, IFN-inducible double-stranded RNA dependent inhibitor and repressor of p58 (PRKRIR) enhances type I IFN-mediated antiviral response through the stability control of RIG-I protein. <b>2011</b> , 413, 487-93	4
1552	55 Amino acid linker between helicase and carboxyl terminal domains of RIG-I functions as a critical repression domain and determines inter-domain conformation. <b>2011</b> , 415, 75-81	21
1551	Noninvasive molecular imaging of interferon beta activation in mouse liver. <b>2012</b> , 32, 383-91	2
1550	TLRs, NLRs and RLRs: innate sensors and their impact on allergic diseasesa current view. <b>2011</b> , 139, 14-24	19
1549	Innate immune recognition of an AT-rich stem-loop DNA motif in the Plasmodium falciparum genome. <b>2011</b> , 35, 194-207	201
1548	Mapping a dynamic innate immunity protein interaction network regulating type I interferon production. <b>2011</b> , 35, 426-40	249
1547	Linear ubiquitin assembly complex negatively regulates RIG-I- and TRIM25-mediated type I interferon induction. <b>2011</b> , 41, 354-65	146
1546	The virus-induced signaling adaptor molecule enhances DNA-raised immune protection against H5N1 influenza virus infection in mice. <b>2011</b> , 29, 2561-7	9
1545	Natural products and the search for novel vaccine adjuvants. <b>2011</b> , 29, 6464-71	37
1544	So similar, yet so different: selective translation of capped and polyadenylated viral mRNAs in the influenza virus infected cell. <b>2011</b> , 156, 1-12	18
1543	Identification of the role of RIG-I, MDA-5 and TLR3 in sensing RNA viruses in porcine epithelial cells using lentivirus-driven RNA interference. <b>2011</b> , 159, 9-16	57
1542	Structural basis of RNA recognition and activation by innate immune receptor RIG-I. 2011, 479, 423-7	307
1541	Pathogen recognition by the innate immune system. <b>2011</b> , 30, 16-34	1366
1540	Importance of innate mucosal immunity and the promises it holds. <b>2011</b> , 4, 299-311	13
1539	[Regulation of innate immune responses by nucleic acid analogues]. <b>2011</b> , 61, 141-52	

1538	Induction and function of IFN��during viral and bacterial infection. <b>2011</b> , 31, 459-74	24
1537	. 2011,	2
1536	[Innate immune response to RNA virus infection]. <b>2011</b> , 61, 153-61	3
1535	The IKK-related kinases, unsuspected culprits in oncogenesis?. <b>2011</b> ,	
1534	Regulation of innate immune responses in the central nervous system. <b>2011</b> , 10, 4-24	33
1533	Adenovirus Vector-Derived VA-RNA-Mediated Innate Immune Responses. <b>2011</b> , 3, 338-53	24
1532	The coxsackievirus B 3C protease cleaves MAVS and TRIF to attenuate host type I interferon and apoptotic signaling. <b>2011</b> , 7, e1001311	212
1531	Negative regulation of interferon-thene expression during acute and persistent virus infections. <b>2011</b> , 6, e20681	29
1530	The ubiquitin-like protein PLIC-1 or ubiquilin 1 inhibits TLR3-Trif signaling. <b>2011</b> , 6, e21153	16
1529	A cell-based assay for RNA synthesis by the HCV polymerase reveals new insights on mechanism of polymerase inhibitors and modulation by NS5A. <b>2011</b> , 6, e22575	35
1528	Hepatitis C virus infection suppresses the interferon response in the liver of the human hepatocyte chimeric mouse. <b>2011</b> , 6, e23856	12
1527	Molecular identification of an MHC-independent ligand recognized by a human {alpha}/{beta} T-cell receptor. <b>2011</b> , 117, 4816-25	21
1526	Dissecting host-virus interaction in lytic replication of a model herpesvirus. 2011,	2
1525	Dissection of a type I interferon pathway in controlling bacterial intracellular infection in mice. <b>2011</b> , 13, 1668-82	64
1524	Analysis of interaction of Sendai virus V protein and melanoma differentiation-associated gene 5. <b>2011</b> , 55, 760-7	14
1523	Nonstructural protein 3-4A: the Swiss army knife of hepatitis C virus. <b>2011</b> , 18, 305-15	116
1522	Mitoxosome: a mitochondrial platform for cross-talk between cellular stress and antiviral signaling. <b>2011</b> , 243, 215-34	30
1521	dsRNA sensors and plasmacytoid dendritic cells in host defense and autoimmunity. <b>2011</b> , 243, 74-90	40

1520	Cytoplasmic DNA innate immune pathways. <b>2011</b> , 243, 99-108		178	
1519	RIG-I-like receptors: cytoplasmic sensors for non-self RNA. <b>2011</b> , 243, 91-8		245	
1518	Klotho suppresses RIG-I-mediated senescence-associated inflammation. <b>2011</b> , 13, 254-62		169	
1517	Cardiac glycosides are potent inhibitors of interferon-then expression. <b>2011</b> , 7, 25-33		40	
1516	ZAPS is a potent stimulator of signaling mediated by the RNA helicase RIG-I during antiviral responses. <i>Nature Immunology</i> , <b>2011</b> , 12, 37-44	19.1	140	
1515	Mitochondria in innate immune responses. <b>2011</b> , 11, 389-402		821	
1514	Innate mechanisms of viral recognition. <b>2011</b> , 45, 5-15		12	
1513	Emerging roles for the non-canonical IKKs in cancer. <b>2011</b> , 30, 631-41		105	
1512	Expanding role of ubiquitination in NF- <b>B</b> signaling. <b>2011</b> , 21, 6-21		184	
1511	IRF7: activation, regulation, modification and function. <b>2011</b> , 12, 399-414		288	
1510	cDNA cloning, genomic structure and mRNA expression pattern of porcine type I interferons receptor 2 gene. <b>2011</b> , 38, 339-45		2	
1509	MDA5 is SUMOylated by PIAS2#n the upregulation of type I interferon signaling. <b>2011</b> , 48, 415-22		39	
1508	Sensing sterile injury: opportunities for pharmacological control. <b>2011</b> , 132, 204-14		12	
1507	Do double-stranded RNA receptors play a role in preeclampsia?. <b>2011</b> , 32, 201-5		15	
1506	RNA species generated in vaccinia virus infected cells activate cell type-specific MDA5 or RIG-I dependent interferon gene transcription and PKR dependent apoptosis. <b>2011</b> , 413, 183-93		20	
1505	IRF3 polymorphisms induce different innate anti-Theiler's virus immune responses in RAW264.7 macrophages. <b>2011</b> , 418, 40-8		13	
1504	Mitochondrial localization of viral proteins as a means to subvert host defense. <b>2011</b> , 1813, 575-83		31	
1503	Linear ubiquitination in NF- <b>B</b> signaling and inflammation: What we do understand and what we do not. <b>2011</b> , 82, 1057-65		14	

1502	MAVS forms functional prion-like aggregates to activate and propagate antiviral innate immune response. <b>2011</b> , 146, 448-61	812
1501	Innate immunity and adjuvants. 2011, 366, 2748-55	109
1500	DHX9 pairs with IPS-1 to sense double-stranded RNA in myeloid dendritic cells. <b>2011</b> , 187, 4501-8	132
1499	Mitochondria in innate immunity. <b>2011</b> , 12, 901-10	183
1498	Antagonism of VEGF by genetically engineered dendritic cells is essential to induce antitumor immunity against malignant ascites. <b>2011</b> , 10, 540-9	13
1497	IFN-induced TPR protein IFIT3 potentiates antiviral signaling by bridging MAVS and TBK1. <b>2011</b> , 187, 2559-68	108
1496	Mitochondrial membrane potential is required for MAVS-mediated antiviral signaling. 2011, 4, ra7	170
1495	Nucleic acid recognition by the innate immune system. <b>2011</b> , 29, 185-214	423
1494	Pattern recognition of viral nucleic acids by RIG-I-like helicases. <b>2011</b> , 89, 5-12	17
1493	Antiviral signaling through retinoic acid-inducible gene-I-like receptors. <b>2011</b> , 59, 41-8	16
1492	The STING pathway and regulation of innate immune signaling in response to DNA pathogens. <b>2011</b> , 68, 1157-65	81
1491	NLRX1 negatively regulates TLR-induced NF- <b>B</b> signaling by targeting TRAF6 and IKK. <b>2011</b> , 34, 843-53	206
1490	Caspase work model during pathogen infection. <b>2011</b> , 26, 366-75	6
1489	Retinoic acid inducible gene-I, more than a virus sensor. <b>2011</b> , 2, 351-7	46
1488	FLIP (Flice-like inhibitory protein) suppresses cytoplasmic double-stranded-RNA-induced apoptosis and NF- <b>B</b> and IRF3-mediated signaling. <b>2011</b> , 9, 16	16
1487	Differential utilization of NF-kappaB RELA and RELB in response to extracellular versus intracellular polyIC stimulation in HT1080 cells. <b>2011</b> , 12, 15	7
1486	Inverse association of IL28B genotype and liver mRNA expression of genes promoting or suppressing antiviral state. <b>2011</b> , 83, 1597-607	27
1485	Ribavirin potentiates interferon action by augmenting interferon-stimulated gene induction in hepatitis C virus cell culture models. <b>2011</b> , 53, 32-41	123

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1484	Mitochondrial antiviral signaling protein defect links impaired antiviral response and liver injury in steatohepatitis in mice. <b>2011</b> , 53, 1917-31	34
1483	A loss-of-function variant of the antiviral molecule MAVS is associated with a subset of systemic lupus patients. <b>2011</b> , 3, 142-52	78
1482	RIG-I RNA helicase activation of IRF3 transcription factor is negatively regulated by caspase-8-mediated cleavage of the RIP1 protein. <b>2011</b> , 34, 340-51	156
1481	NLRX1 protein attenuates inflammatory responses to infection by interfering with the RIG-I-MAVS and TRAF6-NF- <b>B</b> signaling pathways. <b>2011</b> , 34, 854-65	266
1480	DDX1, DDX21, and DHX36 helicases form a complex with the adaptor molecule TRIF to sense dsRNA in dendritic cells. <b>2011</b> , 34, 866-78	259
1479	Immune signaling by RIG-I-like receptors. <b>2011</b> , 34, 680-92	1223
1478	Mitochondria and viruses. <b>2011</b> , 11, 1-12	67
1477	Essential role of B7-H1 in double-stranded RNA-induced augmentation of an asthma phenotype in mice. <b>2011</b> , 45, 31-9	9
1476	Human influenza is more effective than avian influenza at antiviral suppression in airway cells. <b>2011</b> , 44, 906-13	28
1475	DDX60, a DEXD/H box helicase, is a novel antiviral factor promoting RIG-I-like receptor-mediated signaling. <b>2011</b> , 31, 3802-19	178
1474	Cleavage of the adaptor protein TRIF by enterovirus 71 3C inhibits antiviral responses mediated by Toll-like receptor 3. <b>2011</b> , 85, 8811-8	150
1473	Retinoic acid-induced gene-I (RIG-I) associates with nucleotide-binding oligomerization domain-2 (NOD2) to negatively regulate inflammatory signaling. <b>2011</b> , 286, 28574-83	37
1472	The C proteins of human parainfluenza virus type 1 limit double-stranded RNA accumulation that would otherwise trigger activation of MDA5 and protein kinase R. <b>2011</b> , 85, 1495-506	42
1471	Interplay between innate immunity and negative-strand RNA viruses: towards a rational model. <b>2011</b> , 75, 468-90, second page of table of contents	74
1470	Expression and functional characterization of the RIG-I-like receptors MDA5 and LGP2 in Rainbow trout (Oncorhynchus mykiss). <b>2011</b> , 85, 8403-12	171
1469	Inhibition of RIG-I-mediated signaling by Kaposi's sarcoma-associated herpesvirus-encoded deubiquitinase ORF64. <b>2011</b> , 85, 10899-904	120
1468	Vesicular stomatitis virus expressing tumor suppressor p53 is a highly attenuated, potent oncolytic agent. <b>2011</b> , 85, 10440-50	33
1467	The early interferon response to rotavirus is regulated by PKR and depends on MAVS/IPS-1, RIG-I, MDA-5, and IRF3. <b>2011</b> , 85, 3717-32	102

1466	Viral myocarditis: potential defense mechanisms within the cardiomyocyte against virus infection. <b>2011</b> , 6, 551-66	53
1465	Multiple functional domains and complexes of the two nonstructural proteins of human respiratory syncytial virus contribute to interferon suppression and cellular location. <b>2011</b> , 85, 10090-100	65
1464	A novel kinase inhibitor of FADD phosphorylation chemosensitizes through the inhibition of NF- <b>B</b> . <b>2011</b> , 10, 1807-17	14
1463	Hepatitis B virus regulatory HBx protein binds to adaptor protein IPS-1 and inhibits the activation of beta interferon. <b>2011</b> , 85, 987-95	102
1462	The IRF-3/Bax-mediated apoptotic pathway, activated by viral cytoplasmic RNA and DNA, inhibits virus replication. <b>2011</b> , 85, 3708-16	70
1461	A functional C-terminal TRAF3-binding site in MAVS participates in positive and negative regulation of the IFN antiviral response. <b>2011</b> , 21, 895-910	96
1460	RA-inducible gene-I induction augments STAT1 activation to inhibit leukemia cell proliferation. <b>2011</b> , 108, 1897-902	64
1459	MIP-T3 is a negative regulator of innate type I IFN response. <b>2011</b> , 187, 6473-82	39
1458	Hiding from intracellular pattern recognition receptors, a passive strategy of flavivirus immune evasion. <b>2011</b> , 2, 238-40	18
1457	Cross-protective immunity against influenza virus infections induced by intranasal vaccination together with a TLR3-mucosal adjuvant. <b>2011</b> , 7 Suppl, 174-82	3
1456	Unmasking the active helicase conformation of nonstructural protein 3 from hepatitis C virus. <b>2011</b> , 85, 4343-53	25
1455	Molecular mechanism of signal perception and integration by the innate immune sensor retinoic acid-inducible gene-I (RIG-I). <b>2011</b> , 286, 27278-87	92
1454	Peroxisome proliferator-activated receptor gamma negatively regulates IFN-beta production in Toll-like receptor (TLR) 3- and TLR4-stimulated macrophages by preventing interferon regulatory factor 3 binding to the IFN-beta promoter. <b>2011</b> , 286, 5519-28	51
1453	ARF-like protein 16 (ARL16) inhibits RIG-I by binding with its C-terminal domain in a GTP-dependent manner. <b>2011</b> , 286, 10568-80	19
1452	ABIN1 protein cooperates with TAX1BP1 and A20 proteins to inhibit antiviral signaling. <b>2011</b> , 286, 36592-602	58
1451	Raftlin is involved in the nucleocapture complex to induce poly(I:C)-mediated TLR3 activation. <b>2011</b> , 286, 10702-11	56
1450	Fas-associated death domain (FADD) and the E3 ubiquitin-protein ligase TRIM21 interact to negatively regulate virus-induced interferon production. <b>2011</b> , 286, 6521-31	49
1449	Retinoic acid-inducible gene I-inducible miR-23b inhibits infections by minor group rhinoviruses through down-regulation of the very low density lipoprotein receptor. <b>2011</b> , 286, 26210-9	37

1448	TLR7/9 versus TLR3/MDA5 signaling during virus infections and diabetes. <b>2011</b> , 90, 691-701	28
1447	Mitochondrial antiviral signaling protein (MAVS) monitors commensal bacteria and induces an immune response that prevents experimental colitis. <b>2011</b> , 108, 17390-5	67
1446	Human T cell leukemia virus type 1 Tax inhibits innate antiviral signaling via NF-kappaB-dependent induction of SOCS1. <b>2011</b> , 85, 6955-62	51
1445	The inducible kinase IKKi is required for IL-17-dependent signaling associated with neutrophilia and pulmonary inflammation. <i>Nature Immunology</i> , <b>2011</b> , 12, 844-52	152
1444	Chikungunya virus induces IPS-1-dependent innate immune activation and protein kinase R-independent translational shutoff. <b>2011</b> , 85, 606-20	101
1443	RIG-I-mediated antiviral signaling is inhibited in HIV-1 infection by a protease-mediated sequestration of RIG-I. <b>2011</b> , 85, 1224-36	139
1442	The C-terminal 42 residues of the Tula virus Gn protein regulate interferon induction. <b>2011</b> , 85, 4752-60	29
1441	RIG-I, MDA5 and TLR3 synergistically play an important role in restriction of dengue virus infection. <b>2011</b> , 5, e926	212
1440	Induction of innate immune responses by SIV in vivo and in vitro: differential expression and function of RIG-I and MDA5. <b>2011</b> , 204, 1104-14	15
1439	Vaccinia virus protein C6 is a virulence factor that binds TBK-1 adaptor proteins and inhibits activation of IRF3 and IRF7. <b>2011</b> , 7, e1002247	108
1438	Norovirus regulation of the innate immune response and apoptosis occurs via the product of the alternative open reading frame 4. <b>2011</b> , 7, e1002413	167
1437	RIG-I/MDA5/MAVS are required to signal a protective IFN response in rotavirus-infected intestinal epithelium. <b>2011</b> , 186, 1618-26	159
1436	Innate sensing of HIV-infected cells. <b>2011</b> , 7, e1001284	160
1435	Murine gamma herpesvirus 68 hijacks MAVS and IKKto abrogate NFB activation and antiviral cytokine production. <b>2011</b> , 7, e1002336	31
1434	A20 (Tnfaip3) deficiency in myeloid cells protects against influenza A virus infection. <b>2012</b> , 8, e1002570	60
1433	VISA is required for B cell expression of TLR7. <b>2012</b> , 188, 248-58	14
1432	Interferon regulator factor 1/retinoic inducible gene I (IRF1/RIG-I) axis mediates 25-hydroxycholesterol-induced interleukin-8 production in atherosclerosis. <b>2012</b> , 93, 190-9	29
1431	COX5B regulates MAVS-mediated antiviral signaling through interaction with ATG5 and repressing ROS production. <b>2012</b> , 8, e1003086	91

1430	MDA5 cooperatively forms dimers and ATP-sensitive filaments upon binding double-stranded RNA. <b>2012</b> , 31, 1714-26	136
1429	Proteomic profiling of the TRAF3 interactome network reveals a new role for the ER-to-Golgi transport compartments in innate immunity. <b>2012</b> , 8, e1002747	42
1428	Uridine composition of the poly-U/UC tract of HCV RNA defines non-self recognition by RIG-I. <b>2012</b> , 8, e1002839	76
1427	Role of microglia in oxidative toxicity associated with encephalomycarditis virus infection in the central nervous system. <b>2012</b> , 13, 7365-74	6
1426	Human metapneumovirus antagonism of innate immune responses. <b>2012</b> , 4, 3551-71	15
1425	Dengue virus targets the adaptor protein MITA to subvert host innate immunity. <b>2012</b> , 8, e1002780	191
1424	Recent progress in studies of arterivirus- and coronavirus-host interactions. <b>2012</b> , 4, 980-1010	42
1423	IAPs, TNF, inflammation and JEg Tschopp; a personal perspective. <b>2012</b> , 19, 1-4	7
1422	Stochastic expression of the interferon-gene. <b>2012</b> , 10, e1001249	85
1421	dsRNA-dependent protein kinase PKR and its role in stress, signaling and HCV infection. <b>2012</b> , 4, 2598-635	115
1421 1420	dsRNA-dependent protein kinase PKR and its role in stress, signaling and HCV infection. <b>2012</b> , 4, 2598-635  The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. <b>2012</b> , 109, E613-21	<ul><li>115</li><li>65</li></ul>
· .	The protein kinase Akt1 regulates the interferon response through phosphorylation of the	
1420	The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. <b>2012</b> , 109, E613-21  Conventional protein kinase C-{PKC-}and PKC-hegatively regulate RIG-I antiviral signal	65
1420 1419	The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. <b>2012</b> , 109, E613-21  Conventional protein kinase C-{{PKC-}} and PKC-{hegatively regulate RIG-I antiviral signal transduction. <b>2012</b> , 86, 1358-71	65
1420 1419 1418	The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. 2012, 109, E613-21  Conventional protein kinase C-{{PKC-}} and PKC-{{h}} egatively regulate RIG-I antiviral signal transduction. 2012, 86, 1358-71  Recent advances on nanomaterials as vaccine carriers and adjuvants for major diseases. 2012, 57, 2341-2353  Double-stranded RNA induces biphasic STAT1 phosphorylation by both type I interferon	65 84
1420 1419 1418	The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. 2012, 109, E613-21  Conventional protein kinase C-{PKC-}and PKC-hegatively regulate RIG-I antiviral signal transduction. 2012, 86, 1358-71  Recent advances on nanomaterials as vaccine carriers and adjuvants for major diseases. 2012, 57, 2341-2353  Double-stranded RNA induces biphasic STAT1 phosphorylation by both type I interferon (IFN)-dependent and type I IFN-independent pathways. 2012, 86, 12760-9  Differential impact of interferon regulatory factor 7 in initiation of the type I interferon response in the lymphocytic choriomeningitis virus-infected central nervous system versus the periphery. 2012,	65 84 28
1420 1419 1418 1417	The protein kinase Akt1 regulates the interferon response through phosphorylation of the transcriptional repressor EMSY. 2012, 109, E613-21  Conventional protein kinase C-{{PKC-}} and PKC-{{hegatively regulate RIG-I antiviral signal transduction. 2012, 86, 1358-71}  Recent advances on nanomaterials as vaccine carriers and adjuvants for major diseases. 2012, 57, 2341-2353  Double-stranded RNA induces biphasic STAT1 phosphorylation by both type I interferon (IFN)-dependent and type I IFN-independent pathways. 2012, 86, 12760-9  Differential impact of interferon regulatory factor 7 in initiation of the type I interferon response in the lymphocytic choriomeningitis virus-infected central nervous system versus the periphery. 2012, 86, 7384-92  LSm14A is a processing body-associated sensor of viral nucleic acids that initiates cellular antiviral	65 84 28

### (2012-2012)

1412	Recognition of viruses in the cytoplasm by RLRs and other helicaseshow conformational changes, mitochondrial dynamics and ubiquitination control innate immune responses. <b>2012</b> , 24, 739-49	14
1411	Caspase-8 and FLIP regulate RIG-I/MDA5-induced innate immune host responses to picornaviruses. <b>2012</b> , 7, 1221-1236	12
1410	IL-6 induced by double-stranded RNA augments allergic inflammation via suppression of Foxp3+T-cell/IL-10 axis. <b>2012</b> , 46, 740-7	8
1409	Ubiquitin-mediated modulation of the cytoplasmic viral RNA sensor RIG-I. <b>2012</b> , 151, 5-11	54
1408	STING mediates neuronal innate immune response following Japanese encephalitis virus infection. <b>2012</b> , 2, 347	73
1407	Viral double-stranded RNA sensors induce antiviral, pro-inflammatory, and pro-apoptotic responses in human renal tubular epithelial cells. <b>2012</b> , 82, 664-75	12
1406	Characterization of a PIAS4 homologue from zebrafish: insights into its conserved negative regulatory mechanism in the TRIF, MAVS, and IFN signaling pathways during vertebrate evolution. <b>2012</b> , 188, 2653-68	34
1405	Tripartite motif-containing protein 38 negatively regulates TLR3/4- and RIG-I-mediated IFN-⊞ production and antiviral response by targeting NAP1. <b>2012</b> , 188, 5311-8	62
1404	Arenavirus nucleoproteins prevent activation of nuclear factor kappa B. <b>2012</b> , 86, 8185-97	70
1403	Herpes simplex virus 1 tegument protein US11 downmodulates the RLR signaling pathway via direct interaction with RIG-I and MDA-5. <b>2012</b> , 86, 3528-40	109
1402	Apoptosis induced by mammalian reovirus is beta interferon (IFN) independent and enhanced by IFN regulatory factor 3- and NF- <b>B</b> -dependent expression of Noxa. <b>2012</b> , 86, 1650-60	41
1401	Protein kinase PKR amplification of interferon #Induction occurs through initiation factor eIF-2#mediated translational control. <b>2012</b> , 287, 36384-92	57
1400	Listeria monocytogenes strain-specific impairment of the TetR regulator underlies the drastic increase in cyclic di-AMP secretion and beta interferon-inducing ability. <b>2012</b> , 80, 2323-32	34
1399	Chicken cells sense influenza A virus infection through MDA5 and CARDIF signaling involving LGP2. <b>2012</b> , 86, 705-17	141
1398	LGP2 downregulates interferon production during infection with seasonal human influenza A viruses that activate interferon regulatory factor 3. <b>2012</b> , 86, 10733-8	25
1397	Smad2 and Smad3 are redundantly essential for the suppression of iNOS synthesis in macrophages by regulating IRF3 and STAT1 pathways. <b>2012</b> , 24, 253-65	37
1396	Sensing of RNA viruses: a review of innate immune receptors involved in recognizing RNA virus invasion. <b>2012</b> , 86, 2900-10	389
	Sensing and control of bluetongue virus infection in epithelial cells via RIG-I and MDA5 helicases.	

1394	Nipah and hendra virus interactions with the innate immune system. <b>2012</b> , 359, 123-52	40
1393	Melanoma differentiation-associated gene 5 is critical for protection against Theiler's virus-induced demyelinating disease. <b>2012</b> , 86, 1531-43	30
1392	Emerging role of ubiquitination in antiviral RIG-I signaling. <b>2012</b> , 76, 33-45	75
1391	Poly(C)-binding protein 1 (PCBP1) mediates housekeeping degradation of mitochondrial antiviral signaling (MAVS). <b>2012</b> , 22, 717-27	47
1390	STING specifies IRF3 phosphorylation by TBK1 in the cytosolic DNA signaling pathway. <b>2012</b> , 5, ra20	636
1389	Arenavirus nucleoprotein targets interferon regulatory factor-activating kinase IKK[]2012, 86, 7728-38	95
1388	IB kinase Edependent phosphorylation and degradation of X-linked inhibitor of apoptosis sensitizes cells to virus-induced apoptosis. <b>2012</b> , 86, 726-37	26
1387	Control of innate immune signaling and membrane targeting by the Hepatitis C virus NS3/4A protease are governed by the NS3 helix <b>B</b> . <b>2012</b> , 86, 3112-20	38
1386	[Chinese herbal medicines to inhibit the replication of influenza viruses]. <b>2012</b> , 140, 62-5	2
1385	IPS-1 signaling has a nonredundant role in mediating antiviral responses and the clearance of respiratory syncytial virus. <b>2012</b> , 189, 5942-53	39
1384	A structure-based model of RIG-I activation. <b>2012</b> , 18, 2118-27	107
1383	Defining the subcellular sites of innate immune signal transduction. <b>2012</b> , 33, 442-8	35
1382	Behaviour of influenza A viruses differentially expressing segment 2 gene products in vitro and in vivo. <b>2012</b> , 93, 840-849	25
1381	Foot-and-mouth disease virus 3C protease cleaves NEMO to impair innate immune signaling. <b>2012</b> , 86, 9311-22	110
1380	Linear ubiquitination of NEMO negatively regulates the interferon antiviral response through disruption of the MAVS-TRAF3 complex. <b>2012</b> , 12, 211-22	86
1379	HIV-1, interferon and the interferon regulatory factor system: an interplay between induction, antiviral responses and viral evasion. <b>2012</b> , 23, 255-70	35
1378	PPM1B negatively regulates antiviral response via dephosphorylating TBK1. <b>2012</b> , 24, 2197-204	51
1377	Repressed induction of interferon-related microRNAs miR-146a and miR-155 in peripheral blood mononuclear cells infected with HCV genotype 4. <b>2012</b> , 2, 179-86	26

### (2012-2012)

1376	Global gene expression analysis in skin biopsies of European red deer experimentally infected with bluetongue virus serotypes 1 and 8. <b>2012</b> , 161, 26-35	3
1375	UXT-V1 facilitates the formation of MAVS antiviral signalosome on mitochondria. <b>2012</b> , 188, 358-66	24
1374	Henipavirus. <b>2012</b> ,	7
1373	Identification of multiple RIG-I-specific pathogen associated molecular patterns within the West Nile virus genome and antigenome. <b>2012</b> , 432, 232-8	20
1372	C-type lectin receptor-induced NF- <b>B</b> activation in innate immune and inflammatory responses. <b>2012</b> , 9, 105-12	126
1371	Pattern recognition receptors: sentinels in innate immunity and targets of new vaccine adjuvants. <b>2012</b> , 11, 237-56	98
1370	The mitochondrial proteins NLRX1 and TUFM form a complex that regulates type I interferon and autophagy. <b>2012</b> , 36, 933-46	199
1369	Type-I IFN signaling is required for the induction of antigen-specific CD8(+) T cell responses by adenovirus vector vaccine in the gut-mucosa. <b>2012</b> , 425, 89-93	7
1368	Mitochondrial anti-viral immunity. <b>2012</b> , 44, 1473-6	20
1367	Interferon signaling in the liver during hepatitis C virus infection. <b>2012</b> , 59, 460-6	10
1366	Focal adhesion kinase is a component of antiviral RIG-I-like receptor signaling. 2012, 11, 153-66	34
1365	Mitochondria: commanders of innate immunity and disease?. <b>2012</b> , 24, 32-40	75
1364	Ndfip1 negatively regulates RIG-I-dependent immune signaling by enhancing E3 ligase Smurf1-mediated MAVS degradation. <b>2012</b> , 189, 5304-13	80
1363	Hepatitis C virus NS3/4A protease blocks IL-28 production. <b>2012</b> , 42, 2374-82	32
1362	Deciphering the differential response of two human fibroblast cell lines following Chikungunya virus infection. <b>2012</b> , 9, 213	25
1361	Over-expression of mitochondrial antiviral signaling protein inhibits coxsackievirus B3 infection by enhancing type-I interferons production. <b>2012</b> , 9, 312	7
1360	Mitochondria and cell signalling. <b>2012</b> , 125, 807-15	264
1359	A virological view of innate immune recognition. <b>2012</b> , 66, 177-96	129

1358	Cytosolic RIG-I-like helicases act as negative regulators of sterile inflammation in the CNS. <b>2011</b> , 15, 98-106	54
1357	Innate Immune Signaling and Negative Regulators in Cancer. <b>2012</b> , 61-88	1
1356	Induction of type I IFNs by intracellular DNA-sensing pathways. <b>2012</b> , 90, 474-82	61
1355	Polycation-based nanoparticle delivery of RNAi therapeutics: adverse effects and solutions. <b>2012</b> , 64, 1717-29	120
1354	Rhinovirus 16-induced IFN-land IFN-lare deficient in bronchoalveolar lavage cells in asthmatic patients. <b>2012</b> , 129, 1506-1514.e6	156
1353	Thymic stromal lymphopoietin is induced by respiratory syncytial virus-infected airway epithelial cells and promotes a type 2 response to infection. <b>2012</b> , 130, 1187-1196.e5	127
1352	Rotavirus-host cell interactions: an arms race. <b>2012</b> , 2, 389-98	14
1351	Ocular surface inflammation is regulated by innate immunity. <b>2012</b> , 31, 551-75	65
1350	Non-apoptotic functions of cell death effectors in inflammation and innate immunity. <b>2012</b> , 14, 1241-53	4
1349	Activation of RIG-I-like receptor signal transduction. <b>2012</b> , 47, 194-206	66
1348	Activation and Inhibition of JAK-STAT Signal Transduction by RNA Viruses. <b>2012</b> , 371-385	
1347	Poly I:C-induced tumor cell apoptosis mediated by pattern-recognition receptors. <b>2012</b> , 27, 530-4	19
1346	5,6-Dimethylxanthenone-4-acetic acid (DMXAA) activates stimulator of interferon gene (STING)-dependent innate immune pathways and is regulated by mitochondrial membrane potential. <b>2012</b> , 287, 39776-88	127
1345	TRIM proteins and the innate immune response to viruses. <b>2012</b> , 770, 93-104	12
1344	Innate Immune Regulation and Cancer Immunotherapy. 2012,	3
1343	Convergent evolution of escape from hepaciviral antagonism in primates. <b>2012</b> , 10, e1001282	79
1342	Identification of DreI as an antiviral factor regulated by RLR signaling pathway. 2012, 7, e32427	23
1341	Regulation of interferon- May MAGI-1 and its interaction with influenza A virus NS1 protein with ESEV PBM. <b>2012</b> , 7, e41251	16

1340	Identification of tyrosine-9 of MAVS as critical target for inducible phosphorylation that determines activation. <b>2012</b> , 7, e41687		14	
1339	Poly I:C enhances susceptibility to secondary pulmonary infections by gram-positive bacteria. <b>2012</b> , 7, e41879		60	
1338	Foreign RNA induces the degradation of mitochondrial antiviral signaling protein (MAVS): the role of intracellular antiviral factors. <b>2012</b> , 7, e45136		7	
1337	TRIM38 negatively regulates TLR3-mediated IFN-вignaling by targeting TRIF for degradation. <b>2012</b> , 7, e46825		56	
1336	Both STING and MAVS fish orthologs contribute to the induction of interferon mediated by RIG-I. <b>2012</b> , 7, e47737		73	
1335	LGP2 expression is enhanced by interferon regulatory factor 3 in olive flounder, Paralichthys olivaceus. <b>2012</b> , 7, e51522		14	
1334	Hantavirus regulation of type I interferon responses. <b>2012</b> , 2012, 524024		27	
1333	Viral infection: an evolving insight into the signal transduction pathways responsible for the innate immune response. <b>2012</b> , 2012, 131457		6	
1332	Pathogen Strategies to Evade Innate Immune Response: A Signaling Point of View. <b>2012</b> ,		2	
1331	Phenylmethimazole blocks dsRNA-induced IRF3 nuclear translocation and homodimerization. <b>2012</b> , 17, 12365-77		9	
1330	Type I interferons as ambiguous modulators of chronic inflammation in the central nervous system. <b>2012</b> , 3, 67		25	
1329	DNA-dependent activator of interferon-regulatory factors inhibits hepatitis B virus replication. <b>2012</b> , 18, 2850-8		15	
1328	Innate and adaptive immune responses against picornaviruses and their counteractions: An overview. <b>2012</b> , 1, 91-107		27	
1327	Viral product trafficking to mitochondria, mechanisms and roles in pathogenesis. <b>2012</b> , 12, 18-37		22	
1326	Sensing herpes: more than toll. <b>2012</b> , 22, 106-21		24	
1325	MAVS ubiquitination by the E3 ligase TRIM25 and degradation by the proteasome is involved in type I interferon production after activation of the antiviral RIG-I-like receptors. <b>2012</b> , 10, 44		140	
1324	Intrinsic antiviral immunity. <i>Nature Immunology</i> , <b>2012</b> , 13, 214-22	19.1	346	
1323	Intracellular inflammatory sensors for foreign invaders and substances of self-origin. <b>2012</b> , 738, 60-78		4	

1322	Into the eye of the cytokine storm. <b>2012</b> , 76, 16-32	1083
1321	Isoflavone agonists of IRF-3 dependent signaling have antiviral activity against RNA viruses. <b>2012</b> , 86, 7334-44	41
1320	Targeting pattern recognition receptors in cancer immunotherapy. <b>2012</b> , 7, 29-54	100
1319	Interaction of Hepatitis C virus proteins with pattern recognition receptors. <b>2012</b> , 9, 126	45
1318	Ankrd17 positively regulates RIG-I-like receptor (RLR)-mediated immune signaling. <b>2012</b> , 42, 1304-15	18
1317	Major vault protein: a virus-induced host factor against viral replication through the induction of type-I interferon. <b>2012</b> , 56, 57-66	51
1316	Genetics of IL28B and HCVresponse to infection and treatment. <b>2012</b> , 9, 406-17	86
1315	Molecular cloning and expression analysis of IFN-promoter stimulator 1 in Tibetan pigs. <b>2012</b> , 39, 7011-7	2
1314	ISG60 negatively regulates cell antiviral responses by disrupting the VISA-associated complexes. <b>2012</b> , 17, 1-6	5
1313	Viral interference with innate immunity by preventing NF-B activity. 2012, 14, 168-81	39
1312	The role of ubiquitylation in immune defence and pathogen evasion. <b>2011</b> , 12, 35-48	221
1311	Regulation of cell signaling and porcine reproductive and respiratory syndrome virus. 2012, 24, 973-80	10
1310	Characterization of chicken melanoma differentiation-associated gene 5 (MDA5) from alternative translation initiation. <b>2012</b> , 35, 335-43	20
1309	Regulation of RLR-mediated innate immune signalingit is all about keeping the balance. <b>2012</b> , 91, 36-47	79
1308	From virus to inflammation: mechanisms of RIG-I-induced IL-1#production. <b>2012</b> , 91, 59-64	34
1307	Sensing of viral nucleic acids by RIG-I: from translocation to translation. <b>2012</b> , 91, 78-85	32
1306	The complement C1qA enhances retinoic acid-inducible gene-I-mediated immune signalling. <b>2012</b> , 136, 78-85	12
1305	Ubiquitination in signaling to and activation of IKK. <b>2012</b> , 246, 95-106	282

1304	Regulation of NF-B by the CARD proteins. 2012, 246, 141-53	62
1303	Association of gene expression involving innate immunity and genetic variation in interleukin 28B with antiviral response. <b>2012</b> , 55, 20-9	52
1302	Heat shock cognate 71 (HSC71) regulates cellular antiviral response by impairing formation of VISA aggregates. <b>2013</b> , 4, 373-82	12
1301	Structural and biochemical studies of RIG-I antiviral signaling. <b>2013</b> , 4, 142-54	18
1300	The essential adaptors of innate immune signaling. <b>2013</b> , 4, 27-39	58
1299	BVDV: a pestivirus inducing tolerance of the innate immune response. <b>2013</b> , 41, 39-51	56
1298	Polyinosinic:polycytidylic acid loading onto different generations of PAMAM dendrimer-coated magnetic nanoparticles. <b>2013</b> , 15, 1	2
1297	Peroxisomes and their Key Role in Cellular Signaling and Metabolism. 2013,	12
1296	Viral degradasome hijacks mitochondria to suppress innate immunity. <b>2013</b> , 23, 1025-42	66
1295	Chembiomolecular Science. 2013,	
1295	Chembiomolecular Science. 2013,  Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. 2013, 14, 28	4
	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a	4
1294	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. <b>2013</b> , 14, 28  Increased mitochondrial functions in human glioblastoma cells persistently infected with measles	
1294	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. <b>2013</b> , 14, 28  Increased mitochondrial functions in human glioblastoma cells persistently infected with measles virus. <b>2013</b> , 99, 238-44	6
1294 1293 1292	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. 2013, 14, 28  Increased mitochondrial functions in human glioblastoma cells persistently infected with measles virus. 2013, 99, 238-44  Structural insights into the functions of TBK1 in innate antimicrobial immunity. 2013, 21, 1137-48	6
1294 1293 1292 1291 1290	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. 2013, 14, 28  Increased mitochondrial functions in human glioblastoma cells persistently infected with measles virus. 2013, 99, 238-44  Structural insights into the functions of TBK1 in innate antimicrobial immunity. 2013, 21, 1137-48  Autophagy and Cancer. 2013,  Innate immunity of finfish: primordial conservation and function of viral RNA sensors in teleosts.	6 67 4
1294 1293 1292 1291 1290	Mast cells contribute to double-stranded RNA-induced augmentation of airway eosinophilia in a murine model of asthma. 2013, 14, 28  Increased mitochondrial functions in human glioblastoma cells persistently infected with measles virus. 2013, 99, 238-44  Structural insights into the functions of TBK1 in innate antimicrobial immunity. 2013, 21, 1137-48  Autophagy and Cancer. 2013,  Innate immunity of finfish: primordial conservation and function of viral RNA sensors in teleosts. 2013, 35, 1689-702	6 67 4 64

1286	The transcription factor IRF3 triggers "defensive suicide" necrosis in response to viral and bacterial pathogens. <b>2013</b> , 3, 1840-6		55
1285	Type I interferon and lymphangiogenesis in the HSV-1 infected cornea - are they beneficial to the host?. <b>2013</b> , 36, 281-91		16
1284	Strategies of highly pathogenic RNA viruses to block dsRNA detection by RIG-I-like receptors: hide, mask, hit. <b>2013</b> , 100, 615-35		61
1283	Mitochondrial protein mitofusin 2 is required for NLRP3 inflammasome activation after RNA virus infection. <b>2013</b> , 110, 17963-8		167
1282	Poly(I:C) inhibits porcine reproductive and respiratory syndrome virus replication in MARC-145 cells via activation of IFIT3. <b>2013</b> , 99, 197-206		35
1281	Mechanisms of MAVS regulation at the mitochondrial membrane. <b>2013</b> , 425, 5009-19		128
<b>12</b> 80	ELF4 is critical for induction of type I interferon and the host antiviral response. <i>Nature Immunology</i> , <b>2013</b> , 14, 1237-46	19.1	65
1279	Innate Immune Signaling by, and Genetic Adjuvants for DNA Vaccination. 2013, 1, 278-92		28
1278	Functional RIG-I-like receptors control the survival of mesenchymal stem cells. 2013, 4, e967		25
1277	Relevance of signaling molecules for apoptosis induction on influenza A virus replication. <b>2013</b> , 441, 531-7		32
1276	Type I interferon in neurological disease-the devil from within. <b>2013</b> , 24, 257-67		32
1275	Generation and culture of mouse embryonic fibroblasts. <b>2013</b> , 1031, 59-64		9
1274	DExD/H-box RNA helicases as mediators of anti-viral innate immunity and essential host factors for viral replication. <b>2013</b> , 1829, 854-65		121
1273	Classical swine fever virus triggers RIG-I and MDA5-dependent signaling pathway to IRF-3 and NF- <b>B</b> activation to promote secretion of interferon and inflammatory cytokines in porcine alveolar macrophages. <b>2013</b> , 10, 286		29
1272	Innate immune response to arenaviral infection: a focus on the highly pathogenic New World hemorrhagic arenaviruses. <b>2013</b> , 425, 4893-903		19
1271	Systematic analysis of the mechanisms of virus-triggered type I IFN signaling pathways through mathematical modeling. <b>2013</b> , 10, 771-9		8
<b>127</b> 0	Essential role of RIG-I in the activation of endothelial cells by dengue virus. 2013, 435, 281-92		45
1269	Innate immunity and HCV. <b>2013</b> , 58, 564-74		113

# (2013-2013)

1268	Hepatitis C virus NS4B protein targets STING and abrogates RIG-I-mediated type I interferon-dependent innate immunity. <b>2013</b> , 57, 46-58	104
1267	Hepatitis C virus NS2 protease inhibits host cell antiviral response by inhibiting IKKland TBK1 functions. <b>2013</b> , 85, 71-82	39
1266	Correlation between grass carp (Ctenopharyngodon idella) resistance to grass carp reovirus and the genetic insert-deletion polymorphisms in promoter and intron of RIG-I gene. <b>2013</b> , 516, 320-7	9
1265	Functional characterization of porcine LSm14A in IFN-#nduction. <b>2013</b> , 155, 110-6	6
1264	DDB1 is a cellular substrate of NS3/4A protease and required for hepatitis C virus replication. <b>2013</b> , 435, 385-94	17
1263	The protective effects of lactoferrin against murine norovirus infection through inhibition of both viral attachment and replication. <b>2013</b> , 434, 791-6	29
1262	Human bocavirus VP2 upregulates IFN-pathway by inhibiting ring finger protein 125-mediated ubiquitination of retinoic acid-inducible gene-I. <b>2013</b> , 191, 660-9	22
1261	USP4 positively regulates RIG-I-mediated antiviral response through deubiquitination and stabilization of RIG-I. <b>2013</b> , 87, 4507-15	75
1260	Negative regulation of RIG-I-mediated antiviral signaling by TRK-fused gene (TFG) protein. <b>2013</b> , 437, 168-72	6
1259	Genomic sequence comparison, promoter activity, SNP detection of RIG-I gene and association with resistance/susceptibility to grass carp reovirus in grass carp (Ctenopharyngodon idella). <b>2013</b> , 39, 333-42	14
1258	Master sensors of pathogenic RNA - RIG-I like receptors. <b>2013</b> , 218, 1322-35	160
1257	UBXN1 interferes with Rig-I-like receptor-mediated antiviral immune response by targeting MAVS. <b>2013</b> , 3, 1057-70	43
1256	Innate immune responses to DNA viruses. <b>2013</b> , 4, 1-7	26
1255	Dephosphorylation of the RNA sensors RIG-I and MDA5 by the phosphatase PP1 is essential for innate immune signaling. <b>2013</b> , 38, 437-49	215
1254	Innate immune responses to hepatitis C virus. <b>2013</b> , 369, 219-42	34
1253	The adaptor MAVS promotes NLRP3 mitochondrial localization and inflammasome activation. <b>2013</b> , 153, 348-61	412
1252	Poly IC triggers a cathepsin D- and IPS-1-dependent pathway to enhance cytokine production and mediate dendritic cell necroptosis. <b>2013</b> , 38, 717-28	56
1251	Genetic structure, polymorphism identification of LGP2 gene and their relationship with the resistance/susceptibility to GCRV in grass carp, Ctenopharyngodon idella. <b>2013</b> , 521, 166-75	15

1250	Intracellular pathogen detection by RIG-I-like receptors. <b>2013</b> , 117, 99-125	117
1249	The E3 ubiquitin ligase TRIM21 negatively regulates the innate immune response to intracellular double-stranded DNA. <i>Nature Immunology</i> , <b>2013</b> , 14, 172-8	146
1248	Intracellular sensors of immunity and allogeneic hematopoietic stem cell transplantation. 2013, 425-447	3
1247	A structural perspective of the MAVS-regulatory mechanism on the mitochondrial outer membrane using bioluminescence resonance energy transfer. <b>2013</b> , 1833, 1017-27	24
1246	Hepatitis C virus NS4B blocks the interaction of STING and TBK1 to evade host innate immunity. <b>2013</b> , 59, 52-8	119
1245	Mitochondria: sensors and mediators of innate immune receptor signaling. <b>2013</b> , 16, 327-38	47
1244	Mitochondrially localised MUL1 is a novel modulator of antiviral signaling. 2013, 91, 321-30	27
1243	Reactive oxygen species in the immune system. <b>2013</b> , 32, 249-70	253
1242	Mitochondrial-mediated antiviral immunity. <b>2013</b> , 1833, 225-32	84
1241	The mitochondrial antiviral protein MAVS associates with NLRP3 and regulates its inflammasome activity. <b>2013</b> , 191, 4358-66	154
1240	NLRX1 does not inhibit MAVS-dependent antiviral signalling. <b>2013</b> , 19, 438-48	57
1239	Gene-based polymorphisms, genomic organization of interferon-promoter stimulator 1 (IPS-1) gene and association study with the natural resistance to grass carp reovirus in grass carp Ctenopharyngodon idella. <b>2013</b> , 41, 756-65	11
1238	The essential, nonredundant roles of RIG-I and MDA5 in detecting and controlling West Nile virus infection. <b>2013</b> , 87, 11416-25	145
1237	Multi-level regulation of cellular recognition of viral dsRNA. <b>2013</b> , 70, 1949-63	25
1236	Toll-IL-1-receptor-containing adaptor molecule-1: a signaling adaptor linking innate immunity to adaptive immunity. <b>2013</b> , 117, 487-510	6
1235	Viruses as modulators of mitochondrial functions. <b>2013</b> , 2013, 738794	82
1234	A distinct role of Riplet-mediated K63-Linked polyubiquitination of the RIG-I repressor domain in human antiviral innate immune responses. <b>2013</b> , 9, e1003533	136
1233	Sensing microbial RNA in the cytosol. <b>2013</b> , 4, 468	31

1232	Type I and type III interferons drive redundant amplification loops to induce a transcriptional signature in influenza-infected airway epithelia. <b>2013</b> , 9, e1003773	185
1231	IFIT5 potentiates anti-viral response through enhancing innate immune signaling pathways. <b>2013</b> , 45, 867-74	50
1230	Amino acid requirements for MDA5 and LGP2 recognition by paramyxovirus V proteins: a single arginine distinguishes MDA5 from RIG-I. <b>2013</b> , 87, 2974-8	26
1229	Inhibition of hepatitis B virus replication by the host zinc finger antiviral protein. <b>2013</b> , 9, e1003494	155
1228	Sweeten PAMPs: Role of Sugar Complexed PAMPs in Innate Immunity and Vaccine Biology. <b>2013</b> , 4, 248	130
1227	Genome-wide RNAi screen reveals a new role of a WNT/CTNNB1 signaling pathway as negative regulator of virus-induced innate immune responses. <b>2013</b> , 9, e1003416	50
1226	DDX24 negatively regulates cytosolic RNA-mediated innate immune signaling. <b>2013</b> , 9, e1003721	43
1225	Systems analysis of a RIG-I agonist inducing broad spectrum inhibition of virus infectivity. <b>2013</b> , 9, e1003298	76
1224	Learning from the messengers: innate sensing of viruses and cytokine regulation of immunity clues for treatments and vaccines. <b>2013</b> , 5, 470-527	37
1223	Enterovirus 71 protease 2Apro targets MAVS to inhibit anti-viral type I interferon responses. <b>2013</b> , 9, e1003231	163
1222	Emerging roles of mitochondria in the evolution, biogenesis, and function of peroxisomes. <b>2013</b> , 4, 268	59
1221	Constitutive interferon-inducible protein 16-inflammasome activation during Epstein-Barr virus latency I, II, and III in B and epithelial cells. <b>2013</b> , 87, 8606-23	131
1220	Both TRIF and IPS-1 adaptor proteins contribute to the cerebral innate immune response against herpes simplex virus 1 infection. <b>2013</b> , 87, 7301-8	25
1219	Negative regulation of RIG-I-mediated innate antiviral signaling by SEC14L1. <b>2013</b> , 87, 10037-46	20
1218	CDK9-dependent transcriptional elongation in the innate interferon-stimulated gene response to respiratory syncytial virus infection in airway epithelial cells. <b>2013</b> , 87, 7075-92	49
1217	Oxygen-dependent expression of cytochrome c oxidase subunit 4-2 gene expression is mediated by transcription factors RBPJ, CXXC5 and CHCHD2. <b>2013</b> , 41, 2255-66	110
1216	Inflammatory response of mast cells during influenza A virus infection is mediated by active infection and RIG-I signaling. <b>2013</b> , 190, 4676-84	60
1215	Autophagy and selective deployment of Atg proteins in antiviral defense. <b>2013</b> , 25, 1-10	30

1214 NS3 of	bluetongue virus interferes with the induction of type I interferon. <b>2013</b> , 87, 8241-6	47
1213 The Re	egulation of Immune Responses by DC Derived Type I IFN. <b>2013</b> , 4, 94	16
1212 Nuclei	c Acid sensors and type I interferon production in systemic lupus erythematosus. <b>2013</b> , 4, 319	64
	nondrial localization of the antiviral signaling adaptor IPS-1 is important for its induction of e activation. <b>2013</b> , 18, 493-501	7
1110	n parainfluenza virus type 2 V protein inhibits TRAF6-mediated ubiquitination of IRF7 to at TLR7- and TLR9-dependent interferon induction. <b>2013</b> , 87, 7966-76	40
	yD88 pathway in plasmacytoid and CD4+ dendritic cells primarily triggers type I IFN tion against measles virus in a mouse infection model. <b>2013</b> , 191, 4740-7	16
1208 RAVEF	11 is a coactivator of MDA5-mediated cellular antiviral response. <b>2013</b> , 5, 111-9	20
1207 <b>Nove</b> l	function of Trim44 promotes an antiviral response by stabilizing VISA. <b>2013</b> , 190, 3613-9	57
1206 Negat	ve regulation of Nmi on virus-triggered type I IFN production by targeting IRF7. <b>2013</b> , 191, 3393-9	46
	oma differentiation-associated gene 5 senses hepatitis B virus and activates innate immune ng to suppress virus replication. <b>2013</b> , 191, 3264-76	51
	negatively regulates cellular antiviral response by promoting degradation of IRF3. <b>2013</b> , 2596-604	48
1203 actival	sed early RNA replication by chimeric West Nile virus W956IC leads to IPS-1-mediated ion of NF-B and insufficient virus-mediated counteraction of the resulting canonical type I eron signaling. 2013, 87, 7952-65	12
	regulates apoptotic cell death by decreasing K48-linked ubiquitination of voltage-dependent channel 1. <b>2013</b> , 33, 3137-49	45
1201 <b>Rig-l</b> re	egulates NF- <b>B</b> activity through binding to Nf-B1 3'-UTR mRNA. <b>2013</b> , 110, 6459-64	38
ATPas 1200 14, 78	e-driven oligomerization of RIG-I on RNA allows optimal activation of type-I interferon. <b>2013</b> , 0-7	89
1199 <b>Positi</b> v	e evolutionary selection on the RIG-I-like receptor genes in mammals. <b>2013</b> , 8, e81864	23
1198 Novel	type III interferons produce anti-tumor effects through multiple functions. <b>2013</b> , 18, 909-18	18
1197 [lmmu	nobiological response against RNA virus infection]. <b>2013</b> , 63, 135-42	

1196	Dose dependent activation of retinoic acid-inducible gene-I promotes both proliferation and apoptosis signals in human head and neck squamous cell carcinoma. <b>2013</b> , 8, e58273	20
1195	MDA5 plays a crucial role in enterovirus 71 RNA-mediated IRF3 activation. <b>2013</b> , 8, e63431	64
1194	Early host responses of seasonal and pandemic influenza A viruses in primary well-differentiated human lung epithelial cells. <b>2013</b> , 8, e78912	44
1193	Ubiquitin-specific proteases 25 negatively regulates virus-induced type I interferon signaling. <b>2013</b> , 8, e80976	46
1192	Cell type-specific subcellular localization of phospho-TBK1 in response to cytoplasmic viral DNA. <b>2013</b> , 8, e83639	28
1191	Role of Extrachromosomal Histone H2B on Recognition of DNA Viruses and Cell Damage. <b>2013</b> , 4, 91	10
1190	Analysis of global gene expression changes in human bronchial epithelial cells exposed to spores of the allergenic fungus, Alternaria alternata. <b>2013</b> , 4, 196	10
1189	Host-Viral Interactions: Role of Pattern Recognition Receptors (PRRs) in Human Pneumovirus Infections. <b>2013</b> , 2,	28
1188	NLRP3 inflammasome and host protection against bacterial infection. <b>2013</b> , 28, 1415-23	72
1187	Recognition of damage-associated molecular patterns related to nucleic acids during inflammation and vaccination. <b>2012</b> , 2, 168	87
1186	MAVS recruits multiple ubiquitin E3 ligases to activate antiviral signaling cascades. <b>2013</b> , 2, e00785	227
1185	Activation of duck RIG-I by TRIM25 is independent of anchored ubiquitin. <b>2014</b> , 9, e86968	26
1184	Mitochondria-nucleus shuttling FK506-binding protein 51 interacts with TRAF proteins and facilitates the RIG-I-like receptor-mediated expression of type I IFN. <b>2014</b> , 9, e95992	23
1183	ERAD and how viruses exploit it. <b>2014</b> , 5, 330	52
1182	Clinical utility of pharmacogenomics in the management of hepatitis C. <b>2014</b> , 7, 339-47	2
1181	. 2014,	20
1180	Receptors in Antiviral Immunity. <b>2014</b> ,	
1179	TRIM4 modulates type I interferon induction and cellular antiviral response by targeting RIG-I for K63-linked ubiquitination. <b>2014</b> , 6, 154-63	120

1178	Regulation of mitochondrial antiviral signaling (MAVS) expression and signaling by the mitochondria-associated endoplasmic reticulum membrane (MAM) protein Gp78. <b>2014</b> , 289, 1604-16	30
1177	Smurf2 negatively modulates RIG-I-dependent antiviral response by targeting VISA/MAVS for ubiquitination and degradation. <b>2014</b> , 192, 4758-64	66
1176	RIOK3 is an adaptor protein required for IRF3-mediated antiviral type I interferon production. <b>2014</b> , 88, 7987-97	24
1175	Toward a crystal-clear view of the viral RNA sensing and response by RIG-I-like receptors. <b>2014</b> , 11, 25-32	13
1174	Mechanisms and pathways of innate immune activation and regulation in health and cancer. <b>2014</b> , 10, 3270-85	156
1173	Conventional but not plasmacytoid dendritic cells foster the systemic virus-induced type I IFN response needed for efficient CD8 T cell priming. <b>2014</b> , 193, 1151-61	16
1172	Helicase proteins DHX29 and RIG-I cosense cytosolic nucleic acids in the human airway system. <b>2014</b> , 111, 7747-52	37
1171	Inhibition of interferon gene activation by death-effector domain-containing proteins from the molluscum contagiosum virus. <b>2014</b> , 111, E265-72	20
1170	Effect of all-trans-retinoic acid on enterovirus 71 infection in vitro. <b>2014</b> , 111, 1586-93	10
1169	Regulation of the immune response during infectious myocarditis. <b>2014</b> , 12, 187-200	5
1168	HSCARG negatively regulates the cellular antiviral RIG-I like receptor signaling pathway by inhibiting TRAF3 ubiquitination via recruiting OTUB1. <b>2014</b> , 10, e1004041	41
1167	Antagonizing interferon-mediated immune response by porcine reproductive and respiratory syndrome virus. <b>2014</b> , 2014, 315470	45
1166	A novel function of human Pumilio proteins in cytoplasmic sensing of viral infection. <b>2014</b> , 10, e1004417	35
1165	Multiple functions of DDX3 RNA helicase in gene regulation, tumorigenesis, and viral infection. <b>2014</b> , 5, 423	88
1164	RNF26 temporally regulates virus-triggered type I interferon induction by two distinct mechanisms. <b>2014</b> , 10, e1004358	119
1163	MAVS-MKK7-JNK2 defines a novel apoptotic signaling pathway during viral infection. <b>2014</b> , 10, e1004020	33
1162	Modified vaccinia virus Ankara triggers type I IFN production in murine conventional dendritic cells via a cGAS/STING-mediated cytosolic DNA-sensing pathway. <b>2014</b> , 10, e1003989	99
1161	Epstein-Barr Virus-Encoded RNAs: Key Molecules in Viral Pathogenesis. <b>2014</b> , 6, 1615-30	39

1160	Ancient origins of vertebrate-specific innate antiviral immunity. <b>2014</b> , 31, 140-53	39
1159	The DEAH-box RNA helicase DHX15 activates NF- <b>B</b> and MAPK signaling downstream of MAVS during antiviral responses. <b>2014</b> , 7, ra40	57
1158	Dissecting innate immune signaling in viral evasion of cytokine production. <b>2014</b> ,	2
1157	Interferon induction by RNA viruses and antagonism by viral pathogens. <b>2014</b> , 6, 4999-5027	40
1156	Assessment of the Toll-like receptor 3 pathway in endosomal signaling. <b>2014</b> , 535, 149-65	13
1155	The innate immune sensor LGP2 activates antiviral signaling by regulating MDA5-RNA interaction and filament assembly. <b>2014</b> , 55, 771-81	168
1154	TLR3 and MDA5 signalling, although not expression, is impaired in asthmatic epithelial cells in response to rhinovirus infection. <b>2014</b> , 44, 91-101	55
1153	RNA:DNA hybrids are a novel molecular pattern sensed by TLR9. <b>2014</b> , 33, 542-58	111
1152	Autoimmunity caused by constitutive activation of cytoplasmic viral RNA sensors. <b>2014</b> , 25, 739-43	13
1151	Prion-like polymerization as a signaling mechanism. <b>2014</b> , 35, 622-630	23
1150	The two faces of receptor interacting protein kinase-1. <b>2014</b> , 56, 469-80	80
1149	Mitochondrial dynamics and the innate antiviral immune response. <b>2014</b> , 281, 3791-802	36
1148	Primate-specific miR-576-3p sets host defense signalling threshold. <b>2014</b> , 5, 4963	44
1147	IKK∰s an IRF5 kinase that instigates inflammation. <b>2014</b> , 111, 17438-43	71
1146	USP21 negatively regulates antiviral response by acting as a RIG-I deubiquitinase. <b>2014</b> , 211, 313-28	113
1145	The RIG-I ATPase core has evolved a functional requirement for allosteric stabilization by the Pincer domain. <b>2014</b> , 42, 11601-11	16
1144	Modulation of host adaptive immunity by hRSV proteins. <b>2014</b> , 5, 740-51	8
1143	Dietary vitamin D supplementation attenuates immune responses of pigs challenged with rotavirus potentially through the retinoic acid-inducible gene I signalling pathway. <b>2014</b> , 112, 381-9	32

1142	Duck MDA5 functions in innate immunity against H5N1 highly pathogenic avian influenza virus infections. <b>2014</b> , 45, 66	60
1141	Cloning and expression of retinoic acid-induced gene-I and its effect on hepatitis C virus replication. <b>2014</b> , 45, 103-10	2
1140	Nod-like receptor X-1 is required for rhinovirus-induced barrier dysfunction in airway epithelial cells. <b>2014</b> , 88, 3705-18	54
1139	Expression, purification, crystallization and preliminary X-ray analysis of full-length human RIG-I. <b>2014</b> , 70, 248-51	
1138	The interaction between the helicase DHX33 and IPS-1 as a novel pathway to sense double-stranded RNA and RNA viruses in myeloid dendritic cells. <b>2014</b> , 11, 49-57	39
1137	A bicistronic MAVS transcript highlights a class of truncated variants in antiviral immunity. <b>2014</b> , 156, 800-11	98
1136	Necrosis-dependent and independent signaling of the RIP kinases in inflammation. <b>2014</b> , 25, 167-74	54
1135	Human pegivirus (GB virus C) NS3 protease activity inhibits induction of the type I interferon response and is not inhibited by HCV NS3 protease inhibitors. <b>2014</b> , 456-457, 300-9	4
1134	Large-scale nucleotide optimization of simian immunodeficiency virus reduces its capacity to stimulate type I interferon in vitro. <b>2014</b> , 88, 4161-72	19
1133	Norovirus gene expression and replication. <b>2014</b> , 95, 278-291	167
1132	Enterovirus 2Apro targets MDA5 and MAVS in infected cells. <b>2014</b> , 88, 3369-78	141
1131	NF- <b>B</b> activation induced by hepatitis A virus and Newcastle disease virus occurs by different pathways depending on the structural pattern of viral nucleic acids. <b>2014</b> , 159, 1723-33	4
1130	Autoimmune disorders associated with gain of function of the intracellular sensor MDA5. <b>2014</b> , 40, 199-212	184
1129	Mitophagy enhances oncolytic measles virus replication by mitigating DDX58/RIG-I-like receptor signaling. <b>2014</b> , 88, 5152-64	75
1128	Melanoma differentiation-associated gene 5 in zebrafish provoking higher interferon-promoter activity through signalling enhancing of its shorter splicing variant. <b>2014</b> , 141, 192-202	52
1127	Structural basis for ubiquitin-mediated antiviral signal activation by RIG-I. <b>2014</b> , 509, 110-4	232
1126	Signaling pathways in murine dendritic cells that regulate the response to vesicular stomatitis virus vectors that express flagellin. <b>2014</b> , 88, 777-85	8
1125	Interferon-stimulated genes: a complex web of host defenses. <b>2014</b> , 32, 513-45	1593

1124	eEF1Bis a positive regulator of NF-B signaling pathway. <b>2014</b> , 446, 523-8	12
1123	Structures of pattern recognition receptors reveal molecular mechanisms of autoinhibition, ligand recognition and oligomerization. <b>2014</b> , 26, 14-20	16
1122	Hantavirus GnT elements mediate TRAF3 binding and inhibit RIG-I/TBK1-directed beta interferon transcription by blocking IRF3 phosphorylation. <b>2014</b> , 88, 2246-59	35
1121	Innate immune sensing and signaling of cytosolic nucleic acids. <b>2014</b> , 32, 461-88	725
1120	Infection of human islets of Langerhans with two strains of Coxsackie B virus serotype 1: assessment of virus replication, degree of cell death and induction of genes involved in the innate immunity pathway. <b>2014</b> , 86, 1402-11	35
1119	Innate antiviral immune signaling, viral evasion and modulation by HIV-1. <b>2014</b> , 426, 1161-77	49
1118	TRIMmunity: the roles of the TRIM E3-ubiquitin ligase family in innate antiviral immunity. <b>2014</b> , 426, 1265-84	205
1117	Host-cell sensors for Plasmodium activate innate immunity against liver-stage infection. <b>2014</b> , 20, 47-53	186
1116	PB2-588I enhances 2009 H1N1 pandemic influenza virus virulence by increasing viral replication and exacerbating PB2 inhibition of beta interferon expression. <b>2014</b> , 88, 2260-7	33
1115	Comparative immune systems in animals. <b>2014</b> , 2, 235-58	24
1114	A novel mitochondrial MAVS/Caspase-8 platform links RNA virus-induced innate antiviral signaling to Bax/Bak-independent apoptosis. <b>2014</b> , 192, 1171-83	52
1113	The ubiquitin-specific protease USP15 promotes RIG-I-mediated antiviral signaling by deubiquitylating TRIM25. <b>2014</b> , 7, ra3	105
1112	The Multiple Therapeutic Targets of A20. <b>2014</b> ,	
1111	Macrophages: Biology and Role in the Pathology of Diseases. <b>2014</b> ,	8
1110	Activation and regulation of pathogen sensor RIG-I. <b>2014</b> , 25, 513-23	35
1109	Porcine reproductive and respiratory syndrome virus nonstructural protein 4 antagonizes beta interferon expression by targeting the NF- <b>B</b> essential modulator. <b>2014</b> , 88, 10934-45	90
1108	Enhancement of interferon induction by ORF3 product of hepatitis E virus. <b>2014</b> , 88, 8696-705	48
1107	Amniotic membrane modulates innate immune response inhibiting PRRs expression and NF- <b>B</b> nuclear translocation on limbal myofibroblasts. <b>2014</b> , 127, 215-23	11

1106	Antiviral innate immunity and stress granule responses. <b>2014</b> , 35, 420-8	144
1105	Regulation of RIG-I-like receptor signaling by host and viral proteins. <b>2014</b> , 25, 491-505	80
1104	Ubiquitin-specific protease 2b negatively regulates IFN-⊕roduction and antiviral activity by targeting TANK-binding kinase 1. <b>2014</b> , 193, 2230-7	39
1103	Cytosolic double-stranded RNA activates the NLRP3 inflammasome via MAVS-induced membrane permeabilization and K+ efflux. <b>2014</b> , 193, 4214-4222	100
1102	Functional characterization of the evolutionarily preserved mitochondrial antiviral signaling protein (MAVS) from rock bream, Oplegnathus fasciatus. <b>2014</b> , 40, 399-406	19
1101	Viral suppression of innate immunity via spatial isolation of TBK1/IKKIfrom mitochondrial antiviral platform. <b>2014</b> , 6, 324-37	64
1100	Concomitant TLR/RLH signaling of radioresistant and radiosensitive cells is essential for protection against vesicular stomatitis virus infection. <b>2014</b> , 193, 3045-54	21
1099	A long-awaited merger of the pathways mediating host defence and programmed cell death. <b>2014</b> , 14, 601-18	94
1098	Hepatitis E virus inhibits type I interferon induction by ORF1 products. <b>2014</b> , 88, 11924-32	85
1097	Downregulation of microRNA miR-526a by enterovirus inhibits RIG-I-dependent innate immune response. <b>2014</b> , 88, 11356-68	58
1096	Role of DNA/RNA sensors and contribution to autoimmunity. <b>2014</b> , 25, 745-57	40
1095	Innate immune cell networking in hepatitis C virus infection. <b>2014</b> , 96, 757-66	35
1094	Andrographolide as an anti-H1N1 drug and the mechanism related to retinoic acid-inducible gene-I-like receptors signaling pathway. <b>2014</b> , 20, 540-5	33
1093	Differential requirement for the IKK#NF- <b>B</b> signaling module in regulating TLR- versus RLR-induced type 1 IFN expression in dendritic cells. <b>2014</b> , 193, 2538-45	11
1092	Brucella abortus DNA is a major bacterial agonist to activate the host innate immune system. <b>2014</b> , 16, 979-84	7
1091	The personal touch: strategies toward personalized vaccines and predicting immune responses to them. <b>2014</b> , 13, 657-69	15
1090	Interferon regulatory factor 3 in adaptive immune responses. <b>2014</b> , 71, 3873-83	30
1089	MDA5 and LGP2: accomplices and antagonists of antiviral signal transduction. <b>2014</b> , 88, 8194-200	81

1088	Fish MAVS is involved in RLR pathway-mediated IFN response. <b>2014</b> , 41, 222-30	32
1087	Innate receptors and cellular defense against pulmonary infections. <b>2014</b> , 193, 3842-50	29
1086	KSHV: pathways to tumorigenesis and persistent infection. <b>2014</b> , 88, 111-59	88
1085	DHX15 senses double-stranded RNA in myeloid dendritic cells. <b>2014</b> , 193, 1364-72	40
1084	RIPK1 maintains epithelial homeostasis by inhibiting apoptosis and necroptosis. <b>2014</b> , 513, 90-4	336
1083	Induction and control of the type I interferon pathway by Bluetongue virus. <b>2014</b> , 182, 59-70	25
1082	Intrinsic disorder in proteins involved in the innate antiviral immunity: another flexible side of a molecular arms race. <b>2014</b> , 426, 1322-50	27
1081	Genetic variations of mitochondrial antiviral signaling gene (MAVS) in domestic chickens. <b>2014</b> , 545, 226-32	2
1080	Molecular characterizations of grass carp (Ctenopharyngodon idella) TBK1 gene and its roles in regulating IFN-I pathway. <b>2014</b> , 45, 278-90	33
1079	RIG-I modulates Src-mediated AKT activation to restrain leukemic stemness. <b>2014</b> , 53, 407-19	40
1078	Identification, characterization and immunological response analysis of stimulator of interferon gene (STING) from grass carp Ctenopharyngodon idella. <b>2014</b> , 45, 163-76	17
1077	Visualizing hepatitis C virus infection in humanized mice. <b>2014</b> , 410, 50-9	13
1076	Viral infections in asthma and COPD. <b>2014</b> , 52, 92-100	48
1075	Nucleic acid sensing by T cells initiates Th2 cell differentiation. <b>2014</b> , 5, 3566	26
1074	IPS-1 plays an essential role in dsRNA-induced stress granule formation by interacting with PKR and promoting its activation. <b>2014</b> , 127, 2471-82	32
1073	The amino acid at residue 155 in nonstructural protein 4 of porcine reproductive and respiratory syndrome virus contributes to its inhibitory effect for interferon-transcription in vitro. <b>2014</b> , 189, 226-34	20
1072	Pushing to a cure by harnessing innate immunity against hepatitis C virus. <b>2014</b> , 108, 156-64	7
1071	Poly(I:C) treatment leads to interferon-dependent clearance of hepatitis B virus in a hydrodynamic injection mouse model. <b>2014</b> , 88, 10421-31	59

1070	Activation of c-jun N-terminal kinase upon influenza A virus (IAV) infection is independent of pathogen-related receptors but dependent on amino acid sequence variations of IAV NS1. <b>2014</b> , 88, 8843-52	23
1069	MITA/STING: a central and multifaceted mediator in innate immune response. <b>2014</b> , 25, 631-9	62
1068	Unanchored K48-linked polyubiquitin synthesized by the E3-ubiquitin ligase TRIM6 stimulates the interferon-IKK[kinase-mediated antiviral response. <b>2014</b> , 40, 880-95	97
1067	Mouse superkiller-2-like helicase DDX60 is dispensable for type I IFN induction and immunity to multiple viruses. <b>2015</b> , 45, 3386-403	23
1066	Ring finger protein 166 potentiates RNA virus-induced interferon-production via enhancing the ubiquitination of TRAF3 and TRAF6. <b>2015</b> , 5, 14770	25
1065	Middle East respiratory syndrome coronavirus ORF4b protein inhibits type I interferon production through both cytoplasmic and nuclear targets. <b>2015</b> , 5, 17554	95
1064	Loss of CARD9-mediated innate activation attenuates severe influenza pneumonia without compromising host viral immunity. <b>2015</b> , 5, 17577	17
1063	A non-canonical role of the p97 complex in RIG-I antiviral signaling. <b>2015</b> , 34, 2903-20	28
1062	NS3/4A Serine Protease Inhibitors for the Treatment of HCV: Design and Discovery of Boceprevir and Telaprevir. <b>2015</b> , 295-324	
1061	A MAVS/TICAM-1-independent interferon-inducing pathway contributes to regulation of hepatitis B virus replication in the mouse hydrodynamic injection model. <b>2015</b> , 7, 47-58	13
1060	Pigeon RIG-I Function in Innate Immunity against H9N2 IAV and IBDV. <b>2015</b> , 7, 4131-51	10
1059	Analyses of the pathways involved in early- and late-phase induction of IFN-beta during C. muridarum infection of oviduct epithelial cells. <b>2015</b> , 10, e0119235	4
1058	Engagement of Fas on Macrophages Modulates Poly I:C induced cytokine production with specific enhancement of IP-10. <b>2015</b> , 10, e0123635	9
1057	Evolution of a Novel Antiviral Immune-Signaling Interaction by Partial-Gene Duplication. <b>2015</b> , 10, e0137276	8
1056	Disruption of Type I Interferon Induction by HIV Infection of T Cells. <b>2015</b> , 10, e0137951	12
1055	DYRK2 Negatively Regulates Type I Interferon Induction by Promoting TBK1 Degradation via Ser527 Phosphorylation. <b>2015</b> , 11, e1005179	37
1054	Activation of Type I and III Interferon Response by Mitochondrial and Peroxisomal MAVS and Inhibition by Hepatitis C Virus. <b>2015</b> , 11, e1005264	91
1053	Characterization of a Novel Human-Specific STING Agonist that Elicits Antiviral Activity Against Emerging Alphaviruses. <b>2015</b> , 11, e1005324	71

1052	Dengue Virus Impairs Mitochondrial Fusion by Cleaving Mitofusins. <b>2015</b> , 11, e1005350	68
1051	Effect of 50 Hz Extremely Low-Frequency Electromagnetic Fields on the DNA Methylation and DNA Methyltransferases in Mouse Spermatocyte-Derived Cell Line GC-2. <b>2015</b> , 2015, 237183	17
1050	EFTUD2 Is a Novel Innate Immune Regulator Restricting Hepatitis C Virus Infection through the RIG-I/MDA5 Pathway. <b>2015</b> , 89, 6608-18	25
1049	Abortive infection of snakehead fish vesiculovirus in ZF4 cells was associated with the RLRs pathway activation by viral replicative intermediates. <b>2015</b> , 16, 6235-50	23
1048	Type I interferonopathiesan expanding disease spectrum of immunodysregulation. <b>2015</b> , 37, 349-57	35
1047	Virus Infection of Airway Epithelial Cells. <b>2015</b> , 1013-1021	0
1046	Mast cells and influenza a virus: association with allergic responses and beyond. <b>2015</b> , 6, 238	45
1045	Sequence-Specific Modifications Enhance the Broad-Spectrum Antiviral Response Activated by RIG-I Agonists. <b>2015</b> , 89, 8011-25	56
1044	Beneficial Microorganisms in Medical and Health Applications. 2015,	5
1043	A gut-vascular barrier controls the systemic dissemination of bacteria. <b>2015</b> , 350, 830-4	269
15	A gut-vascular barrier controls the systemic dissemination of bacteria. <b>2015</b> , 350, 830-4  ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. <b>2015</b> , 353-385	269
15		269 2
1042	ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. <b>2015</b> , 353-385  Dual effects of duplex RNA harboring 5'-terminal triphosphate on gene silencing and RIG-I	269 2 50
1042	ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. 2015, 353-385  Dual effects of duplex RNA harboring 5'-terminal triphosphate on gene silencing and RIG-I mediated innate immune response. 2015, 456, 591-7	2
1042	ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. 2015, 353-385  Dual effects of duplex RNA harboring 5'-terminal triphosphate on gene silencing and RIG-I mediated innate immune response. 2015, 456, 591-7  Identification and characterization of MAVS from black carp Mylopharyngodon piceus. 2015, 43, 460-8	2 50
1042 1041 1040 1039	ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. 2015, 353-385  Dual effects of duplex RNA harboring 5'-terminal triphosphate on gene silencing and RIG-I mediated innate immune response. 2015, 456, 591-7  Identification and characterization of MAVS from black carp Mylopharyngodon piceus. 2015, 43, 460-8  Regulation of cellular innate antiviral signaling by ubiquitin modification. 2015, 47, 149-55  Association of IPS1 polymorphisms with peginterferon efficacy in chronic hepatitis B with	2 50 10
1042 1041 1040 1039	ACTIVATION AND EVASION OF INNATE IMMUNE RESPONSE BY RHABDOVIRUSES. 2015, 353-385  Dual effects of duplex RNA harboring 5'-terminal triphosphate on gene silencing and RIG-I mediated innate immune response. 2015, 456, 591-7  Identification and characterization of MAVS from black carp Mylopharyngodon piceus. 2015, 43, 460-8  Regulation of cellular innate antiviral signaling by ubiquitin modification. 2015, 47, 149-55  Association of IPS1 polymorphisms with peginterferon efficacy in chronic hepatitis B with HBeAg-positive in the Chinese population. 2015, 31, 161-8  Molecular cloning, characterisation and expression analysis of melanoma differentiation associated	2 50 10

1034	Tom70 mediates Sendai virus-induced apoptosis on mitochondria. <b>2015</b> , 89, 3804-18	15
1033	Network representations of immune system complexity. <b>2015</b> , 7, 13-38	48
1032	Control of hepatitis C virus replication in mouse liver-derived cells by MAVS-dependent production of type I and type III interferons. <b>2015</b> , 89, 3833-45	16
1031	Structural biology of innate immunity. <b>2015</b> , 33, 393-416	86
1030	A DN-mda5 transgenic zebrafish model demonstrates that Mda5 plays an important role in snakehead rhabdovirus resistance. <b>2015</b> , 51, 298-304	10
1029	A Src-family-tyrosine kinase, Lyn, is required for efficient IFN-\textbf{k}xpression in pattern recognition receptor, RIG-I, signal pathway by interacting with IPS-1. <b>2015</b> , 72, 63-70	11
1028	Innate immune pattern recognition: a cell biological perspective. <b>2015</b> , 33, 257-90	804
1027	ECSIT bridges RIG-I-like receptors to VISA in signaling events of innate antiviral responses. <b>2015</b> , 7, 153-64	25
1026	Transfected poly(I:C) activates different dsRNA receptors, leading to apoptosis or immunoadjuvant response in androgen-independent prostate cancer cells. <b>2015</b> , 290, 5470-83	70
1025	Oncogenic human T-cell lymphotropic virus type 1 tax suppression of primary innate immune signaling pathways. <b>2015</b> , 89, 4880-93	16
1024	How do viruses control mitochondria-mediated apoptosis?. <b>2015</b> , 209, 45-55	39
1023	Ataxia telangiectasia mutated kinase mediates NF- <b>B</b> serine 276 phosphorylation and interferon expression via the IRF7-RIG-I amplification loop in paramyxovirus infection. <b>2015</b> , 89, 2628-42	26
1022	RIG-I in RNA virus recognition. <b>2015</b> , 479-480, 110-21	251
1021	Ubiquitination in the antiviral immune response. <b>2015</b> , 479-480, 52-65	108
1020	Conformational Heterogeneity Determined by Folding and Oligomer Assembly Routes of the Interferon Response Inhibitor NS1 Protein, Unique to Human Respiratory Syncytial Virus. <b>2015</b> , 54, 5136-46	2
1019	Cardif (MAVS) Regulates the Maturation of NK Cells. <b>2015</b> , 195, 2157-67	9
1018	The ASK family kinases differentially mediate induction of type I interferon and apoptosis during the antiviral response. <b>2015</b> , 8, ra78	20
1017	Functions of the two zebrafish MAVS variants are opposite in the induction of IFN1 by targeting IRF7. <b>2015</b> , 45, 574-82	25

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1016	Immune Responses. <b>2015</b> , 14, 2535-49	19
1015	IPS-1 differentially induces TRAIL, BCL2, BIRC3 and PRKCE in type I interferons-dependent and -independent anticancer activity. <b>2015</b> , 6, e1758	27
1014	An autoinhibitory mechanism modulates MAVS activity in antiviral innate immune response. <b>2015</b> , 6, 7811	29
1013	BclA and toxin antigens augment each other to protect NMRI mice from lethal Bacillus anthracis challenge. <b>2015</b> , 33, 2771-7	9
1012	pVHL Negatively Regulates Antiviral Signaling by Targeting MAVS for Proteasomal Degradation. <b>2015</b> , 195, 1782-90	39
1011	Ubiquitin-specific Protease 15 Negatively Regulates Virus-induced Type I Interferon Signaling via Catalytically-dependent and -independent Mechanisms. <b>2015</b> , 5, 11220	39
1010	The immunology and inflammatory responses of human melanocytes in infectious diseases. <b>2015</b> , 71, 413-21	32
1009	PPM1A regulates antiviral signaling by antagonizing TBK1-mediated STING phosphorylation and aggregation. <b>2015</b> , 11, e1004783	63
1008	Cellular and molecular mechanisms of chikungunya pathogenesis. <b>2015</b> , 120, 165-74	41
1007	Association of symptoms and severity of rift valley fever with genetic polymorphisms in human innate immune pathways. <b>2015</b> , 9, e0003584	19
1006	TRIM26 negatively regulates interferon-production and antiviral response through polyubiquitination and degradation of nuclear IRF3. <b>2015</b> , 11, e1004726	103
1005	Evidence for a Novel Mechanism of Influenza Virus-Induced Type I Interferon Expression by a Defective RNA-Encoded Protein. <b>2015</b> , 11, e1004924	20
1004	Mitochondrial antiviral signaling adaptor mediated apoptosis in H3N2 swine influenza virus infection is inhibited by viral protein NS1 in vitro. <b>2015</b> , 165, 34-44	3
1003	LGP2 synergy with MDA5 in RLR-mediated RNA recognition and antiviral signaling. <b>2015</b> , 74, 198-206	69
1002	How RIG-I like receptors activate MAVS. <b>2015</b> , 12, 91-8	118
1001	Molecular cloning and immune responsive expression of LGP2 gene, a pivotal member of the RLR gene family from Muscovy duck Cairina moschata. <b>2015</b> , 94, 1170-6	13
1000	Integration of PKR-dependent translation inhibition with innate immunity is required for a coordinated anti-viral response. <b>2015</b> , 589, 1539-45	53
999	Differential responses of normal human melanocytes to intra- and extracellular dsRNA. <b>2015</b> , 34, 391-9	6

998	Characterization of a MAVS ortholog from the Chinese tree shrew (Tupaia belangeri chinensis). <b>2015</b> , 52, 58-68	18
997	MAPK Phosphatase 5 Expression Induced by Influenza and Other RNA Virus Infection Negatively Regulates IRF3 Activation and Type I Interferon Response. <b>2015</b> , 10, 1722-1734	28
996	Mitochondria in the regulation of innate and adaptive immunity. <b>2015</b> , 42, 406-17	474
995	Phosphatidylinositol-3-kinase and Akt are required for RIG-I-mediated anti-viral signalling through cross-talk with IPS-1. <b>2015</b> , 144, 312-20	15
994	TLR3/TRIF signalling pathway regulates IL-32 and IFN-像ecretion through activation of RIP-1 and TRAF in the human cornea. <b>2015</b> , 19, 1042-54	11
993	Ras transformation results in cleavage of reticulon protein Nogo-B that is associated with impairment of IFN response. <b>2015</b> , 14, 2301-10	11
992	Hepatitis C virus infects rhesus macaque hepatocytes and simianized mice. <b>2015</b> , 62, 57-67	16
991	Polyl:C-Induced, TLR3/RIP3-Dependent Necroptosis Backs Up Immune Effector-Mediated Tumor Elimination In Vivo. <b>2015</b> , 3, 902-14	55
990	Structural and functional analysis reveals that human OASL binds dsRNA to enhance RIG-I signaling. <b>2015</b> , 43, 5236-48	33
989	Insights into antiviral innate immunity revealed by studying hepatitis C virus. 2015, 74, 190-7	5
988	RIG-I-dependent antiviral immunity is effective against an RNA virus encoding a potent suppressor of RNAi. <b>2015</b> , 460, 1035-40	6
987	Casein kinase II controls TBK1/IRF3 activation in IFN response against viral infection. <b>2015</b> , 194, 4477-88	28
986	Lymphocytic Choriomeningitis Virus Differentially Affects the Virus-Induced Type I Interferon Response and Mitochondrial Apoptosis Mediated by RIG-I/MAVS. <b>2015</b> , 89, 6240-50	24
985	Control of temporal activation of hepatitis C virus-induced interferon response by domain 2 of nonstructural protein 5A. <b>2015</b> , 63, 829-37	40
984	Recent advances on viral manipulation of NF-B signaling pathway. 2015, 15, 103-11	42
983	Pathogen-Associated Molecular Pattern Recognition of Hepatitis C Virus Transmitted/Founder Variants by RIG-I Is Dependent on U-Core Length. <b>2015</b> , 89, 11056-68	22
982	Chicken STING Mediates Activation of the IFN Gene Independently of the RIG-I Gene. <b>2015</b> , 195, 3922-36	46
981	WDR82 Negatively Regulates Cellular Antiviral Response by Mediating TRAF3 Polyubiquitination in Multiple Cell Lines. <b>2015</b> , 195, 5358-66	12

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980	Cytosolic Low Molecular Weight FGF2 Orchestrates RIG-I-Mediated Innate Immune Response. <b>2015</b> , 195, 4943-52	12
979	Role of Adaptor Protein Toll-Like Interleukin Domain Containing Adaptor Inducing Interferon #n Toll-Like Receptor 3- and 4-Mediated Regulation of Hepatic Drug Metabolizing Enzyme and Transporter Genes. <b>2016</b> , 44, 61-7	9
978	Nlrp6 regulates intestinal antiviral innate immunity. <b>2015</b> , 350, 826-30	135
977	Control of FoxO4 Activity and Cell Survival by TRIM22 Directs TLR3-Stimulated Cells Toward IFN Type I Gene Induction or Apoptosis. <b>2015</b> , 35, 859-74	8
976	The mitochondrial ubiquitin ligase MARCH5 resolves MAVS aggregates during antiviral signalling. <b>2015</b> , 6, 7910	87
975	Pre-activated human mesenchymal stromal cells in combination with doxorubicin synergistically enhance tumor-suppressive activity in mice. <b>2015</b> , 17, 1332-41	13
974	Hepatitis C virus vaccine development: old challenges and new opportunities. 2015, 2, 285-295	22
973	Class A Scavenger Receptor-Mediated Double-Stranded RNA Internalization Is Independent of Innate Antiviral Signaling and Does Not Require Phosphatidylinositol 3-Kinase Activity. <b>2015</b> , 195, 3858-65	10
972	Structural Insights into mitochondrial antiviral signaling protein (MAVS)-tumor necrosis factor receptor-associated factor 6 (TRAF6) signaling. <b>2015</b> , 290, 26811-20	26
971	Identification of a Natural Viral RNA Motif That Optimizes Sensing of Viral RNA by RIG-I. <b>2015</b> , 6, e01265-15	29
970	Induction of USP25 by viral infection promotes innate antiviral responses by mediating the stabilization of TRAF3 and TRAF6. <b>2015</b> , 112, 11324-9	70
969	DED or alive: assembly and regulation of the death effector domain complexes. <b>2015</b> , 6, e1866	33
968	IRTKS negatively regulates antiviral immunity through PCBP2 sumoylation-mediated MAVS degradation. <b>2015</b> , 6, 8132	38
967	Phosphatase PP4 Negatively Regulates Type I IFN Production and Antiviral Innate Immunity by Dephosphorylating and Deactivating TBK1. <b>2015</b> , 195, 3849-57	24
966	Functions of MDA5 and its domains in response to GCRV or bacterial PAMPs. <b>2015</b> , 46, 693-702	14
965	RNA editing by ADAR1 marks dsRNA as "self". <b>2015</b> , 25, 1283-4	9
964	The inability of wild-type rabies virus to activate dendritic cells is dependent on the glycoprotein and correlates with its low level of the de novo-synthesized leader RNA. <b>2015</b> , 89, 2157-69	20
963	Regulation and evasion of antiviral immune responses by porcine reproductive and respiratory syndrome virus. <b>2015</b> , 202, 101-11	58

962	MDA5 plays a critical role in interferon response during hepatitis C virus infection. 2015, 62, 771-8	70
961	RIG-I from waterfowl and mammals differ in their abilities to induce antiviral responses against influenza A viruses. <b>2015</b> , 96, 277-287	11
960	MAP kinase p38#egulates type III interferon (IFN-¶) gene expression in human monocyte-derived dendritic cells in response to RNA stimulation. <b>2015</b> , 97, 307-20	18
959	Porcine interferon-induced protein with tetratricopeptide repeats 3, poIFIT3, inhibits swine influenza virus replication and potentiates IFN-production. <b>2015</b> , 50, 49-57	8
958	MAVS splicing variants contribute to the induction of interferon and interferon-stimulated genes mediated by RIG-I-like receptors. <b>2015</b> , 49, 19-30	37
957	LSM14A inhibits porcine reproductive and respiratory syndrome virus (PRRSV) replication by activating IFN-略ignaling pathway in Marc-145. <b>2015</b> , 399, 247-56	9
956	Hantaan virus can infect human keratinocytes and activate an interferon response through the nuclear translocation of IRF-3. <b>2015</b> , 29, 146-55	10
955	Interferon regulatory factors: at the crossroads of immunity, metabolism, and disease. <b>2015</b> , 1852, 365-78	123
954	Response of host inflammasomes to viral infection. <b>2015</b> , 23, 55-63	127
953	Solid-state NMR resonance assignments of the filament-forming CARD domain of the innate immunity signaling protein MAVS. <b>2015</b> , 9, 223-7	6
952	Involvement of zebrafish RIG-I in NF- <b>B</b> and IFN signaling pathways: insights into functional conservation of RIG-I in antiviral innate immunity. <b>2015</b> , 48, 95-101	29
951	Mitochondria as a Favourite Organelle for Invading Viruses. <b>2016</b> , s1,	2
950	Ubiquitin Signaling to NF- <b>B</b> . <b>2016</b> , 51-64	
949	Role of Mitochondria-Associated Endoplasmic Reticulum Membrane in Inflammation-Mediated Metabolic Diseases. <b>2016</b> , 2016, 1851420	43
948	Basic Knowledge of Immunology. <b>2016</b> , 15-42	4
947	De Novo Transcriptome Analysis Shows That SAV-3 Infection Upregulates Pattern Recognition Receptors of the Endosomal Toll-Like and RIG-I-Like Receptor Signaling Pathways in Macrophage/Dendritic Like TO-Cells. <b>2016</b> , 8, 114	17
946	HACE1 Negatively Regulates Virus-Triggered Type I IFN Signaling by Impeding the Formation of the MAVS-TRAF3 Complex. <b>2016</b> , 8,	6
945	Accessory Factors of Cytoplasmic Viral RNA Sensors Required for Antiviral Innate Immune Response. <b>2016</b> , 7, 200	37

# (2016-2016)

944	Cherry Valley Ducks Mitochondrial Antiviral-Signaling Protein-Mediated Signaling Pathway and Antiviral Activity Research. <b>2016</b> , 7, 377	14
943	Danger Signals and Graft-versus-host Disease: Current Understanding and Future Perspectives. <b>2016</b> , 7, 539	51
942	Cytosolic Innate Immune Sensing and Signaling upon Infection. <b>2016</b> , 7, 313	38
941	Transgenic expression of non-structural genes of Theiler's virus suppresses initial viral replication and pathogenesis of demyelination. <b>2016</b> , 13, 133	2
940	Mumps Virus Induces Protein-Kinase-R-Dependent Stress Granules, Partly Suppressing Type III Interferon Production. <b>2016</b> , 11, e0161793	6
939	De Novo Transcriptome Analysis Provides Insights into Immune Related Genes and the RIG-I-Like Receptor Signaling Pathway in the Freshwater Planarian (Dugesia japonica). <b>2016</b> , 11, e0151597	27
938	Spliceosome SNRNP200 Promotes Viral RNA Sensing and IRF3 Activation of Antiviral Response. <b>2016</b> , 12, e1005772	14
937	Evaluation of novel synthetic TLR7/8 agonists as vaccine adjuvants. <b>2016</b> , 34, 4304-12	27
936	Prion-like Aggregation of Mitochondrial Antiviral Signaling Protein in Lupus Patients Is Associated With Increased Levels of Type I Interferon. <b>2016</b> , 68, 2697-2707	37
935	ADAR1, inosine and the immune sensing system: distinguishing self from non-self. <b>2016</b> , 7, 157-72	39
934	Links between recognition and degradation of cytoplasmic viral RNA in innate immune response. <b>2016</b> , 26, 90-101	17
933	Reactive oxygen species induce virus-independent MAVS oligomerization in systemic lupus erythematosus. <b>2016</b> , 9, ra115	84
932	Interferon regulatory factor 3 is a key regulation factor for inducing the expression of SAMHD1 in antiviral innate immunity. <b>2016</b> , 6, 29665	26
931	The nucleolar protein GLTSCR2 is required for efficient viral replication. <b>2016</b> , 6, 36226	10
930	MAVS maintains mitochondrial homeostasis via autophagy. <b>2016</b> , 2, 16024	35
929	Pyruvate Carboxylase Activates the RIG-I-like Receptor-Mediated Antiviral Immune Response by Targeting the MAVS signalosome. <b>2016</b> , 6, 22002	16
928	Methylcrotonoyl-CoA carboxylase 1 potentiates RLR-induced NF- <b>B</b> signaling by targeting MAVS complex. <b>2016</b> , 6, 33557	13
927	Amplified RLR signaling activation through an interferon-stimulated gene-endoplasmic reticulum stress-mitochondrial calcium uniporter protein loop. <b>2016</b> , 6, 20158	19

926	RAIDD Mediates TLR3 and IRF7 Driven Type I Interferon Production. <b>2016</b> , 39, 1271-80	О
925	Toll-Like Receptor Signaling and Its Inducible Proteins. <b>2016</b> , 4,	127
924	MSX1 Modulates RLR-Mediated Innate Antiviral Signaling by Facilitating Assembly of TBK1-Associated Complexes. <b>2016</b> , 197, 199-207	21
923	Filament assemblies in foreign nucleic acid sensors. <b>2016</b> , 37, 134-44	41
922	CARMA3 Is a Host Factor Regulating the Balance of Inflammatory and Antiviral Responses against Viral Infection. <b>2016</b> , 14, 2389-401	19
921	Middle East respiratory syndrome coronavirus M protein suppresses type I interferon expression through the inhibition of TBK1-dependent phosphorylation of IRF3. <b>2016</b> , 5, e39	90
920	TLR3 signaling is downregulated by a MAVS isoform in epithelial cells. <b>2016</b> , 310, 205-210	4
919	Activation of the RLR/MAVS Signaling Pathway by the L Protein of Mopeia Virus. <b>2016</b> , 90, 10259-10270	11
918	Plasma membrane Toll-like receptor activation increases bacterial uptake but abrogates endosomal Lactobacillus acidophilus induction of interferon-#2016, 149, 329-342	13
917	Intracellular delivery of poly(I:C) induces apoptosis of fibroblast-like synoviocytes via an unknown dsRNA sensor. <b>2016</b> , 477, 343-9	2
916	Identification of a role for TRIM29 in the control of innate immunity in the respiratory tract. <i>Nature Immunology</i> , <b>2016</b> , 17, 1373-1380	87
915	Inflammasomes and its importance in viral infections. <b>2016</b> , 64, 1101-1117	80
914	Evasion of early innate immune response by 2'-O-methylation of dengue genomic RNA. <b>2016</b> , 499, 259-266	28
913	Molecular and Dynamic Mechanism Underlying Drug Resistance in Genotype 3 Hepatitis C NS3/4A Protease. <b>2016</b> , 138, 11850-9	44
912	Triggering Intracellular Receptors for Vaccine Adjuvantation. <b>2016</b> , 37, 573-587	39
911	MDA-5 activation by cytoplasmic double-stranded RNA impairs endothelial function and aggravates atherosclerosis. <b>2016</b> , 20, 1696-705	11
910	Rotavirus Strategies Against the Innate Antiviral System. <b>2016</b> , 3, 591-609	20
909	The PB2 Subunit of the Influenza A Virus RNA Polymerase Is Imported into the Mitochondrial Matrix. <b>2016</b> , 90, 8729-38	19

# (2016-2016)

908	through the Type III IFN Pathway. <b>2016</b> , 197, 2369-81	10
907	Multilayered regulations of RIG-I in the anti-viral signaling pathway. <b>2016</b> , 54, 583-587	9
906	LGP2 of black carp plays an important role in the innate immune response against SVCV and GCRV. <b>2016</b> , 57, 127-135	21
905	RIG-I-Mediated STING Upregulation Restricts Herpes Simplex Virus 1 Infection. <b>2016</b> , 90, 9406-19	41
904	Nucleic acid sensing and innate immunity: signaling pathways controlling viral pathogenesis and autoimmunity. <b>2016</b> , 3, 132-141	11
903	Hepatitis C virus NS3-4A inhibits the peroxisomal MAVS-dependent antiviral signalling response. <b>2016</b> , 20, 750-7	37
902	What Really Rigs Up RIG-I?. <b>2016</b> , 8, 429-36	19
901	Molecular characterization and expression analyses of three RIG-I-like receptor signaling pathway genes (MDA5, LGP2 and MAVS) in Larimichthys crocea. <b>2016</b> , 55, 535-49	25
900	The TAR-RNA binding protein is required for immunoresponses triggered by Cardiovirus infection. <b>2016</b> , 480, 187-193	19
899	A Viral Deamidase Targets the Helicase Domain of RIG-I to Block RNA-Induced Activation. <b>2016</b> , 20, 770-784	68
898	Duck Tembusu Virus Nonstructural Protein 1 Antagonizes IFN-郡ignaling Pathways by Targeting VISA. <b>2016</b> , 197, 4704-4713	36
897	Intracellular osteopontin stabilizes TRAF3 to positively regulate innate antiviral response. <b>2016</b> , 6, 23771	17
896	Highly Pathogenic Porcine Reproductive and Respiratory Syndrome Virus Nsp4 Cleaves VISA to Impair Antiviral Responses Mediated by RIG-I-like Receptors. <b>2016</b> , 6, 28497	25
895	The important roles of type I interferon and interferon-inducible genes in systemic lupus erythematosus. <b>2016</b> , 40, 542-549	26
894	Syndecan-4 negatively regulates antiviral signalling by mediating RIG-I deubiquitination via CYLD. <b>2016</b> , 7, 11848	26
893	PPM1A silences cytosolic RNA sensing and antiviral defense through direct dephosphorylation of MAVS and TBK1. <b>2016</b> , 2, e1501889	42
892	USP18 recruits USP20 to promote innate antiviral response through deubiquitinating STING/MITA. <b>2016</b> , 26, 1302-1319	62
891	Cytotoxic effects of NF- <b>B</b> inhibitors in combination with anti-herpes agents on Epstein-Barr virus-positive gastric carcinoma in vitro. <b>2016</b> , 14, 2359-67	3

890	Double-stranded RNA analog and type I interferon regulate expression of Trem paired receptors in murine myeloid cells. <b>2016</b> , 17, 9	1
889	Esterase D enhances type I interferon signal transduction to suppress foot-and-mouth disease virus replication. <b>2016</b> , 75, 112-21	12
888	Dengue Virus Subverts Host Innate Immunity by Targeting Adaptor Protein MAVS. <b>2016</b> , 90, 7219-7230	57
887	Molecular characterization and expression analysis of mitochondrial antiviral signaling protein gene in sea perch, Lateolabrax japonicus. <b>2016</b> , 55, 188-93	26
886	NOD2 in zebrafish functions in antibacterial and also antiviral responses via NF- <b>B</b> , and also MDA5, RIG-I and MAVS. <b>2016</b> , 55, 173-85	39
885	Evasion of host antiviral innate immunity by HSV-1, an update. <b>2016</b> , 13, 38	98
884	Stimulating the RIG-I pathway to kill cells in the latent HIV reservoir following viral reactivation. <b>2016</b> , 22, 807-11	57
883	RNF123 has an E3 ligase-independent function in RIG-I-like receptor-mediated antiviral signaling. <b>2016</b> , 17, 1155-68	12
882	Characterization and immune response expression of the Rig-I-like receptor mda5 in common carp Cyprinus carpio. <b>2016</b> , 88, 2188-202	35
881	Krppel-like factor 4 negatively regulates cellular antiviral immune response. <b>2016</b> , 13, 65-72	31
880	Critical role of RIG-I-like receptors in inflammation in chronic obstructive pulmonary disease. <b>2016</b> , 10, 22-31	23
879	The Thr300Ala variant in ATG16L1 is associated with improved survival in human colorectal cancer and enhanced production of type I interferon. <b>2016</b> , 65, 456-64	47
878	Measuring Monomer-to-Filament Transition of MAVS as an In Vitro Activity Assay for RIG-I-Like Receptors. <b>2016</b> , 1390, 131-42	5
877	How does rhinovirus cause the common cold cough?. <b>2016</b> , 3, e000118	19
876	Cutting Edge: The RIG-I Ligand 3pRNA Potently Improves CTL Cross-Priming and Facilitates Antiviral Vaccination. <b>2016</b> , 196, 2439-43	30
875	Spring Viremia of Carp Virus N Protein Suppresses Fish IFN¶ Production by Targeting the Mitochondrial Antiviral Signaling Protein. <b>2016</b> , 196, 3744-53	61
874	Ubiquitin signaling in immune responses. <b>2016</b> , 26, 457-83	218
873	Nonstructural protein p39 of feline calicivirus suppresses host innate immune response by preventing IRF-3 activation. <b>2016</b> , 185, 62-7	11

# (2017-2016)

872	The VP3 structural protein of foot-and-mouth disease virus inhibits the IFN-比ignaling pathway. <b>2016</b> , 30, 1757-66	43
871	Activation of the MDA-5-IPS-1 Viral Sensing Pathway Induces Cancer Cell Death and Type I IFN-Dependent Antitumor Immunity. <b>2016</b> , 76, 2166-76	24
870	Type I Interferon response in olfactory bulb, the site of tick-borne flavivirus accumulation, is primarily regulated by IPS-1. <b>2016</b> , 13, 22	36
869	TANK-binding kinase 1-dependent or -independent signaling elicits the cell-type-specific innate immune responses induced by the adenovirus vector. <b>2016</b> , 28, 105-15	9
868	Structural and Thermodynamic Effects of Macrocyclization in HCV NS3/4A Inhibitor MK-5172. <b>2016</b> , 11, 900-9	32
867	Mito-Morphosis: Mitochondrial Fusion, Fission, and Cristae Remodeling as Key Mediators of Cellular Function. <b>2016</b> , 78, 505-31	371
866	Molecular cloning and functional characterization of duck mitochondrial antiviral-signaling protein (MAVS). <b>2016</b> , 56, 1-6	14
865	Autoubiquitination of TRIM26 links TBK1 to NEMO in RLR-mediated innate antiviral immune response. <b>2016</b> , 8, 31-43	47
864	Interindividual variation in gene expression responses and metabolite formation in acetaminophen-exposed primary human hepatocytes. <b>2016</b> , 90, 1103-15	14
863	Melanoma differentiation-associated gene 5 is involved in the induction of stress granules and autophagy by protonophore CCCP. <b>2016</b> , 397, 67-74	2
862	Viral evasion of DNA-stimulated innate immune responses. <b>2017</b> , 14, 4-13	53
861	Concerted action of histone methyltransferases G9a and PRMT-1 regulates PGC-1ERIG-I axis in IFNItreated glioma cells. <b>2017</b> , 89, 185-193	8
860	Phylogenetic Analysis and Functional Characterization of the Influenza A H5N1 PB2 Gene. <b>2017</b> , 64, 374-388	1
859	Protein synthesis inhibition and GADD34 control IFN-theterogeneous expression in response to dsRNA. <b>2017</b> , 36, 761-782	40
858	Activation and pathogenic manipulation of the sensors of the innate immune system. <b>2017</b> , 19, 229-237	28
857	Modulation of the innate immune-related genes expression in H9N2 avian influenza virus-infected chicken macrophage-like cells (HD11) in response to Escherichia coli LPS stimulation. <b>2017</b> , 111, 36-42	14
856	Autophagy regulates MAVS signaling activation in a phosphorylation-dependent manner in microglia. <b>2017</b> , 24, 276-287	38
855	Innate Immunity Signaling. <b>2017</b> , 245-260	O

854	Laboratory of genetics and physiology 2 (LGP2) plays an essential role in hepatitis C virus infection-induced interferon responses. <b>2017</b> , 65, 1478-1491	21
853	Differential expression of innate immune response genes in clinical phases of chronic hepatitis B infection. <b>2017</b> , 24, 776-788	5
852	Retinoic Acid Inducible Gene 1 Protein (RIG1)-Like Receptor Pathway Is Required for Efficient Nuclear Reprogramming. <b>2017</b> , 35, 1197-1207	19
851	CARD and TM of MAVS of black carp play the key role in its self-association and antiviral ability. <b>2017</b> , 63, 261-269	26
850	The molecular mechanisms of signaling by cooperative assembly formation in innate immunity pathways. <b>2017</b> , 86, 23-37	68
849	Innate immunity to RNA virus is regulated by temporal and reversible sumoylation of RIG-I and MDA5. <b>2017</b> , 214, 973-989	67
848	Identification of TBK1 complexes required for the phosphorylation of IRF3 and the production of interferon <b>#2017</b> , 474, 1163-1174	34
847	Intracellular Nucleic Acid Detection in Autoimmunity. <b>2017</b> , 35, 313-336	130
846	Multifaceted roles of TRIM38 in innate immune and inflammatory responses. 2017, 14, 331-338	45
845	Type-I-interferons in infection and cancer: Unanticipated dynamics with therapeutic implications. <b>2017</b> , 6, e1314424	69
844	USP19 suppresses cellular type I interferon signaling by targeting TRAF3 for deubiquitination. <b>2017</b> , 12, 767-779	14
843	Disruption of MDA5-Mediated Innate Immune Responses by the 3C Proteins of Coxsackievirus A16, Coxsackievirus A6, and Enterovirus D68. <b>2017</b> , 91,	40
842	Type 1 Interferon in the Human Intestine-A Co-ordinator of the Immune Response to the Microbiota. <b>2017</b> , 23, 524-533	17
841	Epigenetic regulator CXXC5 recruits DNA demethylase Tet2 to regulate TLR7/9-elicited IFN response in pDCs. <b>2017</b> , 214, 1471-1491	52
840	Mitochondrial C11orf83 is a potent Antiviral Protein Independent of interferon production. <b>2017</b> , 7, 44303	3
839	The molluscum contagiosum virus death effector domain containing protein MC160 RxDL motifs are not required for its known viral immune evasion functions. <b>2017</b> , 53, 522-531	3
838	Encephalomyocarditis virus 3C protease attenuates type I interferon production through disrupting the TANK-TBK1-IKK-RF3 complex. <b>2017</b> , 474, 2051-2065	30
837	A Novel Agonist of the TRIF Pathway Induces a Cellular State Refractory to Replication of Zika, Chikungunya, and Dengue Viruses. <b>2017</b> , 8,	27

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836	Ube2D3 and Ube2N are essential for RIG-I-mediated MAVS aggregation in antiviral innate immunity. <b>2017</b> , 8, 15138	51
835	Grass Carp Reovirus VP41 Targets Fish MITA To Abrogate the Interferon Response. <b>2017</b> , 91,	20
834	Impairment of the type I interferon response by HIV-1: Potential targets for HIV eradication. <b>2017</b> , 37, 1-16	21
833	Regulating STING in health and disease. <b>2017</b> , 14, 11	41
832	ZBP1/DAI ubiquitination and sensing of influenza vRNPs activate programmed cell death. <b>2017</b> , 214, 2217-2229	88
831	Pattern recognition receptors in grass carp Ctenopharyngodon idella: I. Organization and expression analysis of TLRs and RLRs. <b>2017</b> , 76, 93-104	31
830	Multiple truncated isoforms of MAVS prevent its spontaneous aggregation in antiviral innate immune signalling. <b>2017</b> , 8, 15676	30
829	Lck/Hck/Fgr-Mediated Tyrosine Phosphorylation Negatively Regulates TBK1 to Restrain Innate Antiviral Responses. <b>2017</b> , 21, 754-768.e5	18
828	Recognition of Viral RNA by Pattern Recognition Receptors in the Induction of Innate Immunity and Excessive Inflammation During Respiratory Viral Infections. <b>2017</b> , 30, 408-420	34
827	The dynamic interacting landscape of MAPL reveals essential functions for SUMOylation in innate immunity. <b>2017</b> , 7, 107	15
826	Establishment of a human hepatocellular cell line capable of maintaining long-term replication of hepatitis B virus. <b>2017</b> , 29, 109-120	4
825	Cytosolic nucleic acid sensors and innate immune regulation. <b>2017</b> , 36, 74-88	52
824	Inducible TAP1 Negatively Regulates the Antiviral Innate Immune Response by Targeting the TAK1 Complex. <b>2017</b> , 198, 3690-3704	20
823	Inflammasome Activation Triggers Caspase-1-Mediated Cleavage of cGAS to Regulate Responses to DNA Virus Infection. <b>2017</b> , 46, 393-404	123
822	RNA virus receptor Rig-I monitors gut microbiota and inhibits colitis-associated colorectal cancer. <b>2017</b> , 36, 2	28
821	Beyond sensing: Retinoic acid inducible gene-I (RIG-I) continues to expand its antiviral effector functions. <b>2017</b> , 65, 1792-1795	1
820	TTLL12 Inhibits the Activation of Cellular Antiviral Signaling through Interaction with VISA/MAVS. <b>2017</b> , 198, 1274-1284	10
819	cDNA microarray assays to evaluate immune responses following intracranial injection of baculoviral vectors in non-human primates. <b>2017</b> , 140, 320-333	4

818	The function of NOD-like receptors in central nervous system diseases. <b>2017</b> , 95, 1565-1573	16
817	The regulation of acute immune responses to the bacterial lung pathogen. 2017, 101, 875-886	12
816	The tyrosine kinase Src promotes phosphorylation of the kinase TBK1 to facilitate type I interferon production after viral infection. <b>2017</b> , 10,	36
815	The ubiquitin E3 ligase TRIM31 promotes aggregation and activation of the signaling adaptor MAVS through Lys63-linked polyubiquitination. <i>Nature Immunology</i> , <b>2017</b> , 18, 214-224	148
814	Necroptosis in development, inflammation and disease. <b>2017</b> , 18, 127-136	432
813	ArfGAP Domain-Containing Protein 2 (ADAP2) Integrates Upstream and Downstream Modules of RIG-I Signaling and Facilitates Type I Interferon Production. <b>2017</b> , 37,	7
812	NLRX1 Mediates MAVS Degradation To Attenuate the Hepatitis C Virus-Induced Innate Immune Response through PCBP2. <b>2017</b> , 91,	47
811	ASK family in infection and inflammatory disease. <b>2017</b> , 66, 37-45	2
810	Characterization of the Mollusc RIG-I/MAVS Pathway Reveals an Archaic Antiviral Signalling Framework in Invertebrates. <b>2017</b> , 7, 8217	27
809	PACT is required for MDA5-mediated immunoresponses triggered by Cardiovirus infection via interaction with LGP2. <b>2017</b> , 494, 227-233	13
808	Macrophages and Mitochondria: A Critical Interplay Between Metabolism, Signaling, and the Functional Activity. <b>2017</b> , 133, 1-36	28
807	RNA-virus proteases counteracting host innate immunity. <b>2017</b> , 591, 3190-3210	45
806	Heartland virus NSs protein disrupts host defenses by blocking the TBK1 kinase-IRF3 transcription factor interaction and signaling required for interferon induction. <b>2017</b> , 292, 16722-16733	24
805	Activation of the Innate Immune Receptors: Guardians of the Micro Galaxy: Activation and Functions of the Innate Immune Receptors. <b>2017</b> , 1024, 1-35	9
804	Transflammation: Innate immune signaling in nuclear reprogramming. 2017, 120, 133-141	9
803	Tumour viruses and innate immunity. <b>2017</b> , 372,	20
802	The RAB2B-GARIL5 Complex Promotes Cytosolic DNA-Induced Innate Immune Responses. <b>2017</b> , 20, 2944-29	54 <sub>14</sub>
801	NEMO-IKKIAre Essential for IRF3 and NF-B Activation in the cGAS-STING Pathway. 2017, 199, 3222-3233	102

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800	Role of Viral Hemorrhagic Septicemia Virus Matrix (M) Protein in Suppressing Host Transcription. <b>2017</b> , 91,	25
799	Mitochondrial dysfunction as a trigger of innate immune responses and inflammation. <b>2017</b> , 391, 54-63	89
798	CXCL10 is produced in hepatitis A virus-infected cells in an IRF3-dependent but IFN-independent manner. <b>2017</b> , 7, 6387	22
797	Negative regulation of the RLH signaling by the E3 ubiquitin ligase RNF114. <b>2017</b> , 99, 186-193	17
796	Methods to Visualize MAVS Subcellular Localization. 2017, 1656, 131-142	5
795	Aging impairs both primary and secondary RIG-I signaling for interferon induction in human monocytes. <b>2017</b> , 10,	72
794	The RNA binding protein La/SS-B promotes RIG-I-mediated type I and type III IFN responses following Sendai viral infection. <b>2017</b> , 7, 14537	6
793	Cytosolic Recognition of RNA Drives the Immune Response to Heterologous Erythrocytes. <b>2017</b> , 21, 1624-1638	11
792	Single-cell analysis of early antiviral gene expression reveals a determinant of stochastic IFNB1 expression. <b>2017</b> , 9, 857-867	10
791	Functional characterization and subcellular localization of miiuy croaker cytosolic MITA involved in activation NF- <b>B</b> pathway. <b>2017</b> , 68, 29-36	1
790	Induction of INKIT by Viral Infection Negatively Regulates Antiviral Responses through Inhibiting Phosphorylation of p65 and IRF3. <b>2017</b> , 22, 86-98.e4	22
789	Interaction of the innate immune system with positive-strand RNA virus replication organelles. <b>2017</b> , 37, 17-27	30
788	Differential Antagonism of Human Innate Immune Responses by Tick-Borne Nonstructural Proteins. <b>2017</b> , 2,	24
787	Intranasal Administration of Whole Inactivated Influenza Virus Vaccine as a Promising Influenza Vaccine Candidate. <b>2017</b> , 30, 451-462	20
786	Mitochondria as Molecular Platforms Integrating Multiple Innate Immune Signalings. <b>2017</b> , 429, 1-13	49
7 <sup>8</sup> 5	Subcellular Localizations of RIG-I, TRIM25, and MAVS Complexes. <b>2017</b> , 91,	53
784	The Type I Interferonopathies. <b>2017</b> , 68, 297-315	120
783	The contributions of lung macrophage and monocyte heterogeneity to influenza pathogenesis. <b>2017</b> , 95, 225-235	41

782	Prion-Like Polymerization in Immunity and Inflammation. <b>2017</b> , 9,	33
781	Toll-Like Receptor Signaling and Its Inducible Proteins. <b>2017</b> , 447-453	5
7 <sup>8</sup> 0	Attacked from All Sides: RNA Decay in Antiviral Defense. <b>2017</b> , 9,	42
779	Regulation and Sensing of Inflammasomes and Their Impact on Intestinal Health. 2017, 18,	15
778	Innate Immune Evasion Mediated by Flaviviridae Non-Structural Proteins. 2017, 9,	56
777	The Impact of the Interferon/TNF-Related Apoptosis-Inducing Ligand Signaling Axis on Disease Progression in Respiratory Viral Infection and Beyond. <b>2017</b> , 8, 313	36
776	Decidual Stromal Cell Necroptosis Contributes to Polyinosinic-Polycytidylic Acid-Triggered Abnormal Murine Pregnancy. <b>2017</b> , 8, 916	5
775	H-Ras Exerts Opposing Effects on Type I Interferon Responses Depending on Its Activation Status. <b>2017</b> , 8, 972	3
774	Poxviruses Utilize Multiple Strategies to Inhibit Apoptosis. <b>2017</b> , 9,	30
773	Association of IFIH1 and pro-inflammatory mediators: Potential new clues in SLE-associated pathogenesis. <b>2017</b> , 12, e0171193	5
772	Putative endogenous filovirus VP35-like protein potentially functions as an IFN antagonist but not a polymerase cofactor. <b>2017</b> , 12, e0186450	7
771	PKACs attenuate innate antiviral response by phosphorylating VISA and priming it for MARCH5-mediated degradation. <b>2017</b> , 13, e1006648	19
770	GPATCH3 negatively regulates RLR-mediated innate antiviral responses by disrupting the assembly of VISA signalosome. <b>2017</b> , 13, e1006328	16
769	Mitochondrial dynamics controls anti-tumour innate immunity by regulating CHIP-IRF1 axis stability. <b>2017</b> , 8, 1805	53
768	Avian infectious bronchitis virus disrupts the melanoma differentiation associated gene 5 (MDA5) signaling pathway by cleavage of the adaptor protein MAVS. <b>2017</b> , 13, 332	19
767	NSs protein of severe fever with thrombocytopenia syndrome virus suppresses interferon production through different mechanism than Rift Valley fever virus. <b>2017</b> , 61, 289-298	10
766	Delicate regulation of the cGAS-MITA-mediated innate immune response. <b>2018</b> , 15, 666-675	16
765	Proteome analysis of differential protein expression in porcine alveolar macrophages regulated by porcine reproductive and respiratory syndrome virus nsp1protein. <b>2018</b> , 54, 385-396	O

764	DDX3 in HIV-1 infection and sensing: A paradox. <b>2018</b> , 40, 32-39	11
763	Molecular Life Sciences. <b>2018</b> , 590-590	
762	Antiviral activity of transiently expressed mitochondrial antiviral signaling adapter, MAVS orthologue from Asian seabass. <b>2018</b> , 76, 183-186	3
761	Hu Antigen R Regulates Antiviral Innate Immune Responses through the Stabilization of mRNA for Polo-like Kinase 2. <b>2018</b> , 200, 3814-3824	6
760	Mitochondria Restrict Growth of the Intracellular Parasite Toxoplasma gondii by Limiting Its Uptake of Fatty Acids. <b>2018</b> , 27, 886-897.e4	53
759	Identification, characterization and expression analysis of MAVS in Pelodiscus sinensis after challenge with Poly I:C. <b>2018</b> , 77, 222-232	1
758	Toll-like receptors 2 and 3 enhance melanogenesis and melanosome transport in human melanocytes. <b>2018</b> , 31, 570-584	16
757	Direct binding and internalization of diverse extracellular nucleic acid species through the collagenous domain of class A scavenger receptors. <b>2018</b> , 96, 922-934	5
756	RIG-I-Like Receptor and Toll-Like Receptor Signaling Pathways Cause Aberrant Production of Inflammatory Cytokines/Chemokines in a Severe Fever with Thrombocytopenia Syndrome Virus Infection Mouse Model. <b>2018</b> , 92,	26
755	Defective RNA sensing by RIG-I in severe influenza virus infection. <b>2018</b> , 192, 366-376	28
754	Molecular Life Sciences. <b>2018</b> , 591-610	
753	microRNA-210 participates in regulating RIG-I signaling pathway via targeting DUBA in miiuy croaker after poly(I:C) stimulation. <b>2018</b> , 77, 1-7	8
752	Monoclonal Antibodies against Occludin Completely Prevented Hepatitis C Virus Infection in a Mouse Model. <b>2018</b> , 92,	17
75 <sup>1</sup>	Targeted Elimination of Peroxisomes During Viral Infection: Lessons from HIV and Other Viruses. <b>2018</b> , 37, 417-421	6
75°	Lung-Derived Exosomal miR-483-3p Regulates the Innate Immune Response to Influenza Virus Infection. <b>2018</b> , 217, 1372-1382	42
749	Human Rhinovirus 3C protease cleaves RIPK1, concurrent with caspase 8 activation. <b>2018</b> , 8, 1569	19
748	Molecular Life Sciences. <b>2018</b> , 539-543	
747	Encyclopedia of Signaling Molecules. <b>2018</b> , 4497-4497	

746 Encyclopedia of Signaling Molecules. **2018**, 4699-4699

745	Encyclopedia of Signaling Molecules. <b>2018</b> , 4752-4752	
744	Identification of new type I interferon-stimulated genes and investigation of their involvement in IFN-铀ctivation. <b>2018</b> , 9, 799-807	12
743	Emerging Alphaviruses Are Sensitive to Cellular States Induced by a Novel Small-Molecule Agonist of the STING Pathway. <b>2018</b> , 92,	27
742	Encyclopedia of Signaling Molecules. <b>2018</b> , 4433-4438	
741	Differential gene modulation of pattern-recognition receptor TLR and RIG-I-like and downstream mediators on intestinal mucosa of pigs infected with PEDV non S-INDEL and PEDV S-INDEL strains. <b>2018</b> , 517, 188-198	13
740	The Human Papillomavirus E6 Oncoprotein Targets USP15 and TRIM25 To Suppress RIG-I-Mediated Innate Immune Signaling. <b>2018</b> , 92,	62
739	Negative regulation of MAVS-mediated innate immune response by ASC. <b>2018</b> , 445, 35-43	3
738	LRRC25 inhibits type I IFN signaling by targeting ISG15-associated RIG-I for autophagic degradation. <b>2018</b> , 37, 351-366	77
737	Quantitative Proteomics Identified TTC4 as a TBK1 Interactor and a Positive Regulator of SeV-Induced Innate Immunity. <b>2018</b> , 18, 1700403	7
736	Beyond self-eating: The control of nonautophagic functions and signaling pathways by autophagy-related proteins. <b>2018</b> , 217, 813-822	70
735	House dust mite impairs antiviral response in asthma exacerbation models through its effects on TLR3. <b>2018</b> , 73, 1053-1063	25
734	Paramyxovirus V Proteins Interact with the RIG-I/TRIM25 Regulatory Complex and Inhibit RIG-I Signaling. <b>2018</b> , 92,	43
733	The Effects of Dendritic Cell Hypersensitivity on Persistent Viral Infection. <b>2018</b> , 200, 1335-1346	5
732	Activation of TLR3 and its adaptor TICAM-1 increases miR-21 levels in extracellular vesicles released from human cells. <b>2018</b> , 500, 744-750	8
731	Role of interferon-stimulated genes in regulation of HCV infection and type I interferon anti-HCV activity. <b>2018</b> , 13, 353-359	1
730	Innate responses to gene knockouts impact overlapping gene networks and vary with respect to resistance to viral infection. <b>2018</b> , 115, E3230-E3237	10
729	MAVS induces a host cell defense to inhibit CSFV infection. <b>2018</b> , 163, 1805-1821	5

## (2018-2018)

728	Protein 1 Regulates Viral Fitness and Host Innate Immunity. <b>2018</b> , 92,	16
7 <del>2</del> 7	Oncolytic Reovirus Inhibits Immunosuppressive Activity of Myeloid-Derived Suppressor Cells in a TLR3-Dependent Manner. <b>2018</b> , 200, 2987-2999	20
726	The respiratory syncytial virus fusion protein formulated with a polymer-based adjuvant induces multiple signaling pathways in macrophages. <b>2018</b> , 36, 2326-2336	3
725	Transflammation: How Innate Immune Activation and Free Radicals Drive Nuclear Reprogramming. <b>2018</b> , 29, 205-218	5
724	IFITM3 inhibits virus-triggered induction of type I interferon by mediating autophagosome-dependent degradation of IRF3. <b>2018</b> , 15, 858-867	40
723	Toll-like receptor 3 in nasal CD103 dendritic cells is involved in immunoglobulin A production. <b>2018</b> , 11, 82-96	17
722	Grouper MAVS functions as a crucial antiviral molecule against nervous necrosis virus infection. <b>2018</b> , 72, 14-22	20
721	DNAJB1/HSP40 Suppresses Melanoma Differentiation-Associated Gene 5-Mitochondrial Antiviral Signaling Protein Function in Conjunction with HSP70. <b>2018</b> , 10, 44-55	13
720	Inducible microRNA-122 modulates RIG-I signaling pathway via targeting DAK in miiuy croaker after poly(I:C) stimulation. <b>2018</b> , 78, 52-60	12
719	Innate Immune Activation. 2018,	O
719 718	Innate Immune Activation. 2018,  Detection and Quantification of MAVS Aggregation via Confocal Microscopy. 2018, 1714, 237-247	0
718	Detection and Quantification of MAVS Aggregation via Confocal Microscopy. <b>2018</b> , 1714, 237-247	1
718 717	Detection and Quantification of MAVS Aggregation via Confocal Microscopy. <b>2018</b> , 1714, 237-247  Regulation of MAVS activation through post-translational modifications. <b>2018</b> , 50, 75-81  Molecular characterization, ontogeny and expression profiling of mitochondrial antiviral signaling	53
718 717 716	Detection and Quantification of MAVS Aggregation via Confocal Microscopy. <b>2018</b> , 1714, 237-247  Regulation of MAVS activation through post-translational modifications. <b>2018</b> , 50, 75-81  Molecular characterization, ontogeny and expression profiling of mitochondrial antiviral signaling adapter, MAVS from Asian seabass Lates calcarifer, Bloch (1790). <b>2018</b> , 79, 175-185	<ul><li>53</li><li>5</li></ul>
718 717 716 715	Detection and Quantification of MAVS Aggregation via Confocal Microscopy. 2018, 1714, 237-247  Regulation of MAVS activation through post-translational modifications. 2018, 50, 75-81  Molecular characterization, ontogeny and expression profiling of mitochondrial antiviral signaling adapter, MAVS from Asian seabass Lates calcarifer, Bloch (1790). 2018, 79, 175-185  Checks and Balances between Autophagy and Inflammasomes during Infection. 2018, 430, 174-192	1 53 5 28
718 717 716 715 714	Detection and Quantification of MAVS Aggregation via Confocal Microscopy. 2018, 1714, 237-247  Regulation of MAVS activation through post-translational modifications. 2018, 50, 75-81  Molecular characterization, ontogeny and expression profiling of mitochondrial antiviral signaling adapter, MAVS from Asian seabass Lates calcarifer, Bloch (1790). 2018, 79, 175-185  Checks and Balances between Autophagy and Inflammasomes during Infection. 2018, 430, 174-192  HAUS8 regulates RLR-VISA antiviral signaling positively by targeting VISA. 2018, 18, 2458-2466	1 53 5 28

710	O-GlcNAc Transferase Links Glucose Metabolism to MAVS-Mediated Antiviral Innate Immunity. <b>2018</b> , 24, 791-803.e6	47
709	Inflammasome-Independent Role of NLRP3 Mediates Mitochondrial Regulation in Renal Injury. <b>2018</b> , 9, 2563	71
708	parasites block the activation of the inflammasome by inhibiting maturation of IL-1# <b>2018</b> , 5, 137-149	17
707	Influenza Virus NS1 Protein-RNA Interactome Reveals Intron Targeting. 2018, 92,	14
706	Interplay between Cellular Metabolism and Cytokine Responses during Viral Infection. 2018, 10,	17
705	Classical swine fever virus non-structural protein 4B binds tank-binding kinase 1. <b>2018</b> , 43, 947-957	6
704	NSs Protein of Sandfly Fever Sicilian Phlebovirus Counteracts Interferon (IFN) Induction by Masking the DNA-Binding Domain of IFN Regulatory Factor 3. <b>2018</b> , 92,	13
703	Low level expression of the Mitochondrial Antiviral Signaling protein (MAVS) associated with long-term nonprogression in SIV-infected rhesus macaques. <b>2018</b> , 15, 159	2
702	The Fly Way of Antiviral Resistance and Disease Tolerance. <b>2018</b> , 140, 59-93	4
701	Detection of Microbial Infections Through Innate Immune Sensing of Nucleic Acids. <b>2018</b> , 72, 447-478	192
701 700	Detection of Microbial Infections Through Innate Immune Sensing of Nucleic Acids. <b>2018</b> , 72, 447-478  TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. <b>2018</b> , 201, 183-192	192 33
<u> </u>		
700	TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. <b>2018</b> , 201, 183-192  Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based	33
700 699	TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. <b>2018</b> , 201, 183-192  Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based analysis. <b>2018</b> , 46, 3169-3186  LGP2 virus sensor regulates gene expression network mediated by TRBP-bound microRNAs. <b>2018</b> ,	33
700 699 698	TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. 2018, 201, 183-192  Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based analysis. 2018, 46, 3169-3186  LGP2 virus sensor regulates gene expression network mediated by TRBP-bound microRNAs. 2018, 46, 9134-9147  Toll-Like Receptors and RIG-I-Like Receptors Play Important Roles in Resisting Flavivirus. 2018,	<ul><li>33</li><li>5</li><li>23</li></ul>
700 699 698	TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. 2018, 201, 183-192  Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based analysis. 2018, 46, 3169-3186  LGP2 virus sensor regulates gene expression network mediated by TRBP-bound microRNAs. 2018, 46, 9134-9147  Toll-Like Receptors and RIG-I-Like Receptors Play Important Roles in Resisting Flavivirus. 2018, 2018, 6106582	<ul><li>33</li><li>5</li><li>23</li><li>14</li></ul>
700 699 698 697	TRIM29 Negatively Regulates the Type I IFN Production in Response to RNA Virus. 2018, 201, 183-192  Combined roles of ATP and small hairpin RNA in the activation of RIG-I revealed by solution-based analysis. 2018, 46, 3169-3186  LGP2 virus sensor regulates gene expression network mediated by TRBP-bound microRNAs. 2018, 46, 9134-9147  Toll-Like Receptors and RIG-I-Like Receptors Play Important Roles in Resisting Flavivirus. 2018, 2018, 6106582  Viruses Seen by Our Cells: The Role of Viral RNA Sensors. 2018, 2018, 9480497	<ul><li>33</li><li>5</li><li>23</li><li>14</li><li>36</li></ul>

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692	The Solute Carrier Transporter SLC15A3 Participates in Antiviral Innate Immune Responses against Herpes Simplex Virus-1. <b>2018</b> , 2018, 5214187	8
691	Regulation of RIG-I Activation by K63-Linked Polyubiquitination. <b>2017</b> , 8, 1942	44
690	The Absent in Melanoma 2-Like Receptor IFN-Inducible Protein 16 as an Inflammasome Regulator in Systemic Lupus Erythematosus: The Dark Side of Sensing Microbes. <b>2018</b> , 9, 1180	16
689	RIG-I-Like Receptors as Novel Targets for Pan-Antivirals and Vaccine Adjuvants Against Emerging and Re-Emerging Viral Infections. <b>2018</b> , 9, 1379	28
688	Role of Pattern Recognition Receptors in KSHV Infection. <b>2018</b> , 10,	10
68 <sub>7</sub>	Preliminary investigations on the role of Drp-1 dependent mitochondrial fission in attenuating RLR downstream signaling during nervous necrosis virus infection. <b>2018</b> , 80, 618-623	3
686	Virus Infection Triggers MAVS Polymers of Distinct Molecular Weight. 2018, 10,	10
685	Enteric Virome Sensing-Its Role in Intestinal Homeostasis and Immunity. 2018, 10,	34
684	Cytoplasmic Translocation of Nucleolar Protein NOP53 Promotes Viral Replication by Suppressing Host Defense. <b>2018</b> , 10,	1
683	Ectromelia Virus Affects Mitochondrial Network Morphology, Distribution, and Physiology in Murine Fibroblasts and Macrophage Cell Line. <b>2018</b> , 10,	7
682	Tick-Borne Flaviviruses and the Type I Interferon Response. <b>2018</b> , 10,	19
681	Regulation of Cellular Antiviral Signaling by Modifications of Ubiquitin and Ubiquitin-like Molecules. <b>2018</b> , 18, e4	13
680	Nucleic Acid Sensing Machinery: Targeting Innate Immune System for Cancer Therapy. <b>2018</b> , 13, 2-17	17
679	TRIM21 Promotes Innate Immune Response to RNA Viral Infection through Lys27-Linked Polyubiquitination of MAVS. <b>2018</b> , 92,	59
678	Cytosolic nucleic acid sensors of the innate immune system promote liver regeneration after partial hepatectomy. <b>2018</b> , 8, 12271	5
677	Cancer-Targeted Oncolytic Adenoviruses for Modulation of the Immune System. <b>2018</b> , 18, 124-138	11
676	Retinoic acid-inducible gene-I, melanoma differentiation-associated gene 5 and C-X-C motif chemokine ligand 10 are induced by a Toll-like receptor 3 agonist in human brain microvascular endothelial cells. <b>2018</b> , 9, 189-197	6
675	Harnessing RIG-I and intrinsic immunity in the tumor microenvironment for therapeutic cancer treatment. <b>2018</b> , 9, 29007-29017	45

674	Type I Interferon Induced and Antagonized by Foot-and-Mouth Disease Virus. 2018, 9, 1862	12
673	Immune signalling by supramolecular assemblies. <b>2018</b> , 155, 435-445	3
672	Positive regulatory role of c-Src-mediated TRIM25 tyrosine phosphorylation on RIG-I ubiquitination and RIG-I-mediated antiviral signaling pathway. <b>2018</b> , 332, 94-100	10
671	Cephalochordata: Branchiostoma. <b>2018</b> , 593-635	1
670	Mitochondria in innate immune signaling. <b>2018</b> , 202, 52-68	112
669	USP7-TRIM27 axis negatively modulates antiviral type I IFN signaling. <b>2018</b> , 32, 5238-5249	28
668	Molecular characterization and function analysis of three RIG-I-like receptor signaling pathway genes (MDA5, LGP2 and MAVS) in Oreochromis niloticus. <b>2018</b> , 82, 101-114	15
667	Cytoplasmic Mechanisms of Recognition and Defense of Microbial Nucleic Acids. <b>2018</b> , 34, 357-379	52
666	Inhibition of Microprocessor Function during the Activation of the Type I Interferon Response. <b>2018</b> , 23, 3275-3285	8
665	Inclusion bodies of human parainfluenza virus type 3 inhibit antiviral stress granule formation by shielding viral RNAs. <b>2018</b> , 14, e1006948	18
664	DHX29 functions as an RNA co-sensor for MDA5-mediated EMCV-specific antiviral immunity. <b>2018</b> , 14, e1006886	21
663	Induction of OTUD1 by RNA viruses potently inhibits innate immune responses by promoting degradation of the MAVS/TRAF3/TRAF6 signalosome. <b>2018</b> , 14, e1007067	44
662	Species-specific disruption of STING-dependent antiviral cellular defenses by the Zika virus NS2B3 protease. <b>2018</b> , 115, E6310-E6318	95
661	STAU1 binds to IBDV genomic double-stranded RNA and promotes viral replication via attenuation of MDA5-dependent #Interferon induction. <b>2019</b> , 33, 286-300	13
660	The Innate Antiviral Response in Animals: An Evolutionary Perspective from Flagellates to Humans. <b>2019</b> , 11,	13
659	The molluscum contagiosum virus protein MC163 inhibits TNF-Hnduced NF- <b>B</b> activation. <b>2019</b> , 14, 319-333	
658	Comparative Structure and Function Analysis of the RIG-I-Like Receptors: RIG-I and MDA5. <b>2019</b> , 10, 1586	121
657	Peroxisomes and Innate Immunity: Antiviral Response and Beyond. <b>2019</b> , 20,	20

656	Identification of a new autoinhibitory domain of interferon-beta promoter stimulator-1 (IPS-1) for the tight regulation of oligomerization-driven signal activation. <b>2019</b> , 517, 662-669	1
655	TRAF3IP3 mediates the recruitment of TRAF3 to MAVS for antiviral innate immunity. <b>2019</b> , 38, e102075	20
654	ADAR1: "Editor-in-Chief" of Cytoplasmic Innate Immunity. <b>2019</b> , 10, 1763	70
653	The FDA-Approved Oral Drug Nitazoxanide Amplifies Host Antiviral Responses and Inhibits Ebola Virus. <b>2019</b> , 19, 1279-1290	59
652	The heterogeneous nuclear ribonucleoprotein hnRNPM inhibits RNA virus-triggered innate immunity by antagonizing RNA sensing of RIG-I-like receptors. <b>2019</b> , 15, e1007983	7
651	Structure-guided design of immunomodulatory RNAs specifically targeting the cytoplasmic viral RNA sensor RIG-I. <b>2019</b> , 593, 3003-3014	2
650	Broad and systemic immune-modulating capacity of plant-derived dsRNA. <b>2019</b> , 31, 811-821	1
649	Zebrafish RPZ5 Degrades Phosphorylated IRF7 To Repress Interferon Production. <b>2019</b> , 93,	4
648	Black carp PRMT6 inhibits TBK1-IRF3/7 signaling during the antiviral innate immune activation. <b>2019</b> , 93, 108-115	13
647	Rhinovirus diversity and virulence factors. <b>2019</b> , 25-59	2
646	Altered gene expression profiles of the MDA5 signaling pathway in peripheral blood lymphocytes of chickens infected with avian reovirus. <b>2019</b> , 164, 2451-2458	5
645	Phosphorylation of MAVS/VISA by Nemo-like kinase (NLK) for degradation regulates the antiviral innate immune response. <b>2019</b> , 10, 3233	20
644	Vitamin D Alleviates Rotavirus Infection through a Microrna-155-5p Mediated Regulation of the TBK1/IRF3 Signaling Pathway In Vivo and In Vitro. <b>2019</b> , 20,	26
643	SLAMF9 regulates pDC homeostasis and function in health and disease. <b>2019</b> , 116, 16489-16496	9
642	Pattern recognition receptor-mediated innate immune responses in seminal vesicle epithelial cell and their impacts on cellular function <b>2019</b> , 101, 733-747	7
641	NAC1 Potentiates Cellular Antiviral Signaling by Bridging MAVS and TBK1. <b>2019</b> , 203, 1001-1011	7
640	Newcastle Disease Virus V Protein Degrades Mitochondrial Antiviral Signaling Protein To Inhibit Host Type I Interferon Production via E3 Ubiquitin Ligase RNF5. <b>2019</b> , 93,	29
639	The Interplay between Dengue Virus and the Human Innate Immune System: A Game of Hide and Seek. <b>2019</b> , 7,	10

638	RNA binding activates RIG-I by releasing an autorepressed signaling domain. <b>2019</b> , 5, eaax3641	8
637	Structural Immunology. <b>2019</b> ,	3
636	Herpes Simplex Virus Type 1 and Host Antiviral Immune Responses: An Update. <b>2019</b> , 32, 424-429	8
635	RNF34 functions in immunity and selective mitophagy by targeting MAVS for autophagic degradation. <b>2019</b> , 38, e100978	48
634	STING-Mediated IFI16 Degradation Negatively Controls Type I Interferon Production. <b>2019</b> , 29, 1249-1260.e4	23
633	Retrotransposons shuttling genetic and epigenetic information from the nuclear to the mitochondrial compartment: Do they play a pathogenetic role in scleroderma?. <b>2019</b> , 49, 42-58	1
632	Identification of a novel RIG-I isoform and its truncating variant in Japanese eel, Anguilla japonica. <b>2019</b> , 94, 373-380	5
631	MAVS O-GlcNAcylation Is Essential for Host Antiviral Immunity against Lethal RNA Viruses. <b>2019</b> , 28, 2386-2396.e5	29
630	Signaling Pathways of Type I and Type III Interferons and Targeted Therapies in Systemic Lupus Erythematosus. <b>2019</b> , 8,	27
629	Middle East respiratory syndrome coronavirus-encoded ORF8b strongly antagonizes IFN-⊞ promoter activation: its implication for vaccine design. <b>2019</b> , 57, 803-811	25
628	An optimized retinoic acid-inducible gene I agonist M8 induces immunogenic cell death markers in human cancer cells and dendritic cell activation. <b>2019</b> , 68, 1479-1492	9
627	RNA-Based Adjuvants: Immunoenhancing Effect on Antiviral Vaccines and Regulatory Considerations. <b>2019</b> , 39, 1-14	O
626	Apoptosis and Autophagy in Picornavirus Infection. <b>2019</b> , 10, 2032	9
625	Throw out the Map: Neuropathogenesis of the Globally Expanding California Serogroup of Orthobunyaviruses. <b>2019</b> , 11,	21
624	Concerted 2-5A-Mediated mRNA Decay and Transcription Reprogram Protein Synthesis in the dsRNA Response. <b>2019</b> , 75, 1218-1228.e6	25
623	ER-localized Hrd1 ubiquitinates and inactivates Usp15 to promote TLR4-induced inflammation during bacterial infection. <b>2019</b> , 4, 2331-2346	15
622	A Cytosolic Sensor, DDX41, Binds Double Stranded-DNA and Triggers the Activation of an Innate Antiviral Response in the Shrimp via the STING-Dependent Signaling Pathway. <b>2019</b> , 10, 2069	5
621	Innate Immune Evasion of Alphaherpesvirus Tegument Proteins. <b>2019</b> , 10, 2196	21

620	Immune Sensing of Aeroallergen-Associated Double-Stranded RNA Triggers an IFN Response and Modulates Type 2 Lung Inflammation. <b>2019</b> , 203, 2520-2531	6
619	Importance of Zika Virus NS5 Protein for Viral Replication. <b>2019</b> , 8,	15
618	Induction of PGRN by influenza virus inhibits the antiviral immune responses through downregulation of type I interferons signaling. <b>2019</b> , 15, e1008062	17
617	Sequence and expression analysis of the cytoplasmic pattern recognition receptor melanoma differentiation-associated gene 5 from the barbel chub Squaliobarbus curriculus. <b>2019</b> , 94, 485-496	3
616	Intracellular Sensors and Cellular Metabolism in Allogeneic Hematopoietic Stem Cell Transplantation. <b>2019</b> , 349-374	
615	Targeting nuclear proteins for control of viral replication. <b>2019</b> , 45, 495-513	5
614	Mitochondria: the indispensable players in innate immunity and guardians of the inflammatory response. <b>2019</b> , 13, 303-318	56
613	MAVS polymers smaller than 80 nm induce mitochondrial membrane remodeling and interferon signaling. <b>2019</b> , 286, 1543-1560	11
612	Extracellular vesicles from Kaposi Sarcoma-associated herpesvirus lymphoma induce long-term endothelial cell reprogramming. <b>2019</b> , 15, e1007536	31
611	The Interplay between Host Innate Immunity and Hepatitis E Virus. <b>2019</b> , 11,	9
610	The Interplay between Host Innate Immunity and Hepatitis E Virus. 2019, 11,  Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. 2019, 431, 4281-4289	9
	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like	
610	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. <b>2019</b> , 431, 4281-4289  Parkin Impairs Antiviral Immunity by Suppressing the Mitochondrial Reactive Oxygen Species-Nlrp3	4
610	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. 2019, 431, 4281-4289  Parkin Impairs Antiviral Immunity by Suppressing the Mitochondrial Reactive Oxygen Species-Nlrp3 Axis and Antiviral Inflammation. 2019, 16, 468-484  An NFB Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance	29
610 609 608	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. 2019, 431, 4281-4289  Parkin Impairs Antiviral Immunity by Suppressing the Mitochondrial Reactive Oxygen Species-Nlrp3 Axis and Antiviral Inflammation. 2019, 16, 468-484  An NFB Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance NFB via Distinct Mechanisms. 2019, 10, 1425  Human Hemoglobin Subunit Beta Functions as a Pleiotropic Regulator of RIG-I/MDA5-Mediated	4 29 16
610 609 608	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. 2019, 431, 4281-4289  Parkin Impairs Antiviral Immunity by Suppressing the Mitochondrial Reactive Oxygen Species-Nlrp3 Axis and Antiviral Inflammation. 2019, 16, 468-484  An NFB Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance NFB via Distinct Mechanisms. 2019, 10, 1425  Human Hemoglobin Subunit Beta Functions as a Pleiotropic Regulator of RIG-I/MDA5-Mediated Antiviral Innate Immune Responses. 2019, 93,  Zika virus circumvents host innate immunity by targeting the adaptor proteins MAVS and MITA.	4 29 16
610 609 608 607	Mechanisms of Non-segmented Negative Sense RNA Viral Antagonism of Host RIG-I-Like Receptors. 2019, 431, 4281-4289  Parkin Impairs Antiviral Immunity by Suppressing the Mitochondrial Reactive Oxygen Species-Nlrp3 Axis and Antiviral Inflammation. 2019, 16, 468-484  An NFB Activity Calculator to Delineate Signaling Crosstalk: Type I and II Interferons Enhance NFB via Distinct Mechanisms. 2019, 10, 1425  Human Hemoglobin Subunit Beta Functions as a Pleiotropic Regulator of RIG-I/MDA5-Mediated Antiviral Innate Immune Responses. 2019, 93,  Zika virus circumvents host innate immunity by targeting the adaptor proteins MAVS and MITA. 2019, 33, 9929-9944  Porcine Deltacoronavirus Nucleocapsid Protein Suppressed IFN-Production by Interfering Porcine	4 29 16 12

602	CHID1 positively regulates RLR antiviral signaling by targeting the RIG-I/VISA signalosome. <b>2019</b> , 91, 1668-1678	
601	Pattern Recognition by Melanoma Differentiation-Associated Gene 5 (Mda5) in Teleost Fish: A Review. <b>2019</b> , 10, 906	10
600	DHX15 Is a Coreceptor for RLR Signaling That Promotes Antiviral Defense Against RNA Virus Infection. <b>2019</b> , 39, 331-346	21
599	RIG-I Activation by a Designer Short RNA Ligand Protects Human Immune Cells against Dengue Virus Infection without Causing Cytotoxicity. <b>2019</b> , 93,	6
598	E3 ubiquitin ligases, the powerful modulator of innate antiviral immunity. <b>2019</b> , 340, 103915	18
597	Innate immunity in allergy. <b>2019</b> , 74, 1660-1674	24
596	NLRP12 Regulates Anti-viral RIG-I Activation via Interaction with TRIM25. <b>2019</b> , 25, 602-616.e7	36
595	Structural bioinformatics insights into the CARD-CARD interaction mediated by the mitochondrial antiviral-signaling protein of black carp. <b>2019</b> , 120, 12534-12543	4
594	MAVS of triploid hybrid of red crucian carp and allotetraploid possesses the improved antiviral activity compared with the counterparts of its parents. <b>2019</b> , 89, 18-26	7
593	ZAP, a CCCH-Type Zinc Finger Protein, Inhibits Porcine Reproductive and Respiratory Syndrome Virus Replication and Interacts with Viral Nsp9. <b>2019</b> , 93,	25
592	IPS-1 polymorphisms in regulating interferon response in HBV infection. <b>2019</b> , 13, 130-135	1
591	The Otubain YOD1 Suppresses Aggregation and Activation of the Signaling Adaptor MAVS through Lys63-Linked Deubiquitination. <b>2019</b> , 202, 2957-2970	19
590	Crosstalk Between Mammalian Antiviral Pathways. <b>2019</b> , 5,	5
589	Essential Roles for the Non-Canonical I <b>B</b> Kinases in Linking Inflammation to Cancer, Obesity, and Diabetes. <b>2019</b> , 8,	21
588	Generation and Culture of Mouse Embryonic Fibroblasts. <b>2019</b> , 1960, 85-91	6
587	THO Complex Subunit 7 Homolog Negatively Regulates Cellular Antiviral Response against RNA Viruses by Targeting TBK1. <b>2019</b> , 11,	5
586	Pattern Recognition Receptors in Autoinflammation. <b>2019</b> , 61-87	2
585	Influenza M2 protein regulates MAVS-mediated signaling pathway through interacting with MAVS and increasing ROS production. <b>2019</b> , 15, 1163-1181	32

584	Intracellular bacteria engage a STING-TBK1-MVB12b pathway to enable paracrine cGAS-STING signalling. <b>2019</b> , 4, 701-713	50
583	The stress granule protein G3BP1 binds viral dsRNA and RIG-I to enhance interferon-response. <b>2019</b> , 294, 6430-6438	46
582	Nucleic Acid Sensing in Allergic Disorders. <b>2019</b> , 345, 1-33	1
581	Role of Enteroviral RNA-Dependent RNA Polymerase in Regulation of MDA5-Mediated Beta Interferon Activation. <b>2019</b> , 93,	15
580	BinCARD2 as a positive regulator of interferon response in innate immunity. <b>2019</b> , 511, 287-293	1
579	The Downregulation of MicroRNA hsa-miR-340-5p in IAV-Infected A549 Cells Suppresses Viral Replication by Targeting RIG-I and OAS2. <b>2019</b> , 14, 509-519	18
578	Singleton-Merten Syndrome-like Skeletal Abnormalities in Mice with Constitutively Activated MDA5. <b>2019</b> , 203, 1356-1368	11
577	Cytoplasmic RNA Sensor Pathways and Nitazoxanide Broadly Inhibit Intracellular Mycobacterium tuberculosis Growth. <b>2019</b> , 22, 299-313	12
576	Immunology of Adenoviral Vectors in Cancer Therapy. <b>2019</b> , 15, 418-429	36
575	Global virus outbreaks: Interferons as 1st responders. <b>2019</b> , 43, 101300	81
574	Post-translational Control of Innate Immune Signaling Pathways by Herpesviruses. <b>2019</b> , 10, 2647	6
573	FOXO3a regulates rhinovirus-induced innate immune responses in airway epithelial cells. <b>2019</b> , 9, 18180	9
572	Differential remodeling of the electron transport chain is required to support TLR3 and TLR4 signaling and cytokine production in macrophages. <b>2019</b> , 9, 18801	9
571	Association Study Between Methylation in the Promoter Regions of cGAS, MAVS, and TRAF3 Genes and the Risk of Cervical Precancerous Lesions and Cervical Cancer in a Southern Chinese Population. <b>2019</b> , 10, 1123	1
570	Goose MAVS functions in RIG-I-mediated IFN-閩ignaling activation. <b>2019</b> , 93, 58-65	11
569	RACK1 attenuates RLR antiviral signaling by targeting VISA-TRAF complexes. <b>2019</b> , 508, 667-674	14
568	The 3'UTR of human MAVS mRNA contains multiple regulatory elements for the control of protein expression and subcellular localization. <b>2019</b> , 1862, 47-57	11
567	Induction of OTUD4 by viral infection promotes antiviral responses through deubiquitinating and stabilizing MAVS. <b>2019</b> , 29, 67-79	39

566	MicroRNA-155 promotes pro-inflammatory functions and augments apoptosis of monocytes/macrophages during Vibrio anguillarum infection in ayu, Plecoglossus altivelis. <b>2019</b> , 86, 70-81	17
565	Interaction Between Susceptibility Loci in and Genes, and High-risk HPV Infection on the Risk of Cervical Precancerous Lesions in Chinese Population. <b>2019</b> , 12, 57-66	1
564	Virus-induced accumulation of intracellular bile acids activates the TGR5-therestin-SRC axis to enable innate antiviral immunity. <b>2019</b> , 29, 193-205	31
563	ABIN-1 heterozygosity sensitizes to innate immune response in both RIPK1-dependent and RIPK1-independent manner. <b>2019</b> , 26, 1077-1088	10
562	Activating the Nucleic Acid-Sensing Machinery for Anticancer Immunity. 2019, 344, 173-214	15
561	An update on enterovirus 71 infection and interferon type I response. <b>2019</b> , 29, e2016	11
560	SAMHD1 Suppression of Antiviral Immune Responses. <b>2019</b> , 27, 254-267	15
559	Zebrafish MVP Recruits and Degrades TBK1 To Suppress IFN Production. <b>2019</b> , 202, 559-566	11
558	Proton leak regulates mitochondrial reactive oxygen species generation in endothelial cell activation and inflammation - A novel concept. <b>2019</b> , 662, 68-74	34
557	Zebrafish NDRG1a Negatively Regulates IFN Induction by Promoting the Degradation of IRF7. <b>2019</b> , 202, 119-130	14
556	Identification of four type I IFNs from Japanese eel with differential expression properties and Mx promoter inducibility. <b>2019</b> , 91, 62-71	10
555	The Role of Nucleic Acid Sensing in Controlling Microbial and Autoimmune Disorders. <b>2019</b> , 345, 35-136	17
554	FKBP8 inhibits virus-induced RLR-VISA signaling. <b>2019</b> , 91, 482-492	4
553	At the crossway of ER-stress and proinflammatory responses. <b>2019</b> , 286, 297-310	39
552	SNX8 modulates the innate immune response to RNA viruses by regulating the aggregation of VISA. <b>2020</b> , 17, 1126-1135	11
551	Oligomerization of RIG-I and MDA5 2CARD domains. <b>2020</b> , 29, 521-526	6
550	The Role of Innate Immunity in Regulating Rotavirus Replication, Pathogenesis, and Host Range Restriction and the Implications for Live Rotaviral Vaccine Development. <b>2020</b> , 683-697	1
549	Inhibition of a novel coumarin on an aquatic rhabdovirus by targeting the early stage of viral infection demonstrates potential application in aquaculture. <b>2020</b> , 174, 104672	33

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548	Identification of nucleoporin 93 (Nup93) that mediates antiviral innate immune responses. <b>2020</b> , 521, 1077-1082	4
547	RIG-I-based immunotherapy enhances survival in preclinical AML models and sensitizes AML cells to checkpoint blockade. <b>2020</b> , 34, 1017-1026	19
546	The role of mitochondria-associated membranes in cellular homeostasis and diseases. <b>2020</b> , 350, 119-196	32
545	SNX5 inhibits RLR-mediated antiviral signaling by targeting RIG-I-VISA signalosome. <b>2020</b> , 522, 889-896	2
544	Characterization and immune function of the interferon-promoter stimulator-1 in the barbel chub, Squaliobarbus curriculus. <b>2020</b> , 104, 103571	2
543	The influenza NS1 protein modulates RIG-I activation via a strain-specific direct interaction with the second CARD of RIG-I. <b>2020</b> , 295, 1153-1164	8
542	The RNA binding protein Quaking represses host interferon response by downregulating MAVS. <b>2020</b> , 17, 366-380	7
541	LGP2 virus sensor enhances apoptosis by upregulating apoptosis regulatory genes through TRBP-bound miRNAs during viral infection. <b>2020</b> , 48, 1494-1507	8
540	Structural features and antiviral function of the MDA5 gene in ducks (Anas platyrhynchos). <b>2020</b> , 100, 359-367	
539	ATR inhibition potentiates ionizing radiation-induced interferon response via cytosolic nucleic acid-sensing pathways. <b>2020</b> , 39, e104036	39
538	Development of a Novel Class of Self-Assembling dsRNA Cancer Therapeutics: A Proof-of-Concept Investigation. <b>2020</b> , 18, 419-431	
537	MDA5 Is an Essential Sensor of a Pathogen-Associated Molecular Pattern Associated with Vitality That Is Necessary for Host Resistance against. <b>2020</b> , 205, 3058-3070	5
536	IFN Regulatory Factor 3 in Health and Disease. <b>2020</b> , 205, 1981-1989	13
535	Extended interaction networks with HCV protease NS3-4A substrates explain the lack of adaptive capability against protease inhibitors. <b>2020</b> , 295, 13862-13874	3
534	The Nucleoprotein of H7N9 Influenza Virus Positively Regulates TRAF3-Mediated Innate Signaling and Attenuates Viral Virulence in Mice. <b>2020</b> , 94,	3
533	Immune Sensing Mechanisms that Discriminate Self from Altered Self and Foreign Nucleic Acids. <b>2020</b> , 53, 54-77	48
532	Cellular poly(C) binding protein 2 interacts with porcine epidemic diarrhea virus papain-like protease 1 and supports viral replication. <b>2020</b> , 247, 108793	1
531	Zebrafish Negatively Regulates Antiviral Responses via Suppression of Irf7 Transactivity Independent of Its Prolyl Hydroxylase Activity. <b>2020</b> , 205, 1135-1146	2

530	Upstream ORFs Prevent MAVS Spontaneous Aggregation and Regulate Innate Immune Homeostasis. <b>2020</b> , 23, 101059	6
529	Genetic Variation Is Associated with Decreased HIV-1 Replication In Vitro and Reduced CD4 T Cell Infection in HIV-1-Infected Individuals. <b>2020</b> , 12,	O
528	MTFMT deficiency correlates with reduced mitochondrial integrity and enhanced host susceptibility to intracellular infection. <b>2020</b> , 10, 11183	1
527	PPM1G restricts innate immune signaling mediated by STING and MAVS and is hijacked by KSHV for immune evasion. <b>2020</b> , 6,	7
526	Grass Carp Reovirus (GCRV) Giving Its All to Suppress IFN Production by Countering MAVS Signaling Transduction. <b>2020</b> , 11, 545302	5
525	MAVS is energized by Mff which senses mitochondrial metabolism via AMPK for acute antiviral immunity. <b>2020</b> , 11, 5711	7
524	Type I Interferons and Malaria: A Double-Edge Sword Against a Complex Parasitic Disease. <b>2020</b> , 10, 594621	4
523	NSUN5 Facilitates Viral RNA Recognition by RIG-I Receptor. <b>2020</b> , 205, 3408-3418	1
522	OASL1 Promotes Cellular Antiviral Immune Responses by Recruiting MDA5 to MAVS. <b>2020</b> , 205, 3419-3428	4
521	Middle East Respiratory Syndrome Coronavirus ORF8b Accessory Protein Suppresses Type I IFN Expression by Impeding HSP70-Dependent Activation of IRF3 Kinase IKK <b>2020</b> , 205, 1564-1579	15
520	New insights into the evasion of host innate immunity by Mycobacterium tuberculosis. <b>2020</b> , 17, 901-913	46
519	Activation and evasion of type I interferon responses by SARS-CoV-2. <b>2020</b> , 11, 3810	442
518	Porcine circovirus type 2 upregulates endothelial-derived IL-8 production in porcine iliac artery endothelial cells via the RIG-I/MDA-5/MAVS/JNK signaling pathway. <b>2020</b> , 16, 265	3
517	HFE inhibits type I IFNs signaling by targeting the SQSTM1-mediated MAVS autophagic degradation. <b>2021</b> , 17, 1962-1977	13
516	The Hippo Pathway in Innate Anti-microbial Immunity and Anti-tumor Immunity. 2020, 11, 1473	5
515	Murine norovirus replicase augments RIG-I-like receptors-mediated antiviral interferon response. <b>2020</b> , 182, 104877	5
514	Brothers in Arms: Structure, Assembly and Function of Nucleoprotein. <b>2020</b> , 12,	5
513	USP22 promotes IRF3 nuclear translocation and antiviral responses by deubiquitinating the importin protein KPNA2. <b>2020</b> , 217,	21

512	Type-I interferons in atherosclerosis. <b>2020</b> , 217,	26
511	TRIM24 facilitates antiviral immunity through mediating K63-linked TRAF3 ubiquitination. <b>2020</b> , 217,	15
510	Zebrafish RBM47 Promotes Lysosome-Dependent Degradation of MAVS to Inhibit IFN Induction. <b>2020</b> , 205, 1819-1829	4
509	Recent Advances in Stimuli-Responsive Platforms for Cancer Immunotherapy. <b>2020</b> , 53, 2044-2054	39
508	IRF1 Promotes the Innate Immune Response to Viral Infection by Enhancing the Activation of IRF3. <b>2020</b> , 94,	12
507	Targeting NF-B pathway for the therapy of diseases: mechanism and clinical study. 2020, 5, 209	126
506	Influenza-Host Interplay and Strategies for Universal Vaccine Development. 2020, 8,	4
505	Poly (I:C)- and doxorubicin-loaded magnetic dendrimeric nanoparticles affect the apoptosis-related gene expressions in MCF-7 cells. <b>2020</b> , 44, 133-144	1
504	Zebrafish F-box Protein fbxo3 Negatively Regulates Antiviral Response through Promoting K27-Linked Polyubiquitination of the Transcription Factors irf3 and irf7. <b>2020</b> , 205, 1897-1908	6
503	iRhom2: An Emerging Adaptor Regulating Immunity and Disease. <b>2020</b> , 21,	5
502	The p150 Isoform of ADAR1 Blocks Sustained RLR signaling and Apoptosis during Influenza Virus Infection. <b>2020</b> , 16, e1008842	9
501	Dance with the Devil: Stress Granules and Signaling in Antiviral Responses. <b>2020</b> , 12,	33
500	MAVS Is a Dual Target during Hepatitis C Virus Infection for Innate Immune Evasion and Viral Replication via NF- <b>B</b> . <b>2020</b> , 205, 2091-2099	7
499	hnRNPH2 as an Inhibitor of Chicken MDA5-Mediated Type I Interferon Response: Analysis Using Chicken MDA5-Host Interactome. <b>2020</b> , 11, 541267	1
498	Taming the Autophagy as a Strategy for Treating COVID-19. <b>2020</b> , 9,	29
497	Extracellular Vesicles and Damage-Associated Molecular Patterns: A Pandora's Box in Health and Disease. <b>2020</b> , 11, 601740	10
496	Insight into the expression of RIG-I-like receptors in human third trimester placentas following ex vivo cytomegalovirus or vesicular stomatitis virus infection. <b>2020</b> , 126, 143-152	1
495	TBK1-Mediated DRP1 Targeting Confers Nucleic Acid Sensing to Reprogram Mitochondrial Dynamics and Physiology. <b>2020</b> , 80, 810-827.e7	11

494	RNF115 plays dual roles in innate antiviral responses by catalyzing distinct ubiquitination of MAVS and MITA. <b>2020</b> , 11, 5536	11
493	Cell-Mediated Responses to Human Metapneumovirus Infection. <b>2020</b> , 12,	2
492	Rabies and Rabies Vaccines. <b>2020</b> ,	1
491	SIRT5 impairs aggregation and activation of the signaling adaptor MAVS through catalyzing lysine desuccinylation. <b>2020</b> , 39, e103285	15
490	Effect of the Viral Hemorrhagic Septicemia Virus Nonvirion Protein on Translation via PERK-eIF2H Pathway. <b>2020</b> , 12,	5
489	A RIG-I-like receptor directs antiviral responses to a bunyavirus and is antagonized by virus-induced blockade of TRIM25-mediated ubiquitination. <b>2020</b> , 295, 9691-9711	14
488	Pattern Recognition Receptor Signaling and Innate Responses to Influenza A Viruses in the Mallard Duck, Compared to Humans and Chickens. <b>2020</b> , 10, 209	11
487	Targeted Knockout of MDA5 and TLR3 in the DF-1 Chicken Fibroblast Cell Line Impairs Innate Immune Response Against RNA Ligands. <b>2020</b> , 11, 678	10
486	Cleavage of Desmosomal Cadherins Promotes ECatenin Degradation and Benefits Wnt Signaling in Coxsackievirus B3-Induced Destruction of Cardiomyocytes. <b>2020</b> , 11, 767	1
485	Black carp RIPK1 negatively regulates MAVS-mediated antiviral signaling during the innate immune activation. <b>2020</b> , 109, 103726	7
484	TBK1, a central kinase in innate immune sensing of nucleic acids and beyond. <b>2020</b> , 52, 757-767	23
483	The Cytomegalovirus Tegument Protein UL35 Antagonizes Pattern Recognition Receptor-Mediated Type I IFN Transcription. <b>2020</b> , 8,	5
482	Evaluation of Innate Immune Mediators Related to Respiratory Viruses in the Lung of Stable COPD Patients. <b>2020</b> , 9,	3
481	Regulation of Apoptosis by Enteroviruses. <b>2020</b> , 11, 1145	5
480	The Regulatory Role of Reticulons in Neurodegeneration: Insights Underpinning Therapeutic Potential for Neurodegenerative Diseases. <b>2021</b> , 41, 1157-1174	2
479	Priming Phosphorylation of TANK-Binding Kinase 1 by I <b>B</b> Kinase <b>‡</b> s Essential in Toll-Like Receptor 3/4 Signaling. <b>2020</b> , 40,	8
478	Duck IFIT5 differentially regulates Tembusu virus replication and inhibits virus-triggered innate immune response. <b>2020</b> , 133, 155161	2
477	TRIM35 mediates protection against influenza infection by activating TRAF3 and degrading viral PB2. <b>2020</b> , 11, 894-914	26

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476	Role of CARD Region of MDA5 Gene in Canine Influenza Virus Infection. 2020, 12,	1
475	The Nonstructural Protein of Guertu Virus Disrupts Host Defenses by Blocking Antiviral Interferon Induction and Action. <b>2020</b> , 6, 857-870	7
474	Transcriptomic Analysis of the Chicken MDA5 Response Genes. <b>2020</b> , 11,	5
473	A Long Non-coding RNA IVRPIE Promotes Host Antiviral Immune Responses Through Regulating Interferon <b>a</b> and ISG Expression. <b>2020</b> , 11, 260	23
472	Fine-tuning of antiviral innate immunity by ubiquitination. <b>2020</b> , 145, 95-128	13
471	Hepatitis C Virus: Evading the Intracellular Innate Immunity. <b>2020</b> , 9,	9
470	Molecular cloning, expression and mimicking antiviral activity analysis of retinoic acid-inducible gene-I in duck (Anas platyrhynchos). <b>2020</b> , 99, 1	
469	Regulation of Interferon Induction by the Ubiquitin-Like Modifier FAT10. <b>2020</b> , 10,	3
468	Double-Stranded Structure of the Polyinosinic-Polycytidylic Acid Molecule to Elicit TLR3 Signaling and Adjuvant Activity in Murine Intranasal A(H1N1)pdm09 Influenza Vaccination. <b>2020</b> , 39, 1730-1740	O
467	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. <b>2020</b> , 11, 1296	15
466	Primary immunodeficiencies in cytosolic pattern-recognition receptor pathways: Toward host-directed treatment strategies. <b>2020</b> , 297, 247-272	6
465	Impact of mRNA chemistry and manufacturing process on innate immune activation. 2020, 6, eaaz6893	73
464	USP27X negatively regulates antiviral signaling by deubiquitinating RIG-I. <b>2020</b> , 16, e1008293	10
463	Avian Pattern Recognition Receptor Sensing and Signaling. <b>2020</b> , 7,	12
462	Mutual Regulation of RNA Silencing and the IFN Response as an Antiviral Defense System in Mammalian Cells. <b>2020</b> , 21,	6
461	Dynamics of Immune Activation in Viral Diseases. <b>2020</b> ,	O
460	Grass carp reovirus VP56 represses interferon production by degrading phosphorylated IRF7. <b>2020</b> , 99, 99-106	11
459	miR-382-5p promotes porcine reproductive and respiratory syndrome virus (PRRSV) replication by negatively regulating the induction of type I interferon. <b>2020</b> , 34, 4497-4511	6

458	Thioredoxin 2 Negatively Regulates Innate Immunity to RNA Viruses by Disrupting the Assembly of the Virus-Induced Signaling Adaptor Complex. <b>2020</b> , 94,	2
457	Beneficial bacteria activate type-I interferon production via the intracellular cytosolic sensors STING and MAVS. <b>2020</b> , 11, 771-788	20
456	Adenosine-to-inosine RNA editing in the immune system: friend or foe?. <b>2020</b> , 77, 2931-2948	10
455	DEF Cell-Derived Exosomal miR-148a-5p Promotes DTMUV Replication by Negative Regulating TLR3 Expression. <b>2020</b> , 12,	5
454	The Mitochondrial Protein MAVS Stabilizes p53 to Suppress Tumorigenesis. <b>2020</b> , 30, 725-738.e4	10
453	Molecular Biology of Hepatitis Viruses. <b>2020</b> , 793-820	O
452	Hepatitis E Virus ORF2 Inhibits RIG-I Mediated Interferon Response. <b>2020</b> , 11, 656	8
451	Hemagglutinin Stability Regulates H1N1 Influenza Virus Replication and Pathogenicity in Mice by Modulating Type I Interferon Responses in Dendritic Cells. <b>2020</b> , 94,	12
450	Immunomodulation of Avian Dendritic Cells under the Induction of Prebiotics. 2020, 10,	4
449	E3 ubiquitin ligase ASB8 negatively regulates interferon via regulating TBK1/IKKi homeostasis. <b>2020</b> , 121, 195-203	7
448	MicroRNA regulation of Toll-like receptor, RIG-I-like receptor and Nod-like receptor pathways in teleost fish. <b>2020</b> , 12, 2177-2193	14
447	RNase L Amplifies Interferon Signaling by Inducing Protein Kinase R-Mediated Antiviral Stress Granules. <b>2020</b> , 94,	16
446	Loss of IKK Subunits Limits NF- <b>B</b> Signaling in Reovirus-Infected Cells. <b>2020</b> , 94,	4
445	The Andes Orthohantavirus NSs Protein Antagonizes the Type I Interferon Response by Inhibiting MAVS Signaling. <b>2020</b> , 94,	14
444	Innate signalling molecules as genetic adjuvants do not alter the efficacy of a DNA-based influenza A vaccine. <b>2020</b> , 15, e0231138	3
443	ZFYVE1 negatively regulates MDA5- but not RIG-I-mediated innate antiviral response. <b>2020</b> , 16, e1008457	10
442	Roles of GSK-3 and €Catenin in Antiviral Innate Immune Sensing of Nucleic Acids. <b>2020</b> , 9,	7
441	NOD1 Promotes Antiviral Signaling by Binding Viral RNA and Regulating the Interaction of MDA5 and MAVS. <b>2020</b> , 204, 2216-2231	23

#### (2020-2020)

Development of IFN-Stimulated Gene Expression from Embryogenesis through Adulthood, with 440 and without Constitutive MDA5 Pathway Activation. 2020, 204, 2791-2807 Enterovirus D68 Protease 2A Targets TRAF3 To Subvert Host Innate Immune Responses. 2021, 95, 6 439 RNA Editing. 2021, 438 1 Molecular characterization of a cyprinid fish (Ancherythroculter nigrocauda) TBK1 and its kinase 437 activity in IFN regulation. 2021, 114, 103805 25 years of research put RIPK1 in the clinic. **2021**, 109, 86-95 436 12 Viral pathogen-induced mechanisms to antagonize mammalian interferon (IFN) signaling pathway. 16 435 **2021**, 78, 1423-1444 Substrate recognition by TRIM and TRIM-like proteins in innate immunity. 2021, 111, 76-85 12 434 NUDT21 Links Mitochondrial IPS-1 to RLR-Containing Stress Granules and Activates Host Antiviral 433 Defense. 2021, 206, 154-163 ADAR1 Stimulation by IFN-Downregulates the Expression of MAVS via RNA Editing to Regulate 432 3 the Anti-HBV Response. 2021, 29, 1335-1348 The emerging roles of ZDHHCs-mediated protein palmitoylation in the antiviral innate immune 6 431 responses. 2021, 47, 34-43 SARS-CoV-2 membrane glycoprotein M antagonizes the MAVS-mediated innate antiviral response. 66 430 2021, 18, 613-620 Phosphorylation of the selective autophagy receptor TAX1BP1 by canonical and noncanonical IB 429 kinases promotes its lysosomal localization and clearance of MAVS aggregates. Spliceosome-targeted therapies trigger an antiviral immune response in triple-negative breast 428 26 cancer. 2021, 184, 384-403.e21 TLR3 controls constitutive IFN-third immunity in human fibroblasts and cortical neurons. 2021, 427 19 131, Impact of COVID-19 on Mitochondrial-Based Immunity in Aging and Age-Related Diseases. 2020, 426 2.2 12,614650 Innate Immune Sensing of Viruses and Its Consequences for the Central Nervous System. 2021, 13, 425 Herpes Simplex Virus and Pattern Recognition Receptors: An Arms Race. 2020, 11, 613799 424 13 Human Cancer Cells Sense Cytosolic Nucleic Acids Through the RIG-I-MAVS Pathway and 423 7 cGAS-STING Pathway. **2020**, 8, 606001

422	DAP3 Is Involved in Modulation of Cellular Radiation Response by RIG-I-Like Receptor Agonist in Human Lung Adenocarcinoma Cells. <b>2021</b> , 22,	4
421	The proximal proteome of 17 SARS-CoV-2 proteins links to disrupted antiviral signaling and host translation. <b>2021</b> ,	2
420	USP14 negatively regulates RIG-I-mediated IL-6 and TNF-中roduction by inhibiting NF- <b>B</b> activation. <b>2021</b> , 130, 69-76	2
419	Ubiquitin E3 ligase MID1 inhibits the innate immune response by ubiquitinating IRF3. <b>2021</b> , 163, 278-292	6
418	ATM inhibition enhances cancer immunotherapy by promoting mtDNA leakage and cGAS/STING activation. <b>2021</b> , 131,	34
417	DDIT3 Targets Innate Immunity via the DDIT3-OTUD1-MAVS Pathway To Promote Bovine Viral Diarrhea Virus Replication. <b>2021</b> , 95,	8
416	Mitochondrial morphodynamics alteration induced by influenza virus infection as a new antiviral strategy. <b>2021</b> , 17, e1009340	7
415	Linked N-Acetylglucosamine Modification of Mitochondrial Antiviral Signaling Protein Regulates Antiviral Signaling by Modulating Its Activity. <b>2020</b> , 11, 589259	Ο
414	Targeting Innate Immunity in Cancer Therapy. <b>2021</b> , 9,	12
413	Cellular Metabolites Regulate Central Nucleic Acid Sensing Pathways. <b>2021</b> , 12, 635738	1
412	SARS-CoV-2 nsp12 attenuates type I interferon production by inhibiting IRF3 nuclear translocation. <b>2021</b> , 18, 945-953	39
411	The VP3 Protein of Bluetongue Virus Associates with the MAVS Complex and Interferes with the RIG-I-Signaling Pathway. <b>2021</b> , 13,	3
410	A novel role of Zebrafish TMEM33 in negative regulation of interferon production by two distinct mechanisms. <b>2021</b> , 17, e1009317	3
409	The PB1 protein of influenza A virus inhibits the innate immune response by targeting MAVS for NBR1-mediated selective autophagic degradation. <b>2021</b> , 17, e1009300	19
408	Negative Regulation of the Innate Immune Response through Proteasomal Degradation and Deubiquitination. <b>2021</b> , 13,	1
407	Role of mitochondria in liver metabolic health and diseases. <b>2021</b> , 94, 102336	13
406	Structural basis for IFN antagonism by human respiratory syncytial virus nonstructural protein 2. <b>2021</b> , 118,	6
405	Interferons: Tug of War Between Bacteria and Their Host. <b>2021</b> , 11, 624094	5

404	Grass Carp Reovirus VP35 Degrades MAVS Through the Autophagy Pathway to Inhibit Fish Interferon Production. <b>2021</b> , 12, 613145	2
403	m6A methylation potentiates cytosolic dsDNA recognition in a sequence-specific manner. <b>2021</b> , 11, 210030	
402	Caprine MAVS Is a RIG-I Interacting Type I Interferon Inducer Downregulated by Peste des Petits Ruminants Virus Infection. <b>2021</b> , 13,	1
401	Mitochondrial reactive zones in antiviral innate immunity. <b>2021</b> , 1865, 129839	3
400	Mitochondrial DUT-M potentiates RLR-mediated antiviral signaling by enhancing VISA and TRAF2 association. <b>2021</b> , 132, 117-125	O
399	Deciphering the Fine-Tuning of the Retinoic Acid-Inducible Gene-I Pathway in Teleost Fish and Beyond. <b>2021</b> , 12, 679242	O
398	IFIT5 Negatively Regulates the Type I IFN Pathway by Disrupting TBK1-IKK🏻 RF3 Signalosome and Degrading IRF3 and IKK 🗘 2021, 206, 2184-2197	Ο
397	Sensing of transposable elements by the antiviral innate immune system. <b>2021</b> ,	8
396	Species-Specific Deamidation of RIG-I Reveals Collaborative Action between Viral and Cellular Deamidases in HSV-1 Lytic Replication. <b>2021</b> , 12,	5
395	Role of Dendritic Cells in Pathogen Infections: A Current Perspective.	
394	Higher-order assemblies in immune signaling: supramolecular complexes and phase separation. <b>2021</b> , 12, 680-694	4
393	Caspase-dependent cleavage of DDX21 suppresses host innate immunity.	Ο
392	DDAH2 suppresses RLR-MAVS-mediated innate antiviral immunity by stimulating nitric oxide-activated, Drp1-induced mitochondrial fission. <b>2021</b> , 14,	3
391	G3BP1 Inhibition Alleviates Intracellular Nucleic Acid-Induced Autoimmune Responses. <b>2021</b> , 206, 2453-2467	2
390	Death domain fold proteins in immune signaling and transcriptional regulation. 2021,	2
389	Interplay of the ubiquitin proteasome system and the innate immune response is essential for the replication of infectious bronchitis virus. <b>2021</b> , 166, 2173-2185	3
388	Inducible ATP1B1 Upregulates Antiviral Innate Immune Responses by the Ubiquitination of TRAF3 and TRAF6. <b>2021</b> , 206, 2668-2681	1
387	NOD-Like Receptors: Guards of Cellular Homeostasis Perturbation during Infection. <b>2021</b> , 22,	4

386	RNA Helicase DDX3: A Double-Edged Sword for Viral Replication and Immune Signaling. 2021, 9,	3
385	Zebrafish Uba1 Degrades IRF3 through K48-Linked Ubiquitination to Inhibit IFN Production. <b>2021</b> , 207, 512-522	O
384	Zebrafish otud6b Negatively Regulates Antiviral Responses by Suppressing K63-Linked Ubiquitination of irf3 and irf7. <b>2021</b> ,	2
383	Caspase-Dependent Cleavage of DDX21 Suppresses Host Innate Immunity. <b>2021</b> , 12, e0100521	3
382	Inhibition of Antiviral Innate Immunity by VP3 via Blocking TBK1-TRAF3 Complex Formation and IRF3 Activation. <b>2021</b> , 6,	4
381	DHX15 is required to control RNA virus-induced intestinal inflammation. <b>2021</b> , 35, 109205	8
380	Evasion of Antiviral Innate Immunity by Porcine Reproductive and Respiratory Syndrome Virus. <b>2021</b> , 12, 693799	3
379	Activation of the Anti-Oxidative Stress Response Reactivates Latent HIV-1 Through the Mitochondrial Antiviral Signaling Protein Isoform MiniMAVS. <b>2021</b> , 12, 682182	1
378	Functions of Coronavirus Accessory Proteins: Overview of the State of the Art. 2021, 13,	5
377	HSPBP1 facilitates cellular RLR-mediated antiviral response by inhibiting the K48-linked ubiquitination of RIG-I. <b>2021</b> , 134, 62-71	O
376	RACK1 degrades MAVS to promote bovine ephemeral fever virus replication via upregulating E3 ubiquitin ligase STUB1. <b>2021</b> , 257, 109096	2
375	Riok3 inhibits the antiviral immune response by facilitating TRIM40-mediated RIG-I and MDA5 degradation. <b>2021</b> , 35, 109272	3
374	Metabolism and Innate Immunity Meet at the Mitochondria. <b>2021</b> , 9, 720490	8
373	Anemoside B4 inhibits enterovirus 71 propagation in mice through upregulating 14-3-3 expression and type I interferon responses. <b>2021</b> ,	1
372	Induction of IFN-唯hrough TLR-3- and RIG-I-Mediated Signaling Pathways in Canine Respiratory Epithelial Cells Infected with H3N2 Canine Influenza Virus. <b>2021</b> , 31, 942-948	O
371	On the offense and defense: mitochondrial recovery programs amidst targeted pathogenic assault. <b>2021</b> ,	1
370	Duck Tembusu Virus Infection Promotes the Expression of Duck Interferon-Induced Protein 35 to Counteract RIG-I Antiviral Signaling in Duck Embryo Fibroblasts. <b>2021</b> , 12, 711517	1
369	A review on the role of TANK-binding kinase 1 signaling in cancer. <b>2021</b> , 183, 2364-2375	12

368	Immunity and Viral Infections: Modulating Antiviral Response via CRISPR-Cas Systems. 2021, 13,	2
367	Molecular cloning, identification and expression analysis of MDA5/MAVS/TRAF3/TANK/TBK1, five pivotal molecules of RLR signalling pathway in turbot (Scophthalmus maximus). <b>2021</b> , 52, 5537	
366	cGAS Is a Negative Regulator of RIG-I-Mediated IFN Response in Cyprinid Fish. 2021, 207, 784-798	1
365	Viral Suppression of RIPK1-Mediated Signaling. <b>2021</b> , 12, e0172321	1
364	Negative Regulation of RNF90 on RNA Virus-Triggered Antiviral Immune Responses Targeting MAVS. <b>2021</b> , 12, 730483	1
363	Identification of natural compounds extracted from crude drugs as novel inhibitors of hepatitis C virus. <b>2021</b> , 567, 1-8	2
362	MAVS splicing variants associated with TRAF3 and TRAF6 in NF- <b>B</b> and IRF3 signaling pathway in large yellow croaker Larimichthys crocea. <b>2021</b> , 121, 104076	2
361	RIPK3 collaborates with RIPK1 to inhibit MAVS-mediated signaling during black carp antiviral innate immunity. <b>2021</b> , 115, 142-149	1
360	ADAR1 interaction with Z-RNA promotes editing of endogenous double-stranded RNA and prevents MDA5-dependent immune activation. <b>2021</b> , 36, 109500	9
359	A conventional immune regulator MAVS blocks hepatic steatosis via maintaining mitochondrial homeostasis. <b>2021</b> ,	1
358	Mitochondrial RNA, a new trigger of the innate immune system. <b>2021</b> , e1690	О
357	SARS-CoV-2 Nsp5 Demonstrates Two Distinct Mechanisms Targeting RIG-I and MAVS To Evade the Innate Immune Response. <b>2021</b> , 12, e0233521	11
356	SERINC proteins potentiate antiviral type I IFN production and proinflammatory signaling pathways. <b>2021</b> , 14, eabc7611	4
355	Histone demethylase LSD1 promotes RIG-I poly-ubiquitination and anti-viral gene expression. <b>2021</b> , 17, e1009918	0
354	Induction of Robust Type I Interferon Levels by Oncolytic Reovirus Requires Both Viral Replication and Interferon-何Receptor Signaling. <b>2021</b> , 32, 1171-1185	1
353	The role of TRIM proteins in PRR signaling pathways and immune-related diseases. <b>2021</b> , 98, 107813	1
352	Epistatic interactions promote persistence of NS3-Q80K in HCV infection by compensating for protein folding instability. <b>2021</b> , 297, 101031	1
351	Intracellular innate immunity and mechanism of action of cytosolic nucleic acid receptor-mediated type I IFN against viruses. <b>2021</b> ,	O

350	Grass Carp Reovirus VP56 Allies VP4, Recruits, Blocks, and Degrades RIG-I to More Effectively Attenuate IFN Responses and Facilitate Viral Evasion. <b>2021</b> , 9, e0100021	1
349	Curcumol inhibits encephalomyocarditis virus by promoting IFN-器ecretion. <b>2021</b> , 17, 318	2
348	The molecular mechanism of RIG-I activation and signaling. 2021, 304, 154-168	10
347	The MAVS Immune Recognition Pathway in Viral Infection and Sepsis. <b>2021</b> , 35, 1376-1392	2
346	MAVS: A Two-Sided CARD Mediating Antiviral Innate Immune Signaling and Regulating Immune Homeostasis. <b>2021</b> , 12, 744348	2
345	Inhibition of MAVS Aggregation-Mediated Type-I Interferon Signaling by Foot-and-Mouth Disease Virus VP3. <b>2021</b> , 13,	1
344	The proximal proteome of 17 SARS-CoV-2 proteins links to disrupted antiviral signaling and host translation. <b>2021</b> , 17, e1009412	6
343	Characterization of MDA5 and microRNA-203 negatively regulates the RLR signaling pathway via targeting MDA5 in miiuy croaker. <b>2022</b> , 126, 104259	O
342	Signaling Through Nucleic Acid Sensors and Their Roles in Inflammatory Diseases. 2020, 11, 625833	10
341	TRK-Fused Gene (TFG), a protein involved in protein secretion pathways, is an essential component of the antiviral innate immune response. <b>2021</b> , 17, e1009111	4
340	Potential Antiviral Immune Response Against COVID-19: Lessons Learned from SARS-CoV. <b>2021</b> , 1318, 149-167	2
339	Interferon signaling. 214-225	1
338	TRAF3 and its biological function. <b>2007</b> , 597, 48-59	40
337	Induction and evasion of the type I interferon response by cytomegaloviruses. 2007, 598, 309-24	20
336	The Role of RNA Editing in the Immune Response. <b>2021</b> , 2181, 287-307	1
335	Anti-viral tetris: modulation of the innate anti-viral immune response by A20. <b>2014</b> , 809, 49-64	9
334	Crystallization of mouse RIG-I ATPase domain: in situ proteolysis. <b>2014</b> , 1169, 27-35	1
333	Efficacy of Probiotics in Prevention of Influenza. <b>2015</b> , 131-147	1

332	Mitochondria-Associated Inflammasome Activation and Its Impact on Aging and Age-Related Diseases. <b>2018</b> , 1-20	3
331	Peroxisomes and the antiviral responses of mammalian cells. <b>2013</b> , 69, 67-75	15
330	Structures of RIG-I-Like Receptors and Insights into Viral RNA Sensing. <b>2019</b> , 1172, 157-188	9
329	The Interplay Between Pattern Recognition Receptors and Autophagy in Inflammation. <b>2019</b> , 1209, 79-108	22
328	Identification of genes associated with susceptibility to Mycobacterium avium ssp. paratuberculosis (Map) tissue infection in Holstein cattle using gene set enrichment analysis-SNP. <b>2018</b> , 29, 539-549	6
327	Cytoplasmic Viral RNA Sensors: RIG-I-Like Receptors. <b>2016</b> , 352-359	2
326	Modulation of host mitochondrial dynamics during bacterial infection. <b>2020</b> , 53, 140-149	11
325	Aspartic acid at residue 185 modulates the capacity of HP-PRRSV nsp4 to antagonize IFN-I expression. <b>2020</b> , 546, 79-87	7
324	The influenza NS1 protein modulates RIG-I activation via a strain-specific direct interaction with the second CARD of RIG-I. <b>2020</b> , 295, 1153-1164	6
323	PGAM5-MAVS interaction regulates TBK1/IRF3 dependent antiviral responses. <b>2020</b> , 10, 8323	4
322	CHAPTER 13:Nucleic Acid Innate Immune Receptors. <b>2019</b> , 292-305	1
321	Mitochondria as intracellular signaling platforms in health and disease. <b>2020</b> , 219,	35
320	Spring viraemia of carp virus: recent advances. <b>2016</b> , 97, 1037-1051	103
319	Predominant role of IPS-1 over TRIF adaptor proteins in early innate immune response against Zika virus in mice. <b>2018</b> , 99, 209-218	8
318	Influenza B mutant viruses with truncated NS1 proteins grow efficiently in Vero cells and are immunogenic in mice. <b>2009</b> , 90, 366-374	19
317	Y-RNA and tRNA Cleavage by RNase L Mediates Terminal dsRNA Response.	3
316	Lung type II alveolar epithelial cells collaborate with CCR2+ inflammatory monocytes in host defense against an acute vaccinia infection in the lungs.	О
315	ADAR1 interaction with Z-RNA promotes editing of endogenous double-stranded RNA and prevents MDA5-dependent immune activation.	2

314	Macrophages utilize mitochondrial fission to enhance mROS production during responses to Streptococcus pneumoniae.	3
313	HA stability regulates H1N1 influenza virus replication and pathogenicity in mice by modulating type I interferon responses in dendritic cells.	1
312	Loss of IKK subunits limits NF- <b>B</b> signaling in reovirus infected cells.	1
311	Filoviruses. 229-246	1
310	Global genomic analysis reveals rapid control of a robust innate response in SIV-infected sooty mangabeys. <b>2009</b> , 119, 3556-72	312
309	Blocking IFNAR1 inhibits multiple myeloma-driven Treg expansion and immunosuppression. <b>2018</b> , 128, 2487-2499	48
308	Cytosolic 5'-triphosphate ended viral leader transcript of measles virus as activator of the RIG I-mediated interferon response. <b>2007</b> , 2, e279	147
307	TRAF6 establishes innate immune responses by activating NF-kappaB and IRF7 upon sensing cytosolic viral RNA and DNA. <b>2009</b> , 4, e5674	77
306	REUL is a novel E3 ubiquitin ligase and stimulator of retinoic-acid-inducible gene-I. 2009, 4, e5760	89
305	Human papillomavirus deregulates the response of a cellular network comprising of chemotactic and proinflammatory genes. <b>2011</b> , 6, e17848	115
304	TRAF6 and IRF7 control HIV replication in macrophages. <b>2011</b> , 6, e28125	33
303	Respiratory syncytial virus NS1 protein colocalizes with mitochondrial antiviral signaling protein MAVS following infection. <b>2012</b> , 7, e29386	70
302	Critical role of an antiviral stress granule containing RIG-I and PKR in viral detection and innate immunity. <b>2012</b> , 7, e43031	213
301	MDA5 can be exploited as efficacious genetic adjuvant for DNA vaccination against lethal H5N1 influenza virus infection in chickens. <b>2012</b> , 7, e49952	29
300	Functional characterization of domains of IPS-1 using an inducible oligomerization system. <b>2013</b> , 8, e53578	18
299	RING finger protein 11 targets TBK1/IKKi kinases to inhibit antiviral signaling. <b>2013</b> , 8, e53717	27
298	RIG-I detects triphosphorylated RNA of Listeria monocytogenes during infection in non-immune cells. <b>2013</b> , 8, e62872	62
297	Characterization of rotavirus RNAs that activate innate immune signaling through the RIG-I-like receptors. <b>2013</b> , 8, e69825	29

296	RNA-seq based transcriptome analysis of hepatitis E virus (HEV) and hepatitis B virus (HBV) replicon transfected Huh-7 cells. <b>2014</b> , 9, e87835	31
295	c-FLIP-Short reduces type I interferon production and increases viremia with coxsackievirus B3. <b>2014</b> , 9, e96156	7
294	Enhancing Interferon Regulatory Factor 7 Mediated Antiviral Responses and Decreasing Nuclear Factor Kappa B Expression Limit HIV-1 Replication in Cervical Tissues. <b>2015</b> , 10, e0131919	7
293	Constitutively Active MAVS Inhibits HIV-1 Replication via Type I Interferon Secretion and Induction of HIV-1 Restriction Factors. <b>2016</b> , 11, e0148929	6
292	Alteration of Antiviral Signalling by Single Nucleotide Polymorphisms (SNPs) of Mitochondrial Antiviral Signalling Protein (MAVS). <b>2016</b> , 11, e0151173	10
291	An Internally Translated MAVS Variant Exposes Its Amino-terminal TRAF-Binding Motifs to Deregulate Interferon Induction. <b>2015</b> , 11, e1005060	9
<b>29</b> 0	Leader-Containing Uncapped Viral Transcript Activates RIG-I in Antiviral Stress Granules. <b>2016</b> , 12, e1005444	42
289	PKR Transduces MDA5-Dependent Signals for Type I IFN Induction. <b>2016</b> , 12, e1005489	74
288	The Matrix Protein of Nipah Virus Targets the E3-Ubiquitin Ligase TRIM6 to Inhibit the IKK KI Kinase-Mediated Type-I IFN Antiviral Response. <b>2016</b> , 12, e1005880	50
287	GP73 represses host innate immune response to promote virus replication by facilitating MAVS and TRAF6 degradation. <b>2017</b> , 13, e1006321	29
286	FAS-associated factor-1 positively regulates type I interferon response to RNA virus infection by targeting NLRX1. <b>2017</b> , 13, e1006398	18
285	iRhom2 is essential for innate immunity to RNA virus by antagonizing ER- and mitochondria-associated degradation of VISA. <b>2017</b> , 13, e1006693	31
284	Pivotal role for the ESCRT-II complex subunit EAP30/SNF8 in IRF3-dependent innate antiviral defense. <b>2017</b> , 13, e1006713	7
283	MAVS activates TBK1 and IKKIthrough TRAFs in NEMO dependent and independent manner. <b>2017</b> , 13, e1006720	86
282	Regulation of MDA5-MAVS Antiviral Signaling Axis by TRIM25 through TRAF6-Mediated NF- <b>B</b> Activation. <b>2015</b> , 38, 759-64	25
281	MicroRNA-22 negatively regulates poly(I:C)-triggered type I interferon and inflammatory cytokine production via targeting mitochondrial antiviral signaling protein (MAVS). <b>2016</b> , 7, 76667-76683	19
<b>2</b> 80	NAB2 is a novel immune stimulator of MDA-5 that promotes a strong type I interferon response. <b>2018</b> , 9, 5641-5651	7
279	MDA5 complements TLR3 in suppression of neuroblastoma. <b>2015</b> , 6, 24935-46	11

278	Structural Variability in the RLR-MAVS Pathway and Sensitive Detection of Viral RNAs. 2019, 15, 443-458	4
277	Insights into Ebola Virus VP35 and VP24 Interferon Inhibitory Functions and their Initial Exploitation as Drug Targets. <b>2019</b> , 19, 362-374	8
276	RNA interference for the treatment of papillomavirus disease. <b>2012</b> , 6, 204-15	10
275	[Analysis of the application of host innate immune response to control and prevent infection]. <b>2012</b> , 62, 103-12	1
274	Attenuation of cGAS/STING activity during mitosis. 2020, 3,	12
273	Synthetic Abortive HIV-1 RNAs Induce Potent Antiviral Immunity. <b>2020</b> , 11, 8	8
272	Epstein-Barr Virus Early Protein BFRF1 Suppresses IFN-卧ctivity by Inhibiting the Activation of IRF3. <b>2020</b> , 11, 513383	9
271	Latest advances in innate antiviral defence. <b>2009</b> , 1, 22	3
270	Regulation of Antiviral Innate Immune Responses by Human Coronavirus*. <b>2010</b> , 37, 239-244	2
269	Interaction of hepatitis C virus with the type I interferon system. <b>2007</b> , 13, 4818-23	8
268	Immune and non-immune responses to hepatitis C virus infection. <b>2015</b> , 21, 10739-48	17
267	Involvement of caspase-8 in apoptosis enhancement by cotreatment with retinoic acid-inducible gene-I-like receptor agonist and ionizing radiation in human non-small cell lung cancer. <b>2018</b> , 18, 5286-5294	3
266	Alarmins, inflammasomes and immunity. <b>2012</b> , 35, 437-49	107
265	Structural basis for the prion-like MAVS filaments in antiviral innate immunity. <b>2014</b> , 3, e01489	117
264	Cyclophilin A-regulated ubiquitination is critical for RIG-I-mediated antiviral immune responses. <b>2017</b> , 6,	42
263	Rotavirus VP3 targets MAVS for degradation to inhibit type III interferon expression in intestinal epithelial cells. <b>2018</b> , 7,	38
262	MicroRNA-deficient mouse embryonic stem cells acquire a functional interferon response. 2019, 8,	16
261	The Adaptor Protein MITA Links Virus-Sensing Receptors to IRF3 Transcription Factor Activation. <b>2008</b> , 29, 538-550	699

260	Emerging roles of peroxisomes in viral infections. 2021,	8
259	Mitochondria as a Cellular Hub in Infection and Inflammation. <b>2021</b> , 22,	12
258	Induction and Evasion of Innate Immunity by hepatitis C virus. <b>2006</b> , 47, 491-498	1
257	NFB in the Innate Immune System. <b>2006</b> , 107-129	
256	Helicases at Frontline of RNA Virus Recognition. 2008, 241-272	
255	Antiviral Signaling Through TLRs and RLHs. <b>2008,</b> 17-29	
254	Baculoviruses as vaccine vectors. <b>2009</b> , 24, 608-615	
253	Interferon Signaling. <b>2010</b> , 189-200	2
252	Interferon Tau in the Ovine Uterus. <b>2009</b> , 51, 471-484	1
251	Chapter 5:RIG-I-Like RNA Helicases: Multidomain Proteins in Antiviral Innate Immunity and Processing of Small Regulatory RNAs. <b>2010</b> , 121-148	
250	Innate Immune Recognition of Nucleic Acids. 261-278	
249	Innate Signatures of Immune Mediated Resolution and Persistence of Hepatitis C Virus Infections. <b>2011</b> , 127-140	
248	Interferon, Cytokine Induction, and other Potential In Vivo Toxicities. 216-271	
247	Mitochondrial Dynamics and Cellular Antiviral Immunity. <b>2011</b> , 51, 174-177	
246	Innate Immunity and Host Defense against Microbial Infection. <b>2011</b> , 841-857	
245	Immune Control of HCV Infection. <b>2012</b> , 21-36	
244	Hepatitis C. 582-652	
243	Cytoplasmic Sensing of Viral Double-Stranded RNA and Activation of Innate Immunity by RIG-I-Like Receptors. <b>2012</b> , 51-60	

242	Antiviral MicroRNA. <b>2012</b> , 201-205
241	Pathogenesis of Influenza and Effects of Herbal Medicines on the Inhibition of Influenza Virus Replication. <b>2012</b> , 63, 363-368
240	Autophagy and Immunity. <b>2013</b> , 145-165
239	Polymorphism Near the Interleukin-28B Gene and Anti-Hepatitis C Viral Response. <b>2013</b> , 1, 39-44
238	Production and Action of Type I Interferons in Host Defense. <b>2014</b> , 1-15
237	The Coordinated Biology and Signaling Partners of Ral G-Proteins. <b>2014</b> , 257-279
236	Interferon Regulatory Factors: Role in Transcriptional Regulation of Macrophage Plasticity and Activation. <b>2014</b> , 463-486
235	Molecular Life Sciences. <b>2014</b> , 1-14
234	Rhabdoviruses and Mechanisms of Type I Interferon Antagonism. 211-227
233	Macrophages: Microbial Recognition and Response. 27-50
232	Mitochondrial Antiviral Signaling. 39-50
231	Intracytosolic Sensing of Pathogens: Nucleic Acid Receptors, NLRs, and the Associated Responses during Infections and Autoinflammatory Diseases. 153-169
230	Innate Immune Responses Elicited by Reovirus and Rotavirus. 403-422
229	Biological Impact of Type I Interferon Induction Pathways beyond Their Antivirus Activity. 155-175
228	Regulation of Innate Immunity by the Flaviviridae. 317-333
227	Suppression of Innate Immunity by Orthomyxoviruses. 267-286
226	Rhinovirus and Respiratory Disease. 369-381
225	Interferon Regulatory Factors and the Atypical IKK-Related Kinases TBK1 and IKK-🛭 Essential Players in the Innate Immune Response to RNA Virus Infection. 51-74

224	Inhibition of Antiviral Signaling Pathways by Paramyxovirus Proteins. 247-265
223	RNA Virus Families: Distinguishing Characteristics, Differences, and Similarities. 195-210
222	Jak-Stat Pathway in Response to Virus Infection. 75-90
221	Innate Immune Responses. 285-302
220	Toll-Like Receptors. 107-122
219	Cytoplasmic Pattern Receptors (RIG-I and MDA-5) and Signaling in Viral Infections. 29-38
218	Encyclopedia of Signaling Molecules. <b>2016</b> , 1-7
217	Aberrant Activation of RIG-Illike Receptors and Autoimmune Diseases. <b>2016</b> , 511-523
216	Non-Canonical Role of IKKEn the Regulation of STAT1 Phosphorylation in Antiviral Signaling. <b>2016</b> , 11, e0168696
215	Encyclopedia of Signaling Molecules. <b>2017</b> , 1-8
214	Single-cell analysis of early antiviral gene expression reveals a determinant of stochasticIFNB1expression.
213	Encyclopedia of Signaling Molecules. <b>2018</b> , 4726-4733
212	Encyclopedia of Signaling Molecules. <b>2018</b> , 3014-3019
211	Molecular Life Sciences. <b>2018</b> , 580-590
210	Molecular characterization and immune responsive expression of feline MDA5 gene. <b>2018</b> , 80, 1266-1270
209	MicroRNA-deficient embryonic stem cells acquire a functional Interferon response.
208	Mitochondria-Associated Inflammasome Activation and Its Impact on Aging and Age-Related Diseases. <b>2019</b> , 1205-1224
207	m64 methylation notentiates cytosolic dcDN4 recognition in a seguence-specific manner

206	Differential remodeling of the electron transport chain is required to support TLR3 and TLR4 signaling and cytokine production in macrophages.	
205	MAVS regulates the quality of the antibody response to West-Nile Virus.	
204	Attenuation of cGAS/STING Activity During Mitosis.	1
203	Immunocomposition of Gastrointestinal Tract of Gut. <b>2020</b> , 17-39	
202	Inflammation During Virus Infection: Swings and Roundabouts. <b>2020</b> , 43-59	1
201	RNase L amplifies Interferon signaling by inducing PKR-mediated antiviral stress granules.	O
200	Development of a Novel Class of Self-Assembling dsRNA Cancer Therapeutics: a Proof of Concept Investigation.	
199	The p150 Isoform of ADAR1 Blocks Sustained RLR signaling and Apoptosis during Influenza Virus Infection.	
198	Innate Immunity Evasion Strategies of Highly Pathogenic Coronaviruses: SARS-CoV, MERS-CoV, and SARS-CoV-2. <b>2021</b> , 12, 770656	2
197	Mitochondrial metabolism in macrophages. <b>2021</b> , 321, C1070-C1081	2
196	The Role of Kampo Medicines in the Pandemic of Viral Infections : Learning from the Spanish Flu. <b>2020</b> , 71, 272-283	2
195		
	Signaling Pathways Governing Activation of Innate Immune Cells. <b>2020</b> , 93-131	
194	Signaling Pathways Governing Activation of Innate Immune Cells. 2020, 93-131  Beneficial bacteria activate type-I interferon production via the cytosolic sensors STING and MAVS.	
194		
	Beneficial bacteria activate type-I interferon production via the cytosolic sensors STING and MAVS.  Grass Carp Reovirus (GCRV) Giving Its All to Suppress IFN Production by Countering MAVS-TBK1	
193	Beneficial bacteria activate type-I interferon production via the cytosolic sensors STING and MAVS.  Grass Carp Reovirus (GCRV) Giving Its All to Suppress IFN Production by Countering MAVS-TBK1 Activation.	
193 192	Beneficial bacteria activate type-I interferon production via the cytosolic sensors STING and MAVS.  Grass Carp Reovirus (GCRV) Giving Its All to Suppress IFN Production by Countering MAVS-TBK1 Activation.  Rabies Little Virus Against Powerful Innate Immunity. 2020, 141-154  NUDT21 links mitochondrial IPS-1 to RLR-containing stress granules and activates host antiviral	O

188	Simulating coxsackievirus B3 infection with an accessible computational model of its complete kinetics. <b>2021</b> , 2, 100940	
187	MDA5 is an essential vita-PAMP sensor necessary for host resistance against Aspergillus fumigatus.	
186	Recognition of Pathogens: Toll-Like Receptors. <b>2008</b> , 1-36	
185	Immune responses in hepatitis C virus infection. 19-31	
184	MAVS regulates the quality of the antibody response to West-Nile Virus. 2020, 16, e1009009	1
183	Mitochondria and antiviral innate immunity. <b>2011</b> , 2, 257-62	14
182	The role of immunostimulatory nucleic acids in septic shock. <b>2012</b> , 5, 1-23	9
181	Collaboration of Toll-like and RIG-I-like receptors in human dendritic cells: tRIGgering antiviral innate immune responses. <b>2013</b> , 2, 195-207	35
180	How Influenza A Virus NS1 Deals with the Ubiquitin System to Evade Innate Immunity. 2021, 13,	0
179	Introns encode dsRNAs undetected by RIG-I/MDA5/interferons and sensed via RNase L. <b>2021</b> , 118,	1
178	N4BP3 Regulates RIG-I-Like Receptor Antiviral Signaling Positively by Targeting Mitochondrial Antiviral Signaling Protein. <b>2021</b> , 12, 770600	О
177	Zebrafish Negatively Regulates Antiviral Responses by Attenuating Phosphorylation of irf3 and irf7 Independent of Its Enzymatic Activity. <b>2021</b> ,	1
176	DHAV-1 Blocks the Signaling Pathway Upstream of Type I Interferon by Inhibiting the Interferon Regulatory Factor 7 Protein. <b>2021</b> , 12, 700434	1
175	Regulation of antiviral innate immune signaling and viral evasion following viral genome sensing. <b>2021</b> , 53, 1647-1668	3
174	AMBRA1 promotes apoptosis induced by dsRNA and virus through interacting with and stabilizing MAVS. <b>2021</b> ,	
173	Regulation of MDA5-dependent anti-Tembusu virus innate immune responses by LGP2 in ducks. <b>2021</b> , 263, 109281	O
172	Autophagy and antiviral defense. 2021,	2
171	The Q41R mutation in the HCV-protease enhances the reactivity towards MAVS by suppressing non-reactive pathways <b>2022</b> , 24, 2126-2138	

170	Therapeutic Interventions Targeting Innate Immune Receptors: A Balancing Act. 2021,	4
169	SUMOylation in Viral Replication and Antiviral Defense <b>2022</b> , e2104126	1
168	Melatonin Suppresses the Antiviral Immune Response to EMCV Infection Through Intracellular ATP Deprivation Caused by Mitochondrial Fragmentation.	
167	Animal Model of Severe Fever With Thrombocytopenia Syndrome Virus Infection <b>2021</b> , 12, 797189	O
166	Interferon Regulatory Factor (IRF) Activates IFNs and Antimicrobial Peptide Expression a STING-Dependent DNA Sensing Pathway <b>2021</b> , 12, 818267	
165	Mitochondria and Viral Infection: Advances and Emerging Battlefronts <b>2022</b> , e0209621	
164	African swine fever virus I267L acts as an important virulence factor by inhibiting RNA polymerase III-RIG-I-mediated innate immunity <b>2022</b> , 18, e1010270	7
163	Regulation and function of the cGAS-MITA/STING axis in health and disease. 2022, 1, 100001	2
162	K63 ubiquitination in immune signaling <b>2022</b> ,	2
161	Influenza D virus Matrix protein 1 restricts the type I interferon response by degrading TRAF6 <b>2022</b> , 568, 1-11	1
160	Early innate immune response triggered by the human respiratory syncytial virus and its regulation by ubiquitination/deubiquitination processes <b>2022</b> , 29, 11	2
159	Insights into the post-translational modification and its emerging role in shaping the tumor microenvironment <b>2021</b> , 6, 422	3
158	Classical swine fever virus non-structural protein 4B binds tank-binding kinase 1. <b>2018</b> , 43, 947-957	3
157	Human cytomegalovirus vMIA inhibits MAVS oligomerization at peroxisomes in an MFF-dependent manner.	
156	Role of Hypoxia in the Interferon Response <b>2022</b> , 13, 821816	O
155	Cohesin mutation sensitizes cancer cells to anti-PD-1 therapy through endogenous retrovirus-mediated PD-L1 upregulation.	
154	IRF4b and IRF8 Negatively Regulate RLR-Mediated NF- <b>B</b> Signaling by Targeting MITA for Degradation in Teleost Fish <b>2022</b> , 13, 858179	0
153	Molecular cloning and functional characterization of RIP1 in large yellow croaker Larimichthys crocea <b>2022</b> , 122, 386-398	O

152	Immune response of pacific cod larvae stimulated with PolyI:C.	O
151	Divergences of the Gene Families across Lophotrochozoans: Domain Grafting, Exon-Intron Structure, Expression, and Positive Selection <b>2022</b> , 23,	0
150	Transcriptional expression analysis reveals multiple effects of nonylphenol exposure on scallop immune system <b>2022</b> , 123, 290-297	1
149	Human Cytomegalovirus vMIA Inhibits MAVS Oligomerization at Peroxisomes in an MFF-Dependent Manner <b>2022</b> , 10, 871977	2
148	Therapeutic targeting of TANK-binding kinase signaling towards anticancer drug development: Challenges and opportunities <b>2022</b> ,	О
147	Oral Administration of Subunit Vaccine Significantly Enhances the Immune Protection of Grass Carp against GCRV-II Infection <b>2021</b> , 14,	3
146	Activation and Evasion of RLR Signaling by DNA Virus Infection 2021, 12, 804511	O
145	The Kinase MAP4K1 Inhibits Cytosolic RNA-Induced Antiviral Signaling by Promoting Proteasomal Degradation of TBK1/IKK[] <b>2021</b> , 9, e0145821	1
144	Zebrafish CERKL Enhances Host TBK1 Stability and Simultaneously Degrades Viral Protein via Ubiquitination Modulation <b>2022</b> ,	О
143	DataSheet_1.docx. <b>2019</b> ,	
142	lmage_1.tif. <b>2020</b> ,	
141	Image_2.tif. <b>2020,</b>	
140	lmage_3.TIF. <b>2020</b> ,	
139	Table_1.docx. <b>2020</b> ,	
138	Table_2.docx. <b>2020</b> ,	
137	Data_Sheet_1.docx. <b>2019</b> ,	
136	Table_1.xlsx. <b>2020</b> ,	
135	Data_Sheet_1.PDF. <b>2021</b> ,	



## (2022-2020)

116	Image_8.jpg. <b>2020</b> ,	
115	Image_9.jpeg. <b>2020</b> ,	
114	Data_Sheet_1.PDF. <b>2020</b> ,	
113	Table_1.XLSX. <b>2020</b> ,	
112	Table_1.docx. <b>2020</b> ,	
111	Image_1.JPEG. <b>2020</b> ,	
110	Image_2.JPEG. <b>2020</b> ,	
109	Image_3.JPEG. <b>2020</b> ,	
108	Image_4.JPEG. <b>2020</b> ,	
107	Table_1.XLSX. <b>2020</b> ,	
106	Table_2.XLSX. <b>2020</b> ,	
105	Table_3.docx. <b>2020</b> ,	
104	Table_4.XLSX. <b>2020</b> ,	
103	Surgical Strikes on Host Defenses: Role of the Viral Protease Activity in Innate Immune Antagonism. <b>2022</b> , 11, 522	О
102	Nucleic Acid Sensing Pathways in DNA Repair Targeted Cancer Therapy 2022, 10, 903781	1
101	DEAD/H-Box Helicases in Immunity, Inflammation, Cell Differentiation, and Cell Death and Disease. <b>2022</b> , 11, 1608	1
100	RIP1 post-translational modifications <b>2022</b> , 479, 929-951	1
99	Influenza A virus NS1 protein hijacks YAP/TAZ to suppress TLR3-mediated innate immune response <b>2022</b> , 18, e1010505	О

98	TARDBP Inhibits Porcine Epidemic Diarrhea Virus Replication through Degrading Viral Nucleocapsid Protein and Activating Type I Interferon Signaling <b>2022</b> , e0007022	1
97	Scallop RIG-I-like receptor 1 responses to polyinosinic:polycytidylic acid challenge and its interactions with the mitochondrial antiviral signaling protein <b>2022</b> , 124, 490-496	O
96	[The innate immune response to SARS-CoV-2] 2021, 71, 33-40	
95	Distinct Signature Type I Interferon Responses are Determined by the Infecting virus and the Target Cell. <b>2008</b> , 13, 409-422	24
94	SARS-CoV-2 ORF6 disrupts nucleocytoplasmic trafficking to advance viral replication <b>2022</b> , 5, 483	2
93	DDX3X structural analysis: Implications in the pharmacology and innate immunity. <b>2022</b> , 3, 100-109	
92	Mechanisms involved in controlling RNA virus-induced intestinal inflammation. 2022, 79,	Ο
91	p53 engages the cGAS/STING cytosolic DNA sensing pathway for tumor suppression.	
90	Borrelia burgdorferi engages mammalian type I interferon responses via the cGAS-STING pathway.	
89	A Bibliometric Analysis of the Innate Immune DNA Sensing cGAS-STING Pathway from 2013 to 2021. <b>2022</b> , 13,	Ο
88	Duck LGP2 Downregulates RIG-I Signaling Pathway-Mediated Innate Immunity Against Tembusu Virus. 13,	1
87	Non-standard viral genome-derived RNA activates TLR3 and type I IFN signaling to induce cDC1-dependent CD8+ T-cell responses during vaccination in mice.	
86	Porcine Sapelovirus 3Cpro Inhibits the Production of Type I Interferon. 12,	0
85	A little less aggregation a little more replication: Viral manipulation of stress granules.	1
84	Tankyrases inhibit innate antiviral response by PARylating VISA/MAVS and priming it for RNF146-mediated ubiquitination and degradation. <b>2022</b> , 119,	0
83	Opposing effects of deubiquitinase OTUD3 in innate immunity against RNA and DNA viruses. <b>2022</b> , 39, 110920	1
82	????????MITA??????. <b>2022</b> ,	
81	SAMHD1 controls innate immunity by regulating condensation of immunogenic self RNA.	

80 Pattern Recognition Receptor-Mediated Regulatory T Cell Functions in Diseases.

79	Apoptotic caspases suppress an MDA5-driven IFN response during productive replication of human papillomavirus type 31. <b>2022</b> , 119,	O
78	Inhibition of Glycolysis Impairs Retinoic Acid-Inducible Gene IMediated Antiviral Responses in Primary Human Dendritic Cells. 12,	O
77	Tembusu Virus Nonstructural Protein 2B Antagonizes Type I Interferon Production by Targeting MAVS for Degradation.	1
76	Codelivery of HBx-siRNA and Plasmid Encoding IL-12 for Inhibition of Hepatitis B Virus and Reactivation of Antiviral Immunity. <b>2022</b> , 14, 1439	1
75	Chicken TAX1BP1 suppresses type I interferon production via degrading chicken MAVS and facilitates infectious bursal diseases virus replication. <b>2022</b> , 135, 104490	O
74	Porcine dsRNA-binding protein Staufen1 facilitate dsRNA-RIG-I/MDA5 binding to activate the antiviral innate immunity response. <b>2022</b> , 109515	
73	Hepatitis C Virus Nonstructural Protein 5A Interacts with Immunomodulatory Kinase IKKI <b>t</b> o Negatively Regulate Innate Antiviral Immunity. <b>2022</b> ,	
72	BAG6 negatively regulates the RLR signaling pathway by targeting VISA/MAVS. 13,	O
71	PKR and TLR3 trigger distinct signals that coordinate the induction of antiviral apoptosis. <b>2022</b> , 13,	1
70	DExH/D-box helicases at the frontline of intrinsic and innate immunity against viral infections. <b>2022</b> , 103,	1
69	DEAD-box RNA helicase 21 negatively regulates cytosolic RNA-mediated innate immune signaling. 13,	
68	Flaviviridae Nonstructural Proteins: The Role in Molecular Mechanisms of Triggering Inflammation. <b>2022</b> , 14, 1808	1
67	The physiological functions of human peroxisomes.	3
66	Negative Regulatory Role of the Spring Viremia of Carp Virus Matrix Protein in the Host Interferon Response by Targeting the MAVS/TRAF3 Signaling Axis. <b>2022</b> , 96,	O
65	Regulation of the Innate Immune Response during the Human Papillomavirus Life Cycle. <b>2022</b> , 14, 1797	1
64	The first identified invertebrate LGP2-like homolog gene in the Pacific oyster Crassostrea gigas. <b>2022</b> , 128, 238-245	0
63	Friend or foe: RIG- I like receptors and diseases. <b>2022</b> , 21, 103161	O

62	Bifurcation of signalling in human innate immune pathways to NF-kB and IRF family activation. <b>2022</b> , 205, 115246	Ο
61	COVID-19 Impact on Host at Pathophysiological and Cellular Level. <b>2022</b> , 67-111	O
60	The intersection molecule MDA5 in Cancer and COVID-19. 13,	О
59	Rubella Virus Triggers Type I Interferon Antiviral Response in Cultured Human Neural Cells: Involvement in the Control of Viral Gene Expression and Infectious Progeny Production. <b>2022</b> , 23, 9799	O
58	Modulating cholesterol-rich lipid rafts to disrupt influenza A virus infection. 13,	О
57	Host Immune Responses to Arthritogenic Alphavirus Infection, with Emphasis on Type I IFN Responses. <b>2022</b> , 2,	Ο
56	Factors affecting RIG-I-Like receptors activation - New research direction for viral hemorrhagic fevers. 13,	0
55	RIOK3 and Its Alternatively Spliced Isoform Have Disparate Roles in the Innate Immune Response to Rift Valley Fever Virus (MP12) Infection. <b>2022</b> , 14, 2064	Ο
54	Identification of Key Genes and FUNCTIONAL Pathway in Radioresistance of Non-Small Cell Lung Cancer. Volume 14, 2871-2884	0
53	Foot-and-mouth disease virus non-structural protein 2B downregulates the RLR signaling pathway via degradation of RIG-I and MDA5. 13,	Ο
52	Peste des Petits Ruminants Virus Upregulates STING to Activate ATF6-Mediated Autophagy.	Ο
51	SAMHD1 controls innate immunity by regulating condensation of immunogenic self RNA. <b>2022</b> , 82, 3712-372	28. <b>e</b> 10
50	Transcriptome analysis identifies LGP2 as an MDA5-mediated signaling activator following spring viremia of carp virus infection in common carp (Cyprinus carpio L.). 13,	Ο
49	Chicken miR-126-5p negatively regulates antiviral innate immunity by targeting TRAF3. <b>2022</b> , 53,	Ο
48	The Endoplasmic Reticulum ATP13A1 is Essential for MAVS-Mediated Antiviral Innate Immunity. 2203831	Ο
47	Melatonin suppresses the antiviral immune response to EMCV infection through intracellular ATP deprivation caused by mitochondrial fragmentation. <b>2022</b> , 8, e11149	Ο
46	Non-standard viral genome-derived RNA activates TLR3 and type I IFN signaling to induce cDC1-dependent CD8+ T-cell responses during vaccination in mice. <b>2022</b> ,	0
45	Grass carp (Ctenopharyngodon idella) NLK2 inhibits IFN I response through blocking MAVS-IRF3 axis. <b>2022</b> , 131, 206-217	Ο

44	Human OTUD6B positively regulates type I IFN antiviral innate immune responses by deubiquitinating and stabilizing IRF3.	0
43	A Short 5?triphosphate RNA nCoV-L Induces a Broad-Spectrum Antiviral Response by Activating RIG-I. <b>2022</b> , 14, 2451	0
42	Insight into the regulation of NLRP3 inflammasome activation by mitochondria in liver injury and the protective role of natural products. <b>2022</b> , 156, 113968	О
41	SARS-CoV-2 modulation of RIG-I-MAVS signaling: Potential mechanisms of impairment on host antiviral immunity and therapeutic approaches. <b>2022</b> , 1,	0
40	Evaluation of the effects in the <i>in vitro</i> system of synthetic thymic hexapeptide on the expression levels of NF-B, IFN碑 and CD119 neutrophilic granulocytes in patients with chronic herpes viral co-infections. <b>2022</b> , 12, 850-858	О
39	Interaction between chicken TRIM25 and MDA5 and their role in mediated antiviral activity against IBDV infection. 13,	1
38	E3 Ubiquitin Ligases: The Operators of the Ubiquitin Code That Regulates the RLR and cGAS-STING Pathways. <b>2022</b> , 23, 14601	О
37	A rapid RIG-I signaling relay mediates efficient antiviral response. <b>2022</b> ,	О
36	Long-term exposure to azoxystrobin induces immunodeficiency in fish that are vulnerable to subsequent rhabdovirus infection. <b>2022</b> , 248, 114331	О
35	STING-dependent cytosolic DNA sensing pathway drives the progression to leukemia in TET2-mutated HSPCs.	O
34	Mitochondria Drive Immune Responses in Critical Disease. <b>2022</b> , 11, 4113	О
33	The role of O-GlcNAcylation in innate immunity and inflammation.	O
32	UBXN1 maintains ER proteostasis and represses UPR activation by modulating translation independently of the p97 ATPase.	O
31	Cytokine Receptor-Like Factor 3 Negatively Regulates Antiviral Immunity by Promoting the Degradation of TBK1 in Teleost Fish.	O
30	Regulation of ribonucleoprotein condensates by RNase L during viral infection.	O
29	Duck TRIM35 Promotes Tembusu Virus Replication by Interfering with RIG-I-Mediated Antiviral Signaling in Duck Embryo Fibroblasts. <b>2022</b> , 10,	O
28	K63 -linked polyubiquitination of LGP2 by Riplet´regulates RIG-I -dependent innate immune´response.	О
27	Multifaceted functions of STING in human health and disease: from molecular mechanism to targeted strategy. <b>2022</b> , 7,	1

26	Strategies of Influenza A Virus to Ensure the Translation of Viral mRNAs. 2022, 11, 1521	O
25	曲drenoreceptor-triggered PKA activation negatively regulates the innate antiviral response.	O
24	Innate sensing and cellular metabolism: role in fine tuning antiviral immune responses.	0
23	p53 engages the cGAS/STING cytosolic DNA sensing pathway for tumor suppression. <b>2023</b> ,	2
22	Chicken PRMT1 promotes infectious bursal disease virus replication via suppressing IFN-⊞ production. <b>2023</b> , 141, 104628	О
21	MicroRNA miR-722 Inhibits Cyprinid Herpesvirus 3 Replication via Targeting the Viral Immune Evasion Protein ORF89, Which Negatively Regulates IFN by Degrading IRF3. <b>2022</b> , 209, 1918-1929	1
20	Liaisons dangereuses: Intrinsic Disorder in Cellular Proteins Recruited to Viral Infection-Related Biocondensates. <b>2023</b> , 24, 2151	0
19	Inhibition of specific signaling pathways rather than epigenetic silencing of effector genes is the leading mechanism of innate tolerance. 14,	O
18	Duck MARCH8 Negatively Regulates the RLR Signaling Pathway through K29-Linked Polyubiquitination of MAVS.	O
17	ATG16L1 negatively regulates MAVS-mediated antiviral signaling in black carp Mylopharyngodon piceus. <b>2023</b> , 136, 108706	O
16	Negatively regulation of MAVS-mediated antiviral innate immune response by E3 ligase RNF5 in black carp. <b>2023</b> , 134, 108583	0
15	Telomere-to-mitochondria signalling by ZBP1 mediates replicative crisis. 2023, 614, 767-773	О
14	Dengue Virus 2 NS2B Targets MAVS and IKKIto Evade the Antiviral Innate Immune Response. <b>2023</b>	О
13	Immune Recognition versus Immune Evasion Systems in Zika Virus Infection. <b>2023</b> , 11, 642	O
12	m6 RNA methylation: an emerging common target in the immune response to cancer and severe acute respiratory syndrome-coronavirus-2 infection. 107-114	O
11	Mitofusin 1-Mediated Redistribution of Mitochondrial Antiviral Signaling Protein Promotes Type 1 Interferon Response in Human Cytomegalovirus Infection. <b>2023</b> , 11,	O
10	Crosstalk between Autophagy and RLR Signaling. <b>2023</b> , 12, 956	0
9	Immune diversity in lophotrochozoans, with a focus on recognition and effector systems. <b>2023</b> , 21, 2262-227	5 0

## CITATION REPORT

8	The Cytomegalovirus M35 Protein Modulates Transcription ofIfnb1and Other IRF3-Driven Genes by Direct Promoter Binding.	0
7	IFITM2 Presents Antiviral Response through Enhancing Type I IFN Signaling Pathway. <b>2023</b> , 15, 866	0
6	The protease calpain2a limits innate immunity by targeting TRAF6 in teleost fish. 2023, 6,	O
5	Type I Interferon Orchestrates Demand-Adapted Monopoiesis during Influenza A Virus Infection via STAT1-Mediated Upregulation of Macrophage Colony-Stimulating Factor Receptor Expression.	O
4	Borrelia burgdorferi Engages Mammalian Type I IFN Responses via the cGASBTING Pathway.	0
3	Reprogramming viral immune evasion for a rational design of next-generation vaccines for RNA viruses. 14,	O
2	Mechanisms of length-dependent recognition of viral double-stranded RNA by RIG-I. 2023, 13,	0