Georg Kochs

List of Publications by Year
in descending order

97 papers	10,124 citations	53939 47 h-index	43601 95 g-index
108 all docs	108 docs citations	108 times ranked	14505 citing authors

#	Article	IF	Citations
1	Comparative Study of Ten Thogotovirus Isolates and Their Distinct <i>In Vivo</i> Characteristics. Journal of Virology, 2022, 96, JVI0155621.	1.5	9
2	Antibody escape and global spread of SARS-CoV-2 lineage A.27. Nature Communications, 2022, 13, 1152.	5.8	20
3	SARS-CoV-2-specific T-cell epitope repertoire in convalescent and mRNA-vaccinated individuals. Nature Microbiology, 2022, 7, 675-679.	5.9	29
4	The interferon-inducible GTPase MxB promotes capsid disassembly and genome release of herpesviruses. ELife, 2022, 11, .	2.8	16
5	Systemic and mucosal antibody responses specific to SARS-CoV-2 during mild versus severe COVID-19. Journal of Allergy and Clinical Immunology, 2021, 147, 545-557.e9.	1.5	316
6	Characterization of pre-existing and induced SARS-CoV-2-specific CD8+ T cells. Nature Medicine, 2021, 27, 78-85.	15.2	295
7	Macrophages and Dendritic Cells Are Not the Major Source of Pro-Inflammatory Cytokines Upon SARS-CoV-2 Infection. Frontiers in Immunology, 2021, 12, 647824.	2.2	33
8	Prevalence of SARS-CoV-2 Infection in Children and Their Parents in Southwest Germany. JAMA Pediatrics, 2021, 175, 586.	3.3	124
9	Rapid and stable mobilization of CD8+ T cells by SARS-CoV-2 mRNA vaccine. Nature, 2021, 597, 268-273.	13.7	279
10	Type I interferon receptor-independent interferon-Î± induction upon infection with a variety of negative-strand RNA viruses. Journal of General Virology, 2021, 102, .	1.3	2
11	Rare variant <i>MX1</i> alleles increase human susceptibility to zoonotic H7N9 influenza virus. Science, 2021, 373, 918-922.	6.0	41
12	Within-host evolution of SARS-CoV-2 in an immunosuppressed COVID-19 patient as a source of immune escape variants. Nature Communications, 2021, 12, 6405.	5.8	128
13	Mx genes: host determinants controlling influenza virus infection and trans-species transmission. Human Genetics, 2020, 139, 695-705.	1.8	35
14	Comparative host-coronavirus protein interaction networks reveal pan-viral disease mechanisms. Science, 2020, 370, .	6.0	508
15	Pharmacological Inhibition of Acid Sphingomyelinase Prevents Uptake of SARS-CoV-2 by Epithelial Cells. Cell Reports Medicine, 2020, 1, 100142.	3.3	142
16	A Genome-Wide CRISPR-Cas9 Screen Reveals the Requirement of Host Cell Sulfation for Schmallenberg Virus Infection. Journal of Virology, 2020, 94, .	1.5	18
17	Prolonged SARS-CoV-2 shedding and mild course of COVID-19 in a patient after recent heart transplantation. American Journal of Transplantation, 2020, 20, 3239-3245.	2.6	57
18	The Global Phosphorylation Landscape of SARS-CoV-2 Infection. Cell, 2020, 182, 685-712.e19.	13.5	825

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19	Using a mouse-adapted A/HK/01/68 influenza virus to analyse the impact of NS1 evolution in codons 196 and 231 on viral replication and virulence. Journal of General Virology, 2020, 101, 587-598.	1.3	2
20	Tick-transmitted thogotovirus gains high virulence by a single MxA escape mutation in the viral nucleoprotein. PLoS Pathogens, 2020, 16, e1009038.	2.1	6
21	Combinatorial mutagenesis of rapidly evolving residues yields super-restrictor antiviral proteins. PLoS Biology, 2019, 17, e3000181.	2.6	13
22	Mx1 in Hematopoietic Cells Protects against Thogoto Virus Infection. Journal of Virology, 2019, 93, .	1.5	22
23	Essential Role of Interferon Response in Containing Human Pathogenic Bourbon Virus. Emerging Infectious Diseases, 2019, 25, 1304-1313.	2.0	16
24	Recombinant IFN-Î³ from the bank vole Myodes glareolus: a novel tool for research on rodent reservoirs of zoonotic pathogens. Scientific Reports, 2018, 8, 2797.	1.6	4
25	Effects of allelic variations in the human myxovirus resistance protein A on its antiviral activity. Journal of Biological Chemistry, 2018, 293, 3056-3072.	1.6	18
26	Viral targeting of TFIIB impairs de novo polymerase II recruitment and affects antiviral immunity. PLoS Pathogens, 2018, 14, e1006980.	2.1	13
27	Human MxB Protein Is a Pan-herpesvirus Restriction Factor. Journal of Virology, 2018, 92, .	1.5	83
28	Equine MX2 is a restriction factor of equine infectious anemia virus (EIAV). Virology, 2018, 523, 52-63.	1.1	12
29	In vivo evasion of MxA by avian influenza viruses requires human signature in the viral nucleoprotein. Journal of Experimental Medicine, 2017, 214, 1239-1248.	4.2	44
30	Evolution and Antiviral Specificities of Interferon-Induced Mx Proteins of Bats against Ebola, Influenza, and Other RNA Viruses. Journal of Virology, 2017, 91, .	1.5	53
31	Conformational dynamics of dynamin-like MxA revealed by single-molecule FRET. Nature Communications, 2017, 8, 15744.	5.8	37
32	Molecular identification of novel phlebovirus sequences in European ticks. Ticks and Tick-borne Diseases, 2017, 8, 795-798.	1.1	11
33	RIG-I Activation Protects and Rescues from Lethal Influenza Virus Infection and Bacterial Superinfection. Molecular Therapy, 2017, 25, 2093-2103.	3.7	26
34	<i>In Vivo</i> Conditions Enable IFNAR-Independent Type I Interferon Production by Peritoneal CD11b ⁺ Cells upon Thogoto Virus Infection. Journal of Virology, 2016, 90, 9330-9337.	1.5	10
35	Interferon but not MxB inhibits foamy retroviruses. Virology, 2016, 488, 51-60.	1.1	23
36	Mx GTPases: dynamin-like antiviral machines of innate immunity. Trends in Microbiology, 2015, 23, 154-163.	3.5	378

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37	Role of Nucleotide Binding and GTPase Domain Dimerization in Dynamin-like Myxovirus Resistance Protein A for GTPase Activation and Antiviral Activity. Journal of Biological Chemistry, 2015, 290, 12779-12792.	1.6	48
38	The Avian-Origin PB1 Gene Segment Facilitated Replication and Transmissibility of the H3N2/1968 Pandemic Influenza Virus. Journal of Virology, 2015, 89, 4170-4179.	1.5	33
39	The Nucleoprotein of Newly Emerged H7N9 Influenza A Virus Harbors a Unique Motif Conferring Resistance to Antiviral Human MxA. Journal of Virology, 2015, 89, 2241-2252.	1.5	56
40	Structural Requirements for the Antiviral Activity of the Human MxA Protein against Thogoto and Influenza A Virus. Journal of Biological Chemistry, 2014, 289, 6020-6027.	1.6	56
41	Comparative Structural and Functional Analysis of Orthomyxovirus Polymerase Cap-Snatching Domains. PLoS ONE, 2014, 9, e84973.	1.1	18
42	Pandemic Influenza A Viruses Escape from Restriction by Human MxA through Adaptive Mutations in the Nucleoprotein. PLoS Pathogens, 2013, 9, e1003279.	2.1	156
43	Emergence of a C-Terminal Seven-Amino-Acid Elongation of NS1 in Around 1950 Conferred a Minor Growth Advantage to Former Seasonal Influenza A Viruses. Journal of Virology, 2013, 87, 11300-11303.	1.5	8
44	Evolution-Guided Identification of Antiviral Specificity Determinants in the Broadly Acting Interferon-Induced Innate Immunity Factor MxA. Cell Host and Microbe, 2012, 12, 598-604.	5.1	144
45	Altered receptor specificity and fusion activity of the haemagglutinin contribute to high virulence of a mouse-adapted influenza A virus. Journal of General Virology, 2012, 93, 970-979.	1.3	44
46	Human MxA Protein: An Interferon-Induced Dynamin-Like GTPase with Broad Antiviral Activity. Journal of Interferon and Cytokine Research, 2011, 31, 79-87.	0.5	293
47	Structure of Myxovirus Resistance Protein A Reveals Intra- and Intermolecular Domain Interactions Required for the Antiviral Function. Immunity, 2011, 35, 514-525.	6.6	188
48	The Viral Nucleoprotein Determines Mx Sensitivity of Influenza A Viruses. Journal of Virology, 2011, 85, 8133-8140.	1.5	159
49	Stalk Domain of the Dynamin-like MxA GTPase Protein Mediates Membrane Binding and Liposome Tubulation via the Unstructured L4 Loop. Journal of Biological Chemistry, 2011, 286, 37858-37865.	1.6	61
50	Structural basis of oligomerization in the stalk region of dynamin-like MxA. Nature, 2010, 465, 502-506.	13.7	229
51	Temporal and Spatial Resolution of Type I and III Interferon Responses <i>In Vi</i> <i>vo</i>. Journal of Virology, 2010, 84, 8626-8638.	1.5	100
52	Thogoto virus ML protein is a potent inhibitor of the interferon regulatory factor-7 transcription factor. Journal of General Virology, 2010, 91, 220-227.	1.3	18
53	Lambda Interferon Renders Epithelial Cells of the Respiratory and Gastrointestinal Tracts Resistant to Viral Infections. Journal of Virology, 2010, 84, 5670-5677.	1.5	369
54	Thogoto Virus Infection Induces Sustained Type I Interferon Responses That Depend on RIG-I-Like Helicase Signaling of Conventional Dendritic Cells. Journal of Virology, 2010, 84, 12344-12350.	1.5	19

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55	Dynamin-like MxA GTPase: Structural Insights into Oligomerization and Implications for Antiviral Activity. Journal of Biological Chemistry, 2010, 285, 28419-28424.	1.6	89
56	Oseltamivir-Resistant Variants of the 2009 Pandemic H1N1 Influenza A Virus Are Not Attenuated in the Guinea Pig and Ferret Transmission Models. Journal of Virology, 2010, 84, 11219-11226.	1.5	94
57	Glycine 184 in Nonstructural Protein NS1 Determines the Virulence of Influenza A Virus Strain PR8 without Affecting the Host Interferon Response. Journal of Virology, 2010, 84, 12761-12770.	1.5	62
58	High yields of influenza A virus in Madin-Darby canine kidney cells are promoted by an insufficient interferon-induced antiviral state. Journal of General Virology, 2010, 91, 1754-1763.	1.3	68
59	Structure of the MxA stalk elucidates the assembly of ring-like units of an antiviral module. Small GTPases, 2010, 1, 62-64.	0.7	20
60	Mx Proteins. , 2010, , 1855-1864.		0
61	Strong interferon-inducing capacity of a highly virulent variant of influenza A virus strain PR8 with deletions in the NS1 gene. Journal of General Virology, 2009, 90, 2990-2994.	1.3	49
62	Efficient production of Rift Valley fever virus-like particles: The antiviral protein MxA can inhibit primary transcription of bunyaviruses. Virology, 2009, 385, 400-408.	1.1	69
63	Influenza A Virus Strains Differ in Sensitivity to the Antiviral Action of Mx-GTPase. Journal of Virology, 2008, 82, 3624-3631.	1.5	123
64	Interferon-Î» Contributes to Innate Immunity of Mice against Influenza A Virus but Not against Hepatotropic Viruses. PLoS Pathogens, 2008, 4, e1000151.	2.1	276
65	Asparagine 631 Variants of the Chicken Mx Protein Do Not Inhibit Influenza Virus Replication in Primary Chicken Embryo Fibroblasts or In Vitro Surrogate Assays. Journal of Virology, 2008, 82, 7533-7539.	1.5	70
66	The Interferon Antagonist ML Protein of Thogoto Virus Targets General Transcription Factor IIB. Journal of Virology, 2008, 82, 11446-11453.	1.5	24
67	Mx1 Gene Protects Mice Against the Highly Lethal Human H5N1 Influenza Virus. Cell Cycle, 2007, 6, 2417-2421.	1.3	54
68	Replication fitness determines high virulence of influenza A virus in mice carrying functional Mx1 resistance gene. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6806-6811.	3.3	178
69	Induction of MxA Gene Expression by Influenza A Virus Requires Type I or Type III Interferon Signaling. Journal of Virology, 2007, 81, 7776-7785.	1.5	205
70	Multiple Anti-Interferon Actions of the Influenza A Virus NS1 Protein. Journal of Virology, 2007, 81, 7011-7021.	1.5	404
71	The <i>Mx1</i> Gene Protects Mice against the Pandemic 1918 and Highly Lethal Human H5N1 Influenza Viruses. Journal of Virology, 2007, 81, 10818-10821.	1.5	161
72	Properties of H7N7 influenza A virus strain SC35M lacking interferon antagonist NS1 in mice and chickens. Journal of General Virology, 2007, 88, 1403-1409.	1.3	87

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73	West Nile virus-induced cytoplasmic membrane structures provide partial protection against the interferon-induced antiviral MxA protein. Journal of General Virology, 2007, 88, 3013-3017.	1.3	51
74	Interferon, Mx, and viral countermeasures. Cytokine and Growth Factor Reviews, 2007, 18, 425-433.	3.2	147
75	The interferon response circuit: Induction and suppression by pathogenic viruses. Virology, 2006, 344, 119-130.	1.1	597
76	Rapid and simple detection of IFN-neutralizing antibodies in chronic hepatitis C non-responsive to IFN-Î±. Journal of Medical Virology, 2006, 78, 74-82.	2.5	47
77	Interferon-Induced, Antiviral Human MxA Protein Localizes to a Distinct Subcompartment of the Smooth Endoplasmic Reticulum. Journal of Interferon and Cytokine Research, 2006, 26, 650-660.	0.5	69
78	Thogoto virus ML protein suppresses IRF3 function. Virology, 2005, 331, 63-72.	1.1	61
79	Assay and Functional Analysis of Dynaminâ€Like Mx Proteins. Methods in Enzymology, 2005, 404, 632-643.	0.4	35
80	Thogoto Virus Lacking Interferon-Antagonistic Protein ML Is Strongly Attenuated in Newborn Mx1 -Positive but Not Mx1 -Negative Mice. Journal of Virology, 2004, 78, 11422-11424.	1.5	23
81	Functional comparison of the two gene products of Thogoto virus segment 6. Journal of General Virology, 2004, 85, 3699-3708.	1.3	12
82	Missorting of LaCrosse Virus Nucleocapsid Protein by the Interferon-Induced MxA GTPase Involves Smooth ER Membranes. Traffic, 2004, 5, 772-784.	1.3	101
83	Novel Gene Product of Thogoto Virus Segment 6 Codes for an Interferon Antagonist. Journal of Virology, 2003, 77, 2747-2752.	1.5	43
84	Viral Evasion of the Interferon System: Old Viruses, New Tricks. Journal of Interferon and Cytokine Research, 2003, 23, 209-213.	0.5	13
85	Antivirally active MxA protein sequesters La Crosse virus nucleocapsid protein into perinuclear complexes. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3153-3158.	3.3	191
86	Self-assembly of Human MxA GTPase into Highly Ordered Dynamin-like Oligomers. Journal of Biological Chemistry, 2002, 277, 14172-14176.	1.6	84
87	Interferon-Induced Mx Proteins: Dynamin-Like GTPases with Antiviral Activity. Traffic, 2002, 3, 710-717.	1.3	393
88	Rescue of Recombinant Thogoto Virus from Cloned cDNA. Journal of Virology, 2001, 75, 9282-9286.	1.5	29
89	MxA GTPase Blocks Reporter Gene Expression of Reconstituted Thogoto Virus Ribonucleoprotein Complexes. Journal of Virology, 2000, 74, 560-563.	1.5	49
90	Thogoto Virus Matrix Protein Is Encoded by a Spliced mRNA. Journal of Virology, 2000, 74, 10785-10789.	1.5	26

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91	Formation of virus-like particles from cloned cDNAs of Thogoto virus. Journal of General Virology, 2000, 81, 2849-2853.	1.3	15
92	GTP-bound Human MxA Protein Interacts with the Nucleocapsids of Thogoto Virus (Orthomyxoviridae). Journal of Biological Chemistry, 1999, 274, 4370-4376.	1.6	92
93	The central interactive region of human MxA GTPase is involved in GTPase activation and interaction with viral target structures. FEBS Letters, 1999, 463, 24-28.	1.3	128
94	A Classical Bipartite Nuclear Localization Signal on Thogoto and Influenza A Virus Nucleoproteins. Virology, 1998, 250, 9-18.	1.1	102
95	In vivo reconstitution of active Thogoto virus polymerase: assays for the compatibility with other orthomyxovirus core proteins and template RNAs. Virus Research, 1998, 58, 13-20.	1.1	23
96	The fourth genus in the Orthomyxoviridae: sequence analyses of two Thogoto virus polymerase proteins and comparison with influenza viruses. Virus Research, 1997, 50, 215-224.	1.1	40
97	Mx1 but Not MxA Confers Resistance against Tick-Borne Dhori Virus in Mice. Virology, 1995, 211, 296-301.	1.1	43