Franz X Heinz

List of Publications by Year
in descending order

73 papers	7,944 citations	71061 41 h-index	82499 72 g-index
76 all docs	76 docs citations	76 times ranked	5824 citing authors

#	Article	IF	Citations
1	The envelope glycoprotein from tick-borne encephalitis virus at 2 Ã… resolution. Nature, 1995, 375, 291-298.	13.7	1,344
2	Structure of a flavivirus envelope glycoprotein in its low-pH-induced membrane fusion conformation. EMBO Journal, 2004, 23, 728-738.	3.5	526
3	Structural basis of potent Zikaâ€"dengue virus antibody cross-neutralization. Nature, 2016, 536, 48-53.	13.7	465
4	Mutational Evidence for an Internal Fusion Peptide in Flavivirus Envelope Protein E. Journal of Virology, 2001, 75, 4268-4275.	1.5	295
5	Structural Changes and Functional Control of the Tick-Borne Encephalitis Virus Glycoprotein E by the Heterodimeric Association with Protein prM. Virology, 1994, 198, 109-117.	1.1	247
6	Distinguishing features of current COVID-19 vaccines: knowns and unknowns of antigen presentation and modes of action. Npj Vaccines, 2021, 6, 104.	2.9	241
7	Flaviviruses and flavivirus vaccines. Vaccine, 2012, 30, 4301-4306.	1.7	226
8	Field effectiveness of vaccination against tick-borne encephalitis. Vaccine, 2007, 25, 7559-7567.	1.7	225
9	Adaptation of Tick-Borne Encephalitis Virus to BHK-21 Cells Results in the Formation of Multiple Heparan Sulfate Binding Sites in the Envelope Protein and Attenuation In Vivo. Journal of Virology, 2001, 75, 5627-5637.	1.5	206
10	Cryptic Properties of a Cluster of Dominant Flavivirus Cross-Reactive Antigenic Sites. Journal of Virology, 2006, 80, 9557-9568.	1.5	204
11	Cleavage of protein prM is necessary for infection of BHK-21 cells by tick-borne encephalitis virus FN1. Journal of General Virology, 2003, 84, 183-191.	1.3	191
12	The bright and the dark side of human antibody responses to flaviviruses: lessons for vaccine design. EMBO Reports, 2018, 19, 206-224.	2.0	188
13	Mapping of Functional Elements in the Stem-Anchor Region of Tick-Borne Encephalitis Virus Envelope Protein E. Journal of Virology, 1999, 73, 5605-5612.	1.5	178
14	Sequence of the structural proteins of tick-borne encephalitis virus (Western subtype) and comparative analysis with other flaviviruses. Virology, 1988, 166, 197-205.	1.1	173
15	Vaccination and Tick-borne Encephalitis, Central Europe. Emerging Infectious Diseases, 2013, 19, 69-76.	2.0	169
16	Flavivirus membrane fusion. Journal of General Virology, 2006, 87, 2755-2766.	1.3	162
17	The Antigenic Structure of Zika Virus and Its Relation to Other Flaviviruses: Implications for Infection and Immunoprophylaxis. Microbiology and Molecular Biology Reviews, 2017, 81, .	2.9	156
18	Epitope model of tick-borne encephalitis virus envelope glycoprotein E: Analysis of structural properties, role of carbohydrate side chain, and conformational changes occurring at acidic pH. Virology, 1989, 169, 90-99.	1.1	149

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19	Genome sequence of tick-borne encephalitis virus (Western subtype) and comparative analysis of nonstructural proteins with other flaviviruses. Virology, 1989, 173, 291-301.	1.1	144
20	Establishment of PCR for the early diagnosis of herpes simplex encephalitis. Journal of Medical Virology, 1990, 32, 77-82.	2.5	125
21	Membrane Fusion Activity of Tick-Borne Encephalitis Virus and Recombinant Subviral Particles in a Liposomal Model System. Virology, 2000, 269, 37-46.	1.1	124
22	Attenuation of Tick-Borne Encephalitis Virus by Structure-Based Site-Specific Mutagenesis of a Putative Flavivirus Receptor Binding Site. Journal of Virology, 2000, 74, 9601-9609.	1.5	123
23	Flavivirus Structure and Membrane Fusion. Advances in Virus Research, 2003, 59, 63-97.	0.9	123
24	Membrane Interactions of the Tick-Borne Encephalitis Virus Fusion Protein E at Low pH. Journal of Virology, 2002, 76, 3784-3790.	1.5	119
25	In vitro-synthesized infectious RNA as an attenuated live vaccine in a flavivirus model. Nature Medicine, 1998, 4, 1438-1440.	15.2	113
26	Immunogenicity and reactogenicity of a highly purified vaccine against tick-borne encephalitis. Journal of Medical Virology, 1980, 6, 103-109.	2.5	105
27	Characteristics of antibody responses in tick-borne encephalitis vaccination breakthroughs. Vaccine, 2009, 27, 7021-7026.	1.7	97
28	Involvement of Lipids in Different Steps of the Flavivirus Fusion Mechanism. Journal of Virology, 2003, 77, 7856-7862.	1.5	86
29	Preparation of a highly purified vaccine against tick-borne encephalitis by continuous flow zonal ultracentrifugation. Journal of Medical Virology, 1980, 6, 213-221.	2.5	81
30	Characterization of a Structural Intermediate of Flavivirus Membrane Fusion. PLoS Pathogens, 2007, 3, e20.	2.1	76
31	Variation of the Specificity of the Human Antibody Responses after Tick-Borne Encephalitis Virus Infection and Vaccination. Journal of Virology, 2014, 88, 13845-13857.	1.5	76
32	Specificities of Human CD4 ⁺ T Cell Responses to an Inactivated Flavivirus Vaccine and Infection: Correlation with Structure and Epitope Prediction. Journal of Virology, 2014, 88, 7828-7842.	1.5	67
33	The molecular biology of tick-borne encephalitis virus. Apmis, 1993, 101, 735-745.	0.9	64
34	Flavivirus structural heterogeneity: implications for cell entry. Current Opinion in Virology, 2017, 24, 132-139.	2.6	62
35	Dissection of Antibody Specificities Induced by Yellow Fever Vaccination. PLoS Pathogens, 2013, 9, e1003458.	2.1	61
36	Role of Metastability and Acidic pH in Membrane Fusion by Tick-Borne Encephalitis Virus. Journal of Virology, 2001, 75, 7392-7398.	1.5	60

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37	A novel mechanism of antibody-mediated enhancement of flavivirus infection. PLoS Pathogens, 2017, 13, e1006643.	2.1	56
38	Characterization of a Membrane-Associated Trimeric Low-pH-Induced Form of the Class II Viral Fusion Protein E from Tick-Borne Encephalitis Virus and Its Crystallization. Journal of Virology, 2004, 78, 3178-3183.	1.5	55
39	Dynamics of CD4 T Cell and Antibody Responses in COVID-19 Patients With Different Disease Severity. Frontiers in Medicine, 2020, 7, 592629.	1.2	54
40	Pre-existing yellow fever immunity impairs and modulates the antibody response to tick-borne encephalitis vaccination. Npj Vaccines, 2019, 4, 38.	2.9	47
41	Effect of pre-existing anti-tick-borne encephalitis virus immunity on neutralising antibody response to the Vero cell-derived, inactivated Japanese encephalitis virus vaccine candidate IC51. Vaccine, 2008, 26, 6151-6156.	1.7	46
42	Membrane Anchors of the Structural Flavivirus Proteins and Their Role in Virus Assembly. Journal of Virology, 2016, 90, 6365-6378.	1.5	45
43	Efficiency of the polymerase chain reaction for the detection of human immunodeficiency virus type (HIV-1) DNA in the lymphocytes of infected persons: Comparison to antigen-enzyme-linked immunosorbent assay and virus isolation. Journal of Medical Virology, 1989, 29, 249-255.	2.5	44
44	Impact of Quaternary Organization on the Antigenic Structure of the Tick-Borne Encephalitis Virus Envelope Glycoprotein E. Journal of Virology, 2009, 83, 8482-8491.	1.5	43
45	Immunodominance and Functional Activities of Antibody Responses to Inactivated West Nile Virus and Recombinant Subunit Vaccines in Mice. Journal of Virology, 2011, 85, 1994-2003.	1.5	43
46	Human CD4+ T Helper Cell Responses after Tick-Borne Encephalitis Vaccination and Infection. PLoS ONE, 2015, 10, e0140545.	1.1	36
47	Molecular aspects of TBE virus research. Vaccine, 2003, 21, S3-S10.	1.7	33
48	Profiles of current COVID-19 vaccines. Wiener Klinische Wochenschrift, 2021, 133, 271-283.	1.0	32
49	Heterologous gene expression by infectious and replicon vectors derived from tick-borne encephalitis virus and direct comparison of this flavivirus system with an alphavirus replicon. Journal of General Virology, 2005, 86, 1045-1053.	1.3	30
50	Possible influence of the mutant CCR5 allele on vertical transmission of HIV-1. , 1998, 55, 51-55.		27
51	Impact of flavivirus vaccine-induced immunity on primary Zika virus antibody response in humans. PLoS Neglected Tropical Diseases, 2020, 14, e0008034.	1.3	27
52	Structural Influence on the Dominance of Virus-Specific CD4 T Cell Epitopes in Zika Virus Infection. Frontiers in Immunology, 2018, 9, 1196.	2.2	25
53	Comparison of line probe assay (LIPA) and sequence analysis for detection of HIV-1 drug resistance. , 1999, 57, 283-289.		23
54	Immunization with Immune Complexes Modulates the Fine Specificity of Antibody Responses to a Flavivirus Antigen. Journal of Virology, 2015, 89, 7970-7978.	1.5	23

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55	The Membrane-Proximal â€œStemâ€• Region Increases the Stability of the Flavivirus E Protein Postfusion Trimer and Modulates Its Structure. Journal of Virology, 2013, 87, 9933-9938.	1.5	20
56	Aluminum Hydroxide Influences Not Only the Extent but Also the Fine Specificity and Functional Activity of Antibody Responses to Tick-Borne Encephalitis Virus in Mice. Journal of Virology, 2013, 87, 12187-12195.	1.5	18
57	Protein structure shapes immunodominance in the CD4 T cell response to yellow fever vaccination. Scientific Reports, 2017, 7, 8907.	1.6	18
58	Differences in the Postfusion Conformations of Full-Length and Truncated Class II Fusion Protein E of Tick-Borne Encephalitis Virus. Journal of Virology, 2005, 79, 6511-6515.	1.5	17
59	Primary immune responses are negatively impacted by persistent herpesvirus infections in older people: results from an observational study on healthy subjects and a vaccination trial on subjects aged more than 70 years old. EBioMedicine, 2022, 76, 103852.	2.7	17
60	Evolution and activation mechanism of the flavivirus class II membrane-fusion machinery. Nature Communications, 2022, 13, .	5.8	17
61	Tick-Borne Encephalitis in Vaccinated Patients: A Retrospective Case-Control Study and Analysis of Vaccination Field Effectiveness in Austria From 2000 to 2018. Journal of Infectious Diseases, 2023, 227, 512-521.	1.9	10
62	Extensive flavivirus E trimer breathing accompanies stem zippering of the postâ€fusion hairpin. EMBO Reports, 2020, 21, e50069.	2.0	8
63	CD4 T Cell Determinants in West Nile Virus Disease and Asymptomatic Infection. Frontiers in Immunology, 2020, 11, 16.	2.2	7
64	Dynamics and Extent of Non-Structural Protein 1-Antibody Responses in Tick-Borne Encephalitis Vaccination Breakthroughs and Unvaccinated Patients. Viruses, 2021, 13, 1007.	1.5	7
65	The regional decline and rise of tick-borne encephalitis incidence do not correlate with Lyme borreliosis, Austria, 2005 to 2018. Eurosurveillance, 2021, 26, .	3.9	6
66	Entry Functions and Antigenic Structure of Flavivirus Envelope Proteins. Novartis Foundation Symposium, 2008, , 57-73.	1.2	5
67	Different Cross-Reactivities of IgM Responses in Dengue, Zika and Tick-Borne Encephalitis Virus Infections. Viruses, 2021, 13, 596.	1.5	5
68	Impact of structural dynamics on biological functions of flaviviruses. FEBS Journal, 2023, 290, 1973-1985.	2.2	5
69	Profile of SARS-CoV-2. Wiener Klinische Wochenschrift, 2020, 132, 635-644.	1.0	4
70	Possible influence of the mutant CCR5 allele on vertical transmission of HIVâ€1. Journal of Medical Virology, 1998, 55, 51-55.	2.5	4
71	When it is better to stay together. Nature Immunology, 2019, 20, 1266-1268.	7.0	1
72	An Absolutely Conserved Tryptophan in the Stem of the Envelope Protein E of Flaviviruses Is Essential for the Formation of Stable Particles. Viruses, 2021, 13, 1727.	1.5	1

#	Article	IF	Citations
73	Obituary for Christian Kunz, 1927â€“2020. Wiener Klinische Wochenschrift, 2020, 132, 410-411.	1.0	0