

Isidro Hotzel

List of Publications by Year in descending order

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55
papers

1,884
citations

304743

22
h-index

276875

41
g-index

60
all docs

60
docs citations

60
times ranked

3006
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane-Proximal Epitope Facilitates Efficient T Cell Synapse Formation by Anti-FcRH5/CD3 and Is a Requirement for Myeloma Cell Killing. <i>Cancer Cell</i> , 2017, 31, 383-395.	16.8	220
2	A strategy for risk mitigation of antibodies with fast clearance. <i>MAbs</i> , 2012, 4, 753-760.	5.2	200
3	The artiodactyl APOBEC3 innate immune repertoire shows evidence for a multi-functional domain organization that existed in the ancestor of placental mammals. <i>BMC Molecular Biology</i> , 2008, 9, 104.	3.0	169
4	Molecular basis for negative regulation of the glucagon receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 14393-14398.	7.1	119
5	Massively parallel single-cell B-cell receptor sequencing enables rapid discovery of diverse antigen-reactive antibodies. <i>Communications Biology</i> , 2019, 2, 304.	4.4	111
6	Antibody-Mediated Targeting of Tau In Vivo Does Not Require Effector Function and Microglial Engagement. <i>Cell Reports</i> , 2016, 16, 1690-1700.	6.4	102
7	Evaluating the Use of Antibody Variable Region (Fv) Charge as a Risk Assessment Tool for Predicting Typical Cynomolgus Monkey Pharmacokinetics. <i>Journal of Biological Chemistry</i> , 2015, 290, 29732-29741.	3.4	67
8	Structure, sequence, and transcriptional analysis of the <i>Babesia bovis</i> rap-1 multigene locus. Note: Nucleotide sequence data reported in this paper for the 11 kb genomic construct 3.111 has been submitted to the GenBank [®] data base with accession numbers AF027149, AF028591 and AF028592.1. <i>Molecular and Biochemical Parasitology</i> , 1998, 93, 215-224.	1.1	55
9	Organization, transcription, and expression of rho-try associated protein genes in the <i>Babesia bigemina</i> rap-1 locus. <i>Molecular and Biochemical Parasitology</i> , 2003, 127, 101-112.	1.1	53
10	Antibody semorinemab reduces tau pathology in a transgenic mouse model and engages tau in patients with Alzheimer's disease. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	50
11	The INNs and outs of antibody nonproprietary names. <i>MAbs</i> , 2016, 8, 1-9.	5.2	48
12	Genetic variation in the dimorphic regions of rap-1 genes and rap-1 loci of <i>Babesia bigemina</i> . Note: Nucleotide sequences data reported in this paper are available in the GenBank [®] data base under the accession numbers AF014486, AF014757 to AF014768, and AF017284 to AF017298.1. <i>Molecular and Biochemical Parasitology</i> , 1997, 90, 479-489.	1.1	45
13	Efficient production of antibodies against a mammalian integral membrane protein by phage display. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 679-689.	2.1	37
14	Inhibitory Mechanism of an Allosteric Antibody Targeting the Glucagon Receptor. <i>Journal of Biological Chemistry</i> , 2013, 288, 36168-36178.	3.4	31
15	Automated Affinity Capture and On-Tip Digestion to Accurately Quantitate <i>in Vivo</i> Deamidation of Therapeutic Antibodies. <i>Analytical Chemistry</i> , 2016, 88, 11521-11526.	6.5	29
16	Muscle specific kinase (MuSK) activation preserves neuromuscular junctions in the diaphragm but is not sufficient to provide a functional benefit in the SOD1G93A mouse model of ALS. <i>Neurobiology of Disease</i> , 2019, 124, 340-352.	4.4	26
17	Depletion of major pathogenic cells in asthma by targeting CRTh2. <i>JCI Insight</i> , 2016, 1, e86689.	5.0	26
18	Host Range of Small-Ruminant Lentivirus Cytopathic Variants Determined with a Selectable Caprine Arthritis-Encephalitis Virus Pseudotype System. <i>Journal of Virology</i> , 2001, 75, 7384-7391.	3.4	24

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19	Differential Receptor Usage of Small Ruminant Lentiviruses in Ovine and Caprine Cells: Host Range but not Cytopathic Phenotype Is Determined by Receptor Usage. <i>Virology</i> , 2002, 301, 21-31.	2.4	24
20	An improved and robust DNA immunization method to develop antibodies against extra-cellular loops of multi-transmembrane proteins. <i>MABs</i> , 2014, 6, 95-107.	5.2	24
21	Differentiation of classical swine fever virus from ruminant pestiviruses by reverse transcription and polymerase chain reaction (RT-PCR). <i>Veterinary Microbiology</i> , 1996, 48, 373-379.	1.9	23
22	In vitro affinity maturation of a natural human antibody overcomes a barrier to in vivo affinity maturation. <i>MABs</i> , 2014, 6, 437-445.	5.2	23
23	Structural investigation of human <i>S. aureus</i> targeting antibodies that bind wall teichoic acid. <i>MABs</i> , 2018, 10, 1-13.	5.2	23
24	Dimorphic sequences of rap-1 genes encode B and CD4+ T helper lymphocyte epitopes in the <i>Babesia bigemina</i> rhoptry associated protein-1. <i>Molecular and Biochemical Parasitology</i> , 1996, 81, 89-99.	1.1	19
25	Sequence similarity between the envelope surface unit (SU) glycoproteins of primate and small ruminant lentiviruses. <i>Virus Research</i> , 2000, 69, 47-54.	2.2	19
26	Rapid evolution of two discrete regions of the caprine arthritis-encephalitis virus envelope surface glycoprotein during persistent infection. <i>Virus Research</i> , 2002, 84, 17-25.	2.2	19
27	TNF α and GM-CSF-induced activation of the CAEV promoter is independent of AP-1. <i>Virology</i> , 2006, 352, 188-199.	2.4	18
28	Barcoded sequencing workflow for high throughput digitization of hybridoma antibody variable domain sequences. <i>Journal of Immunological Methods</i> , 2018, 455, 88-94.	1.4	18
29	Immune repertoire mining for rapid affinity optimization of mouse monoclonal antibodies. <i>MABs</i> , 2019, 11, 735-746.	5.2	18
30	Sequence and Functional Analysis of the Intergenic Regions Separating Babesial Rhoptry-Associated Protein-1 (rap-1) Genes. <i>Experimental Parasitology</i> , 1998, 90, 189-194.	1.2	17
31	Conservation of Human Immunodeficiency Virus Type 1 gp120 Inner-Domain Sequences in Lentivirus and Type A and B Retrovirus Envelope Surface Glycoproteins. <i>Journal of Virology</i> , 2001, 75, 2014-2018.	3.4	17
32	Caprine Arthritis-Encephalitis Virus Envelope Surface Glycoprotein Regions Interacting with the Transmembrane Glycoprotein: Structural and Functional Parallels with Human Immunodeficiency Virus Type 1 gp120. <i>Journal of Virology</i> , 2003, 77, 11578-11587.	3.4	17
33	Seven new ovine progressive pneumonia virus (OPPV) field isolates from Dubois Idaho sheep comprise part of OPPV clade II based on surface envelope glycoprotein (SU) sequences. <i>Virus Research</i> , 2004, 102, 215-220.	2.2	16
34	Susceptibility of Antibody CDR Residues to Chemical Modifications Can Be Revealed Prior to Antibody Humanization and Aid in the Lead Selection Process. <i>Molecular Pharmaceutics</i> , 2018, 15, 4529-4537.	4.6	16
35	Plasmid DNA encoding caprine interferon gamma inhibits antibody response to caprine arthritis-encephalitis virus (CAEV) surface protein encoded by a co-administered plasmid expressing CAEV env and tat genes. <i>Vaccine</i> , 2001, 19, 3209-3215.	3.8	15
36	Conservation of the Human Immunodeficiency Virus Type 1 gp120 V1/V2 Stem/Loop Structure in the Equine Infectious Anemia Virus (EIAV) gp90. <i>AIDS Research and Human Retroviruses</i> , 2003, 19, 923-924.	1.1	15

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37	Dynamics of heavy chain junctional length biases in antibody repertoires. <i>Communications Biology</i> , 2020, 3, 207.	4.4	14
38	High-throughput screening of antibody variants for chemical stability: identification of deamidation-resistant mutants. <i>MABs</i> , 2018, 10, 1-11.	5.2	13
39	A dual host vector for Fab phage display and expression of native IgG in mammalian cells. <i>Protein Engineering, Design and Selection</i> , 2013, 26, 655-662.	2.1	12
40	DETECTION OF BOVINE RESPIRATORY SYNCYTIAL VIRUS IN CALVES OF RIO GRANDE DO SUL, BRAZIL. <i>Ciencia Rural</i> , 1993, 23, 389-390.	0.5	11
41	Generation and characterization of a unique reagent that recognizes a panel of recombinant human monoclonal antibody therapeutics in the presence of endogenous human IgG. <i>MABs</i> , 2013, 5, 540-554.	5.2	10
42	Mutations increasing exposure of a receptor binding site epitope in the soluble and oligomeric forms of the caprine arthritis-encephalitis lentivirus envelope glycoprotein. <i>Virology</i> , 2005, 339, 261-272.	2.4	8
43	Conservation of inner domain modules in the surface envelope glycoproteins of an ancient rabbit lentivirus and extant lentiviruses and betaretroviruses. <i>Virology</i> , 2008, 372, 201-207.	2.4	8
44	Preclinical Safety Profile of a Depleting Antibody against CRTh2 for Asthma: Well Tolerated Despite Unexpected CRTh2 Expression on Vascular Pericytes in the Central Nervous System and Gastric Mucosa. <i>Toxicological Sciences</i> , 2016, 152, 72-84.	3.1	7
45	Extracellular BMP1 is the major proteinase for COOH-terminal proteolysis of type I procollagen in lung fibroblasts. <i>American Journal of Physiology - Cell Physiology</i> , 2021, 320, C162-C174.	4.6	7
46	A maedi-visna virus strain K1514 receptor gene is located in sheep chromosome 3p and the syntenic region of human chromosome 2. <i>Journal of General Virology</i> , 2002, 83, 1759-1764.	2.9	7
47	Surface Envelope Glycoprotein Is B-Lymphocyte Immunodominant in Sheep Naturally Infected with Ovine Progressive Pneumonia Virus. <i>Vaccine Journal</i> , 2005, 12, 797-800.	3.1	6
48	Restricted epitope specificity determined by variable region germline segment pairing in rodent antibody repertoires. <i>MABs</i> , 2020, 12, 1722541.	5.2	6
49	Deep-Time Structural Evolution of Retroviral and Filoviral Surface Envelope Proteins. <i>Journal of Virology</i> , 2022, 96, e0006322.	3.4	6
50	Anti-FcRH5/CD3 T Cell Dependent Bispecific Antibody (TDB) for the Treatment of Multiple Myeloma. <i>Blood</i> , 2016, 128, 4475-4475.	1.4	4
51	Domain Organization of Lentiviral and Betaretroviral Surface Envelope Glycoproteins Modeled with AlphaFold. <i>Journal of Virology</i> , 2022, 96, JVI0134821.	3.4	4
52	Modular protein expression by RNA trans-splicing enables flexible expression of antibody formats in mammalian cells from a dual-host phage display vector. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 437-444.	2.1	2
53	Extrachromosomal nucleic acids in bovine babesia. <i>Memorias Do Instituto Oswaldo Cruz</i> , 1992, 87, 101-102.	1.6	1
54	Characterization of Helper T Cell Responses against Rhopty-Associated Protein 1 (RAP-1) of Babesial Parasites. <i>Annals of the New York Academy of Sciences</i> , 1996, 791, 128-135.	3.8	1

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55	Studies of the Structure of Caprine Arthritis-Encephalitis Virus Surface Envelope Glycoprotein. , 2006, , 391-403.		0