

Carlos Oscar S Sorzano

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,560
citations

236833

25
h-index

223716

46
g-index

60
all docs

60
docs citations

60
times ranked

3368
citing authors

#	ARTICLE	IF	CITATIONS
1	DeepEMhancer: a deep learning solution for cryo-EM volume post-processing. <i>Communications Biology</i> , 2021, 4, 874.	2.0	561
2	<i>BRANCHED1</i> Promotes Axillary Bud Dormancy in Response to Shade in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2013, 25, 834-850.	3.1	219
3	MonoRes: Automatic and Accurate Estimation of Local Resolution for Electron Microscopy Maps. <i>Structure</i> , 2018, 26, 337-344.e4.	1.6	179
4	Automatic local resolution-based sharpening of cryo-EM maps. <i>Bioinformatics</i> , 2020, 36, 765-772.	1.8	110
5	A Novel Poxvirus-Based Vaccine, MVA-CHIKV, Is Highly Immunogenic and Protects Mice against Chikungunya Infection. <i>Journal of Virology</i> , 2014, 88, 3527-3547.	1.5	101
6	Iterative Elastic 3D-to-2D Alignment Method Using Normal Modes for Studying Structural Dynamics of Large Macromolecular Complexes. <i>Structure</i> , 2014, 22, 496-506.	1.6	90
7	COVID-19 Vaccine Candidates Based on Modified Vaccinia Virus Ankara Expressing the SARS-CoV-2 Spike Protein Induce Robust T- and B-Cell Immune Responses and Full Efficacy in Mice. <i>Journal of Virology</i> , 2021, 95, .	1.5	78
8	Immunogenic Profiling in Mice of a HIV/AIDS Vaccine Candidate (MVA-B) Expressing Four HIV-1 Antigens and Potentiation by Specific Gene Deletions. <i>PLoS ONE</i> , 2010, 5, e12395.	1.1	74
9	A Candidate HIV/AIDS Vaccine (MVA-B) Lacking Vaccinia Virus Gene C6L Enhances Memory HIV-1-Specific T-Cell Responses. <i>PLoS ONE</i> , 2011, 6, e24244.	1.1	67
10	The HIV/AIDS Vaccine Candidate MVA-B Administered as a Single Immunogen in Humans Triggers Robust, Polyfunctional, and Selective Effector Memory T Cell Responses to HIV-1 Antigens. <i>Journal of Virology</i> , 2011, 85, 11468-11478.	1.5	63
11	Improving Adaptive and Memory Immune Responses of an HIV/AIDS Vaccine Candidate MVA-B by Deletion of Vaccinia Virus Genes (C6L and K7R) Blocking Interferon Signaling Pathways. <i>PLoS ONE</i> , 2013, 8, e66894.	1.1	60
12	Large T antigen on the simian virus 40 origin of replication: a 3D snapshot prior to DNA replication. <i>EMBO Journal</i> , 2003, 22, 6205-6213.	3.5	55
13	Characterization of transfer function, resolution and depth of field of a soft X-ray microscope applied to tomography enhancement by Wiener deconvolution. <i>Biomedical Optics Express</i> , 2016, 7, 5092.	1.5	53
14	<i>DeepRes</i> : a new deep-learning- and aspect-based local resolution method for electron-microscopy maps. <i>IUCr</i> , 2019, 6, 1054-1063.	1.0	45
15	A Vaccine Based on a Modified Vaccinia Virus Ankara Vector Expressing Zika Virus Structural Proteins Controls Zika Virus Replication in Mice. <i>Scientific Reports</i> , 2018, 8, 17385.	1.6	43
16	A Human Multi-Epitope Recombinant Vaccinia Virus as a Universal T Cell Vaccine Candidate against Influenza Virus. <i>PLoS ONE</i> , 2011, 6, e25938.	1.1	42
17	Deletion of the Vaccinia Virus N2L Gene Encoding an Inhibitor of IRF3 Improves the Immunogenicity of Modified Vaccinia Virus Ankara Expressing HIV-1 Antigens. <i>Journal of Virology</i> , 2014, 88, 3392-3410.	1.5	41
18	High, Broad, Polyfunctional, and Durable T Cell Immune Responses Induced in Mice by a Novel Hepatitis C Virus (HCV) Vaccine Candidate (MVA-HCV) Based on Modified Vaccinia Virus Ankara Expressing the Nearly Full-Length HCV Genome. <i>Journal of Virology</i> , 2013, 87, 7282-7300.	1.5	39

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19	Continuous flexibility analysis of SARS-CoV-2 spike prefusion structures. <i>IUCr</i> , 2020, 7, 1059-1069.	1.0	39
20	Removal of Vaccinia Virus Genes That Block Interferon Type I and II Pathways Improves Adaptive and Memory Responses of the HIV/AIDS Vaccine Candidate NYVAC-C in Mice. <i>Journal of Virology</i> , 2012, 86, 5026-5038.	1.5	38
21	<i>Deep Consensus</i>, a deep learning-based approach for particle pruning in cryo-electron microscopy. <i>IUCr</i> , 2018, 5, 854-865.	1.0	37
22	Distinct Roles of Vaccinia Virus NF- κ B Inhibitor Proteins A52, B15, and K7 in the Immune Response. <i>Journal of Virology</i> , 2017, 91, .	1.5	31
23	High Quality Long-Term CD4+ and CD8+ Effector Memory Populations Stimulated by DNA-LACK/MVA-LACK Regimen in <i>Leishmania major</i> BALB/c Model of Infection. <i>PLoS ONE</i> , 2012, 7, e38859.	1.1	30
24	Virological and Immunological Characterization of Novel NYVAC-Based HIV/AIDS Vaccine Candidates Expressing Clade C Trimeric Soluble gp140(ZM96) and Gag(ZM96)-Pol-Nef(CN54) as Virus-Like Particles. <i>Journal of Virology</i> , 2015, 89, 970-988.	1.5	30
25	Deletion of the Viral Anti-Apoptotic Gene F1L in the HIV/AIDS Vaccine Candidate MVA-C Enhances Immune Responses against HIV-1 Antigens. <i>PLoS ONE</i> , 2012, 7, e48524.	1.1	30
26	FSC-Q: a CryoEM map-to-atomic model quality validation based on the local Fourier shell correlation. <i>Nature Communications</i> , 2021, 12, 42.	5.8	28
27	NF κ B activation by modified vaccinia virus as a novel strategy to enhance neutrophil migration and HIV-specific T-cell responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E1333-E1342.	3.3	26
28	Deletion of the Vaccinia Virus Gene A46R, Encoding for an Inhibitor of TLR Signalling, Is an Effective Approach to Enhance the Immunogenicity in Mice of the HIV/AIDS Vaccine Candidate NYVAC-C. <i>PLoS ONE</i> , 2013, 8, e74831.	1.1	25
29	XTEND: Extending the depth of field in cryo soft X-ray tomography. <i>Scientific Reports</i> , 2017, 7, 45808.	1.6	24
30	Hybrid Electron Microscopy Normal Mode Analysis with Scipion. <i>Protein Science</i> , 2020, 29, 223-236.	3.1	24
31	New vaccinia virus promoter as a potential candidate for future vaccines. <i>Journal of General Virology</i> , 2013, 94, 2771-2776.	1.3	22
32	Measurement of the modulation transfer function of an X-ray microscope based on multiple Fourier orders analysis of a Siemens star. <i>Optics Express</i> , 2015, 23, 9567.	1.7	21
33	Hybrid Electron Microscopy Normal Mode Analysis graphical interface and protocol. <i>Journal of Structural Biology</i> , 2014, 188, 134-141.	1.3	18
34	Modification of promoter spacer length in vaccinia virus as a strategy to control the antigen expression. <i>Journal of General Virology</i> , 2015, 96, 2360-2371.	1.3	14
35	Deletion of Vaccinia Virus A40R Gene Improves the Immunogenicity of the HIV-1 Vaccine Candidate MVA-B. <i>Vaccines</i> , 2020, 8, 70.	2.1	13
36	A Novel MVA-Based HIV Vaccine Candidate (MVA-gp145-GPN) Co-Expressing Clade C Membrane-Bound Trimeric gp145 Env and Gag-Induced Virus-Like Particles (VLPs) Triggered Broad and Multifunctional HIV-1-Specific T Cell and Antibody Responses. <i>Viruses</i> , 2019, 11, 160.	1.5	12

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37	Emerging Themes in CryoEMâ€™ Single Particle Analysis Image Processing. <i>Chemical Reviews</i> , 2022, 122, 13915-13951.	23.0	12
38	Error analysis in the determination of the electron microscopical contrast transfer function parameters from experimental power Spectra. <i>BMC Structural Biology</i> , 2009, 9, 18.	2.3	11
39	Versatility of Approximating Single-Particle Electron Microscopy Density Maps Using Pseudoatoms and Approximation-Accuracy Control. <i>BioMed Research International</i> , 2016, 2016, 1-11.	0.9	11
40	A Prime/Boost PfCS14K^M/MVA-sPfCS^M Vaccination Protocol Generates Robust CD8⁺ T Cell and Antibody Responses to Plasmodium falciparum Circumsporozoite Protein and Protects Mice against Malaria. <i>Vaccine Journal</i> , 2017, 24, .	3.2	10
41	Removal of the C6 Vaccinia Virus Interferon-Î² Inhibitor in the Hepatitis C Vaccine Candidate MVA-HCV Elicited in Mice High Immunogenicity in Spite of Reduced Host Gene Expression. <i>Viruses</i> , 2018, 10, 414.	1.5	10
42	Adjuvant-like Effect of Vaccinia Virus 14K Protein: A Case Study with Malaria Vaccine Based on the Circumsporozoite Protein. <i>Journal of Immunology</i> , 2012, 188, 6407-6417.	0.4	9
43	Potent HIV-1-Specific CD8 T Cell Responses Induced in Mice after Priming with a Multiepitopic DNA-TMEP and Boosting with the HIV Vaccine MVA-B. <i>Viruses</i> , 2018, 10, 424.	1.5	9
44	Immune Modulation of NYVAC-Based HIV Vaccines by Combined Deletion of Viral Genes that Act on Several Signalling Pathways. <i>Viruses</i> , 2018, 10, 7.	1.5	9
45	Potent Anti-hepatitis C Virus (HCV) T Cell Immune Responses Induced in Mice Vaccinated with DNA-Launched RNA Replicons and Modified Vaccinia Virus Ankara-HCV. <i>Journal of Virology</i> , 2019, 93, .	1.5	9
46	Heterologous Combination of VSV-GP and NYVAC Vectors Expressing HIV-1 Trimeric gp145 Env as Vaccination Strategy to Induce Balanced B and T Cell Immune Responses. <i>Frontiers in Immunology</i> , 2019, 10, 2941.	2.2	9
47	Image Processing in Cryo-Electron Microscopy of Single Particles: The Power of Combining Methods. <i>Methods in Molecular Biology</i> , 2021, 2305, 257-289.	0.4	9
48	Optimized Hepatitis C Virus (HCV) E2 Glycoproteins and their Immunogenicity in Combination with MVA-HCV. <i>Vaccines</i> , 2020, 8, 440.	2.1	8
49	A Chimeric HIV-1 gp120 Fused with Vaccinia Virus 14K (A27) Protein as an HIV Immunogen. <i>PLoS ONE</i> , 2015, 10, e0133595.	1.1	8
50	Protein dynamics developments for the large scale and cryoEM: case study of <i>ProDy</i> 2.0. <i>Acta Crystallographica Section D: Structural Biology</i> , 2022, 78, 399-409.	1.1	7
51	Enhancement of HIV-1 Env-Specific CD8 T Cell Responses Using Interferon-Stimulated Gene 15 as an Immune Adjuvant. <i>Journal of Virology</i> , 2020, 95, .	1.5	6
52	The combined vaccination protocol of DNA/MVA expressing Zika virus structural proteins as efficient inducer of T and B cell immune responses. <i>Emerging Microbes and Infections</i> , 2021, 10, 1441-1456.	3.0	6
53	Neutrophil subtypes shape HIV-specific CD8 T-cell responses after vaccinia virus infection. <i>Npj Vaccines</i> , 2021, 6, 52.	2.9	6
54	Induction of Broad and Polyfunctional HIV-1-Specific T Cell Responses by the Multiepitopic Protein TMEP-B Vecteded by MVA Virus. <i>Vaccines</i> , 2019, 7, 57.	2.1	5

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55	An MVA Vector Expressing HIV-1 Envelope under the Control of a Potent Vaccinia Virus Promoter as a Promising Strategy in HIV/AIDS Vaccine Design. <i>Vaccines</i> , 2019, 7, 208.	2.1	5
56	NYVAC vector modified by C7L viral gene insertion improves T cell immune responses and effectiveness against leishmaniasis. <i>Virus Research</i> , 2016, 220, 1-11.	1.1	4
57	The Envelope-Based Fusion Antigen GP120C14K Forming Hexamer-Like Structures Triggers T Cell and Neutralizing Antibody Responses Against HIV-1. <i>Frontiers in Immunology</i> , 2019, 10, 2793.	2.2	2