Robert J Perz-Edwards

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Controlling the SARS-CoV-2 spike glycoprotein conformation. Nature Structural and Molecular Biology, 2020, 27, 925-933.	8.2	376
2	Effect of natural mutations of SARS-CoV-2 on spike structure, conformation, and antigenicity. Science, 2021, 373, .	12.6	318
3	D614G Spike Mutation Increases SARS CoV-2 Susceptibility to Neutralization. Cell Host and Microbe, 2021, 29, 23-31.e4.	11.0	308
4	D614G Mutation Alters SARS-CoV-2 Spike Conformation and Enhances Protease Cleavage at the S1/S2 Junction. Cell Reports, 2021, 34, 108630.	6.4	263
5	InÂvitro and inÂvivo functions of SARS-CoV-2 infection-enhancing and neutralizing antibodies. Cell, 2021, 184, 4203-4219.e32.	28.9	228
6	Neutralizing antibody vaccine for pandemic and pre-emergent coronaviruses. Nature, 2021, 594, 553-559.	27.8	199
7	Structural diversity of the SARS-CoV-2 Omicron spike. Molecular Cell, 2022, 82, 2050-2068.e6.	9.7	125
8	Targeted selection of HIV-specific antibody mutations by engineering B cell maturation. Science, 2019, 366, .	12.6	118
9	A broadly cross-reactive antibody neutralizes and protects against sarbecovirus challenge in mice. Science Translational Medicine, 2022, 14, eabj7125.	12.4	93
10	X-ray diffraction evidence for myosin-troponin connections and tropomyosin movement during stretch activation of insect flight muscle. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 120-125.	7.1	87
11	Structure of myosin filaments from relaxed <i>Lethocerus</i> flight muscle by cryo-EM at 6 Ã resolution. Science Advances, 2016, 2, e1600058.	10.3	79
12	Cryo-EM structures of SARS-CoV-2 Omicron BA.2 spike. Cell Reports, 2022, 39, 111009.	6.4	74
13	Cold sensitivity of the SARS-CoV-2 spike ectodomain. Nature Structural and Molecular Biology, 2021, 28, 128-131.	8.2	65
14	Neutralization-guided design of HIV-1 envelope trimers with high affinity for the unmutated common ancestor of CH235 lineage CD4bs broadly neutralizing antibodies. PLoS Pathogens, 2019, 15, e1008026.	4.7	56
15	The Prohormone VGF Regulates β Cell Function via Insulin Secretory Granule Biogenesis. Cell Reports, 2017, 20, 2480-2489.	6.4	49
16	Difficult-to-neutralize global HIV-1 isolates are neutralized by antibodies targeting open envelope conformations. Nature Communications, 2019, 10, 2898.	12.8	35
17	mRNA-encoded HIV-1 Env trimer ferritin nanoparticles induce monoclonal antibodies that neutralize heterologous HIV-1 isolates in mice. Cell Reports, 2022, 38, 110514.	6.4	23
18	The myosin II coiled-coil domain atomic structure in its native environment. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	19

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19	Electron Microscopy and X-Ray Diffraction Evidence for Two Z-Band Structural States. Biophysical Journal, 2011, 101, 709-717.	0.5	14
20	Insights into Actin-Myosin Interactions within Muscle from 3D Electron Microscopy. International Journal of Molecular Sciences, 2019, 20, 1703.	4.1	14
21	Mouse and human antibodies bind HLA-E-leader peptide complexes and enhance NK cell cytotoxicity. Communications Biology, 2022, 5, 271.	4.4	14
22	Coupling between myosin head conformation and the thick filament backbone structure. Journal of Structural Biology, 2017, 200, 334-342.	2.8	12
23	Structural Changes in Isometrically Contracting Insect Flight Muscle Trapped following a Mechanical Perturbation. PLoS ONE, 2012, 7, e39422.	2.5	12
24	The Z-band lattice in skeletal muscle in rigor. Journal of Structural Biology, 1989, 102, 59-65.	0.8	11
25	Functional Homology for Antibody-Dependent Phagocytosis Across Humans and Rhesus Macaques. Frontiers in Immunology, 2021, 12, 678511.	4.8	11
26	Stretch activation properties of <i>Drosophila</i> and <i>Lethocerus</i> indirect flight muscle suggest similar calcium-dependent mechanisms. American Journal of Physiology - Cell Physiology, 2017, 313, C621-C631.	4.6	9
27	Myosin II sequences for Lethocerus indicus. Journal of Muscle Research and Cell Motility, 2017, 38, 193-200.	2.0	6
28	Structural basis of glycan276-dependent recognition by HIV-1 broadly neutralizing antibodies. Cell Reports, 2021, 37, 109922.	6.4	5
29	Polyclonal Broadly Neutralizing Antibody Activity Characterized by CD4 Binding Site and V3-Glycan Antibodies in a Subset of HIV-1 Virus Controllers. Frontiers in Immunology, 2021, 12, 670561.	4.8	3
30	The basketweave form of the Z-band is expanded relative to the small-square form. Journal of Muscle Research and Cell Motility, 2011, 31, 307-308.	2.0	0
31	The Structure of the Relaxed Thick Filaments from Lethocerus Flight Muscle. Microscopy and Microanalysis, 2016, 22, 1106-1107.	0.4	0
32	Suspending samples over carbon holey films increases heterogeneity of molecular orientations in negative stain electron microscopy. MethodsX, 2019, 6, 582-586.	1.6	0
33	How Does HIV Env Structure Informs Vaccine Design?. Microscopy and Microanalysis, 2020, 26, 574-575.	0.4	0

3