Robert C Orchard

List of Publications by Year
in descending order

23 papers	5,870 citations	393982 19 h-index	610482 24 g-index
30 all docs	30 docs citations	30 times ranked	12036 citing authors

#	Article	IF	Citations
1	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. PLoS Pathogens, 2022, 18, e1010322.	2.1	11
2	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. Cell, 2021, 184, 76-91.e13.	13.5	418
3	CD300lf Conditional Knockout Mouse Reveals Strain-Specific Cellular Tropism of Murine Norovirus. Journal of Virology, 2021, 95, .	1.5	17
4	UFMylation inhibits the proinflammatory capacity of interferon-Î³â€“activated macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	24
5	Cytidine Monophosphate N -Acetylneuraminic Acid Synthetase and Solute Carrier Family 35 Member A1 Are Required for Reovirus Binding and Infection. Journal of Virology, 2020, 95, .	1.5	11
6	CD300LF Polymorphisms of Inbred Mouse Strains Confer Resistance to Murine Norovirus Infection in a Cell Type-Dependent Manner. Journal of Virology, 2020, 94, .	1.5	3
7	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to Listeria monocytogenes. Nature Microbiology, 2020, 5, 272-281.	5.9	36
8	CD300lf is the primary physiologic receptor of murine norovirus but not human norovirus. PLoS Pathogens, 2020, 16, e1008242.	2.1	44
9	Autophagy genes in myeloid cells counteract IFNÎ³-induced TNF-mediated cell death and fatal TNF-induced shock. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 16497-16506.	3.3	35
10	Identification of Antinorovirus Genes in Human Cells Using Genome-Wide CRISPR Activation Screening. Journal of Virology, 2019, 93, .	1.5	40
11	Tropism for tuft cells determines immune promotion of norovirus pathogenesis. Science, 2018, 360, 204-208.	6.0	187
12	Structural basis for murine norovirus engagement of bile acids and the CD300lf receptor. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9201-E9210.	3.3	82
13	Sphingolipid biosynthesis induces a conformational change in the murine norovirus receptor and facilitates viral infection. Nature Microbiology, 2018, 3, 1109-1114.	5.9	33
14	Norovirus Cell Tropism Is Determined by Combinatorial Action of a Viral Non-structural Protein and Host Cytokine. Cell Host and Microbe, 2017, 22, 449-459.e4.	5.1	70
15	A systematic exploration of the interactions between bacterial effector proteins and host cell membranes. Nature Communications, 2017, 8, 532.	5.8	64
16	Viral Replication Complexes Are Targeted by LC3-Guided Interferon-Inducible GTPases. Cell Host and Microbe, 2017, 22, 74-85.e7.	5.1	90
17	Discovery of a proteinaceous cellular receptor for a norovirus. Science, 2016, 353, 933-936.	6.0	241
18	Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. Scientific Reports, 2016, 6, 23326.	1.6	31

#	Article	IF	Citations
19	Optimized sgRNA design to maximize activity and minimize off-target effects of CRISPR-Cas9. Nature Biotechnology, 2016, 34, 184-191.	9.4	3,168
20	Molecular characterization of LC3-associated phagocytosis reveals distinct roles for Rubicon, NOX2Âand autophagy proteins. Nature Cell Biology, 2015, 17, 893-906.	4.6	702
21	A Noncanonical Autophagy Pathway Restricts Toxoplasma gondii Growth in a Strain-Specific Manner in IFN-Î³-Activated Human Cells. MBio, 2015, 6, e01157-15.	1.8	137
22	Identification of F-actin as the Dynamic Hub in a Microbial-Induced GTPase Polarity Circuit. Cell, 2012, 148, 803-815.	13.5	33
23	Mimicking GEFs: a common theme for bacterial pathogens. Cellular Microbiology, 2012, 14, 10-18.	1.1	38