

# Robert C Orchard

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1540895/publications.pdf>

Version: 2024-02-01

23  
papers

5,870  
citations

394421

19  
h-index

610901

24  
g-index

30  
all docs

30  
docs citations

30  
times ranked

12036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized sgRNA design to maximize activity and minimize off-target effects of CRISPR-Cas9. <i>Nature Biotechnology</i> , 2016, 34, 184-191.	17.5	3,168
2	Molecular characterization of LC3-associated phagocytosis reveals distinct roles for Rubicon, NOX2 and autophagy proteins. <i>Nature Cell Biology</i> , 2015, 17, 893-906.	10.3	702
3	Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. <i>Cell</i> , 2021, 184, 76-91.e13.	28.9	418
4	Discovery of a proteinaceous cellular receptor for a norovirus. <i>Science</i> , 2016, 353, 933-936.	12.6	241
5	Tropism for tuft cells determines immune promotion of norovirus pathogenesis. <i>Science</i> , 2018, 360, 204-208.	12.6	187
6	A Noncanonical Autophagy Pathway Restricts <i>Toxoplasma gondii</i> Growth in a Strain-Specific Manner in IFN- $\beta$ -Activated Human Cells. <i>MBio</i> , 2015, 6, e01157-15.	4.1	137
7	Viral Replication Complexes Are Targeted by LC3-Guided Interferon-Inducible GTPases. <i>Cell Host and Microbe</i> , 2017, 22, 74-85.e7.	11.0	90
8	Structural basis for murine norovirus engagement of bile acids and the CD300f receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E9201-E9210.	7.1	82
9	Norovirus Cell Tropism Is Determined by Combinatorial Action of a Viral Non-structural Protein and Host Cytokine. <i>Cell Host and Microbe</i> , 2017, 22, 449-459.e4.	11.0	70
10	A systematic exploration of the interactions between bacterial effector proteins and host cell membranes. <i>Nature Communications</i> , 2017, 8, 532.	12.8	64
11	CD300f is the primary physiologic receptor of murine norovirus but not human norovirus. <i>PLoS Pathogens</i> , 2020, 16, e1008242.	4.7	44
12	Identification of Antinorovirus Genes in Human Cells Using Genome-Wide CRISPR Activation Screening. <i>Journal of Virology</i> , 2019, 93, .	3.4	40
13	Mimicking GEFs: a common theme for bacterial pathogens. <i>Cellular Microbiology</i> , 2012, 14, 10-18.	2.1	38
14	Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to <i>Listeria monocytogenes</i> . <i>Nature Microbiology</i> , 2020, 5, 272-281.	13.3	36
15	Autophagy genes in myeloid cells counteract IFN- $\beta$ -induced TNF-mediated cell death and fatal TNF-induced shock. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 16497-16506.	7.1	35
16	Identification of F-actin as the Dynamic Hub in a Microbial-Induced GTPase Polarity Circuit. <i>Cell</i> , 2012, 148, 803-815.	28.9	33
17	Sphingolipid biosynthesis induces a conformational change in the murine norovirus receptor and facilitates viral infection. <i>Nature Microbiology</i> , 2018, 3, 1109-1114.	13.3	33
18	Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. <i>Scientific Reports</i> , 2016, 6, 23326.	3.3	31

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19	UFMylation inhibits the proinflammatory capacity of interferon- $\beta$ -activated macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	24
20	CD300lf Conditional Knockout Mouse Reveals Strain-Specific Cellular Tropism of Murine Norovirus. Journal of Virology, 2021, 95, .	3.4	17
21	Cytidine Monophosphate <i>N</i> -Acetylneuraminic Acid Synthetase and Solute Carrier Family 35 Member A1 Are Required for Reovirus Binding and Infection. Journal of Virology, 2020, 95, .	3.4	11
22	Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. PLoS Pathogens, 2022, 18, e1010322.	4.7	11
23	CD300LF Polymorphisms of Inbred Mouse Strains Confer Resistance to Murine Norovirus Infection in a Cell Type-Dependent Manner. Journal of Virology, 2020, 94, .	3.4	3