# Robert C Orchard

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | Optimized sgRNA design to maximize activity and minimize off-target effects of CRISPR-Cas9. Nature Biotechnology, 2016, 34, 184-191. | 9.4 | 3,168 |
| 2 | Molecular characterization of LC3-associated phagocytosis reveals distinct roles for Rubicon, NOX2Âand autophagy proteins. Nature Cell Biology, 2015, 17, 893-906. | 4.6 | 702 |
| 3 | Genome-wide CRISPR Screens Reveal Host Factors Critical for SARS-CoV-2 Infection. Cell, 2021, 184, 76-91.e13. | 13.5 | 418 |
| 4 | Discovery of a proteinaceous cellular receptor for a norovirus. Science, 2016, 353, 933-936. | 6.0 | 241 |
| 5 | Tropism for tuft cells determines immune promotion of norovirus pathogenesis. Science, 2018, 360, 204-208. | 6.0 | 187 |
| 6 | 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 |
| 7 | Viral Replication Complexes Are Targeted by LC3-Guided Interferon-Inducible GTPases. Cell Host and Microbe, 2017, 22, 74-85.e7. | 5.1 | 90 |
| 8 | 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 |
| 9 | 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 |
| 10 | A systematic exploration of the interactions between bacterial effector proteins and host cell membranes. Nature Communications, 2017, 8, 532. | 5.8 | 64 |
| 11 | CD300lf is the primary physiologic receptor of murine norovirus but not human norovirus. PLoS Pathogens, 2020, 16, e1008242. | 2.1 | 44 |
| 12 | Identification of Antinorovirus Genes in Human Cells Using Genome-Wide CRISPR Activation Screening. Journal of Virology, 2019, 93, . | 1.5 | 40 |
| 13 | Mimicking GEFs: a common theme for bacterial pathogens. Cellular Microbiology, 2012, 14, 10-18. | 1.1 | 38 |
| 14 | Select autophagy genes maintain quiescence of tissue-resident macrophages and increase susceptibility to Listeria monocytogenes. Nature Microbiology, 2020, 5, 272-281. | 5.9 | 36 |
| 15 | 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 |
| 16 | Identification of F-actin as the Dynamic Hub in a Microbial-Induced GTPase Polarity Circuit. Cell, 2012, 148, 803-815. | 13.5 | 33 |
| 17 | Sphingolipid biosynthesis induces a conformational change in the murine norovirus receptor and facilitates viral infection. Nature Microbiology, 2018, 3, 1109-1114. | 5.9 | 33 |
| 18 | Clec16a is Critical for Autolysosome Function and Purkinje Cell Survival. Scientific Reports, 2016, 6, 23326. | 1.6 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | CD300lf Conditional Knockout Mouse Reveals Strain-Specific Cellular Tropism of Murine Norovirus. Journal of Virology, 2021, 95, . | 1.5 | 17 |
| 21 | 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 |
| 22 | Reovirus infection is regulated by NPC1 and endosomal cholesterol homeostasis. PLoS Pathogens, 2022, 18, e1010322. | 2.1 | 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, . | 1.5 | 3 |