# Tan-Yun Cheng

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4874882/publications.pdf

Version: 2024-02-01

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|---|---|---|---|
| 46 papers | 2,984 citations | 147566 31 h-index | 223531 46 g-index |
| 49 all docs | 49 docs citations | 49 times ranked | 3024 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | T Cell Activation by Lipopeptide Antigens. Science, 2004, 303, 527-531. | 6.0 | 255 |
| 2 | CD1a-autoreactive T cells are a normal component of the human Î±Î² T cell repertoire. Nature Immunology, 2010, 11, 1102-1109. | 7.0 | 221 |
| 3 | A Comparative Lipidomics Platform for Chemotaxonomic Analysis of Mycobacterium tuberculosis. Chemistry and Biology, 2011, 18, 1537-1549. | 6.2 | 188 |
| 4 | Mycobacterium tuberculosis pks12 Produces a Novel Polyketide Presented by CD1c to T Cells. Journal of Experimental Medicine, 2004, 200, 1559-1569. | 4.2 | 166 |
| 5 | CD1a-autoreactive T cells recognize natural skin oils that function as headless antigens. Nature Immunology, 2014, 15, 177-185. | 7.0 | 141 |
| 6 | Molecular Mechanism of Lipopeptide Presentation by CD1a. Immunity, 2005, 22, 209-219. | 6.6 | 122 |
| 7 | Mycobacterium tuberculosis lipoprotein LprG (Rv1411c) binds triacylated glycolipid agonists of Toll-like receptor 2. Nature Structural and Molecular Biology, 2010, 17, 1088-1095. | 3.6 | 122 |
| 8 | Î±Î² T cell antigen receptor recognition of CD1a presenting self lipid ligands. Nature Immunology, 2015, 16, 258-266. | 7.0 | 112 |
| 9 | A Macrophage Response to Mycobacterium leprae Phenolic Glycolipid Initiates Nerve Damage in Leprosy. Cell, 2017, 170, 973-985.e10. | 13.5 | 110 |
| 10 | Bee venom processes human skin lipids for presentation by CD1a. Journal of Experimental Medicine, 2015, 212, 149-163. | 4.2 | 98 |
| 11 | CD1c tetramers detect ex vivo T cell responses to processed phosphomycoketide antigens. Journal of Experimental Medicine, 2013, 210, 729-741. | 4.2 | 94 |
| 12 | CD1d-restricted T cell activation by nonlipidic small molecules. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 13578-13583. | 3.3 | 91 |
| 13 | Human autoreactive T cells recognize CD1b and phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 380-385. | 3.3 | 85 |
| 14 | Mycobacterial Metabolic Syndrome: LprG and Rv1410 Regulate Triacylglyceride Levels, Growth Rate and Virulence in Mycobacterium tuberculosis. PLoS Pathogens, 2016, 12, e1005351. | 2.1 | 79 |
| 15 | Discovery of deoxyceramides and diacylglycerols as CD1b scaffold lipids among diverse groove-blocking lipids of the human CD1 system. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19335-19340. | 3.3 | 69 |
| 16 | CD1c Presentation of Synthetic Glycolipid Antigens with Foreign Alkyl Branching Motifs. Chemistry and Biology, 2007, 14, 1232-1242. | 6.2 | 62 |
| 17 | Lipidomic discovery of deoxysiderophores reveals a revised mycobactin biosynthesis pathway in Mycobacterium tuberculosis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1257-1262. | 3.3 | 61 |
| 18 | T cell receptor recognition of CD1b presenting a mycobacterial glycolipid. Nature Communications, 2016, 7, 13257. | 5.8 | 59 |

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|---|---|---|---|
| 19 | An Antibacterial Î²â€Lactone Kills Mycobacterium tuberculosis by Disrupting Mycolic Acid Biosynthesis. Angewandte Chemie - International Edition, 2018, 57, 348-353. | 7.2 | 55 |
| 20 | Targeted Delivery of Mycobacterial Antigens to Human Dendritic Cells via Siglec-7 Induces Robust T Cell Activation. Journal of Immunology, 2014, 193, 1560-1566. | 0.4 | 54 |
| 21 | Mycobacterium tuberculosis releases an antacid that remodels phagosomes. Nature Chemical Biology, 2019, 15, 889-899. | 3.9 | 53 |
| 22 | T cell autoreactivity directed toward CD1c itself rather than toward carried self lipids. Nature Immunology, 2018, 19, 397-406. | 7.0 | 52 |
| 23 | Role of lipid trimming and CD1 groove size in cellular antigen presentation. EMBO Journal, 2006, 25, 2989-2999. | 3.5 | 50 |
| 24 | CD1bâ€mycolic acid tetramers demonstrate Tâ€cell fine specificity for mycobacterial lipid tails. European Journal of Immunology, 2017, 47, 1525-1534. | 1.6 | 49 |
| 25 | pH-Dependent Interdomain Tethers of CD1b Regulate Its Antigen Capture. Immunity, 2008, 28, 774-786. | 6.6 | 47 |
| 26 | Borrelia burgdorferi infection regulates CD1 expression in human cells and tissues via IL1â€Î². European Journal of Immunology, 2011, 41, 694-705. | 1.6 | 43 |
| 27 | Periprotein lipidomes of Saccharomyces cerevisiae provide a flexible environment for conformational changes of membrane proteins. ELife, 2020, 9, . | 2.8 | 43 |
| 28 | Human T cell response to CD1a and contact dermatitis allergens in botanical extracts and commercial skin care products. Science Immunology, 2020, 5, . | 5.6 | 42 |
| 29 | Structural determination of lipid antigens captured at the CD1dâ€“T-cell receptor interface. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8348-8353. | 3.3 | 40 |
| 30 | A molecular basis of human T cell receptor autoreactivity toward self-phospholipids. Science Immunology, 2017, 2, . | 5.6 | 39 |
| 31 | Lipidomic Analysis Links Mycobactin Synthase K to Iron Uptake and Virulence in M. tuberculosis. PLoS Pathogens, 2015, 11, e1004792. | 2.1 | 37 |
| 32 | Protein kinases PknA and PknB independently and coordinately regulate essential Mycobacterium tuberculosis physiologies and antimicrobial susceptibility. PLoS Pathogens, 2020, 16, e1008452. | 2.1 | 33 |
| 33 | A T-cell receptor escape channel allows broad T-cell response to CD1b and membrane phospholipids. Nature Communications, 2019, 10, 56. | 5.8 | 31 |
| 34 | Human skin is colonized by T cells that recognize CD1a independently of lipid. Journal of Clinical Investigation, 2021, 131, . | 3.9 | 31 |
| 35 | CD1a selectively captures endogenous cellular lipids that broadly block T cell response. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 24 |
| 36 | <scp>ER</scp> stress in antigenâ€presenting cells promotes <scp>NKT</scp> cell activation through endogenous neutral lipids. EMBO Reports, 2020, 21, e48927. | 2.0 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Discovery of Salmonella trehalose phospholipids reveals functional convergence with mycobacteria. Journal of Experimental Medicine, 2019, 216, 757-771. | 4.2 | 20 |
| 38 | HIV Disrupts Human T Cells That Target Mycobacterial Glycolipids. Journal of Infectious Diseases, 2016, 213, 628-633. | 1.9 | 18 |
| 39 | Total Synthesis of Mycobacterium tuberculosis Dideoxymycobactinâ€838 and Stereoisomers: Diverse CD1aâ€Restricted T Cells Display a Common Hierarchy of Lipopeptide Recognition. Chemistry - A European Journal, 2017, 23, 1694-1701. | 1.7 | 13 |
| 40 | Membrane Lipid Requirements of the Lysine Transporter Lyp1 from Saccharomyces cerevisiae. Journal of Molecular Biology, 2020, 432, 4023-4031. | 2.0 | 13 |
| 41 | CD1b presents self and Borrelia burgdorferi diacylglycerols to human T cells. European Journal of Immunology, 2019, 49, 737-746. | 1.6 | 10 |
| 42 | A TCR Î²-Chain Motif Biases toward Recognition of Human CD1 Proteins. Journal of Immunology, 2019, 203, 3395-3406. | 0.4 | 10 |
| 43 | Benzofuran sulfonates and small self-lipid antigens activate type II NKT cells via CD1d. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 8 |
| 44 | Rational design of a hydrolysis-resistant mycobacterial phosphoglycolipid antigen presented by CD1c to T cells. Journal of Biological Chemistry, 2021, 297, 101197. | 1.6 | 5 |
| 45 | Bacterial Strainâ€“Dependent Dissociation of Cell Recruitment and Cell-to-Cell Spread in Early M. tuberculosis Infection. MBio, 2022, 13, . | 1.8 | 5 |
| 46 | Ein antibakterielles Î²â€Lacton bekÃmpft Mycobacterium tuberculosis durch Infiltration der MykolsÃurebiosynthese. Angewandte Chemie, 2018, 130, 354-359. | 1.6 | 3 |