# Jamie Rossjohn

List of Publications by Year
in descending order



| 487 | 40,165 | 1606 105 | 4750 169 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 516 | 516 | 516 | 34078 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | MR1 presents microbial vitamin B metabolites to MAIT cells. Nature, 2012, 491, 717-723. | 13.7 | 1,158 |
| 2 | T-cell activation by transitory neo-antigens derived from distinct microbial pathways. Nature, 2014, 509, 361-365. | 13.7 | 731 |
| 3 | More than one reason to rethink the use of peptides in vaccine design. Nature Reviews Drug Discovery, 2007, 6, 404-414. | 21.5 | 692 |
| 4 | The burgeoning family of unconventional T cells. Nature Immunology, 2015, 16, 1114-1123. | 7.0 | 655 |
| 5 | Immune self-reactivity triggered by drug-modified HLA-peptide repertoire. Nature, 2012, 486, 554-558. | 13.7 | 612 |
| 6 | T Cell Antigen Receptor Recognition of Antigen-Presenting Molecules. Annual Review of Immunology, 2015, 33, 169-200. | 9.5 | 603 |
| 7 | CD1dâ€“lipid-antigen recognition by the semi-invariant NKT T-cell receptor. Nature, 2007, 448, 44-49. | 13.7 | 533 |
| 8 | Antigen-loaded MR1 tetramers define T cell receptor heterogeneity in mucosal-associated invariant T cells. Journal of Experimental Medicine, 2013, 210, 2305-2320. | 4.2 | 516 |
| 9 | HLA variation and disease. Nature Reviews Immunology, 2018, 18, 325-339. | 10.6 | 487 |
| 10 | Structure of a Cholesterol-Binding, Thiol-Activated Cytolysin and a Model of Its Membrane Form. Cell, 1997, 89, 685-692. | 13.5 | 457 |
| 11 | Comprehensive, Quantitative Mapping of T Cell Epitopes in Gluten in Celiac Disease. Science Translational Medicine, 2010, 2, 41ra51. | 5.8 | 393 |
| 12 | Recognition of CD1d-restricted antigens by natural killer T cells. Nature Reviews Immunology, 2012, 12, 845-857. | 10.6 | 382 |
| 13 | Impairment of immunity to Candida and Mycobacterium in humans with bi-allelic RORC mutations. Science, 2015, 349, 606-613. | 6.0 | 366 |
| 14 | A molecular basis for the association of the HLA-DRB1 locus, citrullination, and rheumatoid arthritis. Journal of Experimental Medicine, 2013, 210, 2569-2582. | 4.2 | 354 |
| 15 | AB5 subtilase cytotoxin inactivates the endoplasmic reticulum chaperone BiP. Nature, 2006, 443, 548-552. | 13.7 | 351 |
| 16 | Butyrophilin 3A1 binds phosphorylated antigens and stimulates human Î³Î´ T cells. Nature Immunology, 2013, 14, 908-916. | 7.0 | 351 |
| 17 | Identification of phenotypically and functionally heterogeneous mouse mucosal-associated invariant T cells using MR1 tetramers. Journal of Experimental Medicine, 2015, 212, 1095-1108. | 4.2 | 348 |
| 18 | The Mechanism of Membrane Insertion for a Cholesterol-Dependent Cytolysin. Cell, 1999, 99, 293-299. | 13.5 | 347 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Structural determinants of T-cell receptor bias in immunity. Nature Reviews Immunology, 2006, 6, 883-894. | 10.6 | 322 |
| 20 | A Structural Basis for the Selection of Dominant Î±Î² T Cell Receptors in Antiviral Immunity. Immunity, 2003, 18, 53-64. | 6.6 | 321 |
| 21 | Identification of a Membrane-Spanning Domain of the Thiol-Activated Pore-Forming ToxinClostridium perfringensPerfringolysin O:Â An Î±-Helical to Î²-Sheet Transition Identified by Fluorescence Spectroscopyâ€. Biochemistry, 1998, 37, 14563-14574. | 1.2 | 309 |
| 22 | Human Leukocyte Antigen Class I-Restricted Activation of CD8+ T Cells Provides the Immunogenetic Basis of a Systemic Drug Hypersensitivity. Immunity, 2008, 28, 822-832. | 6.6 | 309 |
| 23 | A three-stage intrathymic development pathway for the mucosal-associated invariant T cell lineage. Nature Immunology, 2016, 17, 1300-1311. | 7.0 | 288 |
| 24 | T cell receptor recognition of a 'super-bulged' major histocompatibility complex class Iâ€“bound peptide. Nature Immunology, 2005, 6, 1114-1122. | 7.0 | 280 |
| 25 | Mucosal-associated invariant T cell alterations in obese and type 2 diabetic patients. Journal of Clinical Investigation, 2015, 125, 1752-1762. | 3.9 | 272 |
| 26 | A Common Fold Mediates Vertebrate Defense and Bacterial Attack. Science, 2007, 317, 1548-1551. | 6.0 | 261 |
| 27 | Recognition of vitamin B metabolites by mucosal-associated invariant T cells. Nature Communications, 2013, 4, 2142. | 5.8 | 261 |
| 28 | CD1d-lipid antigen recognition by the Î³Î´ TCR. Nature Immunology, 2013, 14, 1137-1145. | 7.0 | 256 |
| 29 | Structural basis of a unique interferon-Î² signaling axis mediated via the receptor IFNAR1. Nature Immunology, 2013, 14, 901-907. | 7.0 | 255 |
| 30 | Human mucosal-associated invariant T cells contribute to antiviral influenza immunity via IL-18â€“dependent activation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 10133-10138. | 3.3 | 246 |
| 31 | A molecular basis underpinning the T cell receptor heterogeneity of mucosal-associated invariant T cells. Journal of Experimental Medicine, 2014, 211, 1585-1600. | 4.2 | 245 |
| 32 | The structural basis of Janus kinase 2 inhibition by a potent and specific pan-Janus kinase inhibitor. Blood, 2006, 107, 176-183. | 0.6 | 243 |
| 33 | Unconventional T Cell Targets for Cancer Immunotherapy. Immunity, 2018, 48, 453-473. | 6.6 | 242 |
| 34 | T Cell Allorecognition via Molecular Mimicry. Immunity, 2009, 31, 897-908. | 6.6 | 232 |
| 35 | Crystal structure of the N-terminal, growth factor-like domain of Alzheimer amyloid precursor protein. Nature Structural Biology, 1999, 6, 327-331. | 9.7 | 229 |
| 36 | Dissecting Specificity in the Janus Kinases: The Structures of JAK-Specific Inhibitors Complexed to the JAK1 and JAK2 Protein Tyrosine Kinase Domains. Journal of Molecular Biology, 2009, 387, 219-232. | 2.0 | 225 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Incorporation of a non-human glycan mediates human susceptibility to a bacterial toxin. Nature, 2008, 456, 648-652. | 13.7 | 217 |
| 38 | Cytotoxic and regulatory roles of mucosal-associated invariant T cells in type 1 diabetes. Nature Immunology, 2017, 18, 1321-1331. | 7.0 | 217 |
| 39 | Mucosal-associated invariant T-cell activation and accumulation after in vivo infection depends on microbial riboflavin synthesis and co-stimulatory signals. Mucosal Immunology, 2017, 10, 58-68. | 2.7 | 216 |
| 40 | Understanding the drivers of MHC restriction of T cell receptors. Nature Reviews Immunology, 2018, 18, 467-478. | 10.6 | 214 |
| 41 | A T cell receptor flattens a bulged antigenic peptide presented by a major histocompatibility complex class I molecule. Nature Immunology, 2007, 8, 268-276. | 7.0 | 206 |
| 42 | Structure, biological functions and applications of the AB5 toxins. Trends in Biochemical Sciences, 2010, 35, 411-418. | 3.7 | 204 |
| 43 | Alternative cross-priming through CCL17-CCR4-mediated attraction of CTLs toward NKT cellâ€“licensed DCs. Nature Immunology, 2010, 11, 313-320. | 7.0 | 204 |
| 44 | The insulin A-chain epitope recognized by human T cells is posttranslationally modified. Journal of Experimental Medicine, 2005, 202, 1191-1197. | 4.2 | 201 |
| 45 | CD94-NKG2A recognition of human leukocyte antigen (HLA)-E bound to an HLA class I leader sequence. Journal of Experimental Medicine, 2008, 205, 725-735. | 4.2 | 198 |
| 46 | Differential Recognition of CD1d-Î±-Galactosyl Ceramide by the VÎ²8.2 and VÎ²7 Semi-invariant NKT T Cell Receptors. Immunity, 2009, 31, 47-59. | 6.6 | 198 |
| 47 | Interferon-Îµ Protects the Female Reproductive Tract from Viral and Bacterial Infection. Science, 2013, 339, 1088-1092. | 6.0 | 197 |
| 48 | Functional role of T-cell receptor nanoclusters in signal initiation and antigen discrimination. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5454-63. | 3.3 | 194 |
| 49 | A Naturally Selected Dimorphism within the HLA-B44 Supertype Alters Class I Structure, Peptide Repertoire, and T Cell Recognition. Journal of Experimental Medicine, 2003, 198, 679-691. | 4.2 | 192 |
| 50 | GABA production by glutamic acid decarboxylase is regulated by a dynamic catalytic loop. Nature Structural and Molecular Biology, 2007, 14, 280-286. | 3.6 | 189 |
| 51 | The CDR3 regions of an immunodominant T cell receptor dictate the 'energetic landscape' of peptide-MHC recognition. Nature Immunology, 2005, 6, 171-180. | 7.0 | 187 |
| 52 | A conserved human T cell population targets mycobacterial antigens presented by CD1b. Nature Immunology, 2013, 14, 706-713. | 7.0 | 187 |
| 53 | Genome-wide CRISPRâ€“Cas9 screening reveals ubiquitous T cell cancer targeting via the monomorphic MHC class I-related protein MR1. Nature Immunology, 2020, 21, 178-185. | 7.0 | 186 |
| 54 | Dominant protection from HLA-linked autoimmunity by antigen-specific regulatory T cells. Nature, 2017, 545, 243-247. | 13.7 | 181 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Human CD8+ T cell cross-reactivity across influenza A, B and C viruses. Nature Immunology, 2019, 20, 613-625. | 7.0 | 180 |
| 56 | T-cell receptor recognition of HLA-DQ2â€“gliadin complexes associated with celiac disease. Nature Structural and Molecular Biology, 2014, 21, 480-488. | 3.6 | 177 |
| 57 | MAIT cells protect against pulmonary Legionella longbeachae infection. Nature Communications, 2018, 9, 3350. | 5.8 | 177 |
| 58 | SARS-CoV-2 mRNA vaccination elicits a robust and persistent T follicular helper cell response in humans. Cell, 2022, 185, 603-613.e15. | 13.5 | 176 |
| 59 | Drugs and drug-like molecules can modulate the function of mucosal-associated invariant T cells. Nature Immunology, 2017, 18, 402-411. | 7.0 | 175 |
| 60 | Two Structural Transitions in Membrane Pore Formation by Pneumolysin, the Pore-Forming Toxin of Streptococcus pneumoniae. Cell, 1999, 97, 647-655. | 13.5 | 174 |
| 61 | Killer cell immunoglobulin-like receptor 3DL1-mediated recognition of human leukocyte antigen B. Nature, 2011, 479, 401-405. | 13.7 | 174 |
| 62 | The structures of human glutathione transferase P1-1 in complex with glutathione and various inhibitors at high resolution. Journal of Molecular Biology, 1997, 274, 84-100. | 2.0 | 172 |
| 63 | Diversity of T Cells Restricted by the MHC Class I-Related Molecule MR1 Facilitates Differential Antigen Recognition. Immunity, 2016, 44, 32-45. | 6.6 | 169 |
| 64 | Suboptimal SARS-CoV-2â”specific CD8 <sup>+</sup> T cell response associated with the prominent HLA-A*02:01 phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24384-24391. | 3.3 | 168 |
| 65 | HLA-DQA1â€“HLA-DRB1 variants confer susceptibility to pancreatitis induced by thiopurine immunosuppressants. Nature Genetics, 2014, 46, 1131-1134. | 9.4 | 165 |
| 66 | A mixed disulfide bond in bacterial glutathione transferase: functional and evolutionary implications. Structure, 1998, 6, 721-734. | 1.6 | 163 |
| 67 | Cross-reactive CD8 <sup>+</sup> T-cell immunity between the pandemic H1N1-2009 and H1N1-1918 influenza A viruses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12599-12604. | 3.3 | 163 |
| 68 | High Resolution Structures of Highly Bulged Viral Epitopes Bound to Major Histocompatibility Complex Class I. Journal of Biological Chemistry, 2005, 280, 23900-23909. | 1.6 | 162 |
| 69 | Natural HLA Class I Polymorphism Controls the Pathway of Antigen Presentation and Susceptibility to Viral Evasion. Journal of Experimental Medicine, 2004, 200, 13-24. | 4.2 | 159 |
| 70 | Structural insight into MR1-mediated recognition of the mucosal associated invariant T cell receptor. Journal of Experimental Medicine, 2012, 209, 761-774. | 4.2 | 159 |
| 71 | Challenges, Progress, and Prospects of Developing Therapies to Treat Autoimmune Diseases. Cell, 2020, 181, 63-80. | 13.5 | 159 |
| 72 | The 2.0-Ã… Crystal Structure of eqFP611, a Far Red Fluorescent Protein from the Sea Anemone Entacmaea quadricolor. Journal of Biological Chemistry, 2003, 278, 44626-44631. | 1.6 | 158 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | A Structural and Immunological Basis for the Role of Human Leukocyte Antigen DQ8 in Celiac Disease. Immunity, 2007, 27, 23-34. | 6.6 | 157 |
| 74 | DEC-205 is a cell surface receptor for CpG oligonucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 16270-16275. | 3.3 | 155 |
| 75 | Crystal Structure of the SARS-CoV-2 Non-structural Protein 9, Nsp9. IScience, 2020, 23, 101258. | 1.9 | 155 |
| 76 | Structural basis for the killing of human beta cells by CD8+ T cells in type 1 diabetes. Nature Immunology, 2012, 13, 283-289. | 7.0 | 151 |
| 77 | A Molecular Basis for the Control of Preimmune Escape Variants by HIV-Specific CD8+ T Cells. Immunity, 2013, 38, 425-436. | 6.6 | 149 |
| 78 | Crystal structure of the human T cell receptor CD3ÂÂ heterodimer complexed to the therapeutic mAb OKT3. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7675-7680. | 3.3 | 148 |
| 79 | Human theta class glutathione transferase: the crystal structure reveals a sulfate-binding pocket within a buried active site. Structure, 1998, 6, 309-322. | 1.6 | 147 |
| 80 | Drug Hypersensitivity and Human Leukocyte Antigens of the Major Histocompatibility Complex. Annual Review of Pharmacology and Toxicology, 2012, 52, 401-431. | 4.2 | 146 |
| 81 | Preexisting CD8 <sup>+</sup> T-cell immunity to the H7N9 influenza A virus varies across ethnicities. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 1049-1054. | 3.3 | 144 |
| 82 | Germline-encoded recognition of diverse glycolipids by natural killer T cells. Nature Immunology, 2007, 8, 1105-1113. | 7.0 | 143 |
| 83 | Lack of prominent peptideâ€“major histocompatibility complex features limits repertoire diversity in virus-specific CD8+ T cell populations. Nature Immunology, 2005, 6, 382-389. | 7.0 | 142 |
| 84 | A subset of HLA-I peptides are not genomically templated: Evidence for cis- and trans-spliced peptide ligands. Science Immunology, 2018, 3, . | 5.6 | 142 |
| 85 | CD1a-autoreactive T cells recognize natural skin oils that function as headless antigens. Nature Immunology, 2014, 15, 177-185. | 7.0 | 141 |
| 86 | Crystal structure of HLA-G: A nonclassical MHC class I molecule expressed at the fetal-maternal interface. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 3360-3365. | 3.3 | 139 |
| 87 | CD1a on Langerhans cells controls inflammatory skin disease. Nature Immunology, 2016, 17, 1159-1166. | 7.0 | 134 |
| 88 | Recognition of microbial and mammalian phospholipid antigens by NKT cells with diverse TCRs. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1827-1832. | 3.3 | 129 |
| 89 | The 2.2 Ã… Crystal Structure of a Pocilloporin Pigment Reveals a Nonplanar Chromophore Conformation. Structure, 2003, 11, 275-284. | 1.6 | 127 |
| 90 | The intracellular pathway for the presentation of vitamin Bâ€“related antigens by the antigen-presenting molecule MR1. Nature Immunology, 2016, 17, 531-537. | 7.0 | 127 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | A comprehensive review and performance evaluation of bioinformatics tools for HLA class I peptide-binding prediction. Briefings in Bioinformatics, 2020, 21, 1119-1135. | 3.2 | 127 |
| 92 | MAIT cells launch a rapid, robust and distinct hyperinflammatory response to bacterial superantigens and quickly acquire an anergic phenotype that impedes their cognate antimicrobial function: Defining a novel mechanism of superantigen-induced immunopathology and immunosuppression. PLoS Biology, 2017, 15, e2001930. | 2.6 | 126 |
| 93 | Chronic Inflammation Permanently Reshapes Tissue-Resident Immunity in Celiac Disease. Cell, 2019, 176, 967-981.e19. | 13.5 | 126 |
| 94 | The Three-Dimensional Structure of the Human Pi Class Glutathione Transferase P1-1 in Complex with the Inhibitor Ethacrynic Acid and Its Glutathione Conjugate,. Biochemistry, 1997, 36, 576-585. | 1.2 | 125 |
| 95 | Have we cut ourselves too short in mapping CTL epitopes?. Trends in Immunology, 2006, 27, 11-16. | 2.9 | 124 |
| 96 | Recognition of Vitamin B Precursors and Byproducts by Mucosal Associated Invariant T Cells. Journal of Biological Chemistry, 2015, 290, 30204-30211. | 1.6 | 123 |
| 97 | Molecular basis for universal HLA-A*0201â€“restricted CD8 <sup>+</sup> T-cell immunity against influenza viruses. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4440-4445. | 3.3 | 122 |
| 98 | The crystal structure of myelin oligodendrocyte glycoprotein, a key autoantigen in multiple sclerosis. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11059-11064. | 3.3 | 121 |
| 99 | Biased T Cell Receptor Usage Directed against Human Leukocyte Antigen DQ8-Restricted Gliadin Peptides Is Associated with Celiac Disease. Immunity, 2012, 37, 611-621. | 6.6 | 121 |
| 100 | Functional Heterogeneity and Antimycobacterial Effects of Mouse Mucosal-Associated Invariant T Cells Specific for Riboflavin Metabolites. Journal of Immunology, 2015, 195, 587-601. | 0.4 | 121 |
| 101 | Lipid and small-molecule display by CD1 and MR1. Nature Reviews Immunology, 2015, 15, 643-654. | 10.6 | 120 |
| 102 | Arresting Pore Formation of a Cholesterol-dependent Cytolysin by Disulfide Trapping Synchronizes the Insertion of the Transmembrane Î²-Sheet from a Prepore Intermediate. Journal of Biological Chemistry, 2001, 276, 8261-8268. | 1.6 | 118 |
| 103 | The major histocompatibility complex class Ib molecule HLAâ€Ε at the interface between innate and adaptive immunity. Tissue Antigens, 2008, 72, 415-424. | 1.0 | 118 |
| 104 | A Molecular Basis for NKT Cell Recognition of CD1d-Self-Antigen. Immunity, 2011, 34, 315-326. | 6.6 | 118 |
| 105 | T cell receptor reversed polarity recognition of a self-antigen major histocompatibility complex. Nature Immunology, 2015, 16, 1153-1161. | 7.0 | 115 |
| 106 | Î²-Amino acid-containing hybrid peptidesâ€”new opportunities in peptidomimetics. Organic and Biomolecular Chemistry, 2007, 5, 2884. | 1.5 | 114 |
| 107 | Stabilizing short-lived Schiff base derivatives of 5-aminouracils that activate mucosal-associated invariant T cells. Nature Communications, 2017, 8, 14599. | 5.8 | 113 |
| 108 | Hotspot autoimmune T cell receptor binding underlies pathogen and insulin peptide cross-reactivity. Journal of Clinical Investigation, 2016, 126, 2191-2204. | 3.9 | 113 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Î±Î² T cell antigen receptor recognition of CD1a presenting self lipid ligands. Nature Immunology, 2015, 16, 258-266. | 7.0 | 112 |
| 110 | Antigen Ligation Triggers a Conformational Change within the Constant Domain of the Î±Î² T Cell Receptor. Immunity, 2009, 30, 777-788. | 6.6 | 111 |
| 111 | Recognition of Î²-linked self glycolipids mediated by natural killer T cell antigen receptors. Nature Immunology, 2011, 12, 827-833. | 7.0 | 111 |
| 112 | Polymorphism in Human Cytomegalovirus UL40 Impacts on Recognition of Human Leukocyte Antigen-E (HLA-E) by Natural Killer Cells. Journal of Biological Chemistry, 2013, 288, 8679-8690. | 1.6 | 111 |
| 113 | Structural basis for a major histocompatibility complex class Ibâ€“restricted T cell response. Nature Immunology, 2006, 7, 256-264. | 7.0 | 109 |
| 114 | Human TRAV1-2-negative MR1-restricted T cells detect S. pyogenes and alternatives to MAIT riboflavin-based antigens. Nature Communications, 2016, 7, 12506. | 5.8 | 108 |
| 115 | A Molecular Basis for the Exquisite CD1d-Restricted Antigen Specificity and Functional Responses of Natural Killer T Cells. Immunity, 2011, 34, 327-339. | 6.6 | 107 |
| 116 | Molecular architecture of the Î±Î² T cell receptorâ€“CD3 complex. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17576-17581. | 3.3 | 107 |
| 117 | Recognition of CD1d-sulfatide mediated by a type II natural killer T cell antigen receptor. Nature Immunology, 2012, 13, 857-863. | 7.0 | 106 |
| 118 | CD8+ TÂcells specific for an immunodominant SARS-CoV-2 nucleocapsid epitope display high naive precursor frequency and TCR promiscuity. Immunity, 2021, 54, 1066-1082.e5. | 6.6 | 106 |
| 119 | A structural basis for selection and cross-species reactivity of the semi-invariant NKT cell receptor in CD1d/glycolipid recognition. Journal of Experimental Medicine, 2006, 203, 661-673. | 4.2 | 105 |
| 120 | Escape from highly effective public CD8+ T-cell clonotypes by HIV. Blood, 2011, 118, 2138-2149. | 0.6 | 103 |
| 121 | Hard wiring of T cell receptor specificity for the major histocompatibility complex is underpinned by TCR adaptability. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 10608-10613. | 3.3 | 101 |
| 122 | The molecular mechanism of pneumolysin, a virulence factor from Streptococcus pneumoniae 1 1Edited by J. Thornton. Journal of Molecular Biology, 1998, 284, 449-461. | 2.0 | 100 |
| 123 | Antigen recognition by CD1d-restricted NKT T cell receptors. Seminars in Immunology, 2010, 22, 61-67. | 2.7 | 100 |
| 124 | Tc17 cells are a proinflammatory, plastic lineage of pathogenic CD8+ T cells that induce GVHD without antileukemic effects. Blood, 2015, 126, 1609-1620. | 0.6 | 98 |
| 125 | Structural and regulatory diversity shape HLA-C protein expression levels. Nature Communications, 2017, 8, 15924. | 5.8 | 98 |
| 126 | A class of Î³Î´ T cell receptors recognize the underside of the antigen-presenting molecule MR1. Science, 2019, 366, 1522-1527. | 6.0 | 98 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | The Murine Orthologue of Human Antichymotrypsin. Journal of Biological Chemistry, 2005, 280, 43168-43178. | 1.6 | 97 |
| 128 | A semi-invariant VÎ±10+ T cell antigen receptor defines a population of natural killer T cells with distinct glycolipid antigenâ€“recognition properties. Nature Immunology, 2011, 12, 616-623. | 7.0 | 97 |
| 129 | Mucosal-associated invariant T cells promote inflammation and intestinal dysbiosis leading to metabolic dysfunction during obesity. Nature Communications, 2020, 11, 3755. | 5.8 | 97 |
| 130 | A bird's eye view of <scp>NK</scp> cell receptor interactions with their <scp>MHC</scp> class I ligands. Immunological Reviews, 2015, 267, 148-166. | 2.8 | 96 |
| 131 | The Shaping of T Cell Receptor Recognition by Self-Tolerance. Immunity, 2009, 30, 193-203. | 6.6 | 94 |
| 132 | CTL Recognition of a Bulged Viral Peptide Involves Biased TCR Selection. Journal of Immunology, 2005, 175, 3826-3834. | 0.4 | 93 |
| 133 | Natural micropolymorphism in human leukocyte antigens provides a basis for genetic control of antigen recognition. Journal of Experimental Medicine, 2009, 206, 209-219. | 4.2 | 93 |
| 134 | The Fidelity, Occasional Promiscuity, and Versatility of T Cell Receptor Recognition. Immunity, 2008, 28, 304-314. | 6.6 | 92 |
| 135 | T cell receptor cross-reactivity between gliadin and bacterial peptides in celiac disease. Nature Structural and Molecular Biology, 2020, 27, 49-61. | 3.6 | 91 |
| 136 | Human Glutathione Transferase P1-1 and Nitric Oxide Carriers. Journal of Biological Chemistry, 2001, 276, 42138-42145. | 1.6 | 90 |
| 137 | T Cell Receptor CDR2Î² and CDR3Î² Loops Collaborate Functionally to Shape the iNKT Cell Repertoire. Immunity, 2009, 31, 60-71. | 6.6 | 90 |
| 138 | MAIT cells are depleted early but retain functional cytokine expression in HIV infection. Immunology and Cell Biology, 2015, 93, 177-188. | 1.0 | 90 |
| 139 | Peptide length determines the outcome of TCR/peptide-MHCI engagement. Blood, 2013, 121, 1112-1123. | 0.6 | 89 |
| 140 | Naturally Processed Non-canonical HLA-A*02:01 Presented Peptides. Journal of Biological Chemistry, 2015, 290, 2593-2603. | 1.6 | 89 |
| 141 | Molecular basis of glutathione synthetase deficiency and a rare gene permutation event. EMBO Journal, 1999, 18, 3204-3213. | 3.5 | 88 |
| 142 | Subtle Changes in Peptide Conformation Profoundly Affect Recognition of the Non-Classical MHC Class I Molecule HLA-E by the CD94â€“NKG2 Natural Killer Cell Receptors. Journal of Molecular Biology, 2008, 377, 1297-1303. | 2.0 | 88 |
| 143 | The Identification and Structure of the Membrane-spanning Domain of the Clostridium septicum Alpha Toxin. Journal of Biological Chemistry, 2004, 279, 14315-14322. | 1.6 | 87 |
| 144 | Structures of Perfringolysin O Suggest a Pathway for Activation of Cholesterol-dependent Cytolysins. Journal of Molecular Biology, 2007, 367, 1227-1236. | 2.0 | 87 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | The Heterodimeric Assembly of the CD94-NKG2 Receptor Family and Implications for Human Leukocyte Antigen-E Recognition. Immunity, 2007, 27, 900-911. | 6.6 | 87 |
| 146 | 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 |
| 147 | Bimolecular Interaction of Insulin-Like Growth Factor (IGF) Binding Protein-2 with Î±vÎ²3 Negatively Modulates IGF-I-Mediated Migration and Tumor Growth 1. Cancer Research, 2004, 64, 977-984. | 0.4 | 83 |
| 148 | A minimal binding footprint on CD1d-glycolipid is a basis for selection of the unique human NKT TCR. Journal of Experimental Medicine, 2008, 205, 939-949. | 4.2 | 83 |
| 149 | MHC-I peptides get out of the groove and enable a novel mechanism of HIV-1 escape. Nature Structural and Molecular Biology, 2017, 24, 387-394. | 3.6 | 83 |
| 150 | The immunogenicity of a viral cytotoxic T cell epitope is controlled by its MHC-bound conformation. Journal of Experimental Medicine, 2005, 202, 1249-1260. | 4.2 | 82 |
| 151 | Natural Killer T cell obsession with self-antigens. Current Opinion in Immunology, 2013, 25, 168-173. | 2.4 | 82 |
| 152 | The 1.6ÂÃ... Crystal Structure of the Catalytic Domain of PlyB, a Bacteriophage Lysin Active Against Bacillus anthracis. Journal of Molecular Biology, 2007, 366, 540-550. | 2.0 | 81 |
| 153 | Allelic polymorphism in the T cell receptor and its impact on immune responses. Journal of Experimental Medicine, 2010, 207, 1555-1567. | 4.2 | 81 |
| 154 | A structural voyage toward an understanding of the <scp>MHC</scp>â€Iâ€restricted immune response: lessons learned and much to be learned. Immunological Reviews, 2012, 250, 61-81. | 2.8 | 81 |
| 155 | Killer cell immunoglobulin-like receptor 3DL1 polymorphism defines distinct hierarchies of HLA class I recognition. Journal of Experimental Medicine, 2016, 213, 791-807. | 4.2 | 81 |
| 156 | Modulation of innate and adaptive immunity by cytomegaloviruses. Nature Reviews Immunology, 2020, 20, 113-127. | 10.6 | 80 |
| 157 | The 2.1Ã... Crystal Structure of the Far-red Fluorescent Protein HcRed: Inherent Conformational Flexibility of the Chromophore. Journal of Molecular Biology, 2005, 349, 223-237. | 2.0 | 79 |
| 158 | The 1.7ÂÃ... Crystal Structure of Dronpa: A Photoswitchable Green Fluorescent Protein. Journal of Molecular Biology, 2006, 364, 213-224. | 2.0 | 79 |
| 159 | A BAFF antagonist suppresses experimental autoimmune encephalomyelitis by targeting cell-mediated and humoral immune responses. International Immunology, 2006, 18, 1473-1485. | 1.8 | 79 |
| 160 | Recipient mucosal-associated invariant T cells control GVHD within the colon. Journal of Clinical Investigation, 2018, 128, 1919-1936. | 3.9 | 78 |
| 161 | Human leukocyte antigen-associated drug hypersensitivity. Current Opinion in Immunology, 2013, 25, 81-89. | 2.4 | 76 |
| 162 | IL-23 costimulates antigen-specific MAIT cell activation and enables vaccination against bacterial infection. Science Immunology, 2019, 4, . | 5.6 | 75 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | Variations on the GFP Chromophore. Journal of Biological Chemistry, 2005, 280, 2401-2404. | 1.6 | 74 |
| 164 | Cleaved antitrypsin polymers at atomic resolution. Protein Science, 2000, 9, 417-420. | 3.1 | 73 |
| 165 | Reversed T Cell Receptor Docking on a Major Histocompatibility Class I Complex Limits Involvement in the Immune Response. Immunity, 2016, 45, 749-760. | 6.6 | 73 |
| 166 | The interplay between citrullination and HLA-DRB1 polymorphism in shaping peptide binding hierarchies in rheumatoid arthritis. Journal of Biological Chemistry, 2018, 293, 3236-3251. | 1.6 | 73 |
| 167 | Recognition of nectin-2 by the natural killer cell receptor T cell immunoglobulin and ITIM domain (TIGIT). Journal of Biological Chemistry, 2017, 292, 11413-11422. | 1.6 | 72 |
| 168 | The Structure of HLA-B8 Complexed to an Immunodominant Viral Determinant: Peptide-Induced Conformational Changes and a Mode of MHC Class I Dimerization. Journal of Immunology, 2002, 169, 5153-5160. | 0.4 | 71 |
| 169 | Phospholipid signaling in innate immune cells. Journal of Clinical Investigation, 2018, 128, 2670-2679. | 3.9 | 71 |
| 170 | The crystal structure of glucose dehydrogenase from Thermoplasma acidophilum. Structure, 1994, 2, 385-393. | 1.6 | 70 |
| 171 | Cutting Edge: CD1a Tetramers and Dextramers Identify Human Lipopeptideâ€“Specific T Cells Ex Vivo. Journal of Immunology, 2013, 191, 4499-4503. | 0.4 | 70 |
| 172 | STAT3 is a critical cell-intrinsic regulator of human unconventional T cell numbers and function. Journal of Experimental Medicine, 2015, 212, 855-864. | 4.2 | 70 |
| 173 | The High Resolution Crystal Structure of the Human Tumor Suppressor Maspin Reveals a Novel Conformational Switch in the G-helix. Journal of Biological Chemistry, 2005, 280, 22356-22364. | 1.6 | 69 |
| 174 | Phosphorylated self-peptides alter human leukocyte antigen class I-restricted antigen presentation and generate tumor-specific epitopes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2776-2781. | 3.3 | 69 |
| 175 | New ways to turn on NKT cells. Journal of Experimental Medicine, 2011, 208, 1121-1125. | 4.2 | 69 |
| 176 | MAITs, MR1 and vitamin B metabolites. Current Opinion in Immunology, 2014, 26, 7-13. | 2.4 | 69 |
| 177 | Self-interaction of pneumolysin, the pore-forming protein toxin of Streptococcus pneumoniae. Journal of Molecular Biology, 1998, 284, 1223-1237. | 2.0 | 68 |
| 178 | T-cell receptor bias and immunity. Current Opinion in Immunology, 2008, 20, 119-125. | 2.4 | 68 |
| 179 | The structural basis for autonomous dimerization of the pre-T-cell antigen receptor. Nature, 2010, 467, 844-848. | 13.7 | 68 |
| 180 | The 1.5 Ã... Crystal Structure of a Highly Selected Antiviral T Cell Receptor Provides Evidence for a Structural Basis of Immunodominance. Structure, 2002, 10, 1521-1532. | 1.6 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Peptide-Dependent Recognition of HLA-B*57:01 by KIR3DS1. Journal of Virology, 2015, 89, 5213-5221. | 1.5 | 67 |
| 182 | MAIT cells and MR1-antigen recognition. Current Opinion in Immunology, 2017, 46, 66-74. | 2.4 | 67 |
| 183 | Structural and Sequence Comparisons of Quinone Oxidoreductase, Î¶-Crystallin, and Glucose and Alcohol Dehydrogenases. Archives of Biochemistry and Biophysics, 1996, 328, 173-183. | 1.4 | 65 |
| 184 | Multifunctional Role of Tyr 108 in the Catalytic Mechanism of Human Glutathione Transferase P1-1. Crystallographic and Kinetic Studies on the Y108F Mutant Enzymeâ€,â€¡. Biochemistry, 1997, 36, 6207-6217. | 1.2 | 65 |
| 185 | Downregulation of MHC Class I Expression by Influenza A and B Viruses. Frontiers in Immunology, 2019, 10, 1158. | 2.2 | 65 |
| 186 | TCR Bias and Affinity Define Two Compartments of the CD1bâ€“Glycolipid-Specific T Cell Repertoire. Journal of Immunology, 2014, 192, 4054-4060. | 0.4 | 64 |
| 187 | A multilayered immune system through the lens of unconventional T cells. Nature, 2021, 595, 501-510. | 13.7 | 64 |
| 188 | TCRÎ± Genes Direct MHC Restriction in the Potent Human T Cell Response to a Class I-Bound Viral Epitope. Journal of Immunology, 2006, 177, 6804-6814. | 0.4 | 63 |
| 189 | The 2.7ÂÃ... Crystal Structure of the Autoinhibited Human c-Fms Kinase Domain. Journal of Molecular Biology, 2007, 367, 839-847. | 2.0 | 63 |
| 190 | A Viral Immunoevasin Controls Innate Immunity by Targeting the Prototypical Natural Killer Cell Receptor Family. Cell, 2017, 169, 58-71.e14. | 13.5 | 63 |
| 191 | Circulating gluten-specific FOXP3 + CD39 + regulatory T cells have impaired suppressive function in patients with celiac disease. Journal of Allergy and Clinical Immunology, 2017, 140, 1592-1603.e8. | 1.5 | 63 |
| 192 | Single-Cell Approach to Influenza-Specific CD8+ T Cell Receptor Repertoires Across Different Age Groups, Tissues, and Following Influenza Virus Infection. Frontiers in Immunology, 2018, 9, 1453. | 2.2 | 63 |
| 193 | Public T cell receptors confer high-avidity CD4 responses to HIV controllers. Journal of Clinical Investigation, 2016, 126, 2093-2108. | 3.9 | 63 |
| 194 | The Structure of the Bacterial Oxidoreductase Enzyme DsbA in Complex with a Peptide Reveals a Basis for Substrate Specificity in the Catalytic Cycle of DsbA Enzymes. Journal of Biological Chemistry, 2009, 284, 17835-17845. | 1.6 | 62 |
| 195 | Post-translationally modified T cell epitopes: immune recognition and immunotherapy. Journal of Molecular Medicine, 2009, 87, 1045-51. | 1.7 | 62 |
| 196 | Protective Efficacy of Cross-Reactive CD8+ T Cells Recognising Mutant Viral Epitopes Depends on Peptide-MHC-I Structural Interactions and T Cell Activation Threshold. PLoS Pathogens, 2010, 6, e1001039. | 2.1 | 62 |
| 197 | NKT TCR Recognition of CD1d-Î±-C-Galactosylceramide. Journal of Immunology, 2011, 187, 4705-4713. | 0.4 | 62 |
| 198 | Functional and Structural Characteristics of NY-ESO-1-related HLA A2-restricted Epitopes and the Design of a Novel Immunogenic Analogue. Journal of Biological Chemistry, 2004, 279, 23438-23446. | 1.6 | 61 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | Divergent T-cell receptor recognition modes of a HLA-I restricted extended tumour-associated peptide. Nature Communications, 2018, 9, 1026. | 5.8 | 61 |
| 200 | Structural Studies on HLA-G: Implications for Ligand and Receptor Binding. Human Immunology, 2007, 68, 220-226. | 1.2 | 60 |
| 201 | Crystal Structures of the Lyn Protein Tyrosine Kinase Domain in Its Apo- and Inhibitor-bound State. Journal of Biological Chemistry, 2009, 284, 284-291. | 1.6 | 60 |
| 202 | An overview on the identification of <scp>MAIT</scp> cell antigens. Immunology and Cell Biology, 2018, 96, 573-587. | 1.0 | 60 |
| 203 | T cell receptor recognition of CD1b presenting a mycobacterial glycolipid. Nature Communications, 2016, 7, 13257. | 5.8 | 59 |
| 204 | A subset of HLA-DP molecules serve as ligands for the natural cytotoxicity receptor NKp44. Nature Immunology, 2019, 20, 1129-1137. | 7.0 | 59 |
| 205 | Constraints within major histocompatibility complex class I restricted peptides: Presentation and consequences for T-cell recognition. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5534-5539. | 3.3 | 58 |
| 206 | Aerolysinâ€"A Paradigm for Membrane Insertion of Beta-Sheet Protein Toxins?. Journal of Structural Biology, 1998, 121, 92-100. | 1.3 | 57 |
| 207 | HLA Peptide Length Preferences Control CD8+T Cell Responses. Journal of Immunology, 2013, 191, 561-571. | 0.4 | 57 |
| 208 | T Cell Determinants Incorporating Î²-Amino Acid Residues Are Protease Resistant and Remain Immunogenic In Vivo. Journal of Immunology, 2005, 175, 3810-3818. | 0.4 | 56 |
| 209 | Host immunomodulatory lipids created by symbionts from dietary amino acids. Nature, 2021, 600, 302-307. | 13.7 | 56 |
| 210 | The production, purification and crystallization of a soluble heterodimeric form of a highly selected T-cell receptor in its unliganded and liganded state. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 2131-2134. | 2.5 | 55 |
| 211 | Acute emergence and reversion of influenza A virus quasispecies within CD8+ T cell antigenic peptides. Nature Communications, 2013, 4, 2663. | 5.8 | 55 |
| 212 | HLA and kidney disease: from associations to mechanisms. Nature Reviews Nephrology, 2018, 14, 636-655. | 4.1 | 55 |
| 213 | A structural perspective on MHC class Ib molecules in adaptive immunity. Trends in Immunology, 2006, 27, 413-420. | 2.9 | 54 |
| 214 | Enzymatic Properties of an Ecto-nucleoside Triphosphate Diphosphohydrolase from Legionella pneumophila. Journal of Biological Chemistry, 2008, 283, 12909-12918. | 1.6 | 54 |
| 215 | Impact of clonal competition for peptide-MHC complexes on the CD8+ T-cell repertoire selection in a persistent viral infection. Blood, 2008, 111, 4283-4292. | 0.6 | 54 |
| 216 | Mucosal-Associated Invariant T Cells Augment Immunopathology and Gastritis in Chronic Helicobacter pylori Infection. Journal of Immunology, 2018, 200, 1901-1916. | 0.4 | 54 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | CD4 <sup>+</sup> T cellâ€“mediated HLA class II cross-restriction in HIV controllers. Science Immunology, 2018, 3, . | 5.6 | 54 |
| 218 | TAP genes and immunity. Current Opinion in Immunology, 2004, 16, 651-659. | 2.4 | 53 |
| 219 | Crystal Structure of LipL32, the Most Abundant Surface Protein of Pathogenic Leptospira spp.. Journal of Molecular Biology, 2009, 387, 1229-1238. | 2.0 | 53 |
| 220 | Canonical T cell receptor docking on peptideâ€“MHC is essential for T cell signaling. Science, 2021, 372, . | 6.0 | 53 |
| 221 | Structure of the activation domain of the GM-CSF/IL-3/IL-5 receptor common Î²-chain bound to an antagonist. Blood, 2000, 95, 2491-2498. | 0.6 | 52 |
| 222 | Disparate thermodynamics governing T cell receptor-MHC-I interactions implicate extrinsic factors in guiding MHC restriction. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6641-6646. | 3.3 | 52 |
| 223 | The molecular bases of Î´/Î±Î² T cellâ€“mediated antigen recognition. Journal of Experimental Medicine, 2014, 211, 2599-2615. | 4.2 | 52 |
| 224 | The Cellular Redox Environment Alters Antigen Presentation. Journal of Biological Chemistry, 2014, 289, 27979-27991. | 1.6 | 52 |
| 225 | T cell autoreactivity directed toward CD1c itself rather than toward carried self lipids. Nature Immunology, 2018, 19, 397-406. | 7.0 | 52 |
| 226 | Killer cell immunoglobulinâ€“like receptor 3DL1 variation modifies HLA-B*57 protection against HIV-1. Journal of Clinical Investigation, 2018, 128, 1903-1912. | 3.9 | 52 |
| 227 | Aerolysin and pertussis toxin share a common receptor-binding domain. EMBO Journal, 1997, 16, 3426-3434. | 3.5 | 51 |
| 228 | Remarkably low affinity of CD4/peptide-major histocompatibility complex class II protein interactions. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5682-5687. | 3.3 | 51 |
| 229 | PD-L1â€“ and calcitriol-dependent liposomal antigen-specific regulation of systemic inflammatory autoimmune disease. JCI Insight, 2019, 4, . | 2.3 | 51 |
| 230 | Alloreactivity between Disparate Cognate and Allogeneic pMHC-I Complexes Is the Result of Highly Focused, Peptide-dependent Structural Mimicry. Journal of Biological Chemistry, 2006, 281, 34324-34332. | 1.6 | 50 |
| 231 | Epitope-specific TCRÎ² repertoire diversity imparts no functional advantage on the CD8<sup>+</sup>T cell response to cognate viral peptides. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 2034-2039. | 3.3 | 50 |
| 232 | Determinants of Gliadin-Specific T Cell Selection in Celiac Disease. Journal of Immunology, 2015, 194, 6112-6122. | 0.4 | 50 |
| 233 | Absence of mucosal-associated invariant T cells in a person with a homozygous point mutation in MR1. Science Immunology, 2020, 5, . | 5.6 | 50 |
| 234 | Crystallization, structural determination and analysis of a novel parasite vaccine candidate: Fasciola hepatica glutathione S-transferase 1 1Edited by R. Huber. Journal of Molecular Biology, 1997, 273, 857-872. | 2.0 | 49 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Affinity Thresholds for Naive CD8+ CTL Activation by Peptides and Engineered Influenza A Viruses. Journal of Immunology, 2011, 187, 5733-5744. | 0.4 | 49 |
| 236 | Recognition of the nonclassical MHC class I molecule H2-M3 by the receptor Ly49A regulates the licensing and activation of NK cells. Nature Immunology, 2012, 13, 1171-1177. | 7.0 | 49 |
| 237 | Diverse T Cell Receptor Gene Usage in HLA-DQ8-Associated Celiac Disease Converges into a Consensus Binding Solution. Structure, 2016, 24, 1643-1657. | 1.6 | 49 |
| 238 | The N terminus of the serpin, tengpin, functions to trap the metastable native state. EMBO Reports, 2007, 8, 658-663. | 2.0 | 48 |
| 239 | A Long, Naturally Presented Immunodominant Epitope from NY-ESO-1 Tumor Antigen: Implications for Cancer Vaccine Design. Cancer Research, 2009, 69, 1046-1054. | 0.4 | 48 |
| 240 | A Structural Basis for Antigen Presentation by the MHC Class Ib Molecule, Qa-1b. Journal of Immunology, 2012, 188, 302-310. | 0.4 | 48 |
| 241 | A Structural Basis for Varied Î±Î² TCR Usage against an Immunodominant EBV Antigen Restricted to a HLA-B8 Molecule. Journal of Immunology, 2012, 188, 311-321. | 0.4 | 48 |
| 242 | Mutational and Structural Analysis of KIR3DL1 Reveals a Lineage-Defining Allotypic Dimorphism That Impacts Both HLA and Peptide Sensitivity. Journal of Immunology, 2014, 192, 2875-2884. | 0.4 | 48 |
| 243 | Coeliac disease and rheumatoid arthritis: similar mechanisms, different antigens. Nature Reviews Rheumatology, 2015, 11, 450-461. | 3.5 | 48 |
| 244 | Broad CD8+ T cell cross-recognition of distinct influenza A strains in humans. Nature Communications, 2018, 9, 5427. | 5.8 | 48 |
| 245 | Tissue Specificity of Cross-Reactive Allogeneic Responses by EBV EBNA3A-Specific Memory T Cells. Transplantation, 2011, 91, 494-500. | 0.5 | 47 |
| 246 | A molecular basis for the T cell response in HLA-DQ2.2 mediated celiac disease. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3063-3073. | 3.3 | 47 |
| 247 | The impact of HLA-B micropolymorphism outside primary peptide anchor pockets on the CTL response to CMV. European Journal of Immunology, 2007, 37, 946-953. | 1.6 | 46 |
| 248 | A mortiseâ€“tenon joint in the transmembrane domain modulates autotransporter assembly into bacterial outer membranes. Nature Communications, 2014, 5, 4239. | 5.8 | 46 |
| 249 | MR1 presentation of vitamin B-based metabolite ligands. Current Opinion in Immunology, 2015, 34, 28-34. | 2.4 | 46 |
| 250 | Adaptability of the semi-invariant natural killer T-cell receptor towards structurally diverse CD1d-restricted ligands. EMBO Journal, 2009, 28, 3579-3590. | 3.5 | 45 |
| 251 | The 1.5 Ã… Crystal Structure of a Prokaryote Serpin. Structure, 2003, 11, 387-397. | 1.6 | 44 |
| 252 | Specificity on a knife-edge: the Î±Î² T cell receptor. Current Opinion in Structural Biology, 2006, 16, 787-795. | 2.6 | 44 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | T-cell allorecognition: a case of mistaken identity or dÃ©jÃ vu?. Trends in Immunology, 2008, 29, 220-226. | 2.9 | 44 |
| 254 | The structural bases of direct Tâ€cell allorecognition: implications for Tâ€cellâ€mediated transplant rejection. Immunology and Cell Biology, 2011, 89, 388-395. | 1.0 | 44 |
| 255 | Understanding the complexity and malleability of Tâ€cell recognition. Immunology and Cell Biology, 2015, 93, 433-441. | 1.0 | 44 |
| 256 | Rapid screening for the detection of HLAâ€B57 and HLAâ€B58 in prevention of drug hypersensitivity. Tissue Antigens, 2011, 78, 11-20. | 1.0 | 43 |
| 257 | Structural basis for enabling T-cell receptor diversity within biased virus-specific CD8 <sup>+</sup> T-cell responses. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9536-9541. | 3.3 | 43 |
| 258 | Ligand-dependent downregulation of MR1 cell surface expression. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10465-10475. | 3.3 | 43 |
| 259 | CD1d antigen presentation: treats for NKT cells. Nature Immunology, 2005, 6, 754-756. | 7.0 | 42 |
| 260 | The impact of human leukocyte antigen (HLA) micropolymorphism on ligand specificity within the HLA-B*41 allotypic family. Haematologica, 2011, 96, 110-118. | 1.7 | 42 |
| 261 | 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 |
| 262 | Studies on the structure and mechanism of a bacterial protein toxin by analytical ultracentrifugation and small-angle neutron scattering 1 1Edited by M. F. Moody. Journal of Molecular Biology, 1999, 293, 1145-1160. | 2.0 | 41 |
| 263 | X-ray crystal structure of MENT: evidence for functional loopâ€“sheet polymers in chromatin condensation. EMBO Journal, 2006, 25, 3144-3155. | 3.5 | 41 |
| 264 | Targeting of a natural killer cell receptor family by a viral immunoevasin. Nature Immunology, 2013, 14, 699-705. | 7.0 | 41 |
| 265 | Structural Basis for CD96 Immune Receptor Recognition of Nectin-like Protein-5, CD155. Structure, 2019, 27, 219-228.e3. | 1.6 | 41 |
| 266 | The molecular basis underpinning the potency and specificity of MAIT cell antigens. Nature Immunology, 2020, 21, 400-411. | 7.0 | 41 |
| 267 | Identification of a Potent Microbial Lipid Antigen for Diverse NKT Cells. Journal of Immunology, 2015, 195, 2540-2551. | 0.4 | 40 |
| 268 | 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 |
| 269 | A plasmid-encoded peptide from Staphylococcus aureus induces anti-myeloperoxidase nephritogenic autoimmunity. Nature Communications, 2019, 10, 3392. | 5.8 | 40 |
| 270 | Crystal Structure of a Legionella pneumophila Ecto -Triphosphate Diphosphohydrolase, A Structural and Functional Homolog of the Eukaryotic NTPDases. Structure, 2010, 18, 228-238. | 1.6 | 39 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | A molecular basis of human T cell receptor autoreactivity toward self-phospholipids. Science Immunology, 2017, 2, . | 5.6 | 39 |
| 272 | The Structure of the Atypical Killer Cell Immunoglobulin-like Receptor, KIR2DL4. Journal of Biological Chemistry, 2015, 290, 10460-10471. | 1.6 | 38 |
| 273 | Towards identification of immune and genetic correlates of severe influenza disease in Indigenous Australians. Immunology and Cell Biology, 2016, 94, 367-377. | 1.0 | 38 |
| 274 | Discriminative T-cell receptor recognition of highly homologous HLA-DQ2â€“bound gluten epitopes. Journal of Biological Chemistry, 2019, 294, 941-952. | 1.6 | 38 |
| 275 | Site-directed mutagenesis of theProteus mirabilisglutathione transferase B1-1 G-site. FEBS Letters, 1998, 423, 122-124. | 1.3 | 37 |
| 276 | Movement of a Loop in Domain 3 of Aerolysin Is Required for Channel Formationâ€. Biochemistry, 1998, 37, 741-746. | 1.2 | 37 |
| 277 | Mucosa-Associated Invariant T Cells Are Systemically Depleted in Simian Immunodeficiency Virus-Infected Rhesus Macaques. Journal of Virology, 2016, 90, 4520-4529. | 1.5 | 37 |
| 278 | Anthem: a user customised tool for fast and accurate prediction of binding between peptides and HLA class I molecules. Briefings in Bioinformatics, 2021, 22, . | 3.2 | 37 |
| 279 | T cell allorecognition and MHC restrictionâ€”A case of Jekyll and Hyde?. Molecular Immunology, 2008, 45, 583-598. | 1.0 | 36 |
| 280 | Structure and Function of the Oxidoreductase DsbA1 from Neisseria meningitidis. Journal of Molecular Biology, 2009, 394, 931-943. | 2.0 | 36 |
| 281 | Vî²2 natural killer T cell antigen receptor-mediated recognition of CD1d-glycolipid antigen. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19007-19012. | 3.3 | 36 |
| 282 | The Impact of a Large and Frequent Deletion in the Human TCR Î² Locus on Antiviral Immunity. Journal of Immunology, 2012, 188, 2742-2748. | 0.4 | 36 |
| 283 | Highly Divergent T-cell Receptor Binding Modes Underlie Specific Recognition of a Bulged Viral Peptide bound to a Human Leukocyte Antigen Class I Molecule. Journal of Biological Chemistry, 2013, 288, 15442-15454. | 1.6 | 36 |
| 284 | Antigen Specificity of Type I NKT Cells Is Governed by TCR Î²-Chain Diversity. Journal of Immunology, 2015, 195, 4604-4614. | 0.4 | 36 |
| 285 | Germline bias dictates cross-serotype reactivity in a common dengue-virus-specific CD8+ T cell response. Nature Immunology, 2017, 18, 1228-1237. | 7.0 | 36 |
| 286 | Molecular basis for increased susceptibility of Indigenous North Americans to seropositive rheumatoid arthritis. Annals of the Rheumatic Diseases, 2017, 76, 1915-1923. | 0.5 | 36 |
| 287 | Endoplasmic reticulum chaperones stabilize ligand-receptive MR1 molecules for efficient presentation of metabolite antigens. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 24974-24985. | 3.3 | 36 |
| 288 | Human Mucosal-Associated Invariant T Cells in Older Individuals Display Expanded TCRÎ±Î² Clonotypes with Potent Antimicrobial Responses. Journal of Immunology, 2020, 204, 1119-1133. | 0.4 | 36 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | Complete modification of TCR specificity and repertoire selection does not perturb a CD8 <sup>+</sup> T cell immunodominance hierarchy. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 19408-19413. | 3.3 | 35 |
| 290 | Virus-Mediated Suppression of the Antigen Presentation Molecule MR1. Cell Reports, 2020, 30, 2948-2962.e4. | 2.9 | 35 |
| 291 | A natural product compound inhibits coronaviral replication inÂvitro by binding to the conserved Nsp9 SARS-CoV-2 protein. Journal of Biological Chemistry, 2021, 297, 101362. | 1.6 | 35 |
| 292 | The peptide length specificity of some HLA class I alleles is very broad and includes peptides of up to 25 amino acids in length. Molecular Immunology, 2009, 46, 1911-1917. | 1.0 | 34 |
| 293 | Human and Mouse Type I Natural Killer T Cell Antigen Receptors Exhibit Different Fine Specificities for CD1d-Antigen Complex. Journal of Biological Chemistry, 2012, 287, 39139-39148. | 1.6 | 34 |
| 294 | Effective functional maturation of invariant natural killer T cells is constrained by negative selection and T-cell antigen receptor affinity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E119-28. | 3.3 | 34 |
| 295 | Atypical natural killer T-cell receptor recognition of CD1dâ€“lipid antigens. Nature Communications, 2016, 7, 10570. | 5.8 | 34 |
| 296 | The molecular basis for peptide repertoire selection in the human leukocyte antigen (HLA) C*06:02 molecule. Journal of Biological Chemistry, 2017, 292, 17203-17215. | 1.6 | 34 |
| 297 | Human Î³Î´ T cells recognize CD1b by two distinct mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22944-22952. | 3.3 | 34 |
| 298 | Immune cellular networks underlying recovery from influenza virus infection in acute hospitalized patients. Nature Communications, 2021, 12, 2691. | 5.8 | 34 |
| 299 | T-cells behaving badly: structural insights into alloreactivity and autoimmunity. Current Opinion in Immunology, 2008, 20, 575-580. | 2.4 | 33 |
| 300 | A structurally derived consensus pattern for theta class glutathione transferases. Protein Engineering, Design and Selection, 1996, 9, 327-332. | 1.0 | 32 |
| 301 | Identification of a dominant self-ligand bound to three HLA B44 alleles and the preliminary crystallographic analysis of recombinant forms of each complex. FEBS Letters, 2002, 527, 27-32. | 1.3 | 32 |
| 302 | The Structure of H-2Kb and Kbm8 Complexed to a Herpes Simplex Virus Determinant: Evidence for a Conformational Switch That Governs T Cell Repertoire Selection and Viral Resistance. Journal of Immunology, 2004, 173, 402-409. | 0.4 | 31 |
| 303 | HIV-1â€“Specific CD8 T Cells Exhibit Limited Cross-Reactivity during Acute Infection. Journal of Immunology, 2016, 196, 3276-3286. | 0.4 | 31 |
| 304 | The Diverse Family of MR1-Restricted T Cells. Journal of Immunology, 2018, 201, 2862-2871. | 0.4 | 31 |
| 305 | HLA-B57 micropolymorphism defines the sequence and conformational breadth of the immunopeptidome. Nature Communications, 2018, 9, 4693. | 5.8 | 31 |
| 306 | A T-cell receptor escape channel allows broad T-cell response to CD1b and membrane phospholipids. Nature Communications, 2019, 10, 56. | 5.8 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Human skin is colonized by T cells that recognize CD1a independently of lipid. Journal of Clinical Investigation, 2021, 131, . | 3.9 | 31 |
| 308 | Antagonism of Antiviral and Allogeneic Activity of a Human Public CTL Clonotype by a Single Altered Peptide Ligand: Implications for Allograft Rejection. Journal of Immunology, 2005, 174, 5593-5601. | 0.4 | 30 |
| 309 | Tetrahydrolipstatin Inhibition, Functional Analyses, and Three-dimensional Structure of a Lipase Essential for Mycobacterial Viability. Journal of Biological Chemistry, 2010, 285, 30050-30060. | 1.6 | 30 |
| 310 | The High Resolution Crystal Structure of a Native Thermostable Serpin Reveals the Complex Mechanism Underpinning the Stressed to Relaxed Transition. Journal of Biological Chemistry, 2005, 280, 8435-8442. | 1.6 | 29 |
| 311 | Tollâ€like receptors: structural pieces of a curveâ€shaped puzzle. Immunology and Cell Biology, 2007, 85, 406-410. | 1.0 | 29 |
| 312 | Loss of Anti-Viral Immunity by Infection with a Virus Encoding a Cross-Reactive Pathogenic Epitope. PLoS Pathogens, 2012, 8, e1002633. | 2.1 | 29 |
| 313 | A Structural Basis for the pH-dependent Increase in Fluorescence Efficiency of Chromoproteins. Journal of Molecular Biology, 2007, 368, 998-1010. | 2.0 | 28 |
| 314 | The Energetic Basis Underpinning T-cell Receptor Recognition of a Super-bulged Peptide Bound to a Major Histocompatibility Complex Class I Molecule. Journal of Biological Chemistry, 2012, 287, 12267-12276. | 1.6 | 28 |
| 315 | SARSâ€CoVâ€2â€specific CD8<sup>+</sup> Tâ€cell responses and TCR signatures in the context of a prominent HLAâ€A*24:02 allomorph. Immunology and Cell Biology, 2021, 99, 990-1000. | 1.0 | 28 |
| 316 | Francisella tularensis induces Th1 like MAIT cells conferring protection against systemic and local infection. Nature Communications, 2021, 12, 4355. | 5.8 | 28 |
| 317 | Targeted suppression of autoreactive CD8+ T-cell activation using blocking anti-CD8 antibodies. Scientific Reports, 2016, 6, 35332. | 1.6 | 27 |
| 318 | Dual Modifications of Îą-Galactosylceramide Synergize to Promote Activation of Human Invariant Natural Killer T Cells and Stimulate Anti-tumor Immunity. Cell Chemical Biology, 2018, 25, 571-584.e8. | 2.5 | 27 |
| 319 | Peptide mimic for influenza vaccination using nonnatural combinatorial chemistry. Journal of Clinical Investigation, 2018, 128, 1569-1580. | 3.9 | 27 |
| 320 | Antigen-Driven Patterns of TCR Bias Are Shared across Diverse Outcomes of Human Hepatitis C Virus Infection. Journal of Immunology, 2011, 186, 901-912. | 0.4 | 26 |
| 321 | Endogenous antigen presentation impacts on T-box transcription factor expression and functional maturation of CD8+ T cells. Blood, 2012, 120, 3237-3245. | 0.6 | 25 |
| 322 | The Interaction of KIR3DL1*001 with HLA Class I Molecules Is Dependent upon Molecular Microarchitecture within the Bw4 Epitope. Journal of Immunology, 2015, 194, 781-789. | 0.4 | 25 |
| 323 | A hot spot on interferon Îą/Îł² receptor subunit 1 (IFNAR1) underpins its interaction with interferon-Îł² and dictates signaling. Journal of Biological Chemistry, 2017, 292, 7554-7565. | 1.6 | 25 |
| 324 | A Biophysical Analysis of the Tetratricopeptide Repeat-rich Mitochondrial Import Receptor, Tom70, Reveals an Elongated Monomer That Is Inherently Flexible, Unstable, and Unfolds via a Multistate Pathway. Journal of Biological Chemistry, 2004, 279, 46448-46454. | 1.6 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 325 | <scp>CD</scp>1d protein structure determines speciesâ€selective antigenicity of isoglobotrihexosylceramide (i<scp>G</scp>b3) to invariant <scp>NKT</scp> cells. European Journal of Immunology, 2013, 43, 815-825. | 1.6 | 24 |
| 326 | Mucosalâ€associated invariant T cell receptor recognition of small molecules presented by <scp>MR</scp>1. Immunology and Cell Biology, 2018, 96, 588-597. | 1.0 | 24 |
| 327 | Growth Hormone Stops Excessive Inflammation After Partial Hepatectomy, Allowing Liver Regeneration and Survival Through Induction of H2â€Bl/HLAâ€G. Hepatology, 2021, 73, 759-775. | 3.6 | 24 |
| 328 | CD1a selectively captures endogenous cellular lipids that broadly block T cell response. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 24 |
| 329 | Hijacking of a Substrate-binding Protein Scaffold for use in Mycobacterial Cell Wall Biosynthesis. Journal of Molecular Biology, 2006, 359, 983-997. | 2.0 | 23 |
| 330 | Crystal Structure of a UDP-glucose-specific Glycosyltransferase from a Mycobacterium Species. Journal of Biological Chemistry, 2008, 283, 27881-27890. | 1.6 | 23 |
| 331 | Structural and Biological Basis of CTL Escape in Coronavirus-Infected Mice. Journal of Immunology, 2008, 180, 3926-3937. | 0.4 | 23 |
| 332 | Structural and Biochemical Characterization of the Oxidoreductase NmDsbA3 from Neisseria meningitidis. Journal of Biological Chemistry, 2008, 283, 32452-32461. | 1.6 | 23 |
| 333 | Lack of Heterologous Cross-reactivity toward HLA-A*02:01 Restricted Viral Epitopes Is Underpinned by Distinct Î±Î²T Cell Receptor Signatures. Journal of Biological Chemistry, 2016, 291, 24335-24351. | 1.6 | 23 |
| 334 | Structureâ€“function analyses of a pertussis-like toxin from pathogenic Escherichia coli reveal a distinct mechanism of inhibition of trimeric G-proteins. Journal of Biological Chemistry, 2017, 292, 15143-15158. | 1.6 | 23 |
| 335 | Identification of Native and Posttranslationally Modified HLAâ€B*57:01â€Restricted HIV Envelope Derived Epitopes Using Immunoproteomics. Proteomics, 2018, 18, e1700253. | 1.3 | 23 |
| 336 | SARS-CoV-2-specific TÂcell memory with common TCRÎ±Î² motifs is established in unvaccinated children who seroconvert after infection. Immunity, 2022, 55, 1299-1315.e4. | 6.6 | 23 |
| 337 | Shifting Substrate Specificity of Human Glutathione Transferase (from Class Pi to Class Alpha) by a Single Point Mutation. Biochemical and Biophysical Research Communications, 1998, 252, 184-189. | 1.0 | 22 |
| 338 | EcxAB Is a Founding Member of a New Family of Metalloprotease AB5 Toxins with a Hybrid Cholera-like B Subunit. Structure, 2013, 21, 2003-2013. | 1.6 | 22 |
| 339 | Lipids hide or step aside for CD1-autoreactive T cell receptors. Current Opinion in Immunology, 2018, 52, 93-99. | 2.4 | 22 |
| 340 | T cell receptor recognition of hybrid insulin peptides bound to HLA-DQ8. Nature Communications, 2021, 12, 5110. | 5.8 | 22 |
| 341 | Recognition of the antigen-presenting molecule MR1 by a VÎ´3<sup>+</sup>Î³Î´ T cell receptor. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 22 |
| 342 | Structural Basis of Subtilase Cytotoxin SubAB Assembly. Journal of Biological Chemistry, 2013, 288, 27505-27516. | 1.6 | 21 |

| # | Article | IF | Citations |
|---|---|---|---|
| 343 | An Extensive Antigenic Footprint Underpins Immunodominant TCR Adaptability against a Hypervariable Viral Determinant. Journal of Immunology, 2014, 193, 5402-5413. | 0.4 | 21 |
| 344 | Differing roles of CD1d2 and CD1d1 proteins in type I natural killer T cell development and function. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1204-E1213. | 3.3 | 21 |
| 345 | The early proximal Î±Î² TCR signalosome specifies thymic selection outcome through a quantitative protein interaction network. Science Immunology, 2019, 4, . | 5.6 | 21 |
| 346 | A single-domain bispecific antibody targeting CD1d and the NKT T-cell receptor induces a potent antitumor response. Nature Cancer, 2020, 1, 1054-1065. | 5.7 | 21 |
| 347 | Structural plasticity of KIR2DL2 and KIR2DL3 enables altered docking geometries atop HLA-C. Nature Communications, 2021, 12, 2173. | 5.8 | 21 |
| 348 | Evaluation of the role of two conserved active-site residues in Beta class glutathione S-transferases. Biochemical Journal, 2000, 351, 341-346. | 1.7 | 20 |
| 349 | Identification of the Structural and Functional Domains of the Large Serine Recombinase TnpX from Clostridium perfringens. Journal of Biological Chemistry, 2005, 280, 2503-2511. | 1.6 | 20 |
| 350 | The 2.1Ã... Crystal Structure of copGFP, a Representative Member of the Copepod Clade Within the Green Fluorescent Protein Superfamily. Journal of Molecular Biology, 2006, 359, 890-900. | 2.0 | 20 |
| 351 | A Molecular Basis for the Interplay between T Cells, Viral Mutants, and Human Leukocyte Antigen Micropolymorphism. Journal of Biological Chemistry, 2014, 289, 16688-16698. | 1.6 | 20 |
| 352 | The versatility of the Î±Î² Tâ€cell antigen receptor. Protein Science, 2014, 23, 260-272. | 3.1 | 20 |
| 353 | A T Cell Receptor Locus Harbors a Malaria-Specific Immune Response Gene. Immunity, 2017, 47, 835-847.e4. | 6.6 | 20 |
| 354 | A conserved energetic footprint underpins recognition of human leukocyte antigen-E by two distinct Î±Î² T cell receptors. Journal of Biological Chemistry, 2017, 292, 21149-21158. | 1.6 | 20 |
| 355 | Recognition of host Clr-b by the inhibitory NKR-P1B receptor provides a basis for missing-self recognition. Nature Communications, 2018, 9, 4623. | 5.8 | 20 |
| 356 | Inability To Detect Cross-Reactive Memory T Cells Challenges the Frequency of Heterologous Immunity among Common Viruses. Journal of Immunology, 2018, 200, 3993-4003. | 0.4 | 20 |
| 357 | CD8+ T cell landscape in Indigenous and non-Indigenous people restricted by influenza mortality-associated HLA-A*24:02 allomorph. Nature Communications, 2021, 12, 2931. | 5.8 | 20 |
| 358 | Structural basis of biased T cell receptor recognition of an immunodominant HLA-A2 epitope of the SARS-CoV-2 spike protein. Journal of Biological Chemistry, 2021, 297, 101065. | 1.6 | 20 |
| 359 | The production, purification and crystallization of a pocilloporin pigment from a reef-forming coral. Acta Crystallographica Section D: Biological Crystallography, 2003, 59, 597-599. | 2.5 | 19 |
| 360 | Engineering a New C-terminal Tail in the H-site of Human Glutathione Transferase P1-1: Structural and Functional Consequences. Journal of Molecular Biology, 2003, 325, 111-122. | 2.0 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 361 | Degenerate Recognition of MHC Class I Molecules with Bw4 and Bw6 Motifs by a Killer Cell Ig-like Receptor 3DL Expressed by Macaque NK Cells. Journal of Immunology, 2012, 189, 4338-4348. | 0.4 | 19 |
| 362 | Molecular Imprint of Exposure to Naturally Occurring Genetic Variants of Human Cytomegalovirus on the T cell Repertoire. Scientific Reports, 2014, 4, 3993. | 1.6 | 19 |
| 363 | Recognition of the Major Histocompatibility Complex (MHC) Class Ib Molecule H2-Q10 by the Natural Killer Cell Receptor Ly49C. Journal of Biological Chemistry, 2016, 291, 18740-18752. | 1.6 | 19 |
| 364 | Peripheral Blood Mucosal-Associated Invariant T Cells in Tuberculosis Patients and Healthy Mycobacterium tuberculosis-Exposed Controls. Journal of Infectious Diseases, 2020, 222, 995-1007. | 1.9 | 19 |
| 365 | Crystallization and preliminary X-ray analysis of a thiol-activated cytolysin. FEBS Letters, 1996, 397, 290-292. | 1.3 | 18 |
| 366 | The Structure and Stability of the Monomorphic HLA-G Are Influenced by the Nature of the Bound Peptide. Journal of Molecular Biology, 2010, 397, 467-480. | 2.0 | 18 |
| 367 | Preemptive priming readily overcomes structure-based mechanisms of virus escape. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5570-5575. | 3.3 | 18 |
| 368 | Structure of the activation domain of the GM-CSF/IL-3/IL-5 receptor common beta-chain bound to an antagonist. Blood, 2000, 95, 2491-8. | 0.6 | 18 |
| 369 | Structures of thermolabile mutants of human glutathione transferase P1-1 1 1Edited by R. Huber. Journal of Molecular Biology, 2000, 302, 295-302. | 2.0 | 17 |
| 370 | Distinct CD1d docking strategies exhibited by diverse Type II NKT cell receptors. Nature Communications, 2019, 10, 5242. | 5.8 | 17 |
| 371 | A homology model for the human theta-class glutathione transferase T1â€“1. , 1998, 33, 444-454. | | 16 |
| 372 | Determination of chromophore charge states in the low pH color transition of the fluorescent protein Rtms5H146S via time-dependent DFT. Chemical Physics Letters, 2006, 420, 507-511. | 1.2 | 16 |
| 373 | The production and crystallization of the human leukocyte antigen class II molecules HLA-DQ2 and HLA-DQ8 complexed with deamidated gliadin peptides implicated in coeliac disease. Acta Crystallographica Section F: Structural Biology Communications, 2007, 63, 1021-1025. | 0.7 | 16 |
| 374 | The Ly49 natural killer cell receptors: a versatile tool for viral selfâ€discrimination. Immunology and Cell Biology, 2014, 92, 214-220. | 1.0 | 16 |
| 375 | The molecular basis of how buried human leukocyte antigen polymorphism modulates natural killer cell function. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11636-11647. | 3.3 | 16 |
| 376 | The molecular assembly of the marsupial Î³Î¼ T cell receptor defines a third T cell lineage. Science, 2021, 371, 1383-1388. | 6.0 | 16 |
| 377 | Our evolving understanding of the role of the Î³Î´ T cell receptor in Î³Î´ T cell mediated immunity. Biochemical Society Transactions, 2021, 49, 1985-1995. | 1.6 | 16 |
| 378 | Nfkb2 variants reveal a p100-degradation threshold that defines autoimmune susceptibility. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 379 | Repeated Plasmodium falciparum infection in humans drives the clonal expansion of an adaptive Î³Î´ T cell repertoire. Science Translational Medicine, 2021, 13, eabe7430. | 5.8 | 16 |
| 380 | Mutagenic analysis of conserved arginine residues in and around the novel sulfate binding pocket of the human Theta class glutathione transferase T2â€2. Protein Science, 1999, 8, 2205-2212. | 3.1 | 15 |
| 381 | Purification and biological characterization of soluble, recombinant mouse IFNÎ² expressed in insect cells. Protein Expression and Purification, 2014, 94, 7-14. | 0.6 | 15 |
| 382 | The Structure of the Cytomegalovirus-Encoded m04 Glycoprotein, a Prototypical Member of the m02 Family of Immunoevasins. Journal of Biological Chemistry, 2014, 289, 23753-23763. | 1.6 | 15 |
| 383 | H1N1 hemagglutinin-specific HLA-DQ6-restricted CD4+ T cells can be readily detected in narcolepsy type 1 patients and healthy controls. Journal of Neuroimmunology, 2019, 332, 167-175. | 1.1 | 15 |
| 384 | A high-affinity human TCR-like antibody detects celiac disease gluten peptideâ€“MHC complexes and inhibits T cell activation. Science Immunology, 2021, 6, . | 5.6 | 15 |
| 385 | Recent advances in all-protein chromophore technology. Biotechnology Annual Review, 2006, 12, 31-66. | 2.1 | 14 |
| 386 | How a Home-Grown T Cell Receptor Interacts with a Foreign Landscape. Cell, 2007, 129, 19-20. | 13.5 | 14 |
| 387 | Prevention of Cytotoxic T Cell Escape Using a Heteroclitic Subdominant Viral T Cell Determinant. PLoS Pathogens, 2008, 4, e1000186. | 2.1 | 14 |
| 388 | T Cell Cross-Reactivity between a Highly Immunogenic EBV Epitope and a Self-Peptide Naturally Presented by HLA-B*18:01+ Cells. Journal of Immunology, 2015, 194, 4668-4675. | 0.4 | 14 |
| 389 | Disrupting the Allosteric Interaction between the Plasmodium falciparum cAMP-dependent Kinase and Its Regulatory Subunit. Journal of Biological Chemistry, 2016, 291, 25375-25386. | 1.6 | 14 |
| 390 | Challenging immunodominance of influenza-specific CD8+ T cell responses restricted by the risk-associated HLA-A*68:01 allomorph. Nature Communications, 2019, 10, 5579. | 5.8 | 14 |
| 391 | Carbamazepine Induces Focused T Cell Responses in Resolved Stevens-Johnson Syndrome and Toxic Epidermal Necrolysis Cases But Does Not Perturb the Immunopeptidome for T Cell Recognition. Frontiers in Immunology, 2021, 12, 653710. | 2.2 | 14 |
| 392 | The shared susceptibility epitope of HLA-DR4 binds citrullinated self-antigens and the TCR. Science Immunology, 2021, 6, . | 5.6 | 14 |
| 393 | Predisposed Î±Î² T cell antigen receptor recognition of MHC and MHC-I like molecules?. Current Opinion in Immunology, 2013, 25, 653-659. | 2.4 | 13 |
| 394 | Structure of the Chicken CD3ÏµÎ´/Î³ Heterodimer and Its Assembly with the Î±Î²T Cell Receptor. Journal of Biological Chemistry, 2014, 289, 8240-8251. | 1.6 | 13 |
| 395 | 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 |
| 396 | Structural basis for the recognition of nectin-like protein-5 by the human-activating immune receptor, DNAM-1. Journal of Biological Chemistry, 2019, 294, 12534-12546. | 1.6 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 397 | Atypical TRAV1-2â^' T cell receptor recognition of the antigen-presenting molecule MR1. Journal of Biological Chemistry, 2020, 295, 14445-14457. | 1.6 | 13 |
| 398 | Transcriptional profiling of human VÎ´1 TÂcells reveals a pathogen-driven adaptive differentiation program. Cell Reports, 2022, 39, 110858. | 2.9 | 13 |
| 399 | Two distinct regions of the large serine recombinase TnpX are required for DNA binding and biological function. Molecular Microbiology, 2006, 60, 591-601. | 1.2 | 12 |
| 400 | Crystal Structure and Comparative Functional Analyses of a Mycobacterium Aldo-Keto Reductase. Journal of Molecular Biology, 2010, 398, 26-39. | 2.0 | 12 |
| 401 | Identification of Self-antigenâ€"specific T Cells Reflecting Loss of Tolerance in Autoimmune Disease Underpins Preventative Immunotherapeutic Strategies in Rheumatoid Arthritis. Rheumatic Disease Clinics of North America, 2014, 40, 735-752. | 0.8 | 12 |
| 402 | Characterization and Purification of Mouse Mucosalâ€Associated Invariant T (MAIT) Cells. Current Protocols in Immunology, 2019, 127, e89. | 3.6 | 12 |
| 403 | Cross-Reactive Donor-Specific CD8+ Tregs Efficiently Prevent Transplant Rejection. Cell Reports, 2019, 29, 4245-4255.e6. | 2.9 | 12 |
| 404 | Allelic association with ankylosing spondylitis fails to correlate with human leukocyte antigen B27 homodimer formation. Journal of Biological Chemistry, 2019, 294, 20185-20195. | 1.6 | 12 |
| 405 | A Shared TCR Bias toward an Immunogenic EBV Epitope Dominates in HLA-B*07:02â€"Expressing Individuals. Journal of Immunology, 2020, 205, 1524-1534. | 0.4 | 12 |
| 406 | The Role of the HLA Class I Î±2 Helix in Determining Ligand Hierarchy for the Killer Cell Ig-like Receptor 3DL1. Journal of Immunology, 2021, 206, 849-860. | 0.4 | 12 |
| 407 | Atypical sideways recognition of CD1a by autoreactive Î³Î´ T cell receptors. Nature Communications, 2022, 13, . | 5.8 | 12 |
| 408 | Tumors reveal their secrets to cytotoxic T cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 14649-14650. | 3.3 | 11 |
| 409 | Flow Cytometric Clinical Immunomonitoring Using Peptideâ€"MHC Class II Tetramers: Optimization of Methods and Protocol Development. Frontiers in Immunology, 2018, 9, 8. | 2.2 | 11 |
| 410 | Characterization of Human Mucosalâ€associated Invariant T (MAIT) Cells. Current Protocols in Immunology, 2019, 127, e90. | 3.6 | 11 |
| 411 | Î±-Glucuronosyl and Î±-glucosyl diacylglycerides, natural killer T cell-activating lipids from bacteria and fungi. Chemical Science, 2020, 11, 2161-2168. | 3.7 | 11 |
| 412 | The cryo-EM structure of the endocytic receptor DEC-205. Journal of Biological Chemistry, 2021, 296, 100127. | 1.6 | 11 |
| 413 | Varicella Zoster Virus Impairs Expression of the Nonclassical Major Histocompatibility Complex Class Iâ€"Related Gene Protein (MR1). Journal of Infectious Diseases, 2023, 227, 391-401. | 1.9 | 11 |
| 414 | HLA-A*11:01-restricted CD8+ T cell immunity against influenza A and influenza B viruses in Indigenous and non-Indigenous people. PLoS Pathogens, 2022, 18, e1010337. | 2.1 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 415 | Fighting infection with your MAITs. Nature Immunology, 2010, 11, 693-695. | 7.0 | 10 |
| 416 | Cloning, expression, purification and crystallographic studies of galectin-11 from domestic sheep (Ovis aries). Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 993-997. | 0.4 | 10 |
| 417 | A TCR Î²-Chain Motif Biases toward Recognition of Human CD1 Proteins. Journal of Immunology, 2019, 203, 3395-3406. | 0.4 | 10 |
| 418 | A microfluidic-SERSplatform for isolation and immuno-phenotyping of antigen specific T-cells. Sensors and Actuators B: Chemical, 2019, 284, 281-288. | 4.0 | 10 |
| 419 | Binding of a pyrimidine RNA base-mimic to SARS-CoV-2 nonstructural protein 9. Journal of Biological Chemistry, 2021, 297, 101018. | 1.6 | 10 |
| 420 | Binding Studies of the Prodrug HAO472 to SARS-Cov-2 Nsp9 and Variants. ACS Omega, 2022, 7, 7327-7332. | 1.6 | 10 |
| 421 | Amino acid substitutions around the chromophore of the chromoprotein Rtms5 influence polypeptide cleavage. Biochemical and Biophysical Research Communications, 2006, 340, 1139-1143. | 1.0 | 9 |
| 422 | Tracking the Unfolding Pathway of a Multirepeat Protein via Tryptophan Scanning. Journal of Biological Chemistry, 2006, 281, 24345-24350. | 1.6 | 9 |
| 423 | Structural and Functional Correlates of Enhanced Antiviral Immunity Generated by Heteroclitic CD8 T Cell Epitopes. Journal of Immunology, 2014, 192, 5245-5256. | 0.4 | 9 |
| 424 | Overlapping Peptides Elicit Distinct CD8+ T Cell Responses following Influenza A Virus Infection. Journal of Immunology, 2020, 205, 1731-1742. | 0.4 | 9 |
| 425 | Mucosal-Associated Invariant T Cell Effector Function Is an Intrinsic Cell Property That Can Be Augmented by the Metabolic Cofactor Î±-Ketoglutarate. Journal of Immunology, 2021, 206, 1425-1435. | 0.4 | 9 |
| 426 | Structural Insight into Natural Killer T Cell Receptor Recognition of CD1d. Advances in Experimental Medicine and Biology, 2007, 598, 20-34. | 0.8 | 9 |
| 427 | Evaluation of the role of two conserved active-site residues in beta class glutathione S-transferases. Biochemical Journal, 2000, 351 Pt 2, 341-6. | 1.7 | 9 |
| 428 | Evaluation of the role of two conserved active-site residues in Beta class glutathione S-transferases. Biochemical Journal, 2000, 351, 341. | 1.7 | 8 |
| 429 | The production, purification and crystallization of a soluble form of the nonclassical MHC HLA-G: the essential role of cobalt. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 70-73. | 0.7 | 8 |
| 430 | The 2.0 Ã... Crystal Structure of a Pocilloporin at pH 3.5: The Structural Basis for the Linkage Between Color Transition and Halide Binding. Photochemistry and Photobiology, 2006, 82, 359. | 1.3 | 8 |
| 431 | Î±Î² T Cell Receptors Come Out Swinging. Immunity, 2011, 35, 660-662. | 6.6 | 8 |
| 432 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 433 | Expression, purification, crystallization and preliminary X-ray analysis of eCGP123, an extremely stable monomeric green fluorescent protein with reversible photoswitching properties. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 1266-1268. | 0.7 | 7 |
| 434 | A Green Fluorescent Protein Containing a QFG Tri-Peptide Chromophore: Optical Properties and X-Ray Crystal Structure. PLoS ONE, 2012, 7, e47331. | 1.1 | 7 |
| 435 | Crystal structure of fuculose aldolase from the Antarctic psychrophilic yeastGlaciozyma antarcticaPI12. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 831-839. | 0.4 | 7 |
| 436 | A biased view toward celiac disease. Mucosal Immunology, 2016, 9, 583-586. | 2.7 | 7 |
| 437 | Cytomegalovirus replication is associated with enrichment of distinct Î³Î´ T cell subsets following lung transplantation: A novel therapeutic approach?. Journal of Heart and Lung Transplantation, 2020, 39, 1300-1312. | 0.3 | 7 |
| 438 | Preferential HLA-B27 Allorecognition Displayed by Multiple Cross-Reactive Antiviral CD8+ T Cell Receptors. Frontiers in Immunology, 2020, 11, 248. | 2.2 | 7 |
| 439 | Effects of a local auxiliary protein on the two-dimensional affinity of a TCR-peptide MHC interaction. Journal of Cell Science, 2020, 133, . | 1.2 | 7 |
| 440 | Structural basis of T cell receptor specificity and cross-reactivity of two HLA-DQ2.5-restricted gluten epitopes in celiac disease. Journal of Biological Chemistry, 2022, 298, 101619. | 1.6 | 7 |
| 441 | Collision-Induced Affinity Selection Mass Spectrometry for Identification of Ligands. ACS Bio & Med Chem Au, 2022, 2, 450-455. | 1.7 | 7 |
| 442 | Structural Studies on the Î±Î² T-cell Receptor. IUBMB Life, 2005, 57, 575-582. | 1.5 | 6 |
| 443 | Expression, purification, crystallization and preliminary X-ray characterization of a putative glycosyltransferase of the GT-A fold found in mycobacteria. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 428-431. | 0.7 | 6 |
| 444 | Beta-testing NKT cell self-reactivity. Nature Immunology, 2011, 12, 1135-1137. | 7.0 | 6 |
| 445 | Cloning, expression, purification and preliminary X-ray diffraction studies of a novel AB5toxin. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 912-915. | 0.7 | 6 |
| 446 | Structural bases of T cell antigen receptor recognition in celiac disease. Current Opinion in Structural Biology, 2022, 74, 102349. | 2.6 | 6 |
| 447 | HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells. PLoS Pathogens, 2020, 16, e1008714. | 2.1 | 5 |
| 448 | 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 |
| 449 | Crystal structures of pertussis toxin with NAD+ and analogs provide structural insights into the mechanism of its cytosolic ADP-ribosylation activity. Journal of Biological Chemistry, 2022, 298, 101892. | 1.6 | 5 |
| 450 | Preliminary X-ray crystallographic studies of a newly defined human theta-class glutathione transferase. Acta Crystallographica Section D: Biological Crystallography, 1998, 54, 148-150. | 2.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 451 | Dichloromethane mediatedin vivoselection and functional characterization of rat glutathioneS-transferase theta 1-1 variants. FEBS Journal, 2001, 268, 4001-4010. | 0.2 | 4 |
| 452 | The production and purification of the human T-cell receptors, the CD3âˆŠÎ³ and CD3âˆŠÎ´ heterodimers: complex formation and crystallization with OKT3, a therapeutic monoclonal antibody. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1425-1428. | 2.5 | 4 |
| 453 | Expression, purification, crystallization and preliminary X-ray diffraction analysis of an essential lipoprotein implicated in cell-wall biosynthesis inMycobacteria. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 1081-1083. | 0.7 | 4 |
| 454 | The oligomeric assembly of galectin-11 is critical for anti-parasitic activity in sheep (Ovis aries). Communications Biology, 2020, 3, 464. | 2.0 | 4 |
| 455 | Comparative three-dimensional structure of cholesterol-dependent cytolysins. , 2006, , 659-670. | | 4 |
| 456 | Crystallization and preliminary X-ray analysis of a bacterial glutathione transferase. Acta Crystallographica Section D: Biological Crystallography, 1996, 52, 189-191. | 2.5 | 3 |
| 457 | Valine 10 May Act as a Driver for Product Release from the Active Site of Human Glutathione Transferase P1-1â€‚â€¡. Biochemistry, 2000, 39, 15961-15970. | 1.2 | 3 |
| 458 | Managing and mining protein crystallization data. Proteins: Structure, Function and Bioinformatics, 2005, 62, 4-7. | 1.5 | 3 |
| 459 | Human Leukocyte Antigen Class I-Restricted Activation of CD8+ T Cells Provides the Immunogenetic Basis of a Systemic Drug Hypersensitivity. Immunity, 2008, 29, 165. | 6.6 | 3 |
| 460 | Insight into the basis of autonomous immunoreceptor activation. Trends in Immunology, 2011, 32, 165-170. | 2.9 | 3 |
| 461 | NKT cells: the smoking gun in fungal-induced asthma?. Nature Medicine, 2013, 19, 1210-1211. | 15.2 | 3 |
| 462 | A structural characterization of the isoniazidMycobacterium tuberculosisdrug target, Rv2971, in its unliganded form. Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 572-577. | 0.4 | 3 |
| 463 | A structural and functional investigation of a novel protein fromMycobacterium smegmatisimplicated in mycobacterial macrophage survivability. Acta Crystallographica Section D: Biological Crystallography, 2014, 70, 2264-2276. | 2.5 | 3 |
| 464 | Tetramer Immunization and Selection Followed by CELLISA Screening to Generate Monoclonal Antibodies against the Mouse Cytomegalovirus m12 Immunoevasin. Journal of Immunology, 2020, 205, 1709-1717. | 0.4 | 3 |
| 465 | Elucidating the Motif for CpG Oligonucleotide Binding to the Dendritic Cell Receptor DEC-205 Leads to Improved Adjuvants for Liver-Resident Memory. Journal of Immunology, 2021, 207, 1836-1847. | 0.4 | 3 |
| 466 | Evaluation of a fit-for-purpose assay to monitor antigen-specific functional CD4+ T-cell subpopulations in rheumatoid arthritis using flow cytometryâ€“based peptide-MHC class-II tetramer staining. Clinical and Experimental Immunology, 2022, 207, 72-83. | 1.1 | 3 |
| 467 | Overcoming the LAG3 phase problem. Nature Immunology, 2022, 23, 993-995. | 7.0 | 3 |
| 468 | Dual TCR-Î± Expression on Mucosal-Associated Invariant T Cells as a Potential Confounder of TCR Interpretation. Journal of Immunology, 2022, 208, 1389-1395. | 0.4 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 469 | Alloreactivity. Methods in Molecular Biology, 2013, 1034, 3-39. | 0.4 | 1 |
| 470 | Cloning, expression, purification and preliminary X-ray diffraction studies of a mycobacterial protein implicated in bacterial survival in macrophages. Acta Crystallographica Section F: Structural Biology Communications, 2013, 69, 566-569. | 0.7 | 1 |
| 471 | Cutting Edge: Unconventional CD8<sup>+</sup> T Cell Recognition of a Naturally Occurring HLA-A*02:01â€“Restricted 20mer Epitope. Journal of Immunology, 2022, , ji2101208. | 0.4 | 1 |
| 472 | ORGAN SPECIFICITY OF CROSS-REACTIVE ALLOGENEIC RESPONSES BY VIRAL SPECIFIC MEMORY T-CELLS. Transplantation, 2010, 90, 239. | 0.5 | 0 |
| 473 | How opposites attract. Immunology and Cell Biology, 2011, 89, 163-164. | 1.0 | 0 |
| 474 | Immune self-reactivity triggered by drug-modified human leukocyte antigen-peptide presentation. Molecular Immunology, 2012, 51, 19. | 1.0 | 0 |
| 475 | A structural basis for selection of the mucosal associated invariant T cell receptor in MR1-restricted antigen recognition. Molecular Immunology, 2012, 51, 25. | 1.0 | 0 |
| 476 | Shedding light on MHC class I antigen loading: a UV-labile peptide ligand approach. Molecular Immunology, 2012, 51, 33. | 1.0 | 0 |
| 477 | Missense single nucleotide polymorphisms in the human T cell receptor loci control variable gene usage in the T cell repertoire. British Journal of Haematology, 2014, 166, 148-152. | 1.2 | 0 |
| 478 | OR26 BW4 + HLA class I and KIR3DL1 allotypic pairing influences licensing and effector function of KIR3DL1 + NK cells. Human Immunology, 2017, 78, 25. | 1.2 | 0 |
| 479 | Editorial. Seminars in Cell and Developmental Biology, 2018, 84, 1. | 2.3 | 0 |
| 480 | Reply to Roudier et al.: HLA-DRB1 polymorphism, anti-citrullinated protein antibodies, and rheumatoid arthritis. Journal of Biological Chemistry, 2018, 293, 7039. | 1.6 | 0 |
| 481 | Reply:. Hepatology, 2021, 73, 1239-1239. | 3.6 | 0 |
| 482 | Katharina Gaus 1972â€“2021. Nature Immunology, 2021, 22, 535-536. | 7.0 | 0 |
| 483 | The human pi-class glutathione S-transferase: a target for structure-based drug design. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C112-C112. | 0.3 | 0 |
| 484 | HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells. , 2020, 16, e1008714. | | 0 |
| 485 | HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells. , 2020, 16, e1008714. | | 0 |
| 486 | HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells. , 2020, 16, e1008714. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 487 | HLA-B*27:05 alters immunodominance hierarchy of universal influenza-specific CD8+ T cells. , 2020, 16, e1008714. | | 0 |