

# Luc Teyton

## List of Publications by Citations

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70  
papers

9,395  
citations

37  
h-index

96  
g-index

114  
ext. papers

10,070  
ext. citations

16.2  
avg, IF

5.66  
L-index

#	Paper	IF	Citations
70	The biology of NKT cells. <i>Annual Review of Immunology</i> , <b>2007</b> , 25, 297-336	34.7	1704
69	Exogenous and endogenous glycolipid antigens activate NKT cells during microbial infections. <i>Nature</i> , <b>2005</b> , 434, 525-9	50.4	930
68	Lysosomal glycosphingolipid recognition by NKT cells. <i>Science</i> , <b>2004</b> , 306, 1786-9	33.3	817
67	Structural basis of plasticity in T cell receptor recognition of a self peptide-MHC antigen. <i>Science</i> , <b>1998</b> , 279, 1166-72	33.3	595
66	Differential regulation of antiviral T-cell immunity results in stable CD8+ but declining CD4+ T-cell memory. <i>Nature Medicine</i> , <b>2001</b> , 7, 913-9	50.5	493
65	Intracellular transport of class II MHC molecules directed by invariant chain. <i>Nature</i> , <b>1990</b> , 348, 600-5	50.4	484
64	Structural basis of T cell recognition. <i>Annual Review of Immunology</i> , <b>1999</b> , 17, 369-97	34.7	427
63	Editing of CD1d-bound lipid antigens by endosomal lipid transfer proteins. <i>Science</i> , <b>2004</b> , 303, 523-7	33.3	282
62	Invariant chain distinguishes between the exogenous and endogenous antigen presentation pathways. <i>Nature</i> , <b>1990</b> , 348, 39-44	50.4	275
61	Structure and function of a potent agonist for the semi-invariant natural killer T cell receptor. <i>Nature Immunology</i> , <b>2005</b> , 6, 810-8	19.1	267
60	A structural framework for deciphering the link between I-Ag7 and autoimmune diabetes. <i>Science</i> , <b>2000</b> , 288, 505-11	33.3	225
59	Crystal structure of CD1a in complex with a sulfatide self antigen at a resolution of 2.15 Å. <i>Nature Immunology</i> , <b>2003</b> , 4, 808-15	19.1	201
58	Effects of lipid chain lengths in alpha-galactosylceramides on cytokine release by natural killer T cells. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 13602-3	16.4	177
57	The identification of the endogenous ligands of natural killer T cells reveals the presence of mammalian linked glycosylceramides. <i>Immunity</i> , <b>2014</b> , 41, 543-54	32.3	170
56	Multiple defects in antigen presentation and T cell development by mice expressing cytoplasmic tail-truncated CD1d. <i>Nature Immunology</i> , <b>2002</b> , 3, 55-60	19.1	165
55	A modified alpha-galactosyl ceramide for staining and stimulating natural killer T cells. <i>Journal of Immunological Methods</i> , <b>2006</b> , 312, 34-9	2.5	155
54	The mouse CD1d-restricted repertoire is dominated by a few autoreactive T cell receptor families. <i>Journal of Experimental Medicine</i> , <b>2001</b> , 193, 893-904	16.6	150

53	Glycolipids for natural killer T cells. <i>Chemical Society Reviews</i> , <b>2006</b> , 35, 771-9	58.5	113
52	The I-Ag7 MHC class II molecule linked to murine diabetes is a promiscuous peptide binder. <i>Journal of Immunology</i> , <b>2000</b> , 165, 3214-25	5.3	111
51	Thymocyte expression of cathepsin L is essential for NKT cell development. <i>Nature Immunology</i> , <b>2002</b> , 3, 1069-74	19.1	95
50	Synthesis and NKT cell stimulating properties of fluorophore- and biotin-appended 6"-amino-6"-deoxy-galactosylceramides. <i>Organic Letters</i> , <b>2002</b> , 4, 1267-70	6.2	95
49	Crystal structures of mouse CD1d-iGb3 complex and its cognate Valpha14 T cell receptor suggest a model for dual recognition of foreign and self glycolipids. <i>Journal of Molecular Biology</i> , <b>2008</b> , 377, 1104-16	6.5	88
48	Mechanisms imposing the Vbeta bias of Valpha14 natural killer T cells and consequences for microbial glycolipid recognition. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 1197-207	16.6	85
47	The paradox of immune molecular recognition of alpha-galactosylceramide: low affinity, low specificity for CD1d, high affinity for alpha beta TCRs. <i>Journal of Immunology</i> , <b>2003</b> , 170, 4673-82	5.3	84
46	The Niemann-Pick type C2 protein loads isoglobotrihexosylceramide onto CD1d molecules and contributes to the thymic selection of NKT cells. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 841-52	16.6	81
45	Susceptible MHC alleles, not background genes, select an autoimmune T cell reactivity. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 112, 902-14	15.9	79
44	The role of HLA-DQ8 beta57 polymorphism in the anti-gluten T-cell response in coeliac disease. <i>Nature</i> , <b>2008</b> , 456, 534-8	50.4	78
43	Crystal structure of the murine NK cell-activating receptor NKG2D at 1.95 A. <i>Nature Immunology</i> , <b>2001</b> , 2, 248-54	19.1	75
42	The endothelial protein C receptor supports tissue factor ternary coagulation initiation complex signaling through protease-activated receptors. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 5756-67	5.4	70
41	Cutting edge: impaired glycosphingolipid trafficking and NKT cell development in mice lacking Niemann-Pick type C1 protein. <i>Journal of Immunology</i> , <b>2006</b> , 177, 26-30	5.3	66
40	PLD3 and PLD4 are single-stranded acid exonucleases that regulate endosomal nucleic-acid sensing. <i>Nature Immunology</i> , <b>2018</b> , 19, 942-953	19.1	56
39	Detection of low-avidity CD4+ T cells using recombinant artificial APC: following the antiovalbumin immune response. <i>Journal of Immunology</i> , <b>2003</b> , 170, 123-31	5.3	50
38	T cells control the generation of nanomolar-affinity anti-glycan antibodies. <i>Journal of Clinical Investigation</i> , <b>2017</b> , 127, 1491-1504	15.9	47
37	New design of MHC class II tetramers to accommodate fundamental principles of antigen presentation. <i>Journal of Immunology</i> , <b>2009</b> , 183, 7949-57	5.3	46
36	Restricting nonclassical MHC genes coevolve with TRAV genes used by innate-like T cells in mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E2983-92	11.5	45

35	A distal effect of microsomal triglyceride transfer protein deficiency on the lysosomal recycling of CD1d. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 921-8	16.6	43
34	Scavenger receptors target glycolipids for natural killer T cell activation. <i>Journal of Clinical Investigation</i> , <b>2012</b> , 122, 3943-54	15.9	40
33	Endogenous ligands of natural killer T cells are alpha-linked glycosylceramides. <i>Molecular Immunology</i> , <b>2015</b> , 68, 94-7	4.3	34
32	Efficacy of ABX196, a new NKT agonist, in prophylactic human vaccination. <i>Vaccine</i> , <b>2014</b> , 32, 6138-45	4.1	33
31	The diabetogenic mouse MHC class II molecule I-Ag7 is endowed with a switch that modulates TCR affinity. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 1578-90	15.9	31
30	Effects of complementarity determining region mutations on the affinity of an alpha/beta T cell receptor: measuring the energy associated with CD4/CD8 repertoire skewing. <i>Journal of Experimental Medicine</i> , <b>1999</b> , 189, 461-70	16.6	28
29	The processing and presentation of lipids and glycolipids to the immune system. <i>Immunological Reviews</i> , <b>2016</b> , 272, 109-19	11.3	28
28	Probing the activation requirements for naive CD8+ T cells with Drosophila cell transfectants as antigen presenting cells. <i>Immunological Reviews</i> , <b>1998</b> , 165, 249-65	11.3	26
27	Corrugoside, a new immunostimulatory alpha-galactoglycosphingolipid from the marine sponge <i>Axinella corrugata</i> . <i>Bioorganic and Medicinal Chemistry</i> , <b>2008</b> , 16, 2077-85	3.4	24
26	Lipid presentation by the protein C receptor links coagulation with autoimmunity. <i>Science</i> , <b>2021</b> , 371,	33.3	23
25	Role of a selecting ligand in shaping the murine TCR repertoire. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 1889-1894	11.5	22
24	Fatty acid amide hydrolase shapes NKT cell responses by influencing the serum transport of lipid antigen in mice. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 1873-84	15.9	22
23	Data Streaming for Metabolomics: Accelerating Data Processing and Analysis from Days to Minutes. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1254-1259	7.8	20
22	Position B7 of I-A controls early anti-insulin responses in NOD mice, linking an MHC susceptibility allele to type 1 diabetes onset. <i>Science Immunology</i> , <b>2019</b> , 4,	28	18
21	T-cell receptor peptide-MHC interactions: biological lessons from structural studies. <i>Current Opinion in Biotechnology</i> , <b>1998</b> , 9, 338-43	11.4	17
20	Unravelling the structural complexity of glycolipids with cryogenic infrared spectroscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 1201	17.4	16
19	Rapid CLIP dissociation from MHC II promotes an unusual antigen presentation pathway in autoimmunity. <i>Journal of Experimental Medicine</i> , <b>2018</b> , 215, 2617-2635	16.6	13
18	PLA2G1B is involved in CD4 anergy and CD4 lymphopenia in HIV-infected patients. <i>Journal of Clinical Investigation</i> , <b>2020</b> , 130, 2872-2887	15.9	12

17	Role of lipid transfer proteins in loading CD1 antigen-presenting molecules. <i>Journal of Lipid Research</i> , <b>2018</b> , 59, 1367-1373	6.3	10
16	Transport and uptake of immunogenic lipids. <i>Molecular Immunology</i> , <b>2013</b> , 55, 179-81	4.3	9
15	New Directions for Natural Killer T Cells in the Immunotherapy of Cancer. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 1480	8.4	7
14	Pathogenic lipid-binding antiphospholipid antibodies are associated with severity of COVID-19. <i>Journal of Thrombosis and Haemostasis</i> , <b>2021</b> , 19, 2335-2347	15.4	6
13	Function and dysfunction of T cell receptor: structural studies. <i>Immunologic Research</i> , <b>2000</b> , 21, 325-30	4.3	5
12	Using single cell analysis for translational studies in immune mediated diseases: Opportunities and challenges. <i>Molecular Immunology</i> , <b>2018</b> , 103, 191-199	4.3	5
11	The saga of MHC-bound peptides: a renaissance for antigen presentation?. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 3164-6	15.9	4
10	Gene Profiling and T Cell Receptor Sequencing from Antigen-Specific CD4 T Cells. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1712, 217-238	1.4	4
9	Single-Cell Analysis of CD4 T Cells in Type 1 Diabetes: From Mouse to Man, How to Perform Mechanistic Studies. <i>Diabetes</i> , <b>2019</b> , 68, 1886-1891	0.9	3
8	High-affinity anti-glycan antibodies: challenges and strategies. <i>Current Opinion in Immunology</i> , <b>2019</b> , 59, 65-71	7.8	3
7	Intestinal Delivery of Proinsulin and IL-10 via Combined With Low-Dose Anti-CD3 Restores Tolerance Outside the Window of Acute Type 1 Diabetes Diagnosis. <i>Frontiers in Immunology</i> , <b>2020</b> , 11, 1103	8.4	3
6	Visualizing skin T cell antigen expression during wound repair. <i>FASEB Journal</i> , <b>2008</b> , 22, 1065.35	0.9	1
5	Chromogranin A Deficiency Confers Protection From Autoimmune Diabetes via Multiple Mechanisms. <i>Diabetes</i> , <b>2021</b> , 70, 2860-2870	0.9	1
4	Glycolipids as Antigens for Semi-Invariant Natural Killer T Cells <b>2021</b> , 470-484		1
3	The X-ray Structure of IAd in Complex with a Self Peptide Offers New Insights Into the Basis of Autoimmune Gastritis (AIG). <i>FASEB Journal</i> , <b>2008</b> , 22, 667.4	0.9	
2	Natural killer T cell recognition of lipid antigens. <i>F1000 Biology Reports</i> , <b>2009</b> , 1, 97		
1	The Endothelial Protein C Receptor Supports TF-VIIa-Xa Ternary Complex Signaling through Protease-Activated Receptors.. <i>Blood</i> , <b>2010</b> , 116, 1144-1144	2.2	