Travis Beddoe

List of Publications by Year in descending order

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116 papers

6,841 citations

39 h-index 80 g-index

126 all docs

126 docs citations

126 times ranked

8820 citing authors

#	Article	IF	CITATIONS
1	AB5 subtilase cytotoxin inactivates the endoplasmic reticulum chaperone BiP. Nature, 2006, 443, 548-552.	13.7	351
2	Butyrophilin 3A1 binds phosphorylated antigens and stimulates human $\hat{I}^3\hat{I}$ T cells. Nature Immunology, 2013, 14, 908-916.	7.0	351
3	T cell receptor recognition of a 'super-bulged' major histocompatibility complex class l–bound peptide. Nature Immunology, 2005, 6, 1114-1122.	7.0	280
4	Recognition of vitamin B metabolites by mucosal-associated invariant T cells. Nature Communications, 2013, 4, 2142.	5.8	261
5	CD1d-lipid antigen recognition by the $\hat{I}^3\hat{I}^*$ TCR. Nature Immunology, 2013, 14, 1137-1145.	7.0	256
6	Structural basis of a unique interferon- \hat{l}^2 signaling axis mediated via the receptor IFNAR1. Nature Immunology, 2013, 14, 901-907.	7.0	255
7	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
8	Current Threat of Triclabendazole Resistance in Fasciola hepatica. Trends in Parasitology, 2016, 32, 458-469.	1.5	233
9	Incorporation of a non-human glycan mediates human susceptibility to a bacterial toxin. Nature, 2008, 456, 648-652.	13.7	217
10	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
11	Structure, biological functions and applications of the AB5 toxins. Trends in Biochemical Sciences, 2010, 35, 411-418.	3.7	204
12	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
13	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
14	Killer cell immunoglobulin-like receptor 3DL1-mediated recognition of human leukocyte antigen B. Nature, 2011, 479, 401-405.	13.7	174
15	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
16	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
17	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
18	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

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19	The 2.2 Ã Crystal Structure of a Pocilloporin Pigment Reveals a Nonplanar Chromophore Conformation. Structure, 2003, 11, 275-284.	1.6	127
20	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
21	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
22	Antigen Ligation Triggers a Conformational Change within the Constant Domain of the $\hat{l}\pm\hat{l}^2$ T Cell Receptor. Immunity, 2009, 30, 777-788.	6.6	111
23	Recognition of \hat{l}^2 -linked self glycolipids mediated by natural killer T cell antigen receptors. Nature Immunology, 2011, 12, 827-833.	7.0	111
24	Structural basis for a major histocompatibility complex class Ib–restricted T cell response. Nature Immunology, 2006, 7, 256-264.	7.0	109
25	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
26	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
27	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
28	Subtle Changes in Peptide Conformation Profoundly Affect Recognition of the Non-Classical MHC Class I Molecule HLA-E by the CD94–NKG2 Natural Killer Cell Receptors. Journal of Molecular Biology, 2008, 377, 1297-1303.	2.0	88
29	The nascent polypeptide-associated complex (NAC) promotes interaction of ribosomes with the mitochondrial surface in vivo. FEBS Letters, 2002, 516, 213-216.	1.3	87
30	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
31	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
32	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
33	The structural basis for autonomous dimerization of the pre-T-cell antigen receptor. Nature, 2010, 467, 844-848.	13.7	68
34	NKT TCR Recognition of CD1d-α- <i>C</i> -Galactosylceramide. Journal of Immunology, 2011, 187, 4705-4713.	0.4	62
35	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
36	Delivery of nascent polypeptides to the mitochondrial surface. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1592, 35-39.	1.9	58

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37	Enzymatic Properties of an Ecto-nucleoside Triphosphate Diphosphohydrolase from Legionella pneumophila. Journal of Biological Chemistry, 2008, 283, 12909-12918.	1.6	54
38	Crystal Structure of LipL32, the Most Abundant Surface Protein of Pathogenic Leptospira spp Journal of Molecular Biology, 2009, 387, 1229-1238.	2.0	53
39	Disparate thermodynamics governing T cell receptor-MHC-l 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
40	A mortise–tenon joint in the transmembrane domain modulates autotransporter assembly into bacterial outer membranes. Nature Communications, 2014, 5, 4239.	5.8	46
41	Targeting of a natural killer cell receptor family by a viral immunoevasin. Nature Immunology, 2013, 14, 699-705.	7.0	41
42	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
43	The Endoplasmic Reticulum-Mitochondrion Tether ERMES Orchestrates Fungal Immune Evasion, Illuminating Inflammasome Responses to Hyphal Signals. MSphere, 2016, 1 , .	1.3	39
44	Structure and Function of the Oxidoreductase DsbA1 from Neisseria meningitidis. Journal of Molecular Biology, 2009, 394, 931-943.	2.0	36
45	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
46	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
47	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
48	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
49	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
50	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
51	Crystal Structure of a UDP-glucose-specific Glycosyltransferase from a Mycobacterium Species. Journal of Biological Chemistry, 2008, 283, 27881-27890.	1.6	23
52	Structural and Biochemical Characterization of the Oxidoreductase NmDsbA3 from Neisseria meningitidis. Journal of Biological Chemistry, 2008, 283, 32452-32461.	1.6	23
53	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
54	Crocodilepox Virus Evolutionary Genomics Supports Observed Poxvirus Infection Dynamics on Saltwater Crocodile (Crocodylus porosus). Viruses, 2019, 11, 1116.	1.5	23

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55	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
56	Determination of the prevalence and intensity of Fasciola hepatica infection in dairy cattle from six irrigation regions of Victoria, South-eastern Australia, further identifying significant triclabendazole resistance on three properties. Veterinary Parasitology, 2020, 277, 109019.	0.7	22
57	Structural Basis of Subtilase Cytotoxin SubAB Assembly. Journal of Biological Chemistry, 2013, 288, 27505-27516.	1.6	21
58	Galectin-11: A novel host mediator targeting specific stages of the gastrointestinal nematode parasite, Haemonchus contortus. International Journal for Parasitology, 2015, 45, 791-796.	1.3	20
59	A novel ex vivo immunoproteomic approach characterising Fasciola hepatica tegumental antigens identified using immune antibody from resistant sheep. International Journal for Parasitology, 2017, 47, 555-567.	1.3	20
60	A conserved energetic footprint underpins recognition of human leukocyte antigen-E by two distinct $\hat{l}\pm\hat{l}^2$ T cell receptors. Journal of Biological Chemistry, 2017, 292, 21149-21158.	1.6	20
61	Development of a multiplex quantitative PCR assay for detection and quantification of DNA from Fasciola hepatica and the intermediate snail host, Austropeplea tomentosa, in water samples. Veterinary Parasitology, 2018, 259, 17-24.	0.7	20
62	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
63	The B Subunit of an AB5 Toxin Produced by Salmonella enterica Serovar Typhi Up-Regulates Chemokines, Cytokines, and Adhesion Molecules in Human Macrophage, Colonic Epithelial, and Brain Microvascular Endothelial Cell Lines. Infection and Immunity, 2013, 81, 673-683.	1.0	19
64	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
65	The development and deployment of a field-based loop mediated isothermal amplification assay for virulent Dichelobacter nodosus detection on Australian sheep. PLoS ONE, 2018, 13, e0204310.	1.1	14
66	The RNA-Dependent-RNA Polymerase, an Emerging Antiviral Drug Target for the Hendra Virus. Current Drug Targets, 2014, 15, 103-113.	1.0	13
67	Crystal Structure and Comparative Functional Analyses of a Mycobacterium Aldo-Keto Reductase. Journal of Molecular Biology, 2010, 398, 26-39.	2.0	12
68	First insight into CD59-like molecules of adult Fasciola hepatica. Experimental Parasitology, 2014, 144, 57-64.	0.5	12
69	Assessment of a rtPCR for the detection of virulent and benign Dichelobacter nodosus, the causative agent of ovine footrot, in Australia. BMC Veterinary Research, 2018, 14, 252.	0.7	12
70	Towards understanding the liver fluke transmission dynamics on farms: Detection of liver fluke transmitting snail and liver fluke-specific environmental DNA in water samples from an irrigated dairy farm in Southeast Australia. Veterinary Parasitology, 2021, 291, 109373.	0.7	12
71	Efficient production of recombinant IL-21 proteins for pre-clinical studies by a two-step dilution refolding method. International Immunopharmacology, 2013, 16, 376-381.	1.7	11
72	Multiple ecto-nucleoside triphosphate diphosphohydrolases facilitate intracellular replication of Legionella pneumophila. Biochemical Journal, 2014, 462, 279-289.	1.7	11

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73	Current Status for Controlling the Overlooked Caprine Fasciolosis. Animals, 2021, 11, 1819.	1.0	11
74	Evaluation of the Role of Galectins in Parasite Immunity. Methods in Molecular Biology, 2015, 1207, 371-395.	0.4	11
75	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
76	Thermotolerance and molecular chaperone function of an SGT1-like protein from the psychrophilic yeast, Glaciozyma antarctica. Cell Stress and Chaperones, 2016, 21, 707-715.	1.2	10
77	Direct serogrouping of Dichelobacter nodosus from Victorian farms using conventional multiplex polymerase chain reaction. BMC Research Notes, 2018, 11, 108.	0.6	10
78	Optimization of a Loop Mediated Isothermal Amplification (LAMP) Assay for In-Field Detection of Dichelobacter nodosus With aprV2 (VDN LAMP) in Victorian Sheep Flocks. Frontiers in Veterinary Science, 2019, 6, 67.	0.9	10
79	The mitochondrial protein targeting suppressor (mts1) mutation maps to the mRNA-binding domain of Npl3p and affects translation on cytoplasmic polysomes. Molecular Microbiology, 2002, 35, 1277-1285.	1.2	9
80	Tracking the Unfolding Pathway of a Multirepeat Protein via Tryptophan Scanning. Journal of Biological Chemistry, 2006, 281, 24345-24350.	1.6	9
81	Molecular characterisation and vaccine efficacy of two novel developmentally regulated surface tegument proteins of Fasciola hepatica. Veterinary Parasitology, 2020, 286, 109244.	0.7	9
82	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
83	Isothermal Nucleic Acid Amplification Technologies for the Detection of Equine Viral Pathogens. Animals, 2021, 11, 2150.	1.0	8
84	Crystal structure of fuculose aldolase from the Antarctic psychrophilic yeast <i>Glaciozyma antarctica</i> PI12. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 831-839.	0.4	7
85	Proteomic identification of galectin-11 and -14 ligands from Fasciola hepatica. International Journal for Parasitology, 2019, 49, 921-932.	1.3	7
86	Proteomic identification of galectin-11 and 14 ligands from <i>Haemonchus contortus</i> . PeerJ, 2018, 6, e4510.	0.9	7
87	Evaluation of Immunogenicity and Efficacy of Fasciola hepatica Tetraspanin 2 (TSP2) Fused to E. coli Heat-Labile Enterotoxin B Subunit LTB Adjuvant Following Intranasal Vaccination of Cattle. Vaccines, 2021, 9, 1213.	2.1	7
88	OZITX, a pertussis toxin-like protein for occluding inhibitory G protein signalling including Gαz. Communications Biology, 2022, 5, 256.	2.0	7
89	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
90	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

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91	Vacuolation Activity and Intracellular Trafficking of ArtB, the Binding Subunit of an AB5 Toxin Produced by Salmonella enterica Serovar Typhi. Infection and Immunity, 2017, 85, .	1.0	6
92	Analysis of daily variation in the release of faecal eggs and coproantigen of Fasciola hepatica in naturally infected dairy cattle and the impact on diagnostic test sensitivity. Veterinary Parasitology, 2021, 298, 109504.	0.7	6
93	The Role of Anti-Viral Effector Molecules in Mollusc Hemolymph. Biomolecules, 2022, 12, 345.	1.8	6
94	Sialoglycan-binding patterns of bacterial AB5 toxin B subunits correlate with host range and toxicity, indicating evolution independent of A subunits. Journal of Biological Chemistry, 2022, 298, 101900.	1.6	6
95	The protein encoded by theMFT1gene is a targeting factor for mitochondrial precursor proteins, and not a core ribosomal protein. FEBS Letters, 1997, 407, 220-224.	1.3	5
96	The Consequences of Stigma for Knowledge Production: Sheep Producers' Attitudes to Footrot Diagnostics and Control in Australia. Frontiers in Veterinary Science, 2020, 7, 354.	0.9	5
97	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
98	Expression, purification, crystallization and preliminary X-ray diffraction analysis of an essential lipoprotein implicated in cell-wall biosynthesis in Mycobacteria. Acta Crystallographica Section F: Structural Biology Communications, 2005, 61, 1081-1083.	0.7	4
99	The oligomeric assembly of galectin-11 is critical for anti-parasitic activity in sheep (Ovis aries). Communications Biology, 2020, 3, 464.	2.0	4
100	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
101	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
102	Evaluation of loop-mediated isothermal amplification (LAMP) assay for detection of aprV2 positive Dichelobacter nodosus in-field by secondary users. BMC Research Notes, 2019, 12, 534.	0.6	3
103	Current Status of Loop-Mediated Isothermal Amplification Technologies for the Detection of Honey Bee Pathogens. Frontiers in Veterinary Science, 2021, 8, 659683.	0.9	3
104	Fasciola hepatica Control Practices on a Sample of Dairy Farms in Victoria, Australia. Frontiers in Veterinary Science, 2021, 8, 669117.	0.9	3
105	Bovine Natural Antibody Relationships to Specific Antibodies and Fasciola hepatica Burdens after Experimental Infection and Vaccination with Glutathione S-Transferase. Veterinary Sciences, 2022, 9, 58.	0.6	3
106	Cloning, expression and crystallisation of SGT1 co-chaperone protein from Glaciozyma antarctica. AIP Conference Proceedings, 2013, , .	0.3	2
107	Teladorsagia Circumcincta Galectin-Mucosal Interactome in Sheep. Veterinary Sciences, 2021, 8, 216.	0.6	2
108	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

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109	Evaluation of the Role of Galectins in Parasite Immunity. Methods in Molecular Biology, 2022, 2442, 475-515.	0.4	1
110	Development of molecular detection methods of Bovicola ovis from sheep fleece. Parasitology Research, 2022, 121, 1597.	0.6	1
111	Ribosome binding to the surface of mitochondria: mechanisms and consequences. Biochemical Society Transactions, 2000, 28, A457-A457.	1.6	O
112	How opposites attract. Immunology and Cell Biology, 2011, 89, 163-164.	1.0	0
113	Air sampling for detection of infectious laryngotracheitis (ILT) in commercial poultry flocks. BMC Research Notes, 2020, 13, 556.	0.6	O
114	CD1d lipid-antigen recognition by the $\hat{I}^3\hat{I}^*$ TCR. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C244-C244.	0.0	0
115	Rapid Evolution of Bacterial Exotoxin B Subunits Independent of A subunits: Sialic Acid Binding Preferences Correlate with Host Range and Intrinsic Toxicity. FASEB Journal, 2018, 32, 673.3.	0.2	0
116	The Biomolecules Journal Club: Highlights on Recent Papers—1. Biomolecules, 2022, 12, 86.	1.8	0