# Brian D Evavold

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 59<br>papers | 4,488<br>citations | 159358<br>30<br>h-index | 133063<br>59<br>g-index |
| 60<br>all docs | 60<br>docs citations | 60<br>times ranked | 4588<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The magnitude of LFA-1/ICAM-1 forces fine-tune TCR-triggered T cell activation. Science Advances, 2022, 8, eabg4485. | 4.7 | 36 |
| 2 | Tuning T cell receptor sensitivity through catch bond engineering. Science, 2022, 376, eabl5282. | 6.0 | 53 |
| 3 | Localized hydrogel delivery of dendritic cells for attenuation of multiple sclerosis in a murine model. Journal of Biomedical Materials Research - Part A, 2021, 109, 1247-1255. | 2.1 | 11 |
| 4 | MHC class II tetramers engineered for enhanced binding to CD4 improve detection of antigen-specific T cells. Nature Biotechnology, 2021, 39, 943-948. | 9.4 | 14 |
| 5 | Canonical T cell receptor docking on peptideâ€“MHC is essential for T cell signaling. Science, 2021, 372, . | 6.0 | 53 |
| 6 | Mechanobiology of T Cell Activation: To Catch a Bond. Annual Review of Cell and Developmental Biology, 2021, 37, 65-87. | 4.0 | 27 |
| 7 | Targeting transcriptional coregulator OCA-B/Pou2af1 blocks activated autoreactive T cells in the pancreas and type 1 diabetes. Journal of Experimental Medicine, 2021, 218, . | 4.2 | 15 |
| 8 | A Critical Insulin TCR Contact Residue Selects High-Affinity and Pathogenic Insulin-Specific T Cells. Diabetes, 2020, 69, 392-400. | 0.3 | 6 |
| 9 | An Engineered T Cell Receptor Variant Realizes the Limits of Functional Binding Modes. Biochemistry, 2020, 59, 4163-4175. | 1.2 | 6 |
| 10 | IL-21 from high-affinity CD4 T cells drives differentiation of brain-resident CD8 T cells during persistent viral infection. Science Immunology, 2020, 5, . | 5.6 | 43 |
| 11 | Relationship of 2D Affinity to T Cell Functional Outcomes. International Journal of Molecular Sciences, 2020, 21, 7969. | 1.8 | 5 |
| 12 | CD45RB Status of CD8+ T Cell Memory Defines T Cell Receptor Affinity and Persistence. Cell Reports, 2020, 30, 1282-1291.e5. | 2.9 | 17 |
| 13 | A Hybrid Insulin Epitope Maintains High 2D Affinity for Diabetogenic T Cells in the Periphery. Diabetes, 2020, 69, 381-391. | 0.3 | 12 |
| 14 | Discriminative T cell recognition of cross-reactive islet-antigens is associated with HLA-DQ8 transdimerâ€“mediated autoimmune diabetes. Science Advances, 2019, 5, eaaw9336. | 4.7 | 15 |
| 15 | Understanding TCR affinity, antigen specificity, and cross-reactivity to improve TCR gene-modified T cells for cancer immunotherapy. Cancer Immunology, Immunotherapy, 2019, 68, 1881-1889. | 2.0 | 25 |
| 16 | Mechano-regulation of Peptide-MHC Class I Conformations Determines TCR Antigen Recognition. Molecular Cell, 2019, 73, 1015-1027.e7. | 4.5 | 95 |
| 17 | PD-1 Dynamically Regulates Inflammation and Development of Brain-Resident Memory CD8 T Cells During Persistent Viral Encephalitis. Frontiers in Immunology, 2019, 10, 783. | 2.2 | 33 |
| 18 | A TCR mechanotransduction signaling loop induces negative selection in the thymus. Nature Immunology, 2018, 19, 1379-1390. | 7.0 | 112 |

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|---|---|---|---|
| 19 | 2D Kinetic Analysis of TCR and CD8 Coreceptor for LCMV GP33 Epitopes. Frontiers in Immunology, 2018, 9, 2348. | 2.2 | 24 |
| 20 | Differential IL-2 expression defines developmental fates of follicular versus nonfollicular helper T cells. Science, 2018, 361, . | 6.0 | 173 |
| 21 | CD4 T Cell Affinity Diversity Is Equally Maintained during Acute and Chronic Infection. Journal of Immunology, 2018, 201, 19-30. | 0.4 | 19 |
| 22 | Isolation of a Structural Mechanism for Uncoupling T Cell Receptor Signaling from Peptide-MHC Binding. Cell, 2018, 174, 672-687.e27. | 13.5 | 229 |
| 23 | Conserved Region C Functions To Regulate PD-1 Expression and Subsequent CD8 T Cell Memory. Journal of Immunology, 2017, 198, 205-217. | 0.4 | 24 |
| 24 | MHC Bias by T Cell Receptors: Genetic Evidence for MHC and TCR Coevolution. Trends in Immunology, 2017, 38, 2-4. | 2.9 | 9 |
| 25 | NFM Cross-Reactivity to MOG Does Not Expand a Critical Threshold Level of High-Affinity T Cells Necessary for Onset of Demyelinating Disease. Journal of Immunology, 2017, 199, 2680-2691. | 0.4 | 5 |
| 26 | Dual Molecular Mechanisms Govern Escape at Immunodominant HLA A2-Restricted HIV Epitope. Frontiers in Immunology, 2017, 8, 1503. | 2.2 | 29 |
| 27 | Low-affinity CD4+ T cells are major responders in the primary immune response. Nature Communications, 2016, 7, 13848. | 5.8 | 63 |
| 28 | DNA-based nanoparticle tension sensors reveal that T-cell receptors transmit defined pN forces to their antigens for enhanced fidelity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5610-5615. | 3.3 | 256 |
| 29 | Targeted loss of SHP1 in murine thymocytes dampens TCR signaling late in selection. European Journal of Immunology, 2016, 46, 2103-2110. | 1.6 | 35 |
| 30 | Ratiometric Tension Probes for Mapping Receptor Forces and Clustering at Intermembrane Junctions. Nano Letters, 2016, 16, 4552-4559. | 4.5 | 65 |
| 31 | Low-Affinity Memory CD8+ T Cells Mediate Robust Heterologous Immunity. Journal of Immunology, 2016, 196, 2838-2846. | 0.4 | 41 |
| 32 | Stepwise B-cell-dependent expansion of T helper clonotypes diversifies the T-cell response. Nature Communications, 2016, 7, 10281. | 5.8 | 24 |
| 33 | Viral Escape Mutant Epitope Maintains TCR Affinity for Antigen yet Curtails CD8 T Cell Responses. PLoS ONE, 2016, 11, e0149582. | 1.1 | 11 |
| 34 | Lower Affinity T Cells are Critical Components and Active Participants of the Immune Response. Frontiers in Immunology, 2015, 6, 468. | 2.2 | 71 |
| 35 | Identification of T cell clones without the need for sequencing. Journal of Immunological Methods, 2015, 424, 28-31. | 0.6 | 7 |
| 36 | Regulatory and T Effector Cells Have Overlapping Low to High Ranges in TCR Affinities for Self during Demyelinating Disease. Journal of Immunology, 2015, 195, 4162-4170. | 0.4 | 15 |

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|---|---|---|---|
| 37 | Cutting Edge: Resident Memory CD8 T Cells Express High-Affinity TCRs. Journal of Immunology, 2015, 195, 3520-3524. | 0.4 | 77 |
| 38 | Force-Regulated In Situ TCRâ€“Peptide-Bound MHC Class II Kinetics Determine Functions of CD4+ T Cells. Journal of Immunology, 2015, 195, 3557-3564. | 0.4 | 92 |
| 39 | Progression of Relapsing-Remitting Demyelinating Disease Does Not Require Increased TCR Affinity or Epitope Spread. Journal of Immunology, 2014, 193, 4429-4438. | 0.4 | 13 |
| 40 | Accumulation of Dynamic Catch Bonds between TCR and Agonist Peptide-MHC Triggers T Cell Signaling. Cell, 2014, 157, 357-368. | 13.5 | 487 |
| 41 | TCR Affinity and Tolerance Mechanisms Converge To Shape T Cell Diabetogenic Potential. Journal of Immunology, 2014, 193, 571-579. | 0.4 | 35 |
| 42 | Accumulation of Serial Forces on TCR and CD8 Frequently Applied by Agonist Antigenic Peptides Embedded in MHC Molecules Triggers Calcium in T Cells. Journal of Immunology, 2014, 193, 68-76. | 0.4 | 60 |
| 43 | Insights from in situ analysis of TCRâ€“<scp>pMHC</scp> recognition: response of an interaction network. Immunological Reviews, 2013, 251, 49-64. | 2.8 | 66 |
| 44 | Monitoring the Dynamics of T Cell Clonal Diversity Using Recombinant Peptide:MHC Technology. Frontiers in Immunology, 2013, 4, 170. | 2.2 | 17 |
| 45 | Estimating the Diversity, Completeness, and Cross-Reactivity of the T Cell Repertoire. Frontiers in Immunology, 2013, 4, 485. | 2.2 | 150 |
| 46 | Self-reactive human CD4 T cell clones form unusual immunological synapses. Journal of Experimental Medicine, 2012, 209, 335-352. | 4.2 | 77 |
| 47 | Insights into T Cell Recognition of Antigen: Significance of Two-Dimensional Kinetic Parameters. Frontiers in Immunology, 2012, 3, 86. | 2.2 | 31 |
| 48 | Low 2-Dimensional CD4 T Cell Receptor Affinity for Myelin Sets in Motion Delayed Response Kinetics. PLoS ONE, 2012, 7, e32562. | 1.1 | 36 |
| 49 | Two-Stage Cooperative T Cell Receptor-Peptide Major Histocompatibility Complex-CD8 Trimolecular Interactions Amplify Antigen Discrimination. Immunity, 2011, 34, 13-23. | 6.6 | 172 |
| 50 | High prevalence of low affinity peptideâ€“MHC II tetramerâ€“negative effectors during polyclonal CD4+ T cell responses. Journal of Experimental Medicine, 2011, 208, 81-90. | 4.2 | 150 |
| 51 | The kinetics of two-dimensional TCR and pMHC interactions determine T-cell responsiveness. Nature, 2010, 464, 932-936. | 13.7 | 451 |
| 52 | Pathogenic MOG-reactive CD8+ T cells require MOG-reactive CD4+ T cells for sustained CNS inflammation during chronic EAE. Journal of Neuroimmunology, 2009, 213, 60-68. | 1.1 | 28 |
| 53 | Loss of IFN-Î³ Enables the Expansion of Autoreactive CD4+ T Cells to Induce Experimental Autoimmune Encephalomyelitis by a Nonencephalitogenic Myelin Variant Antigen. Journal of Immunology, 2008, 180, 4451-4457. | 0.4 | 48 |
| 54 | MHC Variant Peptide-Mediated Anergy of Encephalitogenic T Cells Requires SHP-1. Journal of Immunology, 2008, 181, 6843-6849. | 0.4 | 21 |

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|---|---|---|---|
| 55 | Kinetics of MHC-CD8 Interaction at the T Cell Membrane. Journal of Immunology, 2007, 179, 7653-7662. | 0.4 | 90 |
| 56 | Regulation of Polyclonal T Cell Responses by an MHC Anchor-Substituted Variant of Myelin Oligodendrocyte Glycoprotein 35-55. Journal of Immunology, 2003, 171, 1247-1254. | 0.4 | 38 |
| 57 | Dissociation of peripheral T cell responses from thymocyte negative selection by weak agonists supports a spare receptor model of T cell activation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4520-4525. | 3.3 | 25 |
| 58 | Persistence of Peptide-induced CD4+ T cell Anergy In Vitro. Journal of Experimental Medicine, 1998, 187, 89-96. | 4.2 | 54 |
| 59 | Induction of T-cell anergy by altered T-cell-receptor ligand on live antigen-presenting cells. Nature, 1993, 363, 156-159. | 13.7 | 592 |