## Tasuku Honjo

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Engagement of the Pd-1 Immunoinhibitory Receptor by a Novel B7 Family Member Leads to Negative<br>Regulation of Lymphocyte Activation. Journal of Experimental Medicine, 2000, 192, 1027-1034.  | 8.5  | 4,394     |
| 2  | Class Switch Recombination and Hypermutation Require Activation-Induced Cytidine Deaminase (AID), a<br>Potential RNA Editing Enzyme. Cell, 2000, 102, 553-563.  | 28.9 | 3,089     |
| 3  | Involvement of PD-L1 on tumor cells in the escape from host immune system and tumor immunotherapy<br>by PD-L1 blockade. Proceedings of the National Academy of Sciences of the United States of America,<br>2002, 99, 12293-12297.                                      | 7.1  | 2,563     |
| 4  | PD-L2 is a second ligand for PD-1 and inhibits T cell activation. Nature Immunology, 2001, 2, 261-268.  | 14.5 | 2,504     |
| 5  | Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon<br>programmed cell death EMBO Journal, 1992, 11, 3887-3895.   | 7.8  | 2,456     |
| 6  | Development of Lupus-like Autoimmune Diseases by Disruption of the PD-1 Gene Encoding an ITIM<br>Motif-Carrying Immunoreceptor. Immunity, 1999, 11, 141-151.  | 14.3 | 2,336     |
| 7  | Autoimmune Dilated Cardiomyopathy in PD-1 Receptor-Deficient Mice. Science, 2001, 291, 319-322.   | 12.6 | 1,613     |
| 8  | Activation-Induced Cytidine Deaminase (AID) Deficiency Causes the Autosomal Recessive Form of the Hyper-IgM Syndrome (HIGM2). Cell, 2000, 102, 565-575.   | 28.9 | 1,489     |
| 9  | Expression of the PD-1 antigen on the surface of stimulated mouse T and B lymphocytes. International Immunology, 1996, 8, 765-772.  | 4.0  | 1,316     |
| 10 | Programmed cell death 1 ligand 1 and tumor-infiltrating CD8+ T lymphocytes are prognostic factors of human ovarian cancer. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 3360-3365.                                       | 7.1  | 1,308     |
| 11 | Induced expression of PD-1, a novel member of the immunoglobulin gene superfamily, upon programmed cell death. EMBO Journal, 1992, 11, 3887-95.   | 7.8  | 1,145     |
| 12 | PD-1 and PD-1 ligands: from discovery to clinical application. International Immunology, 2007, 19, 813-824.   | 4.0  | 1,064     |
| 13 | Specific Expression of Activation-induced Cytidine Deaminase (AID), a Novel Member of the RNA-editing<br>Deaminase Family in Germinal Center B Cells. Journal of Biological Chemistry, 1999, 274, 18470-18476.  | 3.4  | 1,014     |
| 14 | Safety and Antitumor Activity of Anti–PD-1 Antibody, Nivolumab, in Patients With Platinum-Resistant<br>Ovarian Cancer. Journal of Clinical Oncology, 2015, 33, 4015-4022.   | 1.6  | 924       |
| 15 | A rheostat for immune responses: the unique properties of PD-1 and their advantages for clinical application. Nature Immunology, 2013, 14, 1212-1218.   | 14.5 | 783       |
| 16 | PD-1 immunoreceptor inhibits B cell receptor-mediated signaling by recruiting src homology<br>2-domain-containing tyrosine phosphatase 2 to phosphotyrosine. Proceedings of the National Academy<br>of Sciences of the United States of America, 2001, 98, 13866-13871. | 7.1  | 732       |
| 17 | Signal sequence trap: a cloning strategy for secreted proteins and type I membrane proteins. Science, 1993, 261, 600-603.   | 12.6 | 691       |
| 18 | Aberrant expansion of segmented filamentous bacteria in IgA-deficient gut. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1981-1986.   | 7.1  | 642       |

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|----|--|------|-----------|
| 19 | The PD-1–PD-L pathway in immunological tolerance. Trends in Immunology, 2006, 27, 195-201.   | 6.8  | 632       |
| 20 | PD-1:PD-L inhibitory pathway affects both CD4+ and CD8+ T cells and is overcome by IL-2. European<br>Journal of Immunology, 2002, 32, 634.   | 2.9  | 612       |
| 21 | Autoantibodies against cardiac troponin I are responsible for dilated cardiomyopathy in PD-1-deficient<br>mice. Nature Medicine, 2003, 9, 1477-1483.   | 30.7 | 606       |
| 22 | Molecular cloning of cDNA encoding human interleukin-2 receptor. Nature, 1984, 311, 631-635.   | 27.8 | 579       |
| 23 | MOLECULARMECHANISM OFCLASSSWITCHRECOMBINATION: Linkage with Somatic Hypermutation. Annual Review of Immunology, 2002, 20, 165-196.   | 21.8 | 549       |
| 24 | Critical Roles of Activation-Induced Cytidine Deaminase in the Homeostasis of Gut Flora. Science, 2002, 298, 1424-1427.  | 12.6 | 546       |
| 25 | Inducible gene knockout of transcription factor recombination signal binding proteinâ€J reveals its<br>essential role in T versus B lineage decision. International Immunology, 2002, 14, 637-645. | 4.0  | 533       |
| 26 | Conservation of the Notch signalling pathway in mammalian neurogenesis. Development (Cambridge),<br>1997, 124, 1139-1148.  | 2.5  | 526       |
| 27 | Cloning of cDNA encoding the murine IgG1 induction factor by a novel strategy using SP6 promoter.<br>Nature, 1986, 319, 640-646.   | 27.8 | 506       |
| 28 | Cancer immunotherapies targeting the PD-1 signaling pathway. Journal of Biomedical Science, 2017, 24, 26.  | 7.0  | 501       |
| 29 | Resting dendritic cells induce peripheral CD8+ T cell tolerance through PD-1 and CTLA-4. Nature<br>Immunology, 2005, 6, 280-286.   | 14.5 | 478       |
| 30 | AID is required to initiate Nbs1/Î <sup>3</sup> -H2AX focus formation and mutations at sites of class switching.<br>Nature, 2001, 414, 660-665.  | 27.8 | 459       |
| 31 | Intestinal IgA synthesis: regulation of front-line body defences. Nature Reviews Immunology, 2003, 3, 63-72.   | 22.7 | 447       |
| 32 | Helicobacter pylori infection triggers aberrant expression of activation-induced cytidine deaminase in gastric epithelium. Nature Medicine, 2007, 13, 470-476.                                     | 30.7 | 446       |
| 33 | Physical interaction between a novel domain of the receptor Notch and the transcription factor RBPJκ/Su(H). Current Biology, 1995, 5, 1416-1423.   | 3.9  | 441       |
| 34 | Alymphoplasia is caused by a point mutation in the mouse gene encoding Nf-κb-inducing kinase. Nature<br>Genetics, 1999, 22, 74-77.   | 21.4 | 431       |
| 35 | Notch–RBP-J signaling is involved in cell fate determination of marginal zone B cells. Nature<br>Immunology, 2002, 3, 443-450.   | 14.5 | 431       |
| 36 | PD-1: an inhibitory immunoreceptor involved in peripheral tolerance. Trends in Immunology, 2001, 22, 265-268.  | 6.8  | 428       |

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|----|--|------|-----------|
| 37 | Disruption of the mouse <i>RBP-J</i> а gene results in early embryonic death. Development (Cambridge),<br>1995, 121, 3291-3301.  | 2.5  | 426       |
| 38 | Immunological studies on PD-1 deficient mice: implication of PD-1 as a negative regulator for B cell responses. International Immunology, 1998, 10, 1563-1572.   | 4.0  | 425       |
| 39 | AID Is Required for c-myc/IgH Chromosome Translocations In Vivo. Cell, 2004, 118, 431-438.   | 28.9 | 417       |
| 40 | PD-1 blockade inhibits hematogenous spread of poorly immunogenic tumor cells by enhanced recruitment of effector T cells. International Immunology, 2004, 17, 133-144.   | 4.0  | 413       |
| 41 | Cloning of complementary DNA encoding T-cell replacing factor and identity with B-cell growth factor II. Nature, 1986, 324, 70-73.   | 27.8 | 412       |
| 42 | Constitutive Expression of AID Leads to Tumorigenesis. Journal of Experimental Medicine, 2003, 197, 1173-1181.   | 8.5  | 405       |
| 43 | In situ class switching and differentiation to IgA-producing cells in the gut lamina propria. Nature, 2001, 413, 639-643.  | 27.8 | 381       |
| 44 | Establishment of NOD-Pdcd1-/- mice as an efficient animal model of type I diabetes. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 11823-11828.                                     | 7.1  | 380       |
| 45 | Immunoglobulin Genes. Annual Review of Immunology, 1983, 1, 499-528.   | 21.8 | 374       |
| 46 | The PD-1/PD-L1 complex resembles the antigen-binding Fv domains of antibodies and T cell receptors.<br>Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3011-3016.                    | 7.1  | 357       |
| 47 | PD-1 Inhibits Antiviral Immunity at the Effector Phase in the Liver. Journal of Experimental Medicine, 2003, 198, 39-50.   | 8.5  | 353       |
| 48 | T-Independent Immune Response: New Aspects of B Cell Biology. Science, 2000, 290, 89-92.   | 12.6 | 349       |
| 49 | AID Enzyme-Induced Hypermutation in an Actively Transcribed Gene in Fibroblasts. Science, 2002, 296, 2033-2036.  | 12.6 | 345       |
| 50 | AID is required for germinal center–derived lymphomagenesis. Nature Genetics, 2008, 40, 108-112.   | 21.4 | 340       |
| 51 | Organization of the constant-region gene family of the mouse immunoglobulin heavy chain. Cell, 1982, 28, 499-506.  | 28.9 | 329       |
| 52 | Structure and physical map of 64 variable segments in the 3′ 0.8–megabase region of the human<br>immunoglobulin heavy–chain locus. Nature Genetics, 1993, 3, 88-94.  | 21.4 | 322       |
| 53 | AID mutant analyses indicate requirement for class-switch-specific cofactors. Nature Immunology, 2003, 4, 843-848.   | 14.5 | 301       |
| 54 | Mitochondrial activation chemicals synergize with surface receptor PD-1 blockade for T cell-dependent antitumor activity. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E761-E770. | 7.1  | 295       |

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|----|---|------|-----------|
| 55 | Regulation of αβ/γδT Cell Lineage Commitment and Peripheral T Cell Responses by Notch/RBP-J Signaling.<br>Immunity, 2004, 20, 611-622.  | 14.3 | 289       |
| 56 | Antigen-induced apoptotic death of Ly-1 B cells responsible for autoimmune disease in transgenic mice.<br>Nature, 1992, 357, 77-80.   | 27.8 | 280       |
| 57 | Recognition sequence of a highly conserved DNA binding protein RBP-Jx. Nucleic Acids Research, 1994, 22, 965-971.   | 14.5 | 280       |
| 58 | IFN-α Directly Promotes Programmed Cell Death-1 Transcription and Limits the Duration of T Cell-Mediated Immunity. Journal of Immunology, 2011, 186, 2772-2779.   | 0.8  | 278       |
| 59 | Organization of immunoglobulin heavy chain genes and allelic deletion model Proceedings of the National Academy of Sciences of the United States of America, 1978, 75, 2140-2144.   | 7.1  | 274       |
| 60 | Activation-induced cytidine deaminase shuttles between nucleus and cytoplasm like apolipoprotein B<br>mRNA editing catalytic polypeptide 1. Proceedings of the National Academy of Sciences of the United<br>States of America, 2004, 101, 1975-1980. | 7.1  | 271       |
| 61 | Molecular Modeling and Functional Mapping of B7-H1 and B7-DC Uncouple Costimulatory Function from PD-1 Interaction. Journal of Experimental Medicine, 2003, 197, 1083-1091.   | 8.5  | 259       |
| 62 | PD-1 and LAG-3 inhibitory co-receptors act synergistically to prevent autoimmunity in mice. Journal of Experimental Medicine, 2011, 208, 395-407.   | 8.5  | 256       |
| 63 | Involvement of RBP-J in biological functions of mouse Notch1 and its derivatives. Development (Cambridge), 1997, 124, 4133-4141.  | 2.5  | 255       |
| 64 | Differential expression of PD-L1 and PD-L2, ligands for an inhibitory receptor PD-1, in the cells of<br>lymphohematopoietic tissues. Immunology Letters, 2002, 84, 57-62.   | 2.5  | 249       |
| 65 | Circular DNA is excised by immunoglobulin class switch recombination. Cell, 1990, 62, 143-149.  | 28.9 | 246       |
| 66 | Regulation of Marginal Zone B Cell Development by MINT, a Suppressor of Notch/RBP-J Signaling<br>Pathway. Immunity, 2003, 18, 301-312.  | 14.3 | 244       |
| 67 | The AID enzyme induces class switch recombination in fibroblasts. Nature, 2002, 416, 340-345.   | 27.8 | 240       |
| 68 | Structure of human immunoglobulin gamma genes: implications for evolution of a gene family. Cell, 1982, 29, 671-679.  | 28.9 | 239       |
| 69 | A transgenic model of autoimmune hemolytic anemia Journal of Experimental Medicine, 1992, 175, 71-79.   | 8.5  | 230       |
| 70 | Developmentally regulated expression of the PD-1 protein on the surface of<br>double-negative(CD4–CD8–) thymocytes. International Immunology, 1996, 8, 773-780.   | 4.0  | 227       |
| 71 | Mice carrying a knock-in mutation of Aicda resulting in a defect in somatic hypermutation have impaired gut homeostasis and compromised mucosal defense. Nature Immunology, 2011, 12, 264-270.  | 14.5 | 227       |
| 72 | PPAR-Induced Fatty Acid Oxidation in T Cells Increases the Number of Tumor-Reactive CD8+ T Cells and Facilitates Anti–PD-1 Therapy. Cancer Immunology Research, 2018, 6, 1375-1387.   | 3.4  | 226       |

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|----|---|------|-----------|
| 73 | Repetitive sequences in class-switch recombination regions of immunoglobulin heavy chain genes.<br>Cell, 1981, 23, 357-368.   | 28.9 | 224       |
| 74 | New regulatory co-receptors: inducible co-stimulator and PD-1. Current Opinion in Immunology, 2002, 14, 779-782.  | 5.5  | 221       |
| 75 | Structure and Chromosomal Localization of the Human PD-1 Gene (PDCD1). Genomics, 1994, 23, 704-706.   | 2.9  | 215       |
| 76 | Immunoglobulin class switching. Cell, 1984, 36, 801-803.  | 28.9 | 213       |
| 77 | PD-1 deficiency results in the development of fatal myocarditis in MRL mice. International Immunology, 2010, 22, 443-452.   | 4.0  | 208       |
| 78 | Functional Interaction between the Mouse Notch1 Intracellular Region and Histone<br>Acetyltransferases PCAF and GCN5. Journal of Biological Chemistry, 2000, 275, 17211-17220.  | 3.4  | 207       |
| 79 | High frequency class switching of an lgM+ B lymphoma clone CH12F3 to lgA+ cells. International<br>Immunology, 1996, 8, 193-201.   | 4.0  | 206       |
| 80 | The shortest path from the surface to the nucleus: RBPâ€Ĵ⁰/Su(H) transcription factor. Genes To Cells,<br>1996, 1, 1-9.   | 1.2  | 200       |
| 81 | Separate domains of AID are required for somatic hypermutation and class-switch recombination.<br>Nature Immunology, 2004, 5, 707-712.  | 14.5 | 199       |
| 82 | Epstein-Barr virus nuclear antigen 2 exerts its transactivating function through interaction with<br>recombination signal binding protein RBP-J kappa, the homologue of Drosophila Suppressor of<br>Hairless EMBO Journal, 1994, 13, 4973-4982. | 7.8  | 191       |
| 83 | Conservation of the Notch signalling pathway in mammalian neurogenesis. Development (Cambridge), 1997, 124, 1139-48.  | 2.5  | 189       |
| 84 | Switch region of immunoglobulin Cμ gene is composed of simple tandem repetitive sequences. Nature,<br>1981, 292, 845-848.   | 27.8 | 184       |
| 85 | PD-1-Mediated Suppression of IL-2 Production Induces CD8+ T Cell Anergy In Vivo. Journal of Immunology, 2009, 182, 6682-6689.   | 0.8  | 184       |
| 86 | Activation-induced Deaminase (AID)-directed Hypermutation in the Immunoglobulin Sμ Region. Journal of Experimental Medicine, 2002, 195, 529-534.  | 8.5  | 182       |
| 87 | Aid. Immunity, 2004, 20, 659-668.   | 14.3 | 181       |
| 88 | Roles of the ankyrin repeats and C-terminal region of the mouse Notch1 intracellular region. Nucleic<br>Acids Research, 1998, 26, 5448-5455.  | 14.5 | 180       |
| 89 | Regulation of lymphocyte development by Notch signaling. Nature Immunology, 2007, 8, 451-456.   | 14.5 | 179       |
| 90 | Facilitation of β Selection and Modification of Positive Selection in the Thymus of Pd-1–Deficient Mice.<br>Journal of Experimental Medicine, 2000, 191, 891-898.   | 8.5  | 177       |

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|-----|---|------|-----------|
| 91  | LIM Protein KyoT2 Negatively Regulates Transcription by Association with the RBP-J DNA-Binding<br>Protein. Molecular and Cellular Biology, 1998, 18, 644-654.   | 2.3  | 174       |
| 92  | Disruption of the mouse RBP-J kappa gene results in early embryonic death. Development (Cambridge),<br>1995, 121, 3291-301.   | 2.5  | 170       |
| 93  | Oral administration of lipopolysaccharides activates B-1 cells in the peritoneal cavity and lamina<br>propria of the gut and induces autoimmune symptoms in an autoantibody transgenic mouse Journal<br>of Experimental Medicine, 1994, 180, 111-121. | 8.5  | 168       |
| 94  | Combination therapy strategies for improving PDâ€l blockade efficacy: a new era in cancer<br>immunotherapy. Journal of Internal Medicine, 2018, 283, 110-120.   | 6.0  | 162       |
| 95  | A hallmark of active class switch recombination: Transcripts directed by I promoters on looped-out circular DNAs. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12620-12623.                             | 7.1  | 159       |
| 96  | Inhibition of Notch/RBP-J signaling induces hair cell formation in neonate mouse cochleas. Journal of<br>Molecular Medicine, 2006, 84, 37-45.   | 3.9  | 157       |
| 97  | Expression of activation-induced cytidine deaminase in human hepatocytes via NF-κB signaling.<br>Oncogene, 2007, 26, 5587-5595.   | 5.9  | 153       |
| 98  | Nucleotide sequences of switch regions of immunoglobulin C epsilon and C gamma genes and their comparison Journal of Biological Chemistry, 1982, 257, 7322-7329.  | 3.4  | 147       |
| 99  | B cell-derived GABA elicits IL-10+ macrophages toÂlimit anti-tumour immunity. Nature, 2021, 599, 471-476.   | 27.8 | 145       |
| 100 | Linking class-switch recombination with somatic hypermutation. Nature Reviews Molecular Cell<br>Biology, 2001, 2, 493-503.  | 37.0 | 140       |
| 101 | Nonoverlapping roles of PD-1 and FoxP3 in maintaining immune tolerance in a novel autoimmune pancreatitis mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8490-8495.                         | 7.1  | 140       |
| 102 | Role of PD-1 in Immunity and Diseases. Current Topics in Microbiology and Immunology, 2017, 410, 75-97.   | 1.1  | 136       |
| 103 | Notch/RBP-J Signaling Regulates Epidermis/Hair Fate Determination of Hair Follicular Stem Cells.<br>Current Biology, 2003, 13, 333-338.   | 3.9  | 132       |
| 104 | Isolation, Tissue Distribution, and Chromosomal Localization of the Human Activation-Induced<br>Cytidine Deaminase (AID) Gene. Genomics, 2000, 68, 85-88.   | 2.9  | 129       |
| 105 | Nucleotide sequences of switch regions of immunoglobulin C epsilon and C gamma genes and their comparison. Journal of Biological Chemistry, 1982, 257, 7322-9.  | 3.4  | 129       |
| 106 | Cloning of human immunoglobulin μ gene and comparison with mouse μ gene. Nucleic Acids Research,<br>1980, 8, 5983-5991.   | 14.5 | 126       |
| 107 | The Interleukin-4 Enhancer CNS-2 Is Regulated by Notch Signals and Controls Initial Expression in NKT Cells and Memory-Type CD4 T Cells. Immunity, 2006, 24, 689-701.   | 14.3 | 122       |
| 108 | Activation-Induced Cytidine Deaminase Links Between Inflammation and the Development of Colitis-Associated Colorectal Cancers. Gastroenterology, 2008, 135, 889-898.e3.   | 1.3  | 122       |

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|-----|---|------|-----------|
| 109 | Role of AID in Tumorigenesis. Advances in Immunology, 2007, 94, 245-273.  | 2.2  | 121       |
| 110 | Current issues and perspectives in PD-1 blockade cancer immunotherapy. International Journal of Clinical Oncology, 2020, 25, 790-800.   | 2.2  | 120       |
| 111 | Alymphoplasia (aly)-Type Nuclear Factor κB–Inducing Kinase (Nik) Causes Defects in Secondary Lymphoid<br>Tissue Chemokine Receptor Signaling and Homing of Peritoneal Cells to the Gut-Associated Lymphatic<br>Tissue System. Journal of Experimental Medicine, 2000, 191, 1477-1486. | 8.5  | 118       |
| 112 | The bcl-2 gene product inhibits clonal deletion of self-reactive B lymphocytes in the periphery but not in the bone marrow Journal of Experimental Medicine, 1993, 178, 1247-1254.  | 8.5  | 117       |
| 113 | Uracil DNA Glycosylase Activity Is Dispensable for Immunoglobulin Class Switch. Science, 2004, 305, 1160-1163.  | 12.6 | 112       |
| 114 | Conservation of the biochemical mechanisms of signal transduction among mammalian Notch family<br>members. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98,<br>9026-9031.   | 7.1  | 111       |
| 115 | B cell–specific and stimulation-responsive enhancers derepress Aicda by overcoming the effects of silencers. Nature Immunology, 2010, 11, 148-154.  | 14.5 | 111       |
| 116 | Fatal Autoimmune Hepatitis Induced by Concurrent Loss of Naturally Arising Regulatory T Cells and PD-1-Mediated Signaling. Gastroenterology, 2008, 135, 1333-1343.  | 1.3  | 109       |
| 117 | Discovery of Activationâ€Induced Cytidine Deaminase, the Engraver of Antibody Memory. Advances in<br>Immunology, 2007, 94, 1-36.  | 2.2  | 105       |
| 118 | Complete nucleotide sequence of immunoglobulin γ2b chain gene cloned from newborn mouse DNA.<br>Nature, 1980, 283, 786-789.   | 27.8 | 104       |
| 119 | De novo protein synthesis is required for the activation-induced cytidine deaminase function in class-switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2634-2638.  | 7.1  | 104       |
| 120 | Fractalkine and macrophage-derived chemokine: T cell-attracting chemokines expressed in T cell area dendritic cells. European Journal of Immunology, 1999, 29, 1925-1932.   | 2.9  | 101       |
| 121 | Histone3 lysine4 trimethylation regulated by the facilitates chromatin transcription complex is critical for DNA cleavage in class switch recombination. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 22190-22195.                     | 7.1  | 100       |
| 122 | Absence of Programmed Death Receptor 1 Alters Thymic Development and Enhances Generation of CD4/CD8 Double-Negative TCR-Transgenic T Cells. Journal of Immunology, 2003, 171, 4574-4581.  | 0.8  | 99        |
| 123 | Histone Acetylation Determines the Developmentally Regulated Accessibility for T Cell Receptor Î <sup>3</sup> Gene<br>Recombination. Journal of Experimental Medicine, 2001, 193, 873-880.  | 8.5  | 98        |
| 124 | Deletion of immunoglobulin heavy chain genes from expressed allelic chromosome. Nature, 1980, 286,<br>850-853.  | 27.8 | 97        |
| 125 | Calumenin, a Ca2+-binding Protein Retained in the Endoplasmic Reticulum with a Novel<br>Carboxyl-terminal Sequence, HDEF. Journal of Biological Chemistry, 1997, 272, 18232-18239.  | 3.4  | 96        |
| 126 | Multiple roles of Notch signaling in cochlear development. Developmental Biology, 2007, 307, 165-178.   | 2.0  | 94        |

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|-----|---|------|-----------|
| 127 | Negative regulation of activation-induced cytidine deaminase in B cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2752-2757.   | 7.1  | 93        |
| 128 | AID to overcome the limitations of genomic information. Nature Immunology, 2005, 6, 655-661.  | 14.5 | 91        |
| 129 | Expression of functional human interleukin-2 receptor in mouse T cells by cDNA transfection. Nature, 1986, 320, 75-77.  | 27.8 | 90        |
| 130 | Functional conservation of mouse Notch receptor family members. FEBS Letters, 1996, 395, 221-224.   | 2.8  | 90        |
| 131 | Administration of interleukin -5 or -10 activates peritoneal B-1 cells and induces autoimmune<br>hemolytic anemia in anti-erythrocyte autoantibody-transgenic mice. European Journal of Immunology,<br>1995, 25, 3047-3052.                                     | 2.9  | 88        |
| 132 | Autoimmune disease of exocrine organs in immunodeficient alymphoplasia mice: a spontaneous model<br>for Sjören's syndrome. European Journal of Immunology, 1996, 26, 2742-2748.   | 2.9  | 86        |
| 133 | Effects of Breeding Environments on Generation and Activation of Autoreactive B-1 Cells in Anti-red<br>Blood Cell Autoantibody Transgenic Mice. Journal of Experimental Medicine, 1997, 185, 791-794.   | 8.5  | 86        |
| 134 | Fibroblast-dependent growth of mouse mast cells in vitro: Duplication of mast cell depletion in mutant mice ofw/wv genotype. Journal of Cellular Physiology, 1988, 134, 78-84.  | 4.1  | 85        |
| 135 | Generation, expansion, migration and activation of mouse B1 cells. Immunological Reviews, 2000, 176, 205-215.   | 6.0  | 85        |
| 136 | Evolution of class switch recombination function in fish activation-induced cytidine deaminase, AID.<br>International Immunology, 2006, 18, 41-47.  | 4.0  | 84        |
| 137 | Direct Interaction of the Mitochondrial Membrane Protein Carnitine Palmitoyltransferase I with Bcl-2. Biochemical and Biophysical Research Communications, 1997, 231, 523-525.  | 2.1  | 83        |
| 138 | DNA Double-Strand Breaks. Journal of Experimental Medicine, 2002, 195, 1187-1192.   | 8.5  | 83        |
| 139 | Metabolic shift induced by systemic activation of T cells in PD-1-deficient mice perturbs brain monoamines and emotional behavior. Nature Immunology, 2017, 18, 1342-1352.  | 14.5 | 83        |
| 140 | Organâ€specific profiles of genetic changes in cancers caused by activationâ€induced cytidine deaminase<br>expression. International Journal of Cancer, 2008, 123, 2735-2740.   | 5.1  | 80        |
| 141 | Production of sterile transcripts of Cl <sup>3</sup> genes in an IgM-producing human neoplastic B cell line that switches to IgG-producing cells. International Immunology, 1989, 1, 631-642.   | 4.0  | 79        |
| 142 | Target Specificity of Immunoglobulin Class Switch Recombination Is Not Determined by Nucleotide<br>Sequences of S Regions. Immunity, 1998, 9, 849-858.  | 14.3 | 78        |
| 143 | Palindromic but not G-rich sequences are targets of class switch recombination. International Immunology, 2001, 13, 495-505.  | 4.0  | 74        |
| 144 | Variable deletion and duplication at recombination junction ends: Implication for staggered<br>double-strand cleavage in class-switch recombination. Proceedings of the National Academy of<br>Sciences of the United States of America, 2001, 98, 13860-13865. | 7.1  | 74        |

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|-----|---|------|-----------|
| 145 | Chromatin Reader Brd4 Functions in Ig Class Switching as a Repair Complex Adaptor of<br>Nonhomologous End-Joining. Molecular Cell, 2014, 55, 97-110.  | 9.7  | 74        |
| 146 | Anti-Programmed Cell Death 1 Antibody Reduces CD4+PD-1+ T Cells and Relieves the Lupus-Like Nephritis of NZB/W F1 Mice. Journal of Immunology, 2010, 184, 2337-2347.  | 0.8  | 73        |
| 147 | Unmutated Immunoglobulin M Can Protect Mice from Death by Influenza Virus Infection. Journal of<br>Experimental Medicine, 2003, 197, 1779-1785.   | 8.5  | 72        |
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