Patricia J Gearhart

List of Publications by Year
in descending order

56 papers	3,722 citations	172457 29 h-index	161849 54 g-index
56 all docs	56 docs citations	56 times ranked	3819 citing authors

#	Article	IF	Citations
1	Different B Cell Populations Mediate Early and Late Memory During an Endogenous Immune Response. Science, 2011, 331, 1203-1207.	12.6	475
2	DNA polymerase Î· is an A-T mutator in somatic hypermutation of immunoglobulin variable genes. Nature Immunology, 2001, 2, 537-541.	14.5	408
3	AID and Somatic Hypermutation. Advances in Immunology, 2010, 105, 159-191.	2.2	186
4	MSH2â€"MSH6 stimulates DNA polymerase Î·, suggesting a role for A:T mutations in antibody genes. Journal of Experimental Medicine, 2005, 201, 637-645.	8.5	175
5	Increased Hypermutation at G and C Nucleotides in Immunoglobulin Variable Genes from Mice Deficient in the MSH2 Mismatch Repair Protein. Journal of Experimental Medicine, 1998, 187, 1745-1751.	8.5	170
6	129-derived Strains of Mice Are Deficient in DNA Polymerase Î¹ and Have Normal Immunoglobulin Hypermutation. Journal of Experimental Medicine, 2003, 198, 635-643.	8.5	169
7	A Role for Msh6 But Not Msh3 in Somatic Hypermutation and Class Switch Recombination. Journal of Experimental Medicine, 2004, 200, 61-68.	8.5	153
8	Patterns of Somatic Mutations in Immunoglobulin Variable Genes. Genetics, 1987, 115, 169-176.	2.9	153
9	Immunoglobulin Class Switch Recombination Is Impaired in Atm-deficient Mice. Journal of Experimental Medicine, 2004, 200, 1111-1121.	8.5	152
10	A Portable Hot Spot Recognition Loop Transfers Sequence Preferences from APOBEC Family Members to Activation-induced Cytidine Deaminase. Journal of Biological Chemistry, 2009, 284, 22898-22904.	3.4	121
11	Different mutation signatures in DNA polymerase Â- and MSH6-deficient mice suggest separate roles in antibody diversification. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8656-8661.	7.1	115
12	Uracil residues dependent on the deaminase AID in immunoglobulin gene variable and switch regions. Nature Immunology, 2011, 12, 70-76.	14.5	106
13	Immunoglobulin switch Î¼ sequence causes RNA polymerase II accumulation and reduces dA hypermutation. Journal of Experimental Medicine, 2009, 206, 1237-1244.	8.5	102
14	Age-Associated B Cells Express a Diverse Repertoire of VH and VÎº Genes with Somatic Hypermutation. Journal of Immunology, 2017, 198, 1921-1927.	0.8	99
15	DNA Polymerase Î· Contributes to Strand Bias of Mutations of A versus T in Immunoglobulin Genes. Journal of Immunology, 2005, 174, 7781-7786.	0.8	74
16	Third complementarity-determining region of mutated VH immunoglobulin genes contains shorter V, D, J, P, and N components than non-mutated genes. Immunology, 2001, 103, 179-187.	4.4	71
17	Local Sequence Targeting in the AID/APOBEC Family Differentially Impacts Retroviral Restriction and Antibody Diversification. Journal of Biological Chemistry, 2010, 285, 40956-40964.	3.4	71
18	Absence of DNA Polymerase Î· Reveals Targeting of C Mutations on the Nontranscribed Strand in Immunoglobulin Switch Regions. Journal of Experimental Medicine, 2004, 199, 917-924.	8.5	70

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19	Naive B Cells with High-Avidity Germline-Encoded Antigen Receptors Produce Persistent IgM+ and Transient IgG+ Memory B Cells. Immunity, 2018, 48, 1135-1143.e4.	14.3	61
20	Antibody diversification caused by disrupted mismatch repair and promiscuous DNA polymerases. DNA Repair, 2016, 38, 110-116.	2.8	53
21	XRCC1 suppresses somatic hypermutation and promotes alternative nonhomologous end joining in <i>Igh</i> genes. Journal of Experimental Medicine, 2011, 208, 2209-2216.	8.5	51
22	Reevaluation of the role of DNA polymerase Î¸ in somatic hypermutation of immunoglobulin genes. DNA Repair, 2008, 7, 1603-1608.	2.8	43
23	Spt5 accumulation at variable genes distinguishes somatic hypermutation in germinal center B cells from ex vivoâ€“activated cells. Journal of Experimental Medicine, 2014, 211, 2297-2306.	8.5	43
24	DNA polymerase Î¶ generates tandem mutations in immunoglobulin variable regions. Journal of Experimental Medicine, 2012, 209, 1075-1081.	8.5	42
25	Does DNA repair occur during somatic hypermutation?. Seminars in Immunology, 2012, 24, 287-292.	5.6	42
26	Binding of estrogen receptors to switch sites and regulatory elements in the immunoglobulin heavy chain locus of activated B cells suggests a direct influence of estrogen on antibody expression. Molecular Immunology, 2016, 77, 97-102.	2.2	42
27	Signals that drive T-bet expression in B cells. Cellular Immunology, 2017, 321, 3-7.	3.0	39
28	Normal hypermutation in antibody genes from congenic mice defective for DNA polymerase Î¹. DNA Repair, 2006, 5, 392-398.	2.8	35
29	Complex sex-biased antibody responses: estrogen receptors bind estrogen response elements centered within immunoglobulin heavy chain gene enhancers. International Immunology, 2019, 31, 141-156.	4.0	35
30	Controlling somatic hypermutation in immunoglobulin variable and switch regions. Immunologic Research, 2010, 47, 113-122.	2.9	31
31	Impact of age on hypermutation of immunoglobulin variable genes in humans. Journal of Clinical Immunology, 2001, 21, 102-115.	3.8	28
32	Hijacked DNA repair proteins and unchained DNA polymerases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 605-611.	4.0	27
33	DNA polymerase Î¹ functions in the generation of tandem mutations during somatic hypermutation of antibody genes. Journal of Experimental Medicine, 2016, 213, 1675-1683.	8.5	27
34	Co-Stimulation of BCR and Toll-Like Receptor 7 Increases Somatic Hypermutation, Memory B Cell Formation, and Secondary Antibody Response to Protein Antigen. Frontiers in Immunology, 2017, 8, 1833.	4.8	27
35	Defective Repair of Uracil Causes Telomere Defects in Mouse Hematopoietic Cells. Journal of Biological Chemistry, 2015, 290, 5502-5511.	3.4	23
36	Insertion of 2 kb of bacteriophage DNA between an immunoglobulin promoter and leader exon stops somatic hypermutation in a Îº transgene. Molecular Immunology, 1997, 34, 359-366.	2.2	21

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37	Transcriptome and IgH Repertoire Analyses Show That CD11chi B Cells Are a Distinct Population With Similarity to B Cells Arising in Autoimmunity and Infection. Frontiers in Immunology, 2021, 12, 649458.	4.8	20
38	Refining the Neuberger model: Uracil processing by activated B cells. European Journal of Immunology, 2014, 44, 1913-1916.	2.9	18
39	R-Loop Depletion by Over-expressed RNase H1 in Mouse B Cells Increases Activation-Induced Deaminase Access to the Transcribed Strand without Altering Frequency of Isotype Switching. Journal of Molecular Biology, 2017, 429, 3255-3263.	4.2	18
40	Activation-induced deaminase-mediated class switch recombination is blocked by anti-IgM signaling in a phosphatidylinositol 3-kinase-dependent fashion. Molecular Immunology, 2008, 45, 1799-1806.	2.2	16
41	Auto-Antibody Production During Experimental Atherosclerosis in ApoE-/- Mice. Frontiers in Immunology, 2021, 12, 695220.	4.8	14
42	ATM deficiency promotes development of murine B-cell lymphomas that resemble diffuse large B-cell lymphoma in humans. Blood, 2015, 126, 2291-2301.	1.4	13
43	Topoisomerase I deficiency causes RNA polymerase II accumulation and increases AID abundance in immunoglobulin variable genes. DNA Repair, 2015, 30, 46-52.	2.8	12
44	ATAD5 Deficiency Decreases B Cell Division and <i>Igh</i> Recombination. Journal of Immunology, 2015, 194, 35-42.	0.8	10
45	F10 cytotoxicity via topoisomerase I cleavage complex repair consistent with a unique mechanism for thymineless death. Future Oncology, 2016, 12, 2183-2188.	2.4	10
46	B cells from young and old mice switch isotypes with equal frequencies after ex vivo stimulation. Cellular Immunology, 2019, 345, 103966.	3.0	10
47	Altered spectra of hypermutation in DNA repairâ€“deficient mice. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 5-11.	4.0	8
48	What Targets Somatic Hypermutation to the Immunoglobulin Loci?. Viral Immunology, 2020, 33, 277-281.	1.3	6
49	The Reign of Antibodies: A Celebration of and Tribute to Michael Potter and His Homogeneous Immunoglobulin Workshops. Journal of Immunology, 2018, 200, 23-26.	0.8	5
50	Small Molecule Inhibitors of Activation-Induced Deaminase Decrease Class Switch Recombination in B Cells. ACS Pharmacology and Translational Science, 2021, 4, 1214-1226.	4.9	5
51	Antibody Wars: Extreme Diversity. Journal of Immunology, 2006, 177, 4235-4236.	0.8	4
52	J H 6 downstream intronic sequence is dispensable for RNA polymerase II accumulation and somatic hypermutation of the variable gene in Ramos cells. Molecular Immunology, 2018, 97, 101-108.	2.2	4
53	DNA Breaks in Ig V Regions Are Predominantly Single Stranded and Are Generated by UNG and MSH6 DNA Repair Pathways. Journal of Immunology, 2019, 202, 1573-1581.	0.8	4
54	Promoter Proximity Defines Mutation Window for VH and VÎš Genes Rearranged to Different J Genes. Journal of Immunology, 2022, 208, 2220-2226.	0.8	4

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55	Commentary for the Special Issue on â€˜Aging and Sex in Immunityâ€™. Cellular Immunology, 2020, 348, 104037.	3.0	1
56	Exceptional Antibodies Produced by Successive Immunizations. PLoS Biology, 2015, 13, e1002321.	5.6	0