# 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 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | Auto-Antibody Production During Experimental Atherosclerosis in ApoE-/- Mice. Frontiers in Immunology, 2021, 12, 695220. | 4.8 | 14 |
| 5 | What Targets Somatic Hypermutation to the Immunoglobulin Loci?. Viral Immunology, 2020, 33, 277-281. | 1.3 | 6 |
| 6 | Commentary for the Special Issue on â€˜Aging and Sex in Immunityâ€™. Cellular Immunology, 2020, 348, 104037. | 3.0 | 1 |
| 7 | 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 |
| 8 | B cells from young and old mice switch isotypes with equal frequencies after ex vivo stimulation. Cellular Immunology, 2019, 345, 103966. | 3.0 | 10 |
| 9 | 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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 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 | Signals that drive T-bet expression in B cells. Cellular Immunology, 2017, 321, 3-7. | 3.0 | 39 |
| 16 | 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 |
| 17 | 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 |
| 18 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | Antibody diversification caused by disrupted mismatch repair and promiscuous DNA polymerases. DNA Repair, 2016, 38, 110-116. | 2.8 | 53 |
| 21 | 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 |
| 22 | Exceptional Antibodies Produced by Successive Immunizations. PLoS Biology, 2015, 13, e1002321. | 5.6 | 0 |
| 23 | ATAD5 Deficiency Decreases B Cell Division and <i>Igh</i> Recombination. Journal of Immunology, 2015, 194, 35-42. | 0.8 | 10 |
| 24 | Defective Repair of Uracil Causes Telomere Defects in Mouse Hematopoietic Cells. Journal of Biological Chemistry, 2015, 290, 5502-5511. | 3.4 | 23 |
| 25 | 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 |
| 26 | 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 |
| 27 | Refining the Neuberger model: Uracil processing by activated B cells. European Journal of Immunology, 2014, 44, 1913-1916. | 2.9 | 18 |
| 28 | DNA polymerase Î¶ generates tandem mutations in immunoglobulin variable regions. Journal of Experimental Medicine, 2012, 209, 1075-1081. | 8.5 | 42 |
| 29 | Does DNA repair occur during somatic hypermutation?. Seminars in Immunology, 2012, 24, 287-292. | 5.6 | 42 |
| 30 | Different B Cell Populations Mediate Early and Late Memory During an Endogenous Immune Response. Science, 2011, 331, 1203-1207. | 12.6 | 475 |
| 31 | Uracil residues dependent on the deaminase AID in immunoglobulin gene variable and switch regions. Nature Immunology, 2011, 12, 70-76. | 14.5 | 106 |
| 32 | 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 |
| 33 | Controlling somatic hypermutation in immunoglobulin variable and switch regions. Immunologic Research, 2010, 47, 113-122. | 2.9 | 31 |
| 34 | AID and Somatic Hypermutation. Advances in Immunology, 2010, 105, 159-191. | 2.2 | 186 |
| 35 | 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 |
| 36 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Immunoglobulin switch Î¼ sequence causes RNA polymerase II accumulation and reduces dA hypermutation. Journal of Experimental Medicine, 2009, 206, 1237-1244. | 8.5 | 102 |
| 38 | Hijacked DNA repair proteins and unchained DNA polymerases. Philosophical Transactions of the Royal Society B: Biological Sciences, 2009, 364, 605-611. | 4.0 | 27 |
| 39 | Reevaluation of the role of DNA polymerase Î¸ in somatic hypermutation of immunoglobulin genes. DNA Repair, 2008, 7, 1603-1608. | 2.8 | 43 |
| 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 | Normal hypermutation in antibody genes from congenic mice defective for DNA polymerase Î¹. DNA Repair, 2006, 5, 392-398. | 2.8 | 35 |
| 42 | Antibody Wars: Extreme Diversity. Journal of Immunology, 2006, 177, 4235-4236. | 0.8 | 4 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | 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 |
| 47 | Immunoglobulin Class Switch Recombination Is Impaired in Atm-deficient Mice. Journal of Experimental Medicine, 2004, 200, 1111-1121. | 8.5 | 152 |
| 48 | 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 |
| 49 | 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 |
| 50 | 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 |
| 51 | Impact of age on hypermutation of immunoglobulin variable genes in humans. Journal of Clinical Immunology, 2001, 21, 102-115. | 3.8 | 28 |
| 52 | DNA polymerase Î· is an A-T mutator in somatic hypermutation of immunoglobulin variable genes. Nature Immunology, 2001, 2, 537-541. | 14.5 | 408 |
| 53 | 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 |
| 54 | 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 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Insertion of 2 kb of bacteriophage DNA between an immunoglobulin promoter and leader exon stops somatic hypermutation in a Î° transgene. Molecular Immunology, 1997, 34, 359-366. | 2.2 | 21 |
| 56 | Patterns of Somatic Mutations in Immunoglobulin Variable Genes. Genetics, 1987, 115, 169-176. | 2.9 | 153 |