

# Jan Vijn

## List of Publications by Year in descending order

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158  
papers

13,945  
citations

25034

57  
h-index

24258

110  
g-index

164  
all docs

164  
docs citations

164  
times ranked

16074  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | SomaMutDB: a database of somatic mutations in normal human tissues. Nucleic Acids Research, 2022, 50, D1100-D1108.   | 14.5 | 21        |
| 2  | Single-cell analysis of somatic mutation burden in mammary epithelial cells of pathogenic BRCA1/2 mutation carriers. Journal of Clinical Investigation, 2022, 132, .                 | 8.2  | 7         |
| 3  | Meeting Report: Aging Research and Drug Discovery. Aging, 2022, 14, 530-543.   | 3.1  | 4         |
| 4  | Single-cell analysis of somatic mutations in human bronchial epithelial cells in relation to aging and smoking. Nature Genetics, 2022, 54, 492-498.                                  | 21.4 | 47        |
| 5  | Single-molecule, quantitative detection of low-abundance somatic mutations by high-throughput sequencing. Science Advances, 2022, 8, eabm3259.                                       | 10.3 | 11        |
| 6  | Genome Maintenance in Aging and Lung Carcinogenesis. , 2022, , .   |      | 0         |
| 7  | Bronchial Field Progenitor Basal Cells Show Methylome-Wide Characteristics Reflective of Lung Cancer Case-Control, Age, and Smoking Status. , 2022, , .                              |      | 0         |
| 8  | The central role of DNA damage in the ageing process. Nature, 2021, 592, 695-703.  | 27.8 | 340       |
| 9  | Somatic Mutations at Single Base Resolution in Single Bronchial Progenitor Cells Collected from Human Lung. , 2021, , .  |      | 0         |
| 10 | Age-related telomere attrition causes aberrant gene expression in subtelomeric regions. Aging Cell, 2021, 20, e13357.  | 6.7  | 11        |
| 11 | Bronchial Field Progenitor Basal Cells Show Methylome-Wide Characteristics Reflective of Lung Cancer Case-Control, Age, and Smoking Status of the Donor. , 2021, , .                 |      | 0         |
| 12 | A workflow for simultaneous DNA copy number and methylome analysis of inner cell mass and trophectoderm cells from human blastocysts. Fertility and Sterility, 2021, 115, 1533-1540. | 1.0  | 4         |
| 13 | A Compendium of Age-Related PheWAS and GWAS Traits for Human Genetic Association Studies, Their Networks and Genetic Correlations. Frontiers in Genetics, 2021, 12, 680560.          | 2.3  | 3         |
| 14 | From DNA damage to mutations: All roads lead to aging. Ageing Research Reviews, 2021, 68, 101316.  | 10.9 | 55        |
| 15 | Einstein-Nathan Shock Center: translating the hallmarks of aging to extend human health span. GeroScience, 2021, 43, 2167-2182.  | 4.6  | 5         |
| 16 | Rare genetic coding variants associated with human longevity and protection against age-related diseases. Nature Aging, 2021, 1, 783-794.  | 11.6 | 22        |
| 17 | Maintenance of genome sequence integrity in long- and short-lived rodent species. Science Advances, 2021, 7, eabj3284.   | 10.3 | 29        |
| 18 | Genomic expansion of Aldh1a1 protects beavers against high metabolic aldehydes from lipid oxidation. Cell Reports, 2021, 37, 109965.   | 6.4  | 7         |

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|----|--|------|-----------|
| 19 | SCCNV: A Software Tool for Identifying Copy Number Variation From Single-Cell Whole-Genome Sequencing. <i>Frontiers in Genetics</i> , 2020, 11, 505441.  | 2.3  | 7         |
| 20 | FOXO3a acts to suppress DNA double-strand break-induced mutations. <i>Aging Cell</i> , 2020, 19, e13184.   | 6.7  | 18        |
| 21 | Genetics of extreme human longevity to guide drug discovery for healthy ageing. <i>Nature Metabolism</i> , 2020, 2, 663-672.   | 11.9 | 32        |
| 22 | Loss of gene coordination as a stochastic cause of ageing. <i>Nature Metabolism</i> , 2020, 2, 1188-1189.  | 11.9 | 2         |
| 23 | Inducible aging in <i>Hydra oligactis</i> implicates sexual reproduction, loss of stem cells, and genome maintenance as major pathways. <i>GeroScience</i> , 2020, 42, 1119-1132.  | 4.6  | 13        |
| 24 | Pathogenic Mechanisms of Somatic Mutation and Genome Mosaicism in Aging. <i>Cell</i> , 2020, 182, 12-23.   | 28.9 | 128       |
| 25 | Single-cell analysis reveals different age-related somatic mutation profiles between stem and differentiated cells in human liver. <i>Science Advances</i> , 2020, 6, eaax2659.  | 10.3 | 79        |
| 26 | ARDD 2020: from aging mechanisms to interventions. <i>Aging</i> , 2020, 12, 24484-24503.   | 3.1  | 32        |
| 27 | New Insights into Bioactive Compounds of Traditional Chinese Medicines for Insulin Resistance Based on Signaling Pathways. <i>Chemistry and Biodiversity</i> , 2019, 16, e1900176.   | 2.1  | 5         |
| 28 | A direct comparison of interphase FISH versus low-coverage single cell sequencing to detect aneuploidy reveals respective strengths and weaknesses. <i>Scientific Reports</i> , 2019, 9, 10508.  | 3.3  | 18        |
| 29 | Age is in the nucleus. <i>Nature Metabolism</i> , 2019, 1, 931-932.  | 11.9 | 9         |
| 30 | SIRT6 Is Responsible for More Efficient DNA Double-Strand Break Repair in Long-Lived Species. <i>Cell</i> , 2019, 177, 622-638.e22.  | 28.9 | 225       |
| 31 | Single-cell whole-genome sequencing reveals the functional landscape of somatic mutations in B lymphocytes across the human lifespan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9014-9019. | 7.1  | 174       |
| 32 | Global, integrated analysis of methylomes and transcriptomes from laser capture microdissected bronchial and alveolar cells in human lung. <i>Epigenetics</i> , 2018, 13, 264-274.   | 2.7  | 7         |
| 33 | Mechanisms of cancer resistance in long-lived mammals. <i>Nature Reviews Cancer</i> , 2018, 18, 433-441.   | 28.4 | 195       |
| 34 | Cell Replacement to Reverse Brain Aging: Challenges, Pitfalls, and Opportunities. <i>Trends in Neurosciences</i> , 2018, 41, 267-279.  | 8.6  | 16        |
| 35 | Bleomycin-induced genome structural variations in normal, non-tumor cells. <i>Scientific Reports</i> , 2018, 8, 16523.   | 3.3  | 14        |
| 36 | Somatic Mutagenesis in Mammals and Its Implications for Human Disease and Aging. <i>Annual Review of Genetics</i> , 2018, 52, 397-419.   | 7.6  | 83        |

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|----|---|------|-----------|
| 37 | Intratissue DNA Methylation Heterogeneity in Aging. , 2018, , 201-209.  |      | 1         |
| 38 | Development of a Method to Implement Whole-Genome Bisulfite Sequencing of cfDNA from Cancer Patients and a Mouse Tumor Model. <i>Frontiers in Genetics</i> , 2018, 9, 6.      | 2.3  | 20        |
| 39 | Nuclear Genomic Instability and Aging. <i>Annual Review of Biochemistry</i> , 2018, 87, 295-322.  | 11.1 | 178       |
| 40 | Mechanisms and consequences of aneuploidy and chromosome instability in the aging brain. <i>Mechanisms of Ageing and Development</i> , 2017, 161, 19-36.                      | 4.6  | 42        |
| 41 | Mutation and catastrophe in the aging genome. <i>Experimental Gerontology</i> , 2017, 94, 34-40.  | 2.8  | 28        |
| 42 | Aging and the Inevitable Limit to Human Life Span. <i>Gerontology</i> , 2017, 63, 432-434.  | 2.8  | 33        |
| 43 | Differences between germline and somatic mutation rates in humans and mice. <i>Nature Communications</i> , 2017, 8, 15183.  | 12.8 | 309       |
| 44 | Accurate identification of single-nucleotide variants in whole-genome-amplified single cells. <i>Nature Methods</i> , 2017, 14, 491-493.                                      | 19.0 | 191       |
| 45 | Genome instability and aging: Cause or effect?. <i>Translational Medicine of Aging</i> , 2017, 1, 5-11.   | 1.3  | 22        |
| 46 | A high-fidelity method for genomic sequencing of single somatic cells reveals a very high mutational burden. <i>Experimental Biology and Medicine</i> , 2017, 242, 1318-1324. | 2.4  | 6         |
| 47 | Analysis of individual cells identifies cell-to-cell variability following induction of cellular senescence. <i>Aging Cell</i> , 2017, 16, 1043-1050.                         | 6.7  | 182       |
| 48 | Ageing: Biomarkers get physical. <i>Nature Biomedical Engineering</i> , 2017, 1, .  | 22.5 | 0         |
| 49 | Genome-wide, Single-Cell DNA Methylomics Reveals Increased Non-CpG Methylation during Human Oocyte Maturation. <i>Stem Cell Reports</i> , 2017, 9, 397-407.                   | 4.8  | 77        |
| 50 | Dong et al. reply. <i>Nature</i> , 2017, 546, E7-E7.  | 27.8 | 3         |
| 51 | Dong et al. reply. <i>Nature</i> , 2017, 546, E9-E10.   | 27.8 | 3         |
| 52 | Dong et al. reply. <i>Nature</i> , 2017, 546, E12-E12.  | 27.8 | 4         |
| 53 | Dong et al. reply. <i>Nature</i> , 2017, 546, E14-E15.  | 27.8 | 4         |
| 54 | Dong et al. reply. <i>Nature</i> , 2017, 546, E21-E21.  | 27.8 | 1         |

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|----|--|------|-----------|
| 55 | Genome instability: a conserved mechanism of ageing?. <i>Essays in Biochemistry</i> , 2017, 61, 305-315.   | 4.7  | 37        |
| 56 | A review of the biomedical innovations for healthy longevity. <i>Aging</i> , 2017, 9, 7-25.  | 3.1  | 18        |
| 57 | Development and validation of a targeted next generation DNA sequencing panel outperforming whole exome sequencing for the identification of clinically relevant genetic variants. <i>Oncotarget</i> , 2017, 8, 102033-102045. | 1.8  | 25        |
| 58 | “Best-Guess” MRAD Provides Robust Evidence for a Limit to Human Lifespan: Reply to de Grey (Rejuvenation Res. 2017;20:261-262). <i>Rejuvenation Research</i> , 2017, 20, 437-440.  | 1.8  | 4         |
| 59 | Deep biomarkers of human aging: Application of deep neural networks to biomarker development. <i>Aging</i> , 2016, 8, 1021-1033.   | 3.1  | 266       |
| 60 | The Essence of Aging. <i>Gerontology</i> , 2016, 62, 381-385.  | 2.8  | 31        |
| 61 | Evidence for a limit to human lifespan. <i>Nature</i> , 2016, 538, 257-259.  | 27.8 | 341       |
| 62 | The dark side of circulating nucleic acids. <i>Aging Cell</i> , 2016, 15, 398-399.   | 6.7  | 45        |
| 63 | Do DNA Double-Strand Breaks Drive Aging?. <i>Molecular Cell</i> , 2016, 63, 729-738.   | 9.7  | 172       |
| 64 | Restricted diet delays accelerated ageing and genomic stress in DNA-repair-deficient mice. <i>Nature</i> , 2016, 537, 427-431.   | 27.8 | 228       |
| 65 | In silico Pathway Activation Network Decomposition Analysis (iPANDA) as a method for biomarker development. <i>Nature Communications</i> , 2016, 7, 13427.   | 12.8 | 126       |
| 66 | Single-cell genome-wide bisulfite sequencing uncovers extensive heterogeneity in the mouse liver methylome. <i>Genome Biology</i> , 2016, 17, 150.   | 8.8  | 104       |
| 67 | Whole Chromosome Instability induces senescence and promotes SASP. <i>Scientific Reports</i> , 2016, 6, 35218.   | 3.3  | 117       |
| 68 | Quantitative detection of low-abundance somatic structural variants in normal cells by high-throughput sequencing. <i>Nature Methods</i> , 2016, 13, 584-586.  | 19.0 | 17        |
| 69 | Whole chromosome aneuploidy in the brain of Bub1bH/Hand Ercc1 <sup>Δ7</sup> mice. <i>Human Molecular Genetics</i> , 2016, 25, 755-765.   | 2.9  | 17        |
| 70 | Sensitivity of primary fibroblasts in culture to atmospheric oxygen does not correlate with species lifespan. <i>Aging</i> , 2016, 8, 841-847.   | 3.1  | 10        |
| 71 | Interventions to Slow Aging in Humans: Are We Ready?. <i>Aging Cell</i> , 2015, 14, 497-510.   | 6.7  | 481       |
| 72 | Genetic evidence for common pathways in human age-related diseases. <i>Aging Cell</i> , 2015, 14, 809-817.   | 6.7  | 70        |

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|----|---|------|-----------|
| 73 | Improved transposon-based library preparation for the Ion Torrent platform. <i>BioTechniques</i> , 2015, 58, 200-2.   | 1.8  | 12        |
| 74 | Age-related somatic mutations in the cancer genome. <i>Oncotarget</i> , 2015, 6, 24627-24635.   | 1.8  | 104       |
| 75 | DNA repair in species with extreme lifespan differences. <i>Aging</i> , 2015, 7, 1171-1182.   | 3.1  | 132       |
| 76 | Development of a Targeted Multi-Disorder High-Throughput Sequencing Assay for the Effective Identification of Disease-Causing Variants. <i>PLoS ONE</i> , 2015, 10, e0133742.   | 2.5  | 15        |
| 77 | Single-cell transcriptogenomics reveals transcriptional exclusion of ENU-mutated alleles. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 772, 55-62.  | 1.0  | 27        |
| 78 | Comprehensive transcriptional landscape of aging mouse liver. <i>BMC Genomics</i> , 2015, 16, 899.  | 2.8  | 98        |
| 79 | Comparative analysis of genome maintenance genes in naked mole rat, mouse, and human. <i>Aging Cell</i> , 2015, 14, 288-291.  | 6.7  | 58        |
| 80 | Single-cell, locus-specific bisulfite sequencing (SLBS) for direct detection of epimutations in DNA methylation patterns. <i>Nucleic Acids Research</i> , 2015, 43, e93-e93.  | 14.5 | 36        |
| 81 | <i>p16<sup>INK4a</sup></i> locus of the tumor-resistant rodent, the naked mole rat, expresses a functional p15/p16 hybrid isoform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 1053-1058. | 7.1  | 92        |
| 82 | High-throughput sequencing in mutation detection: A new generation of genotoxicity tests?. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2015, 776, 136-143.   | 1.0  | 34        |
| 83 | Controlled induction of DNA double-strand breaks in the mouse liver induces features of tissue ageing. <i>Nature Communications</i> , 2015, 6, 6790.  | 12.8 | 90        |
| 84 | Deletion of Individual Ku Subunits in Mice Causes an NHEJ-Independent Phenotype Potentially by Altering Apurinic/Apyrimidinic Site Repair. <i>PLoS ONE</i> , 2014, 9, e86358.   | 2.5  | 21        |
| 85 | The Progeroid Phenotype of Ku80 Deficiency Is Dominant over DNA-PKCS Deficiency. <i>PLoS ONE</i> , 2014, 9, e93568.   | 2.5  | 13        |
| 86 | An Essential Role for Senescent Cells in Optimal Wound Healing through Secretion of PDGF-AA. <i>Developmental Cell</i> , 2014, 31, 722-733.   | 7.0  | 1,376     |
| 87 | Aging genomes: A necessary evil in the logic of life. <i>BioEssays</i> , 2014, 36, 282-292.   | 2.5  | 20        |
| 88 | Genome-wide quantitative analysis of DNA methylation from bisulfite sequencing data. <i>Bioinformatics</i> , 2014, 30, 1933-1934.   | 4.1  | 17        |
| 89 | Editorial overview: Molecular and genetic bases of disease: The double life of DNA. <i>Current Opinion in Genetics and Development</i> , 2014, 26, v-vii.   | 3.3  | 5         |
| 90 | Somatic mutations, genome mosaicism, cancer and aging. <i>Current Opinion in Genetics and Development</i> , 2014, 26, 141-149.  | 3.3  | 111       |

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|-----|--|------|-----------|
| 91  | Whole genome sequencing of glioblastoma multiforme identifies multiple structural variations involved in EGFR activation. <i>Mutagenesis</i> , 2014, 29, 341-350.  | 2.6  | 16        |
| 92  | Deficiency of the DNA repair protein nibrin increases the basal but not the radiation induced mutation frequency in vivo. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2014, 769, 11-16. | 1.0  | 8         |
| 93  | Comparative genetics of longevity and cancer: insights from long-lived rodents. <i>Nature Reviews Genetics</i> , 2014, 15, 531-540.  | 16.3 | 169       |
| 94  | Innovating Aging: Promises and Pitfalls on the Road to Life Extension. <i>Gerontology</i> , 2014, 60, 373-380.   | 2.8  | 21        |
| 95  | Four-Color FISH for the Detection of Low-Level Aneuploidy in Interphase Cells. <i>Methods in Molecular Biology</i> , 2014, 1136, 291-305.  | 0.9  | 15        |
| 96  | <scp>DNA</scp> damage in normally and prematurely aged mice. <i>Aging Cell</i> , 2013, 12, 467-477.  | 6.7  | 50        |
| 97  | Genome Instability and Aging. <i>Annual Review of Physiology</i> , 2013, 75, 645-668.  | 13.1 | 314       |
| 98  | Life spanning murine gene expression profiles in relation to chronological and pathological aging in multiple organs. <i>Aging Cell</i> , 2013, 12, 901-909.   | 6.7  | 58        |
| 99  | High Preservation of CpG Cytosine Methylation Patterns at Imprinted Gene Loci in Liver and Brain of Aged Mice. <i>PLoS ONE</i> , 2013, 8, e73496.  | 2.5  | 4         |
| 100 | Myc-Dependent Genome Instability and Lifespan in <i>Drosophila</i> . <i>PLoS ONE</i> , 2013, 8, e74641.  | 2.5  | 40        |
| 101 | Aging on a different scale – chronological versus pathology-related aging. <i>Aging</i> , 2013, 5, 782-788.  | 3.1  | 20        |
| 102 | Measuring Genome Instability in Aging – A Mini-Review. <i>Gerontology</i> , 2012, 58, 129-138.   | 2.8  | 31        |
| 103 | Chromosome-specific accumulation of aneuploidy in the aging mouse brain. <i>Human Molecular Genetics</i> , 2012, 21, 5246-5253.  | 2.9  | 83        |
| 104 | 5-Aza-2â€²-deoxycytidine-induced genome rearrangements are mediated by DNMT1. <i>Oncogene</i> , 2012, 31, 5172-5179.   | 5.9  | 54        |
| 105 | Direct, genome-wide assessment of DNA mutations in single cells. <i>Nucleic Acids Research</i> , 2012, 40, 2032-2040.  | 14.5 | 68        |
| 106 | Comprehensive microRNA profiling in B-cells of human centenarians by massively parallel sequencing. <i>BMC Genomics</i> , 2012, 13, 353.   | 2.8  | 69        |
| 107 | Direct mutation analysis by high-throughput sequencing: From germline to low-abundant, somatic variants. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2012, 729, 1-15.                   | 1.0  | 75        |
| 108 | Broad segmental progeroid changes in short-lived <i>Ercc1</i> <sup>âˆŒ”7</sup> mice. <i>Pathobiology of Aging &amp; Age Related Diseases</i> , 2011, 1, 7219.  | 1.1  | 79        |

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|-----|---|------|-----------|
| 109 | Chromosomal aneuploidy in the aging brain. <i>Mechanisms of Ageing and Development</i> , 2011, 132, 429-436.  | 4.6  | 50        |
| 110 | Epigenetic factors in aging and longevity. <i>Pflugers Archiv European Journal of Physiology</i> , 2010, 459, 247-258.  | 2.8  | 278       |
| 111 | Age- and Temperature-Dependent Somatic Mutation Accumulation in <i>Drosophila melanogaster</i> . <i>PLoS Genetics</i> , 2010, 6, e1000950.  | 3.5  | 58        |
| 112 | A dual-activation, adenoviral-based system for the controlled induction of DNA double-strand breaks by the restriction endonuclease <i>SacI</i> . <i>BioTechniques</i> , 2009, 47, 847-854. | 1.8  | 4         |
| 113 | Does Damage to DNA and Other Macromolecules Play a Role in Aging? If So, How?. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2009, 64A, 175-178.     | 3.6  | 86        |
| 114 | Mitochondrial DNA mutations and aging: devils in the details?. <i>Trends in Genetics</i> , 2009, 25, 91-98.   | 6.7  | 99        |
| 115 | Genome instability, cancer and aging. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009, 1790, 963-969.  | 2.4  | 102       |
| 116 | SNP'ing for longevity. <i>Aging</i> , 2009, 1, 442-443.   | 3.1  | 3         |
| 117 | DNA damage and ageing: new-age ideas for an age-old problem. <i>Nature Cell Biology</i> , 2008, 10, 1241-1247.  | 10.3 | 325       |
| 118 | Turning anti-ageing genes against cancer. <i>Nature Reviews Molecular Cell Biology</i> , 2008, 9, 903-910.  | 37.0 | 36        |
| 119 | Aging: A Sirtuin Shake-Up?. <i>Cell</i> , 2008, 135, 797-798.   | 28.9 | 18        |
| 120 | Mutation Frequencies and Spectra in DNA Polymerase $\beta$ -Deficient Mice. <i>Cancer Research</i> , 2008, 68, 2081-2084.   | 0.9  | 21        |
| 121 | Effect of Ku80 Deficiency on Mutation Frequencies and Spectra at a LacZ Reporter Locus in Mouse Tissues and Cells. <i>PLoS ONE</i> , 2008, 3, e3458.  | 2.5  | 13        |
| 122 | Genome dynamics and transcriptional deregulation in aging. <i>Neuroscience</i> , 2007, 145, 1341-1347.  | 2.3  | 42        |
| 123 | Intra-Organ Variation in Age-Related Mutation Accumulation in the Mouse. <i>PLoS ONE</i> , 2007, 2, e876.   | 2.5  | 55        |
| 124 | A model system for analyzing somatic mutations in <i>Drosophila melanogaster</i> . <i>Nature Methods</i> , 2007, 4, 401-403.  | 19.0 | 22        |
| 125 | Detection and Analysis of Somatic Mutations at a lacZ Reporter Locus in Higher Organisms. <i>Methods in Molecular Biology</i> , 2007, 371, 267-287.   | 0.9  | 23        |
| 126 | Increased cell-to-cell variation in gene expression in ageing mouse heart. <i>Nature</i> , 2006, 441, 1011-1014.  | 27.8 | 537       |



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|-----|---|------|-----------|
| 127 | A new progeroid syndrome reveals that genotoxic stress suppresses the somatotroph axis. Nature, 2006, 444, 1038-1043.   | 27.8 | 601       |
| 128 | Increased genomic instability is not a prerequisite for shortened lifespan in DNA repair deficient mice. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2006, 596, 22-35.       | 1.0  | 100       |
| 129 | Aging and p53: getting it straight A commentary on a recent paper by Gentry and Venkatachalam. Aging Cell, 2005, 4, 331-333.  | 6.7  | 16        |
| 130 | Genetics of Longevity and Aging. Annual Review of Medicine, 2005, 56, 193-212.  | 12.2 | 143       |
| 131 | Transcripts of aging. Trends in Genetics, 2004, 20, 221-224.  | 6.7  | 26        |
| 132 | Oxygen accelerates the accumulation of mutations during the senescence and immortalization of murine cells in culture. Aging Cell, 2003, 2, 287-294.  | 6.7  | 176       |
| 133 | Aging and Genome Maintenance: Lessons from the Mouse?. Science, 2003, 299, 1355-1359.   | 12.6 | 538       |
| 134 | Rapid, inexpensive scanning for all possible BRCA1 and BRCA2 gene sequence variants in a single assay: implications for genetic testing. Journal of Medical Genetics, 2003, 40, 33e-33.                   | 3.2  | 7         |
| 135 | Mutational fingerprints of aging. Nucleic Acids Research, 2002, 30, 545-549.  | 14.5 | 83        |
| 136 | Genome Dynamics in Aging Mice. Genome Research, 2002, 12, 1732-1738.  | 5.5  | 60        |
| 137 | Age-related mutation accumulation at a lacZ reporter locus in normal and tumor tissues of Trp53-deficient mice. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2002, 514, 153-163. | 1.7  | 37        |
| 138 | Large genome rearrangements as a primary cause of aging. Mechanisms of Ageing and Development, 2002, 123, 907-915.  | 4.6  | 134       |
| 139 | Mutation frequency and type during ageing in mouse seminiferous tubules. Mechanisms of Ageing and Development, 2001, 122, 1321-1331.  | 4.6  | 17        |
| 140 | Somatic mutations and aging: a re-evaluation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2000, 447, 117-135.  | 1.0  | 225       |
| 141 | Distinct spectra of somatic mutations accumulated with age in mouse heart and small intestine. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 8403-8408.      | 7.1  | 231       |
| 142 | Mutation Accumulation In Vivo and the Importance of Genome Stability in Aging and Cancer. Results and Problems in Cell Differentiation, 2000, 29, 165-180.  | 0.7  | 8         |
| 143 | Transgenic assays for mutations and cancer: current status and future perspectives. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1998, 400, 337-354.                          | 1.0  | 25        |
| 144 | Siblings of centenarians live longer. Lancet, The, 1998, 351, 1560.   | 13.7 | 172       |

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|-----|---|------|-----------|
| 145 | Genetic testing: The problems and the promise. <i>Nature Biotechnology</i> , 1997, 15, 422-426.   | 17.5 | 94        |
| 146 | Rapid accumulation of genome rearrangements in liver but not in brain of old mice. <i>Nature Genetics</i> , 1997, 17, 431-434.  | 21.4 | 245       |
| 147 | Evaluation of a plasmid-based transgenic mouse model for detecting in vivo mutations. <i>Mutagenesis</i> , 1996, 11, 111-118.   | 2.6  | 78        |
| 148 | Understanding the Biology of Aging: The Key To Prevention and Therapy. <i>Journal of the American Geriatrics Society</i> , 1995, 43, 426-434.   | 2.6  | 51        |
| 149 | Detecting Individual Genetic Variation. <i>Nature Biotechnology</i> , 1995, 13, 137-139.  | 17.5 | 4         |
| 150 | Plasmid-based transgenic mouse model for studying in vivomutations. <i>Nature</i> , 1995, 377, 657-659.   | 27.8 | 143       |
| 151 | Two-dimensional DNA typing. <i>Molecular Biotechnology</i> , 1995, 4, 275-295.  | 2.4  | 13        |
| 152 | Spontaneous DNA breaks in the rat brain during development and aging. <i>Mutation Research - DNAging</i> , 1990, 237, 9-15.   | 3.2  | 32        |
| 153 | Age-related induction and disappearance of carcinogen-DNA-adducts in livers of rats exposed to low levels of 2-acetylaminofluorene. <i>Chemico-Biological Interactions</i> , 1989, 69, 373-384.                             | 4.0  | 11        |
| 154 | Efficient rescue of integrated shuttle vectors from transgenic mice: a model for studying mutations in vivo.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 7971-7975. | 7.1  | 466       |
| 155 | Age-dependent accumulation of alkali-labile sites in DNA of post-mitotic but not in that of mitotic rat liver cells. <i>Mechanisms of Ageing and Development</i> , 1988, 45, 41-49.   | 4.6  | 38        |
| 156 | UV-induced unscheduled DNA synthesis in fibroblasts of aging inbred rats. <i>Mutation Research - DNA Repair Reports</i> , 1985, 146, 197-204.   | 1.8  | 14        |
| 157 | Kinetics of ultraviolet induced DNA excision repair in rat and human fibroblasts. <i>Mutation Research - DNA Repair Reports</i> , 1984, 132, 129-138.   | 1.8  | 47        |
| 158 | Single-Cell Whole-Genome Sequencing Reveals B Lymphocyte Mutational Landscapes Across the Human Lifespan. <i>SSRN Electronic Journal</i> , 0, , .   | 0.4  | 0         |