

# Brian H Chen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

|                   |                         |                |                 |
|-------------------|-------------------------|----------------|-----------------|
| 53<br>papers      | 5,170<br>citations      | 29<br>h-index  | 60<br>g-index   |
| 60<br>ext. papers | 6,977<br>ext. citations | 9.5<br>avg, IF | 4.83<br>L-index |

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 53 | Predicting physiological aging rates from a range of quantitative traits using machine learning. <i>Aging</i> , <b>2021</b> , 13, 23471-23516   | 5.6  | 0         |
| 52 | The trans-ancestral genomic architecture of glycemic traits. <i>Nature Genetics</i> , <b>2021</b> , 53, 840-860   | 36.3 | 44        |
| 51 | The 2020 FASEB virtual Catalyst Conference on Integrative Approach for Complex Diseases Prevention and Management and Beyond, December 16, 2020. <i>FASEB Journal</i> , <b>2021</b> , 35, e21500  | 0.9  |           |
| 50 | Rad18 mediates specific mutational signatures and shapes the genomic landscape of carcinogen-induced tumors. <i>NAR Cancer</i> , <b>2021</b> , 3, zcaa037   | 5.2  | 6         |
| 49 | Blood DNA methylation sites predict death risk in a longitudinal study of 12, 300 individuals. <i>Aging</i> , <b>2020</b> , 12, 14092-14124   | 5.6  | 6         |
| 48 | Blood Leukocyte DNA Methylation Predicts Risk of Future Myocardial Infarction and Coronary Heart Disease. <i>Circulation</i> , <b>2019</b> , 140, 645-657   | 16.7 | 65        |
| 47 | Novel age-associated DNA methylation changes and epigenetic age acceleration in middle-aged African Americans and whites. <i>Clinical Epigenetics</i> , <b>2019</b> , 11, 119   | 7.7  | 37        |
| 46 | Epigenetic age is a cell-intrinsic property in transplanted human hematopoietic cells. <i>Aging Cell</i> , <b>2019</b> , 18, e12897   | 9.9  | 27        |
| 45 | Monitoring Physical Activity Levels Using Twitter Data: Infodemiology Study. <i>Journal of Medical Internet Research</i> , <b>2019</b> , 21, e12394   | 7.6  | 10        |
| 44 | The role of epigenetic aging in education and racial/ethnic mortality disparities among older U.S. Women. <i>Psychoneuroendocrinology</i> , <b>2019</b> , 104, 18-24  | 5    | 26        |
| 43 | Tracking the Epigenetic Clock Across the Human Life Course: A Meta-analysis of Longitudinal Cohort Data. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2019</b> , 74, 57-61                   | 6.4  | 45        |
| 42 | GWAS of epigenetic aging rates in blood reveals a critical role for TERT. <i>Nature Communications</i> , <b>2018</b> , 9, 387   | 17.4 | 106       |
| 41 | Genetic variants in sex hormone pathways and the risk of type 2 diabetes among African American, Hispanic American, and European American postmenopausal women in the US. <i>Journal of Diabetes</i> , <b>2018</b> , 10, 524-533        | 3.8  | 3         |
| 40 | Skeletal muscle ex vivo mitochondrial respiration parallels decline in vivo oxidative capacity, cardiorespiratory fitness, and muscle strength: The Baltimore Longitudinal Study of Aging. <i>Aging Cell</i> , <b>2018</b> , 17, e12725 | 9.9  | 57        |
| 39 | Relationships of sex hormone levels with leukocyte telomere length in Black, Hispanic, and Asian/Pacific Islander postmenopausal women. <i>Journal of Diabetes</i> , <b>2018</b> , 10, 502-511  | 3.8  | 3         |
| 38 | Age-associated microRNA expression in human peripheral blood is associated with all-cause mortality and age-related traits. <i>Aging Cell</i> , <b>2018</b> , 17, e12687  | 9.9  | 75        |
| 37 | An epigenetic biomarker of aging for lifespan and healthspan. <i>Aging</i> , <b>2018</b> , 10, 573-591  | 5.6  | 658       |

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|----|--|------|-----|
| 36 | Analysis of repeated leukocyte DNA methylation assessments reveals persistent epigenetic alterations after an incident myocardial infarction. <i>Clinical Epigenetics</i> , <b>2018</b> , 10, 161                      | 7.7  | 14  |
| 35 | Association of Body Mass Index with DNA Methylation and Gene Expression in Blood Cells and Relations to Cardiometabolic Disease: A Mendelian Randomization Approach. <i>PLoS Medicine</i> , <b>2017</b> , 14, e1002215 | 11.6 | 162 |
| 34 | Epigenetic clock analysis of diet, exercise, education, and lifestyle factors. <i>Aging</i> , <b>2017</b> , 9, 419-446   | 5.6  | 317 |
| 33 | Type 2 Diabetes Variants Disrupt Function of SLC16A11 through Two Distinct Mechanisms. <i>Cell</i> , <b>2017</b> , 170, 199-212.e20  | 56.2 | 94  |
| 32 | Leukocyte telomere length, T cell composition and DNA methylation age. <i>Aging</i> , <b>2017</b> , 9, 1983-1995   | 5.6  | 29  |
| 31 | An epigenetic clock analysis of race/ethnicity, sex, and coronary heart disease. <i>Genome Biology</i> , <b>2016</b> , 17, 171   | 18.3 | 357 |
| 30 | Peripheral Blood Transcriptomic Signatures of Fasting Glucose and Insulin Concentrations. <i>Diabetes</i> , <b>2016</b> , 65, 3794-3804  | 0.9  | 18  |
| 29 | Menopause accelerates biological aging. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 9327-32  | 11.5 | 248 |
| 28 | Metabolite Signatures of Metabolic Risk Factors and their Longitudinal Changes. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2016</b> , 101, 1779-89   | 5.6  | 14  |
| 27 | DNA methylation-based measures of biological age: meta-analysis predicting time to death. <i>Aging</i> , <b>2016</b> , 8, 1844-1865  | 5.6  | 531 |
| 26 | DNA methylation signatures of chronic low-grade inflammation are associated with complex diseases. <i>Genome Biology</i> , <b>2016</b> , 17, 255   | 18.3 | 171 |
| 25 | Integromic analysis of genetic variation and gene expression identifies networks for cardiovascular disease phenotypes. <i>Circulation</i> , <b>2015</b> , 131, 536-49   | 16.7 | 46  |
| 24 | A meta-analysis of gene expression signatures of blood pressure and hypertension. <i>PLoS Genetics</i> , <b>2015</b> , 11, e1005035  | 6    | 83  |
| 23 | DNA methylation age of blood predicts all-cause mortality in later life. <i>Genome Biology</i> , <b>2015</b> , 16, 25  | 18.3 | 670 |
| 22 | Genome-wide identification of microRNA expression quantitative trait loci. <i>Nature Communications</i> , <b>2015</b> , 6, 6601  | 17.4 | 104 |
| 21 | Web Accessibility for Older Adults: A Comparative Analysis of Disability Laws. <i>Gerontologist</i> , <b>2015</b> , 55, 854-64   | 5    | 15  |
| 20 | Integrative network analysis reveals molecular mechanisms of blood pressure regulation. <i>Molecular Systems Biology</i> , <b>2015</b> , 11, 799   | 12.2 | 72  |
| 19 | DNA methylation age of blood predicts future onset of lung cancer in the women's health initiative. <i>Aging</i> , <b>2015</b> , 7, 690-700  | 5.6  | 189 |

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|----|--|------|-----|
| 18 | Identification of common genetic variants controlling transcript isoform variation in human whole blood. <i>Nature Genetics</i> , <b>2015</b> , 47, 345-52   | 36.3 | 77  |
| 17 | A systematic heritability analysis of the human whole blood transcriptome. <i>Human Genetics</i> , <b>2015</b> , 134, 343-58   | 6.3  | 15  |
| 16 | Epigenome-wide association study of fasting blood lipids in the Genetics of Lipid-lowering Drugs and Diet Network study. <i>Circulation</i> , <b>2014</b> , 130, 565-72  | 16.7 | 161 |
| 15 | Effects of varying doses of testosterone on atherogenic markers in healthy younger and older men. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2014</b> , 306, R118-23   | 3.2  | 5   |
| 14 | Meta-analysis of genome-wide association studies in African Americans provides insights into the genetic architecture of type 2 diabetes. <i>PLoS Genetics</i> , <b>2014</b> , 10, e1004517  | 6    | 151 |
| 13 | Age, body mass, usage of exogenous estrogen, and lifestyle factors in relation to circulating sex hormone-binding globulin concentrations in postmenopausal women. <i>Clinical Chemistry</i> , <b>2014</b> , 60, 174-83  | 5.5  | 17  |
| 12 | A prospective study of leukocyte telomere length and risk of type 2 diabetes in postmenopausal women. <i>Diabetes</i> , <b>2012</b> , 61, 2998-3004  | 0.9  | 51  |
| 11 | A genome-wide association meta-analysis of circulating sex hormone-binding globulin reveals multiple Loci implicated in sex steroid hormone regulation. <i>PLoS Genetics</i> , <b>2012</b> , 8, e1002805   | 6    | 116 |
| 10 | Sex hormone-binding globulin and risk of clinical diabetes in American black, Hispanic, and Asian/Pacific Islander postmenopausal women. <i>Clinical Chemistry</i> , <b>2012</b> , 58, 1457-66   | 5.5  | 24  |
| 9  | Coffee and caffeine consumption in relation to sex hormone-binding globulin and risk of type 2 diabetes in postmenopausal women. <i>Diabetes</i> , <b>2011</b> , 60, 269-75  | 0.9  | 58  |
| 8  | Association of resistin promoter polymorphisms with plasma resistin levels and type 2 diabetes in women and men. <i>International Journal of Molecular Epidemiology and Genetics</i> , <b>2010</b> , 1, 167-74   | 0.9  | 7   |
| 7  | Circulating levels of resistin and risk of type 2 diabetes in men and women: results from two prospective cohorts. <i>Diabetes Care</i> , <b>2009</b> , 32, 329-34   | 14.6 | 97  |
| 6  | NTD prevalences in central California before and after folic acid fortification. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , <b>2008</b> , 82, 547-52  |      | 14  |
| 5  | Novel risk factor in gastroschisis: change of paternity. <i>American Journal of Medical Genetics, Part A</i> , <b>2007</b> , 143A, 653-9   | 2.5  | 35  |
| 4  | Association between 49 infant gene polymorphisms and preterm delivery. <i>American Journal of Medical Genetics, Part A</i> , <b>2007</b> , 143A, 1990-6  | 2.5  | 7   |
| 3  | Prevalence of periconceptional folic acid use and perceived barriers to the postgestation continuance of supplemental folic acid: survey results from a Teratogen Information Service. <i>Birth Defects Research Part A: Clinical and Molecular Teratology</i> , <b>2006</b> , 76, 193-9 |      | 28  |
| 2  | An epigenetic biomarker of aging for lifespan and healthspan   |      | 2   |
| 1  | GWAS of epigenetic ageing rates in blood reveals a critical role for TERT  |      | 1   |

