# Brian J Bennett

List of Publications by Year
in descending order



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|---|---|---|---|
| 89 papers | 11,231 citations | 101384 36 h-index | 79541 73 g-index |
| 91 all docs | 91 docs citations | 91 times ranked | 16766 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Gut flora metabolism of phosphatidylcholine promotes cardiovascular disease. Nature, 2011, 472, 57-63. | 13.7 | 4,238 |
| 2 | Trimethylamine-N-Oxide, a Metabolite Associated with Atherosclerosis, Exhibits Complex Genetic and Dietary Regulation. Cell Metabolism, 2013, 17, 49-60. | 7.2 | 794 |
| 3 | Ambient Particulate Pollutants in the Ultrafine Range Promote Early Atherosclerosis and Systemic Oxidative Stress. Circulation Research, 2008, 102, 589-596. | 2.0 | 551 |
| 4 | Comparative Analysis of Proteome and Transcriptome Variation in Mouse. PLoS Genetics, 2011, 7, e1001393. | 1.5 | 548 |
| 5 | Genetic Control of Obesity and Gut Microbiota Composition in Response to High-Fat, High-Sucrose Diet in Mice. Cell Metabolism, 2013, 17, 141-152. | 7.2 | 464 |
| 6 | Transmission of Atherosclerosis Susceptibility with Gut Microbial Transplantation. Journal of Biological Chemistry, 2015, 290, 5647-5660. | 1.6 | 400 |
| 7 | A high-resolution association mapping panel for the dissection of complex traits in mice. Genome Research, 2010, 20, 281-290. | 2.4 | 299 |
| 8 | Osteoprotegerin Inactivation Accelerates Advanced Atherosclerotic Lesion Progression and Calcification in Older ApoE â^'/â^' Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 2117-2124. | 1.1 | 275 |
| 9 | Flavin containing monooxygenase 3 exerts broad effects on glucose and lipid metabolism and atherosclerosis. Journal of Lipid Research, 2015, 56, 22-37. | 2.0 | 254 |
| 10 | Inhibition of Bone Morphogenetic Proteins Protects Against Atherosclerosis and Vascular Calcification. Circulation Research, 2010, 107, 485-494. | 2.0 | 224 |
| 11 | Effect of egg ingestion on trimethylamine-N-oxide production in humans: a randomized, controlled, dose-response study , , ,. American Journal of Clinical Nutrition, 2014, 100, 778-786. | 2.2 | 195 |
| 12 | Calcification of Advanced Atherosclerotic Lesions in the Innominate Arteries of ApoE-Deficient Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1420-1425. | 1.1 | 158 |
| 13 | The Hybrid Mouse Diversity Panel: a resource for systems genetics analyses of metabolic and cardiovascular traits. Journal of Lipid Research, 2016, 57, 925-942. | 2.0 | 143 |
| 14 | Simvastatin Promotes Atherosclerotic Plaque Stability in ApoE-Deficient Mice Independently of Lipid Lowering. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1832-1837. | 1.1 | 135 |
| 15 | Hybrid mouse diversity panel: a panel of inbred mouse strains suitable for analysis of complex genetic traits. Mammalian Genome, 2012, 23, 680-692. | 1.0 | 134 |
| 16 | Unraveling Inflammatory Responses using Systems Genetics and Gene-Environment Interactions in Macrophages. Cell, 2012, 151, 658-670. | 13.5 | 134 |
| 17 | MicrobiotaâEDependent Metabolite Trimethylamine NâEOxide and Coronary Artery Calcium in the Coronary Artery Risk Development in Young Adults Study (CARDIA). Journal of the American Heart Association, 2016, 5, . | 1.6 | 132 |
| 18 | High-fat dietâ€“induced colonocyte dysfunction escalates microbiota-derived trimethylamine N -oxide. Science, 2021, 373, 813-818. | 6.0 | 132 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Expanding role of gut microbiota in lipid metabolism. Current Opinion in Lipidology, 2016, 27, 141-147. | 1.2 | 128 |
| 20 | Genetic Architecture of Atherosclerosis in Mice: A Systems Genetics Analysis of Common Inbred Strains. PLoS Genetics, 2015, 11, e1005711. | 1.5 | 124 |
| 21 | Comparative Genome-Wide Association Studies in Mice and Humans for Trimethylamine N -Oxide, a Proatherogenic Metabolite of Choline and <scp>l</scp> -Carnitine. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 1307-1313. | 1.1 | 119 |
| 22 | Mouse Genome-Wide Association and Systems Genetics Identify Asxl2 As a Regulator of Bone Mineral Density and Osteoclastogenesis. PLoS Genetics, 2011, 7, e1002038. | 1.5 | 108 |
| 23 | Myeloid Slc2a1-Deficient Murine Model Revealed Macrophage Activation and Metabolic Phenotype Are Fueled by GLUT1. Journal of Immunology, 2019, 202, 1265-1286. | 0.4 | 104 |
| 24 | Nutrigenomics, the Microbiome, and Gene-Environment Interactions: New Directions in Cardiovascular Disease Research, Prevention, and Treatment. Circulation: Cardiovascular Genetics, 2016, 9, 291-313. | 5.1 | 99 |
| 25 | Epigenome-Wide Association of Liver Methylation Patterns and Complex Metabolic Traits in Mice. Cell Metabolism, 2015, 21, 905-917. | 7.2 | 98 |
| 26 | Granulocyte Macrophage Colony-Stimulating Factor Regulates Dendritic Cell Content of Atherosclerotic Lesions. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 621-627. | 1.1 | 80 |
| 27 | Gene networks associated with conditional fear in mice identified using a systems genetics approach. BMC Systems Biology, 2011, 5, 43. | 3.0 | 71 |
| 28 | Adropin: An endocrine link between the biological clock and cholesterol homeostasis. Molecular Metabolism, 2018, 8, 51-64. | 3.0 | 69 |
| 29 | Responsiveness of cardiometabolic-related microbiota to diet is influenced by host genetics. Mammalian Genome, 2014, 25, 583-599. | 1.0 | 66 |
| 30 | Does Exercise Alter Gut Microbial Composition? A Systematic Review. Medicine and Science in Sports and Exercise, 2019, 51, 160-167. | 0.2 | 64 |
| 31 | Modulating the Microbiota as a Therapeutic Intervention for Type 2 Diabetes. Frontiers in Endocrinology, 2021, 12, 632335. | 1.5 | 63 |
| 32 | Chronic inhibition of cyclooxygenase-2 does not alter plaque composition in a mouse model of advanced unstable atherosclerosis. Cardiovascular Research, 2003, 60, 198-204. | 1.8 | 61 |
| 33 | Genetic regulation of mouse liver metabolite levels. Molecular Systems Biology, 2014, 10, 730. | 3.2 | 55 |
| 34 | Zbtb16 has a role in brown adipocyte bioenergetics. Nutrition and Diabetes, 2012, 2, e46-e46. | 1.5 | 54 |
| 35 | Systems Genetic Analysis of Osteoblast-Lineage Cells. PLoS Genetics, 2012, 8, e1003150. | 1.5 | 48 |
| 36 | High-Resolution Genetic Mapping in the Diversity Outbred Mouse Population Identifies Apobec1 as a Candidate Gene for Atherosclerosis. G3: Genes, Genomes, Genetics, 2014, 4, 2353-2363. | 0.8 | 46 |

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|---|---|---|---|
| 37 | Improving Metabolic Health Through Precision Dietetics in Mice. Genetics, 2018, 208, 399-417. | 1.2 | 44 |
| 38 | The Genetic Architecture of Coronary Artery Disease: Current Knowledge and Future Opportunities. Current Atherosclerosis Reports, 2017, 19, 6. | 2.0 | 38 |
| 39 | Nutrition and the science of disease prevention: a systems approach to support metabolic health. Annals of the New York Academy of Sciences, 2015, 1352, 1-12. | 1.8 | 37 |
| 40 | Progression and Disruption of Advanced Atherosclerotic Plaques in Murine Models. Current Drug Targets, 2008, 9, 210-216. | 1.0 | 35 |
| 41 | Genome-wide association mapping of blood cell traits in mice. Mammalian Genome, 2013, 24, 105-118. | 1.0 | 34 |
| 42 | Choline metabolites. Current Opinion in Lipidology, 2016, 27, 33-39. | 1.2 | 29 |
| 43 | Diet and Gut Microbial Function in Metabolic and Cardiovascular Disease Risk. Current Diabetes Reports, 2016, 16, 93. | 1.7 | 28 |
| 44 | Sequence meets functionâ€"microbiota and cardiovascular disease. Cardiovascular Research, 2022, 118, 399-412. | 1.8 | 24 |
| 45 | Maximal information component analysis: a novel non-linear network analysis method. Frontiers in Genetics, 2013, 4, 28. | 1.1 | 22 |
| 46 | The Genetic Landscape of Hematopoietic Stem Cell Frequency in Mice. Stem Cell Reports, 2015, 5, 125-138. | 2.3 | 21 |
| 47 | microRNA-146a-5p association with the cardiometabolic disease risk factor TMAO. Physiological Genomics, 2019, 51, 59-71. | 1.0 | 20 |
| 48 | Identification of Aortic Arch-Specific Quantitative Trait Loci for Atherosclerosis by an Intercross of DBA/2J and 129S6 Apolipoprotein E-Deficient Mice. PLoS ONE, 2015, 10, e0117478. | 1.1 | 19 |
| 49 | Neither antioxidants nor genistein inhibit the progression of established atherosclerotic lesions in older apoE deficient mice. Atherosclerosis, 2009, 203, 82-88. | 0.4 | 18 |
| 50 | Genetic Regulation of Atherosclerotic Plaque Size and Morphology in the Innominate Artery of Hyperlipidemic Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2009, 29, 348-355. | 1.1 | 16 |
| 51 | Quantitative Trait Loci Affecting Atherosclerosis at the Aortic Root Identified in an Intercross between DBA2J and 129S6 Apolipoprotein E-Null Mice. PLoS ONE, 2014, 9, e88274. | 1.1 | 15 |
| 52 | Lack of myeloid Fatp1 increases atherosclerotic lesion size in Ldlr â^'/â^' mice. Atherosclerosis, 2017, 266, 182-189. | 0.4 | 14 |
| 53 | Microbial modulation of host body composition and plasma metabolic profile. Scientific Reports, 2020, 10, 6545. | 1.6 | 14 |
| 54 | Systems genetics identifies a co-regulated module of liver microRNAs associated with plasma LDL cholesterol in murine diet-induced dyslipidemia. Physiological Genomics, 2017, 49, 618-629. | 1.0 | 13 |

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|---|---|---|---|
| 55 | High-Resolution Association Mapping of Atherosclerosis Loci in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 1790-1798. | 1.1 | 12 |
| 56 | Diesel exhaust particles dysregulate multiple immunological pathways in murine macrophages: Lessons from microarray and scRNA-seq technologies. Archives of Biochemistry and Biophysics, 2019, 678, 108116. | 1.4 | 10 |
| 57 | Ectopic expression of the Stabilin2 gene triggered by an intracisternal A particle (IAP) element in DBA/2J strain of mice. Mammalian Genome, 2020, 31, 2-16. | 1.0 | 10 |
| 58 | Genetic Background Shapes Phenotypic Response to Diet for Adiposity in the Collaborative Cross. Frontiers in Genetics, 2020, 11, 615012. | 1.1 | 10 |
| 59 | Diet, Fecal Microbiome, and Trimethylamine N-Oxide in a Cohort of Metabolically Healthy United States Adults. Nutrients, 2022, 14, 1376. | 1.7 | 10 |
| 60 | Dissecting the Genetic Architecture of Cystatin C in Diversity Outbred Mice. G3: Genes, Genomes, Genetics, 2020, 10, 2529-2541. | 0.8 | 9 |
| 61 | A Small Amount of Dietary Carbohydrate Can Promote the HFD-Induced Insulin Resistance to a Maximal Level. PLoS ONE, 2014, 9, e100875. | 1.1 | 8 |
| 62 | Genetic network identifies novel pathways contributing to atherosclerosis susceptibility in the innominate artery. BMC Medical Genomics, 2014, 7, 51. | 0.7 | 8 |
| 63 | Effects of a diet based on the Dietary Guidelines on vascular health and TMAO in women with cardiometabolic risk factors. Nutrition, Metabolism and Cardiovascular Diseases, 2022, 32, 210-219. | 1.1 | 8 |
| 64 | Plasma Choline Concentration Was Not Increased After a 6-Month Egg Intervention in 6â€“9-Month-Old Malawian Children: Results from a Randomized Controlled Trial. Current Developments in Nutrition, 2022, 6, nzab150. | 0.1 | 8 |
| 65 | Genetic Architecture Modulates Diet-Induced Hepatic mRNA and miRNA Expression Profiles in Diversity Outbred Mice. Genetics, 2020, 216, 241-259. | 1.2 | 6 |
| 66 | Adopting a Mediterranean-style eating pattern with low, but not moderate, unprocessed, lean red meat intake reduces fasting serum trimethylamine N-oxide (TMAO) in adults who are overweight or obese. British Journal of Nutrition, 2022, 128, 1738-1746. | 1.2 | 6 |
| 67 | Hepatic transcriptional profile reveals the role of diet and genetic backgrounds on metabolic traits in female progenitor strains of the Collaborative Cross. Physiological Genomics, 2021, 53, 173-192. | 1.0 | 4 |
| 68 | Genetic architecture modulates diet-induced hepatic mRNA and miRNA expression profiles in Diversity Outbred mice. Genetics, 2021, 218, . | 1.2 | 4 |
| 69 | Network-centered view of coronary artery disease. Expert Review of Cardiovascular Therapy, 2007, 5, 1095-1103. | 0.6 | 3 |
| 70 | Trimethylamine-N-Oxide (TMAO) Is Not Associated with Average Daily Intake of Red Meat or TMAO-Precursor Foods in a Generally Healthy Population. Current Developments in Nutrition, 2020, 4, nzaa040_037. | 0.1 | 1 |
| 71 | Obesogenic and diabetic effects of CD44 in mice are sexually dimorphic and dependent on genetic background. Biology of Sex Differences, 2022, 13, 14. | 1.8 | 1 |
| 72 | Abstract P025: Trimethylamine N-oxide Not Associated with Coronary Artery Calcium in Healthy, Young Adults with Normal Kidney Function: Coronary Artery Risk Development in Young Adults Study, 2000-2011. Circulation, 2016, 133, . | 1.6 | 1 |

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|---|---|---|---|
| 73 | A Mediterranean-style Eating Pattern Lower in Lean Red Meat Reduced Plasma Trimethylamine N-Oxide in Adults Classified as Overweight or Obese (P08-030-19). Current Developments in Nutrition, 2019, 3, nzz044.P08-030-19. | 0.1 | 0 |
| 74 | A Randomized Controlled-feeding Trial Based on the Dietary Guidelines for Americans Does Not Affect Plasma Trimethylamine N-oxide Levels in Women (P08-031-19). Current Developments in Nutrition, 2019, 3, nzz044.P08-031-19. | 0.1 | 0 |
| 75 | Genetic Background Heavily Impacts Effects of Diet on Obesity in a Collaborative Cross Population. Current Developments in Nutrition, 2020, 4, nzaa058_040. | 0.1 | 0 |
| 76 | Sexual Dimorphism of Atherosclerosis by Gut Microbiome in a Hyperlipidemic Diversity Outbred F1 Mouse Population. Current Developments in Nutrition, 2020, 4, nzaa062_026. | 0.1 | 0 |
| 77 | The Association of Plasma Choline With Growth and Development Among Young Malawian Children Enrolled in an Egg Intervention Trial. Current Developments in Nutrition, 2021, 5, 627. | 0.1 | 0 |
| 78 | Assessment of FMO3 SNPs in Relation to TMAO in Generally Healthy United States Adults. Current Developments in Nutrition, 2021, 5, 940. | 0.1 | 0 |
| 79 | Abstract 5519: High Resolution Genetic Mapping Strategies for Metabolic Disease in Mice: Towards Association Based Studies. Circulation, 2008, 118, . | 1.6 | 0 |
| 80 | Inhibition of bone morphogenetic protein protects against atherosclerosis and vascular calcification. FASEB Journal, 2010, 24, 116.1. | 0.2 | 0 |
| 81 | Mapping metabolic traits in the diversity outbred mouse population (818.12). FASEB Journal, 2014, 28, 818.12. | 0.2 | 0 |
| 82 | Towards nutrigenomics: studies to identify geneâ€diet interactions affecting susceptibility to cardiovascular disease (373.4). FASEB Journal, 2014, 28, 373.4. | 0.2 | 0 |
| 83 | Abstract 311: Network Analysis of Pathways Associated with Genetic Regulation of Trimethylamine-N-Oxide. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, . | 1.1 | 0 |
| 84 | Abstract 175: Lack of Macrophage GLUT1-Mediated Glucose Metabolism Increases Atherosclerotic Lesion Instability. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, . | 1.1 | 0 |
| 85 | Abstract 608: A locus on Chromosome 6 in Diversity Outbred Mice Suggests Osteogenic Regulation of Dystrophic Cardiac Calcinosis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, . | 1.1 | 0 |
| 86 | Abstract 384: Integration of Aorta Network Models from Mouse Ath-HMDP with Human GWAS Reveals Novel Mechanisms of Coronary Artery Disease. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, . | 1.1 | 0 |
| 87 | Abstract 643: Atherosclerosis Susceptibility in the Collaborative Cross. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, . | 1.1 | 0 |
| 88 | Abstract 164: Identification of Genetic Regulators of the Atherosclerosis-Associated Metabolite Trimethylamine-N-Oxide in the Diversity Outbred Mice Population. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, . | 1.1 | 0 |
| 89 | Abstract 485: CD44 Deficiency Protects Against Diet-Induced Obesity and Reduces Adipose Tissue Inflammation in Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, . | 1.1 | 0 |