# Gregory S Barsh

List of Publications by Year
in descending order



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|---|---|---|---|
| 76 papers | 6,388 citations | 159585 30 h-index | 149698 56 g-index |
| 83 all docs | 83 docs citations | 83 times ranked | 8004 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitochondrial transcription factor A is necessary for mtDNA maintance and embryogenesis in mice. Nature Genetics, 1998, 18, 231-236. | 21.4 | 1,377 |
| 2 | Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. Journal of Comparative Neurology, 1998, 402, 442-459. | 1.6 | 783 |
| 3 | Neomorphic agouti mutations in obese yellow mice. Nature Genetics, 1994, 8, 59-65. | 21.4 | 434 |
| 4 | Dilated cardiomyopathy and atrioventricular conduction blocks induced by heart-specific inactivation of mitochondrial DNA gene expression. Nature Genetics, 1999, 21, 133-137. | 21.4 | 393 |
| 5 | Genetic approaches to studying energy balance: perception and integration. Nature Reviews Genetics, 2002, 3, 589-600. | 16.3 | 361 |
| 6 | Obesity, diabetes, and neoplasia in yellow A <sup>vy</sup> /â€•mice: ectopic expression of the agouti gene. FASEB Journal, 1994, 8, 479-488. | 0.5 | 323 |
| 7 | A Î²-Defensin Mutation Causes Black Coat Color in Domestic Dogs. Science, 2007, 318, 1418-1423. | 12.6 | 311 |
| 8 | The mouse mahogany locus encodes a transmembrane form of human attractin. Nature, 1999, 398, 152-156. | 27.8 | 194 |
| 9 | Melanocortin 1 receptor variation in the domestic dog. Mammalian Genome, 2000, 11, 24-30. | 2.2 | 194 |
| 10 | Modeling 3D Facial Shape from DNA. PLoS Genetics, 2014, 10, e1004224. | 3.5 | 190 |
| 11 | A single mouse gene encodes the mitochondrial transcription factor A and a testisâ€“specific nuclear HMG-box protein. Nature Genetics, 1996, 13, 296-302. | 21.4 | 145 |
| 12 | Genetic Architecture of Skin and Eye Color in an African-European Admixed Population. PLoS Genetics, 2013, 9, e1003372. | 3.5 | 137 |
| 13 | A biochemical function for attractin in agouti-induced pigmentation and obesity. Nature Genetics, 2001, 27, 40-47. | 21.4 | 129 |
| 14 | Specifying and Sustaining Pigmentation Patterns in Domestic and Wild Cats. Science, 2012, 337, 1536-1541. | 12.6 | 110 |
| 15 | What Controls Variation in Human Skin Color?. PLoS Biology, 2003, 1, e27. | 5.6 | 104 |
| 16 | Guidelines for Genome-Wide Association Studies. PLoS Genetics, 2012, 8, e1002812. | 3.5 | 88 |
| 17 | Structures of the Agouti Signaling Protein. Journal of Molecular Biology, 2005, 346, 1059-1070. | 4.2 | 77 |
| 18 | Aberrant Inclusion of a Poison Exon Causes Dravet Syndrome and Related SCN1A-Associated Genetic Epilepsies. American Journal of Human Genetics, 2018, 103, 1022-1029. | 6.2 | 76 |

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|---|---|---|---|
| 19 | Down-Regulation of Mitochondrial Transcription Factor a During Spermatogenesis in Humans. Human Molecular Genetics, 1997, 6, 185-1991. | 2.9 | 75 |
| 20 | Biochemical and Genetic Studies of Pigment-Type Switching. Pigment Cell & Melanoma Research, 2000, 13, 48-53. | 3.6 | 66 |
| 21 | Genetics of Pigmentation in Dogs and Cats. Annual Review of Animal Biosciences, 2013, 1, 125-156. | 7.4 | 65 |
| 22 | Association of an Agouti allele with fawn or sable coat color in domestic dogs. Mammalian Genome, 2005, 16, 262-272. | 2.2 | 59 |
| 23 | Genetic regulation of OAS1 nonsense-mediated decay underlies association with COVID-19 hospitalization in patients of European and African ancestries. Nature Genetics, 2022, 54, 1103-1116. | 21.4 | 54 |
| 24 | The Interaction of Agouti Signal Protein and Melanocyte Stimulating Hormone to Regulate Melanin Formation in Mammals. Pigment Cell & Melanoma Research, 1996, 9, 191-203. | 3.6 | 51 |
| 25 | Agouti signaling protein and other factors modulating differentiation and proliferation of immortal melanoblasts. Developmental Dynamics, 2001, 221, 373-379. | 1.8 | 46 |
| 26 | Structure and chromosomal localization of the mouse mitochondrial transcription factor a gene (Tfam). Mammalian Genome, 1997, 8, 139-140. | 2.2 | 43 |
| 27 | Distribution of Mahogany/Attractin mRNA in the rat central nervous system. FEBS Letters, 1999, 462, 101-107. | 2.8 | 41 |
| 28 | A Hox-Embedded Long Noncoding RNA: Is It All Hot Air?. PLoS Genetics, 2016, 12, e1006485. | 3.5 | 38 |
| 29 | Down-regulation of Melanocortin Receptor Signaling Mediated by the Amino Terminus of Agouti Protein in XenopusMelanophores. Journal of Biological Chemistry, 1999, 274, 15837-15846. | 3.4 | 34 |
| 30 | Molecular and Functional Analysis of Human Î²-Defensin 3 Action at Melanocortin Receptors. Chemistry and Biology, 2013, 20, 784-795. | 6.0 | 30 |
| 31 | Dominant Red Coat Color in Holstein Cattle Is Associated with a Missense Mutation in the Coatomer Protein Complex, Subunit Alpha (COPA) Gene. PLoS ONE, 2015, 10, e0128969. | 2.5 | 30 |
| 32 | Molecular Pharmacology of Agouti Protein in Vitro and in Vivo. Annals of the New York Academy of Sciences, 1999, 885, 143-152. | 3.8 | 28 |
| 33 | How Hair Gets Its Pigment. Cell, 2007, 130, 779-781. | 28.9 | 26 |
| 34 | Genomic sequencing identifies secondary findings in a cohort of parent study participants. Genetics in Medicine, 2018, 20, 1635-1643. | 2.4 | 24 |
| 35 | Dog colour patterns explained by modular promoters of ancient canid origin. Nature Ecology and Evolution, 2021, 5, 1415-1423. | 7.8 | 24 |
| 36 | Epigenetic models developed for plains zebras predict age in domestic horses and endangered equids. Communications Biology, 2021, 4, 1412. | 4.4 | 23 |

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| 37 | Developmental genetics of color pattern establishment in cats. Nature Communications, 2021, 12, 5127. | 12.8 | 19 |
| 38 | Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. Journal of Comparative Neurology, 1998, 402, 442-459. | 1.6 | 19 |
| 39 | Aberrant regulation of a poison exon caused by a non-coding variant in a mouse model of Scn1a-associated epileptic encephalopathy. PLoS Genetics, 2021, 17, e1009195. | 3.5 | 18 |
| 40 | Population structure, inbreeding and stripe pattern abnormalities in plains zebras. Molecular Ecology, 2021, 30, 379-390. | 3.9 | 17 |
| 41 | De novo mutations in the GTP/GDP-binding region of RALA, a RAS-like small GTPase, cause intellectual disability and developmental delay. PLoS Genetics, 2018, 14, e1007671. | 3.5 | 16 |
| 42 | High frequency of an otherwise rare phenotype in a small and isolated tiger population. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 7.1 | 15 |
| 43 | GENETIC AND BIOCHEMICAL STUDIES OF THE AGOUTIâ€“ATTRACTIN SYSTEM. Journal of Receptor and Signal Transduction Research, 2002, 22, 63-77. | 2.5 | 14 |
| 44 | Bringing PLOS Genetics Editors to Preprint Servers. PLoS Genetics, 2016, 12, e1006448. | 3.5 | 12 |
| 45 | Neuroendocrine Regulation by the Agouti/Agrp-Melanocortin System. Endocrine Research, 2000, 26, 571-571. | 1.2 | 11 |
| 46 | Tabby pattern genetics â€“ a whole new breed of cat. Pigment Cell and Melanoma Research, 2010, 23, 514-516. | 3.3 | 10 |
| 47 | PLOS Genetics Data Sharing Policy: In Pursuit of Functional Utility. PLoS Genetics, 2015, 11, e1005716. | 3.5 | 10 |
| 48 | A geneâ€“diet interaction controlling relative intake of dietary carbohydrates and fats. Molecular Metabolism, 2022, 58, 101442. | 6.5 | 7 |
| 49 | Electrostatic Similarity Analysis of Human Î²-Defensin Binding in the Melanocortin System. Biophysical Journal, 2015, 109, 1946-1958. | 0.5 | 6 |
| 50 | PEA15 loss of function and defective cerebral development in the domestic cat. PLoS Genetics, 2020, 16, e1008671. | 3.5 | 4 |
| 51 | Whole-genome sequences shed light on the demographic history and contemporary genetic erosion of free-ranging jaguar (Panthera onca) populations. Journal of Genetics and Genomics, 2022, 49, 77-80. | 3.9 | 4 |
| 52 | Gene trap insertional mutagenesis in mice: new vectors and germ line mutations in two novel genes. , 1999, 8, 451-458. | | 3 |
| 53 | Responseâ€”How the Gray Wolf Got Its Color. Science, 2009, 325, 34-34. | 12.6 | 3 |
| 54 | Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. , 1998, 402, 442. | | 3 |

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|---|---|---|---|
| 55 | Return of raw data in genomic testing and research: ownership, partnership, and riskâ€“benefit. Genetics in Medicine, 2020, 22, 12-14. | 2.4 | 2 |
| 56 | Melanoma to Vitiligo: The Melanocyte in Biology & Medicineâ€“Joint Montagna Symposium on the Biology of Skin/PanAmerican Society for Pigment Cell Research Annual Meeting. Journal of Investigative Dermatology, 2020, 140, 269-274. | 0.7 | 2 |
| 57 | The Plight of Muntaser Ibrahim. PLoS Genetics, 2019, 15, e1008100. | 3.5 | 1 |
| 58 | Evaluating the strength of genetic results: Risks and responsibilities. PLoS Genetics, 2019, 15, e1008437. | 3.5 | 1 |
| 59 | Chemically defined projections linking the mediobasal hypothalamus and the lateral hypothalamic area. , 1998, 402, 442. | | 1 |
| 60 | David R. Cox 1946â€“2013. Nature Genetics, 2013, 45, 716-716. | 21.4 | 0 |
| 61 | The Language of Genetics In the Interviews of Jane Gitschier. PLoS Genetics, 2016, 12, e1006115. | 3.5 | 0 |
| 62 | Doubling down on forensic twin studies. PLoS Genetics, 2018, 14, e1007831. | 3.5 | 0 |
| 63 | 2018 PLOS Genetics Research Prize: Bundling, stabilizing, organizingâ€”The orchestration of acentriolar spindle assembly by microtubule motor proteins. PLoS Genetics, 2018, 14, e1007649. | 3.5 | 0 |
| 64 | Making room for opinions. PLoS Genetics, 2019, 15, e1008015. | 3.5 | 0 |
| 65 | Mixed methods. PLoS Genetics, 2020, 16, e1008950. | 3.5 | 0 |
| 66 | A Decad(e) of Reasons to Contribute to a PLOS Community-Run Journal. PLoS Genetics, 2015, 11, e1005557. | 3.5 | 0 |
| 67 | Kingdom Come. PLoS Genetics, 2020, 16, e1009178. | 3.5 | 0 |
| 68 | Expanding human variation at PLOS Genetics. PLoS Genetics, 2022, 18, e1010070. | 3.5 | 0 |
| 69 | Title is missing!. , 2021, 17, e1009195. | | 0 |
| 70 | Title is missing!. , 2021, 17, e1009195. | | 0 |
| 71 | Title is missing!. , 2021, 17, e1009195. | | 0 |
| 72 | Title is missing!. , 2021, 17, e1009195. | | 0 |

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| 73 | PEA15 loss of function and defective cerebral development in the domestic cat. , 2020, 16, e1008671. | | 0 |
| 74 | PEA15 loss of function and defective cerebral development in the domestic cat. , 2020, 16, e1008671. | | 0 |
| 75 | PEA15 loss of function and defective cerebral development in the domestic cat. , 2020, 16, e1008671. | | 0 |
| 76 | PEA15 loss of function and defective cerebral development in the domestic cat. , 2020, 16, e1008671. | | 0 |