

Samuel Deutsch

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

5,113
citations

159585

30
h-index

189892

50
g-index

51
all docs

51
docs citations

51
times ranked

9829
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Common Regulatory Variation Impacts Gene Expression in a Cell Type-Dependent Manner. <i>Science</i> , 2009, 325, 1246-1250. | 12.6 | 694 |
| 2 | Chromosome 21 and Down syndrome: from genomics to pathophysiology. <i>Nature Reviews Genetics</i> , 2004, 5, 725-738. | 16.3 | 582 |
| 3 | Genome-Wide Associations of Gene Expression Variation in Humans. <i>PLoS Genetics</i> , 2005, 1, e78. | 3.5 | 467 |
| 4 | Human microRNA-155 on Chromosome 21 Differentially Interacts with Its Polymorphic Target in the AGTR1 3' Untranslated Region: A Mechanism for Functional Single-Nucleotide Polymorphisms Related to Phenotypes. <i>American Journal of Human Genetics</i> , 2007, 81, 405-413. | 6.2 | 335 |
| 5 | Methane yield phenotypes linked to differential gene expression in the sheep rumen microbiome. <i>Genome Research</i> , 2014, 24, 1517-1525. | 5.5 | 332 |
| 6 | Domains of genome-wide gene expression dysregulation in Down's syndrome. <i>Nature</i> , 2014, 508, 345-350. | 27.8 | 298 |
| 7 | Numerous potentially functional but non-genic conserved sequences on human chromosome 21. <i>Nature</i> , 2002, 420, 578-582. | 27.8 | 226 |
| 8 | Polymorphisms in the Low-Density Lipoprotein Receptor-Related Protein 5 (LRP5) Gene Are Associated with Variation in Vertebral Bone Mass, Vertebral Bone Size, and Stature in Whites. <i>American Journal of Human Genetics</i> , 2004, 74, 866-875. | 6.2 | 226 |
| 9 | Natural Gene-Expression Variation in Down Syndrome Modulates the Outcome of Gene-Dosage Imbalance. <i>American Journal of Human Genetics</i> , 2007, 81, 252-263. | 6.2 | 187 |
| 10 | Gene Expression From the Aneuploid Chromosome in a Trisomy Mouse Model of Down Syndrome. <i>Genome Research</i> , 2004, 14, 1268-1274. | 5.5 | 183 |
| 11 | DYRK1A-Dosage Imbalance Perturbs NRSF/REST Levels, Deregulating Pluripotency and Embryonic Stem Cell Fate in Down Syndrome. <i>American Journal of Human Genetics</i> , 2008, 83, 388-400. | 6.2 | 139 |
| 12 | Lessons from Two Design-Build-Test-Learn Cycles of Dodecanol Production in <i>Escherichia coli</i> Aided by Machine Learning. <i>ACS Synthetic Biology</i> , 2019, 8, 1337-1351. | 3.8 | 107 |
| 13 | A new mouse model for the trisomy of the Abcg1-U2af1 region reveals the complexity of the combinatorial genetic code of down syndrome. <i>Human Molecular Genetics</i> , 2009, 18, 4756-4769. | 2.9 | 101 |
| 14 | Gene expression variation and expression quantitative trait mapping of human chromosome 21 genes. <i>Human Molecular Genetics</i> , 2005, 14, 3741-3749. | 2.9 | 99 |
| 15 | Knobloch syndrome: Novel mutations in <i>COL18A1</i> , evidence for genetic heterogeneity, and a functionally impaired polymorphism in endostatin. <i>Human Mutation</i> , 2004, 23, 77-84. | 2.5 | 89 |
| 16 | Phylogenomically Guided Identification of Industrially Relevant GH1 β -Glucosidases through DNA Synthesis and Nanostructure-Initiator Mass Spectrometry. <i>ACS Chemical Biology</i> , 2014, 9, 2082-2091. | 3.4 | 78 |
| 17 | Identification of <i>cis</i> - and <i>trans</i> -regulatory variation modulating microRNA expression levels in human fibroblasts. <i>Genome Research</i> , 2011, 21, 68-73. | 5.5 | 70 |
| 18 | Chemical synthesis rewriting of a bacterial genome to achieve design flexibility and biological functionality. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8070-8079. | 7.1 | 69 |

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|----|--|-----|-----------|
| 19 | The complex SNP and CNV genetic architecture of the increased risk of congenital heart defects in Down syndrome. <i>Genome Research</i> , 2013, 23, 1410-1421. | 5.5 | 65 |
| 20 | In Vitro Whole-Genome Analysis Identifies a Susceptibility Locus for HIV-1. <i>PLoS Biology</i> , 2008, 6, e32. | 5.6 | 63 |
| 21 | Genetic and epigenetic analysis of SSAT gene dysregulation in suicidal behavior. <i>American Journal of Medical Genetics Part B: Neuropsychiatric Genetics</i> , 2009, 150B, 799-807. | 1.7 | 57 |
| 22 | Streamlining the Design-to-Build Transition with Build-Optimization Software Tools. <i>ACS Synthetic Biology</i> , 2017, 6, 485-496. | 3.8 | 48 |
| 23 | Pathogenic mutations and polymorphisms in the lipoprotein receptor-related protein 5 reveal a new biological pathway for the control of bone mass. <i>Current Opinion in Lipidology</i> , 2005, 16, 207-214. | 2.7 | 47 |
| 24 | Nineteen Additional Unpredicted Transcripts from Human Chromosome 21. <i>Genomics</i> , 2002, 79, 824-832. | 2.9 | 46 |
| 25 | A cSNP Map and Database for Human Chromosome 21. <i>Genome Research</i> , 2001, 11, 300-307. | 5.5 | 46 |
| 26 | Asp1424Asn MYH9 mutation results in an unstable protein responsible for the phenotypes in May-Hegglin anomaly/Fechtner syndrome. <i>Blood</i> , 2003, 102, 529-534. | 1.4 | 43 |
| 27 | Development of an orthogonal fatty acid biosynthesis system in <i>E. coli</i> for oleochemical production. <i>Metabolic Engineering</i> , 2015, 30, 1-6. | 7.0 | 42 |
| 28 | Engineered Root Bacteria Release Plant-Available Phosphate from Phytate. <i>Applied and Environmental Microbiology</i> , 2019, 85, . | 3.1 | 41 |
| 29 | From PREDs and Open Reading Frames to cDNA Isolation: Revisiting the Human Chromosome 21 Transcription Map. <i>Genomics</i> , 2001, 78, 46-54. | 2.9 | 37 |
| 30 | Exploiting members of the BAHD acyltransferase family to synthesize multiple hydroxycinnamate and benzoate conjugates in yeast. <i>Microbial Cell Factories</i> , 2016, 15, 198. | 4.0 | 32 |
| 31 | Genomewide Linkage Scan for Split Hand/Foot Malformation with Long-Bone Deficiency in a Large Arab Family Identifies Two Novel Susceptibility Loci on Chromosomes 1q42.2-q43 and 6q14.1. <i>American Journal of Human Genetics</i> , 2007, 80, 105-111. | 6.2 | 30 |
| 32 | MAGI: A Method for Metabolite Annotation and Gene Integration. <i>ACS Chemical Biology</i> , 2019, 14, 704-714. | 3.4 | 28 |
| 33 | Investigation of Proposed Ladderane Biosynthetic Genes from Anammox Bacteria by Heterologous Expression in <i>E. coli</i> . <i>PLoS ONE</i> , 2016, 11, e0151087. | 2.5 | 26 |
| 34 | Islands of euchromatin-like sequence and expressed polymorphic sequences within the short arm of human chromosome 21. <i>Genome Research</i> , 2007, 17, 1690-1696. | 5.5 | 25 |
| 35 | Promoter polymorphisms and allelic imbalance in ABCB1 expression. <i>Pharmacogenetics and Genomics</i> , 2007, 17, 951-959. | 1.5 | 23 |
| 36 | Ectrodactyly with aplasia of long bones (OMIM; 119100) in a large inbred Arab family with an apparent autosomal dominant inheritance and reduced penetrance: Clinical and genetic analysis. <i>American Journal of Medical Genetics, Part A</i> , 2006, 140A, 1440-1446. | 1.2 | 19 |

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|----|--|------|-----------|
| 37 | A combinatorial approach to synthetic transcription factor-promoter combinations for yeast strain engineering. <i>Yeast</i> , 2018, 35, 273-280. | 1.7 | 19 |
| 38 | Genome Calligrapher: A Web Tool for Refactoring Bacterial Genome Sequences for <i>de Novo</i> DNA Synthesis. <i>ACS Synthetic Biology</i> , 2015, 4, 927-934. | 3.8 | 16 |
| 39 | Development of a High Throughput Platform for Screening Glycoside Hydrolases Based on Oxime-NIMS. <i>Frontiers in Bioengineering and Biotechnology</i> , 2015, 3, 153. | 4.1 | 14 |
| 40 | Genomic determinants of the efficiency of internal ribosomal entry sites of viral and cellular origin. <i>Nucleic Acids Research</i> , 2008, 36, 6918-6925. | 14.5 | 13 |
| 41 | Chromosome 21: a small land of fascinating disorders with unknown pathophysiology. <i>International Journal of Developmental Biology</i> , 2002, 46, 89-96. | 0.6 | 11 |
| 42 | Intersubunit Coupling Enables Fast CO ₂ -Fixation by Reductive Carboxylases. <i>ACS Central Science</i> , 2022, 8, 1091-1101. | 11.3 | 10 |
| 43 | A Synthetic Gene Library Yields a Previously Unknown Glycoside Phosphorylase That Degrades and Assembles Poly- β -1,3-GlcNAc, Completing the Suite of β -Linked GlcNAc Polysaccharides. <i>ACS Central Science</i> , 2022, 8, 430-440. | 11.3 | 7 |
| 44 | An integrated workflow for phenazine-modifying enzyme characterization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 567-577. | 3.0 | 6 |
| 45 | A plant host, <i>Nicotiana benthamiana</i> , enables the production and study of fungal lignin-degrading enzymes. <i>Communications Biology</i> , 2021, 4, 1027. | 4.4 | 5 |
| 46 | Extensive Natural Variation for Cellular Hydrogen Peroxide Release Is Genetically Controlled. <i>PLoS ONE</i> , 2012, 7, e43566. | 2.5 | 5 |
| 47 | A response to Suzuki et al. ?How pathogenic is the p.D104N/endostatin polymorphic allele of COL18A1 in Knobloch syndrome??. <i>Human Mutation</i> , 2005, 25, 316-316. | 2.5 | 2 |
| 48 | Transcriptional and post-transcriptional profile of human chromosome 21. <i>Genome Research</i> , 2009, 19, 1471-1479. | 5.5 | 2 |
| 49 | An Integrated Computer-Aided Design and Manufacturing Workflow for Synthetic Biology. <i>Methods in Molecular Biology</i> , 2020, 2205, 3-18. | 0.9 | 2 |