

# Samuel Deutsch

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

5,113  
citations

182225

30  
h-index

214428

50  
g-index

51  
all docs

51  
docs citations

51  
times ranked

11072  
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.	6.0	694
2	Chromosome 21 and Down syndrome: from genomics to pathophysiology. <i>Nature Reviews Genetics</i> , 2004, 5, 725-738.	7.7	582
3	Genome-Wide Associations of Gene Expression Variation in Humans. <i>PLoS Genetics</i> , 2005, 1, e78.	1.5	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.	2.6	335
5	Methane yield phenotypes linked to differential gene expression in the sheep rumen microbiome. <i>Genome Research</i> , 2014, 24, 1517-1525.	2.4	332
6	Domains of genome-wide gene expression dysregulation in Down's syndrome. <i>Nature</i> , 2014, 508, 345-350.	13.7	298
7	Numerous potentially functional but non-genic conserved sequences on human chromosome 21. <i>Nature</i> , 2002, 420, 578-582.	13.7	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.	2.6	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.	2.6	187
10	Gene Expression From the Aneuploid Chromosome in a Trisomy Mouse Model of Down Syndrome. <i>Genome Research</i> , 2004, 14, 1268-1274.	2.4	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.	2.6	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.	1.9	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.	1.4	101
14	Gene expression variation and expression quantitative trait mapping of human chromosome 21 genes. <i>Human Molecular Genetics</i> , 2005, 14, 3741-3749.	1.4	99
15	Knobloch syndrome: Novel mutations in COL18A1, evidence for genetic heterogeneity, and a functionally impaired polymorphism in endostatin. <i>Human Mutation</i> , 2004, 23, 77-84.	1.1	89
16	Phylogenomically Guided Identification of Industrially Relevant GH1 $\beta$ -Glucosidases through DNA Synthesis and Nanostructure-Initiator Mass Spectrometry. <i>ACS Chemical Biology</i> , 2014, 9, 2082-2091.	1.6	78
17	Identification of cis- and trans-regulatory variation modulating microRNA expression levels in human fibroblasts. <i>Genome Research</i> , 2011, 21, 68-73.	2.4	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.	3.3	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.	2.4	65
20	In Vitro Whole-Genome Analysis Identifies a Susceptibility Locus for HIV-1. <i>PLoS Biology</i> , 2008, 6, e32.	2.6	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.	1.1	57
22	Streamlining the Design-to-Build Transition with Build-Optimization Software Tools. <i>ACS Synthetic Biology</i> , 2017, 6, 485-496.	1.9	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.	1.2	47
24	Nineteen Additional Unpredicted Transcripts from Human Chromosome 21. <i>Genomics</i> , 2002, 79, 824-832.	1.3	46
25	A cSNP Map and Database for Human Chromosome 21. <i>Genome Research</i> , 2001, 11, 300-307.	2.4	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.	0.6	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.	3.6	42
28	Engineered Root Bacteria Release Plant-Available Phosphate from Phytate. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	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.	1.3	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.	1.9	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.	2.6	30
32	MAGI: A Method for Metabolite Annotation and Gene Integration. <i>ACS Chemical Biology</i> , 2019, 14, 704-714.	1.6	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.	1.1	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.	2.4	25
35	Promoter polymorphisms and allelic imbalance in ABCB1 expression. <i>Pharmacogenetics and Genomics</i> , 2007, 17, 951-959.	0.7	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.	0.7	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.	0.8	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.	1.9	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.	2.0	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.	6.5	13
41	Chromosome 21: a small land of fascinating disorders with unknown pathophysiology. <i>International Journal of Developmental Biology</i> , 2002, 46, 89-96.	0.3	11
42	Intersubunit Coupling Enables Fast CO <sub>2</sub> -Fixation by Reductive Carboxylases. <i>ACS Central Science</i> , 2022, 8, 1091-1101.	5.3	10
43	A Synthetic Gene Library Yields a Previously Unknown Glycoside Phosphorylase That Degrades and Assembles Poly- $\beta$ -1,3-GlcNAc, Completing the Suite of $\beta$ -Linked GlcNAc Polysaccharides. <i>ACS Central Science</i> , 2022, 8, 430-440.	5.3	7
44	An integrated workflow for phenazine-modifying enzyme characterization. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2018, 45, 567-577.	1.4	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.	2.0	5
46	Extensive Natural Variation for Cellular Hydrogen Peroxide Release Is Genetically Controlled. <i>PLoS ONE</i> , 2012, 7, e43566.	1.1	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.	1.1	2
48	Transcriptional and post-transcriptional profile of human chromosome 21. <i>Genome Research</i> , 2009, 19, 1471-1479.	2.4	2
49	An Integrated Computer-Aided Design and Manufacturing Workflow for Synthetic Biology. <i>Methods in Molecular Biology</i> , 2020, 2205, 3-18.	0.4	2