Resource Summary Report

Generated by NIF on Aug 30, 2026

TCAG

RRID:SCR_001840
Type: Tool

Proper Citation

TCAG (RRID:SCR_001840)

Resource Information

URL: http://tcag.ca/index.html

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Description: Service and training support for academic, government, and private sector scientists worldwide in genomics, including laboratory experimentation, statistical analysis, and comprehensive bioinformatics support, including large-scale genome comparisons, algorithm and tools development, and database curation, annotation and hosting. The Centre for Applied Genomics hosts a variety of databases related to ongoing supported projects: *Autism Chromosome Rearrangement Database *Cystic Fibrosis Mutation Database *The Lafora Progressive Myoclonus Epilepsy Mutation and Polymorphism Database *Database of Genomic Variants *The Chromosome 7 Annotation Project *Human Genome Segmental Duplication Database *Non-Human Segmental Duplication Database Healthy control DNA samples from the Ontario Population Genomics Platform are available. The Biobanking and Databasing Facility provides DNA extraction from lymphoblasts, fibroblasts and other cell types, archiving of white cell pellets, preparation and immortalization of cell lines, and comprehensive databasing and tracking of samples and/or cell lines within the facility.

Abbreviations: TCAG

Synonyms: Centre for Applied Genomics, The Centre for Applied Genomics

Resource Type: analysis service resource, biomaterial analysis service, biomaterial manufacture, data or information resource, database, material analysis service, material service resource, portal, production service resource, service resource, topical portal, training service resource

Keywords: genomics, publication, link, bioinformatics, genome, research, microarray analysis, gene expression, genotyping, biobanking, statistical analysis, genetic analysis, cytogenomics, dna sequencing, dna synthesis, comparative genomic hybridization, karyotyping, fish mapping, human, mouse, gene expression, biobanking, dna, mutation, genomic variant, chromosome 7, FASEB list

Related Condition: Healthy control, Autism, Cystic fibrosis, Epilepsy, Polymorphism

Availability: Free, Freely available

Resource Name: TCAG

Resource ID: SCR_001840

Alternate IDs: nif-0000-12519

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260829T182107+0000

Ratings and Alerts

No rating or validation information has been found for TCAG.

No alerts have been found for TCAG.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 84 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Kennedy BE, et al. (2026) Targeted hyperthermia therapy (THT) using gold nanorods remodels the tumor microenvironment to sensitize murine microsatellite-stable colorectal cancer to immune checkpoint blockade. Journal of nanobiotechnology, 24(1).

Sun Y, et al. (2026) Understanding the Mechanisms of Human Liver Regeneration via Characterization of Circulating Extracellular Vesicles. BioMed research international, 2026, 3824534.

Ahmed L, et al. (2026) A novel phenotype-guided genome analysis pipeline for variant discovery. NPJ genomic medicine, 11(1).

Ali Fairbairn S, et al. (2026) Kaiso modulates androgen receptor expression in triple-negative breast cancer. Breast cancer research : BCR, 28(1).

Coulson Z, et al. (2025) Generation of a novel mouse model of nemaline myopathy due to recurrent NEB exon 55 deletion. Skeletal muscle, 15(1), 8.

Landry AP, et al. (2025) Development and validation of a molecular classifier of meningiomas. Neuro-oncology, 27(5), 1258.

Kerkhofs K, et al. (2025) Respiratory syncytial virus (RSV) enhances translation of virus-resembling AU-rich host transcripts. Virology journal, 22(1), 244.

Ying S, et al. (2025) Influence of Polygenic Risk on Height and BMI in Adults With a 22q11.2 Microdeletion. Journal of the Endocrine Society, 9(9), bvaf115.

Lv F, et al. (2025) Molecular determinants of nucleic acid recognition by an RNA-targeting ADP-ribosyltransferase toxin. The Journal of biological chemistry, 301(8), 110463.

Nitoiu A, et al. (2025) Defective IFT57 underlies a novel cause of Bardet-Biedl syndrome. Human molecular genetics, 34(13), 1108.

Richman CM, et al. (2025) Carbonic Anhydrase Inhibition Sensitizes Group 3 Medulloblastoma to Radiotherapy. Cancer research, 85(19), 3737.

Haque B, et al. (2025) Leveraging cancer mutation data to inform the pathogenicity classification of germline missense variants. PLoS genetics, 21(1), e1011540.

Zhu H, et al. (2025) Salmonella exploits LRRK2-dependent plasma membrane dynamics to invade host cells. Nature communications, 16(1), 2329.

Kennedy V, et al. (2024) The impact of elevated sulfur and nitrogen levels on cadmium tolerance in Euglena species. Scientific reports, 14(1), 11734.

Roes MV, et al. (2024) A Genome Wide CRISPR Screen Reveals That HOXA9 Promotes Enzalutamide Resistance in Prostate Cancer. Molecular and cellular biology, 44(12), 529.

Hollands CG, et al. (2024) Identification of cells of leukemic stem cell origin with non-canonical regenerative properties. Cell reports. Medicine, 5(4), 101485.

Wang JZ, et al. (2024) Molecular classification to refine surgical and radiotherapeutic decision-making in meningioma. Nature medicine, 30(11), 3173.

Kerkhofs K, et al. (2024) Respiratory Syncytial Virus (RSV) optimizes the translational landscape during infection. bioRxiv : the preprint server for biology.

Das A, et al. (2024) Combined Immunotherapy Improves Outcome for Replication-Repair-Deficient (RRD) High-Grade Glioma Failing Anti-PD-1 Monotherapy: A Report from the International RRD Consortium. Cancer discovery, 14(2), 258.

Haque B, et al. (2024) Estimating the proportion of nonsense variants undergoing the newly described phenomenon of manufactured splice rescue. European journal of human genetics : EJHG, 32(2), 238.