Resource Summary Report

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Trinity Biobank

RRID:SCR_013279
Type: Tool

Proper Citation

Trinity Biobank (RRID:SCR_013279)

Resource Information

URL: http://www.tcd.ie/IMM/trinity-biobank/index.php

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Description: The Trinity Biobank was established in 2005 to serve the needs of researchers in the area of genetic epidemiology, population genetics and pharmacogenomics. Its services are available to researchers not only in Trinity College but to other institutions at home and abroad. We provide an automated DNA extraction service purifying large volumes blood (up to 10mL whole blood) and tissue DNA for archival and other purposes. In addition it makes available purified DNA and associated GWAS data from 2000 healthy donors for research use. A key requirement for reliable downstream use of DNA is purity and strand size. The quality of DNA in blood and tissue deteriorates upon storage without purification even at -80 degrees C. We ensure rapid turnaround of biological samples through automated extraction using the Qiagen Autopure system based on optimized "salting out" chemistry. The purified DNA sample may then be stored safely at -20 degrees C without deterioration thus freeing up valuable -80 degree C freezer space and the associated capital and maintenance cost as well as security and lab space provision. Automated DNA extraction is particularly suitable for high-throughput sample processing called for in epidemiological studies or simply for clearing sample inventory backlogs. The Trinity Biobank distributes control DNA to researchers as part of its remit to enhance the level of research activity and to synergize molecular medicine research nationally and internationally. The buffy coat collection has been made possible with the cooperation of the Irish Blood Transfusion Service (IBTS). An important requirement to access the collection is that the use of the samples relates only to ethically-approved research and to specifically-nominated research projects. The DNA collection consists of high quality human genomic DNA. Each of the available 2,000 samples is from a single individual and each sample comes with the age and gender data of the donor. The buffy coat sample is derived from the total white cell compliment (50mL buffy coat) of a blood donation (c 400mL). We will endeavor to fulfill samples number requests based on age and gender as best as possible. This collection has also been genotyped using the Affymetrix Genome-Wide Human SNP Array 6.0, featuring 1.8 million genetic markers, including more than 906,600 single nucleotide polymorphisms (SNPs) and more than

946,000 probes for the detection of copy number variation (CNV). The DNA comes available as a 100ng/uL in 100uL of TE Buffer, ie in 10ug amounts in a separate screw-cap ampoule. The ampoules are shipped in 100-tube boxes (Sarstedt). Corresponding plasma (ACD) is also available on request. Genotype data is supplied in PLINK binary PED files format (http://pngu.mgh.harvard.edu/~purcell/plink/).

Abbreviations: Trinity Biobank

Resource Type: biomaterial supply resource, material resource

Keywords: dna, blood, tissue, buffy coat, cell, packed cell, cultured cell, buccal cell, whole blood, bodily fluid, fresh, frozen, healthy, normal, genetic epidemiology, population genetics, pharmacogenomics, gene, genetics, genome-wide association study, genome-wide association study data, genotype, dna extraction, non-mammalian, bacteria, gram-positive bacteria, gram-negative bacteria

Related Condition: Healthy, Normal

Availability: Public: Its services are available to researchers not only in Trinity College but to other institutions at home and abroad. The Trinity Biobank distributes control DNA to researchers as part of its remit to enhance the level of research activity and to synergize molecular medicine research nationally and internationally. It makes available purified DNA and associated GWAS data from 2000 healthy donors for research use.

Resource Name: Trinity Biobank

Resource ID: SCR_013279

Alternate IDs: nlx_25068

Old URLs: http://www.tcd.ie/IMM/research_biobank.php

Record Creation Time: 20220129T080315+0000

Record Last Update: 20260829T183104+0000

Ratings and Alerts

No rating or validation information has been found for Trinity Biobank.

No alerts have been found for Trinity Biobank.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Darlow JM, et al. (2020) Investigation of DNA variants specific to ROBO2 Isoform 'a' in Irish vesicoureteric reflux patients reveals marked CpG island variation. Scientific reports, 10(1), 2265.

Palles C, et al. (2015) Polymorphisms near TBX5 and GDF7 are associated with increased risk for Barrett's esophagus. Gastroenterology, 148(2), 367.

Baurecht H, et al. (2015) Genome-wide comparative analysis of atopic dermatitis and psoriasis gives insight into opposing genetic mechanisms. American journal of human genetics, 96(1), 104.