

DESCRIPTION OF RESEARCH COLLECTIONS IN THL BIOBANK

Recruitment strategy, sample and data collection years and data categories collected from participants

'Summary table of THL Biobank research collections' 10.1.2022

POPULATION COLLECTIONS					
Collection name (collection years)	Number of participants	Gender	Age range at recruitment	Special characteristics	Focus of collected phenotype data
Finnish Mobile Clinic Collections	60 476 individual participants				
• Finnish Mobile Clinic (1966-1972)	51 477	M&F	15-	Country-wide health examination survey carried out in 31 study areas across Finland.	Wide spectrum of phenotype data collected at baseline and follow up, emphasis on early detection of diseases
• Finnish Mobile Clinic Follow-up (1973-1976)	19 515	M&F		Follow-up of the participants of the Finnish Mobile Clinic	
• Mini-Finland (1978-1980)	7212	M&F	29-	Population based survey on adults aged 30 and over. 1005 individuals participated also in Health 2000 and 570 in Health 2011.	Wide spectrum of phenotype data, general health and wellbeing, functional capacity
The National FINRISK Study	34 953 individual participants				
• FINRISK 1992-2012	35 214	M&F	25–74 (25-64 for FR92)	Population based survey conducted every five years. Targeting each year about 10000 individuals.	Wide spectrum of phenotype data, special emphasis on cardiovascular risk factors in working age population
• Kuusamo Health Examination 2011	250	M&F	25–74	A pilot study for FINRISK 2012 in the Kuusamo area. Part of the European Health Examination Survey.	Focus on testing EHES procedures, methods to increase study participation and pilot collection of cell samples in population studies
• DILGOM 2007	4998	M&F	25-74	Sub-study of FINRISK 2007 with focus to determine how nutrition, diet, lifestyle, psychosocial factors, environment and genetics are linked to obesity and the metabolic syndrome	Wide spectrum of metabolic phenotype data and measurements
• DILGOM 2014	1294	M&F	32–81	A follow up of the participants of the DILGOM 2007 sub-study	
Health 2000 and 2011 Surveys	8611 individual participants				
• Health 2000	7705	M&F	29- (18–29 y: only data, no samples)	Population based survey on adults aged 30 and over and re-examination of 1130 Mini-Finland participants	Wide spectrum of phenotype data, general health, functional capacity, wellbeing
• Health 2011	5138	M&F	28-	A follow up of the participants of the Health 2000 Survey, including a subset of young H2000 participants	
National FinHealth 2017 Study	6665	M&F	18-	The purpose of the study is to collect up-to-date information on the health and well-being of adults residing in Finland, and on the factors influencing their health and well-being	Wide spectrum of phenotype data, general health, functional capacity, wellbeing

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DISEASE-SPECIFIC COLLECTIONS					
Collection name (collection years)	Number of participants	Gender	Age range at recruitment	Special characteristics	Focus of collected phenotype data
THL Psychiatric Family Collections	3984 individual participants <i>Note that THL Psychiatric Family Collections can only be used for research on psychiatric diseases.</i>				
• FSZ - schizophrenia (1994-2008)	3368	M&F	No specific age	734 families ascertained for schizophrenia and schizoaffective disorder	Clinical data for affected individuals, neurocognitive tests for affected and unaffected individuals
• BPD - bipolar disorder (1994-2004)	675	M&F	No specific age	180 families ascertained for bipolar spectrum disorder	
SUPER Study (2015-2018)	9364	M&F	18-	A study on genetic mechanisms of psychotic disorders including only patients with previously diagnosed psychotic illness	Wide range of phenotype data. Currently only minimum data set (age, gender, weight, height, smoking status) available in biobank.
Migraine Family Study (1992-)	9769	M&F	1-100+	Family-based study on genetic risk factors of migraine. Including affected and unaffected individuals.	Migraine status and limited background information of participants available in biobank.
THL Diabetes Studies (1986-2013)	13 680	M&F	1-70	Family-based studies on the genetic background of type 1 diabetes. Including affected and unaffected individuals.	Diabetes status and diabetes-related characteristics
• Fusion fibroblasts (2009-2013)	300	M&F	18-	Fibroblasts or skin biopsies from persons with a normal or impaired glucose tolerance or with newly diagnosed type 2 diabetes.	
The Botnia Study	15 241 individual participants				
• Botnia PPP Study (2004-)	5666	M&F	18-	Prevalence, prediction and prevention of diabetes, population-based study	Wide spectrum of metabolic phenotype data and measurements. Exercise, nutrition and psychosocial data
• Botnia Family Study (1990-)	7372	M&F	18-	One of the largest diabetes family studies in the world (1100 families), includes follow-up information	Wide spectrum of metabolic phenotype data and measurements
• SIB Study (1994-1997)	2463	M&F	18-	Population based diabetes register study. All diabetics recruited from the West-Coast of Finland.	Wide spectrum of metabolic phenotype data and measurements; sibling pairs as focus
• MIX Study and MODY (2002-2013)	374	M&F	18-	A cohort of families with both Type 1 and Type 2 diabetes and subjects with MODY	Wide spectrum of metabolic phenotype data and measurements. Complication data, carotid ultrasound
Corogene Study (2006-2008)	5290	M&F	18-	Patients assigned to coronary angiogram in Meilahti Hospital (Helsinki)	Information on coronary disease status and relevant background information
FinnishIPF Study (2017-)	327	M&F	18-	National clinical trial of idiopathic pulmonary fibrosis (IPF) patients	IPF related diagnose code and date, and relevant background information

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OTHER RESEARCH COLLECTIONS					
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GeneRISK Study (2015-2018)	7315	M&F	45-65	A population-based study of genetic risk factors of cardiovascular diseases and on utilizing genetic information in preventing diseases	Wide spectrum of phenotype data, with focus on cardiovascular risk factors
Twin Study (1975-2012)	14 240	M&F	Several age groups	A research collection of Finnish twins (and their families)	Extensive amount of longitudinal health data collected by questionnaires and interviews in several sub-studies
Helsinki Heart Study (1981-1990)	4041	M	40-55	A randomized, double-blinded, placebo-controlled trial testing whether the cholesterol lowering drug Gemfibrozil could reduce the risk of coronary heart disease. All participants were asymptomatic middle-aged men with elevated non-HDL cholesterol values.	During the 5 year study, participants were followed regularly via questionnaires/ interviews and for collecting additional samples to obtain longitudinal samples and data
ATBC Study / "SETTI" (1984—1993)	28 951	M	50-69	A randomized, double-blinded, placebo-controlled trial testing whether alpha-tocopherol and/or beta-carotene supplements can reduce the incidence of lung and other cancers. All participants were regularly smoking middle-aged men.	Extensive amount of self-reported data on health and life-style and extensive dietary information as well as longitudinal data on physical and laboratory measurements
FinHIT Study (2011-)	3033	M&F	9-	A prospective follow-up study on health of Finnish teens concentrating on association between saliva microbiome and weight, and effects of genetics and lifestyle factors to saliva microbiome.	Information on e.g. body measurements and life-style of the teens, as well as some life-style data from the parents