SG10K_Health approved studies- updated as of 01 Jul 2025				
No.	Title of research	Lead Investigator	Institution	Date of approval
1	SV landscape in the three diverse Asian populations	Nicolas Bertin	c-BIG / Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	26 May 2020
2	The Asian Clinical Variome	Weng Khong Lim	1) SingHealth Duke-NUS Institute of Precision Medicine (PRISM), Duke-NUS Medical School 2) Cancer & Stem Cell Biology Program, Duke-NUS Medical School, Singapore	26 May 2020
3	Post-call quality control and population structure in SG10K_Health for downstream analyses	Xueling Sim	Epidemiology, Saw Swee Hock Sch of Public Health, National University of Singapore, Singapore	29 May 2020
4	To evaluate various algorithms for calling Short Tandem Repeat (STR) markers using the SG10K data	Jian Jun Liu	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	13 Aug 2020
5	Performance of Polygenic Score in SG10K_Health	Marie Loh	Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore	18 Aug 2020
6	Ageing in Asians	Brian Kennedy	NUS Medicine Healthy Longevity Research Programme, National University of Singapore, Singapore	16 Oct 2020
7	Annotation of unmapped reads from the SG10K dataset	Jian Jun Liu	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	16 Oct 2020
8	Microbial signatures in blood from WGS data for SG10K	Niranjan Nagarajan	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	16 Oct 2020

9	Variant Landscape of CYP2D6 Pharmacogene in a Multi-Ethnic Population in Singapore	Nicolas Bertin	c-BIG / Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	24 Feb 2021
10	Trusted Research/ Real world-data Utilisation and Sharing Tech (“TRUST”) Platform Phase 1 development	Mingshi Koh	Chief Health Scientist Office, Ministry of Health, Singapore	26 Feb 2021
11	SNPdrug3D – variant annotation with 3D structure drug proximity	Chandra Verma	Bioinformatics Institute, Agency for Science, Technology and Research (A*STAR), Singapore	16 Mar 2021
12	CHORUS variant browser to assist aggregated SG10K_Health variants frequency query	Eleanor Wong	Precision Medicine Office, Agency for Science, Technology and Research, (A*STAR), Singapore	16 Mar 2021
13	Exploring genetics and non-genetics relationships of methylation in SG10K_Health	John Chambers	Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore	19 Apr 2021
14	NPM Phase II- Pre-competitive Industry Consortium (PCC) Teaser sandbox	Nicolas Bertin	Centre for Big Data and Integrative Genomics (c-BIG), Genome Institute of Singapore (GIS), Agency for Science Technology and Research (A*STAR), Singapore	19 Apr 2021
15	Resource Utilisation Study on the use of Next Generation Sequencing (NGS) Technologies in Familial Hypercholesterolemia (FH)	Wee Hwee Lin	Saw Swee Hock School of Public Health, National University of Singapore, Singapore	19 Apr 2021
16	Generating phenotypes from electronic health records to enable accurate clinical variant classification in Singaporeans	Weng Khong Lim	1) SingHealth Duke-NUS Institute of Precision Medicine (PRISM) 2) Cancer & Stem Cell Biology Program, Duke-NUS Medical School, Singapore	19 Apr 2021
17	SNPdrug3D web service	Chandra Verma	Bioinformatics Institute, Agency for Science Technology and Research (A*STAR), Singapore	24 May 2021

18	Imputation web service for the National Precision Medicine Program (Phase 1A)	Richard Tai Ling Chiat	Computer Intelligence-Institute of High Performance Computing, Agency for Science Technology and Research (A*STAR), Singapore	24 May 2021
19	Polygenic risk scores and lifestyle choices on chronic disease risk	Marie Loh	Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore	24 May 2021
20	CHORUS SG10K_Health aggregated variant query webservices	Nicolas Bertin	Centre for Big Data and Integrative Genomics (c-BIG), Genome Institute of Singapore (GIS), Agency	24 May 2021
21	Natural splicing variations in Singaporeans: from human genomics to disease susceptibility	Francesc Xavier Roca Castella	School of Biological Sciences, Nanyang Technological University, Singapore	20 Jun 2021
22	Design, Development, Validation and Implementation of a Robust, Comprehensive and Adequately Customized Clinical Pharmacogenomics Testing Panel in Singapore	Folefac Aminkeng	Department of Medicine, National University of Singapore	5 Nov 2021
23	Genetic variants and methylation signatures of neurocognitive diseases in Singapore: From discovery to clinical applications	Kok Pin Ng	National Neuroscience Institute	7 Mar 2022
24	Evaluating the use of the SG10K_Health dataset to increase statistical power of disease-based associarion studies in Singapore.	Zheng Li	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	22 Mar 2022
25	Re-imputation of Southeast Asian samples using SG10K Health reference panel	Jing Mei Li	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	18 Apr 2022
26	Understanding the genomic modifiers of cancer risk in Singapore	Joanne Ngeow	Lee Kong Chian School of Medicine, Nanyang Technological University	19 May 2022

27	Whole-genome Sequencing Based Blood Group Antigen Automated Typing	JiaHai Shi	Synthetic Biology Translational Research Program, Yong Loo Lin School of Medicine, National University of Singapore	21 Jun 2022
28	Candidate gene analysis of Fuch's endothelial corneal dystrophy in a Singapore Population	Chiea Chuen Khor	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	25 Jul 2022
29	Imputation of PRS markers using a multi-ethnic reference panel derived from the Singapore population	Nicolas Bertin	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	25 Jul 2022
30	Health and Economic Impact of Next Generation Sequencing in Primary Glomerular Diseases in Singapore	Kar Hui Ng	Department of Paediatrics, Yong Loo Lin School of Medicine, National University of Singapore	16 Aug 2022
31	Construction of an Asian STR database using the SG10K WGS dataset	Jian Jun Liu	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	15 Sept 2022
32	Imputation of large-scale local GWAS datasets with ancestry matched SG10K Health reference panels	Rajkumar Dorajoo	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	15 Sept 2022
33	Application of Artificial Intelligence (AI) tools for the prediction of the effect of genetic variants in SG10K_Health	Weng Khong Lim	1) SingHealth Duke-NUS Institute of Precision Medicine (PRISM) 2) Cancer & Stem Cell Biology Program, Duke-NUS Medical School, Singapore	15 Oct 2022
34	Identification of novel genetic variants in Singaporean patients with Autism Spectrum Disorders	Jinyue Liu	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	15 Oct 2022
35	The genetic basis of autosomal recessive inherited retinal diseases in Singapore	Beau Fenner	Singapore National Eye Centre, Singapore	15 Nov 2022

36	Evaluation of HLA haplotype frequency of Singapore population for iPSC biobanking	Jonathan Yuin-Han LOH	Institute of Molecular and Cell Biology, Agency for Science, Technology and Research (A*STAR), Singapore	15 Nov 2022
37	Role of Genomics in Covid-19 Pandemic	Kelvin Bryan Tan	Programme for Research in Epidemic Preparedness and REsponse (PREPARE), MOH	15 Nov 2022
38	Prevalence of Genetic Variants PredictingDisease Onset in our Singapore Population	Mien Lin Justina Tan	SingHealth Duke-NUS Institute, Singapore	16 Dec 2022
39	Improved identification of pathogenic missense variants using state-of-the-art computational predictors and deep mutational scanning data	Joanne Ngeow	Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore	16 Dec 2022
40	CHORUS 3.0 - SG10K_Health federated aggregated variant browser webservice	Nicolas Bertin	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	4 Dec 2023
41	Identifying the Functional Consequences of Genetic Variation in Type 2 Diabetes Mellitus Susceptibility in Asia	John Greally	Albert Einstein College of Medicine, USA	26 Jan 2024
42	Investigating potential disease-related rare genetic variants in Parkinson’s disease patients of South East Asian ancestry in Malaysia	Azlina Ahmad Annuar	University of Malaya	26 Feb 2024
43	ALDH2 Polymorphism in NAFLD-HCC	Hui Min Tan	Institute of Molecular and Cell Biology, Agency for Science, Technology and Research (A*STAR), Singapore	19 Apr 2024
44	Analysing the prevalence of severe paediatric and highly penetrant genomic variants in the Singaporean population	Yasmin Bylstra	SingHealth Duke-NUS Institute of Precision Medicine, Singapore	15 May 2024

45	Functional characterisation of haplotype blocks containing cardiac-specific cis-regulatory regions in a multi-ethnic South-East Asian Cohort	Roger Foo	Cardiovascular Metabolic Translational Research Program, Yong Loo Lin School of Medicine, National University of Singapore	15 Jul 2024
46	Enhancing GWAS Data Imputation with Foundation Models	Hengtong Li	Department of Ophthalmology, Centre for Innovation and Precision Eye Health, National University of Singapore	15 Oct 2024
47	Ethnic-Specific Systems Ageing Heterogeneity	Ives Lim Yubin	Bioinformatics Institute, Agency for Science, Technology and Research (A*STAR), Singapore	15 Oct 2024
48	Cancer cell clonal tracing in CML using long-read single-cell sequencing	Elaine Cao Yiqun	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	22 Nov 2024
49	Ancestry matched imputation of Singapore Immuno-Oncology Pharmacogenomics Project (SIOPP) GWAS dataset	Yiqing Huang	National University Cancer Institute, Singapore	15 Apr 2025
50	Development of DNA Microarrays for the Inference of Extended Blood Types	Xiangxi Gao	National University of Singapore, Singapore	15 Jun 2025
51	DNA methylation surrogates and biomarkers of age-related disease in Asian population	Feng Lei	National University of Singapore, Singapore	15 Jun 2025
52	Benchmarking a quantum transformer using Asian population genomes and epigenomes	Petretto Enrico Giuseppe	Duke-NUS Medical School, Singapore	15 Jun 2025
53	Development of HLA and EBV risk variant-based assays and model for Nasopharyngeal Carcinoma risk prediction in Southeast Asia	Jianjun Liu	Genome Institute of Singapore, Agency for Science, Technology and Research (A*STAR), Singapore	15 Jun 2025