SG10K	SG10K_Health approved studies- updated as of 6 February 2024				
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	 SingHealth Duke-NUS Institute of Precision Medicine (PRISM), Duke- NUS Medical School 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	 SingHealth Duke-NUS Institute of Precision Medicine (PRISM) 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	JiaHai Shi	Synthetic Biology	21 Jun 2022
27	Blood Group Antigen Automated		Translational Research	
	Typing		Program, Yong Loo Lin	
			School of Medicine,	
			National University of	
			Singapore	
28	Candidate gene analysis of Fuch's	Chiea Chuen Khor	Genome Institute of	25 Jul 2022
	endothelial corneal dystrophy in a		Singapore, Agency for	
	Singapore Population		Science, Technology and	
			Research (A*STAR),	
			Singapore	
29	Imputation of PRS markers using a	Nicolas Bertin	Genome Institute of	25 Jul 2022
	multi-ethnic reference panel		Singapore, Agency for	
	derived from the Singapore		Science, Technology and	
	population		Research (A*STAR),	
			Singapore	
30	Health and Economic Impact of	Kar Hui Ng	Department of	16 Aug 2022
	Next Generation Sequencing in		Paediatrics, Yong Loo Lin	
	Primary Glomerular Diseases in		School of Medicine,	
	Singapore		National University of	
			Singapore	
31	Construction of an Asian STR	Jian Jun Liu	Genome Institute of	15 Sep 2022
	database using the SG10K WGS		Singapore, Agency for	
	dataset		Science, Technology and	
			Research (A*STAR),	
			Singapore	
32	Imputation of large-scale local	Rajkumar Dorajoo	Genome Institute of	15 Sep 2022
	GWAS datasets with ancestry		Singapore, Agency for	
	matched SG10K Health reference		Science, Technology and	
	panels		Research (A*STAR),	
			Singapore	
33	Application of Artificial	Weng Khong Lim	1) SingHealth Duke-NUS	15 Oct 2022
	Intelligence (AI) tools for the		Institute of Precision	
	prediction of the effect of genetic		Medicine (PRISM)	
	variants in SG10K_Health		2) Cancer & Stem Cell	
			Biology Program, Duke-	
			NUS Medical School,	
34	Identification of neural genetic	linua Liu	Singapore Genome Institute of	15 Oct 2022
54	Identification of novel genetic	Jinyue Liu		15 UCI 2022
	variants in Singaporean patients		Singapore, Agency for	
	with Autism Spectrum Disorders		Science, Technology and Research (A*STAR)	
			Research (A*STAR), Singapore	
35	The genetic basis of autosomal	Beau Fenner	Singapore Singapore National Eye	15 Nov 2022
	recessive inherited retinal	Deau renner	Centre, Singapore	13 1000 2022
			Centre, Singapore	
	diseases in Singapore			

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