http://imethyl.iwate-megabank.org/

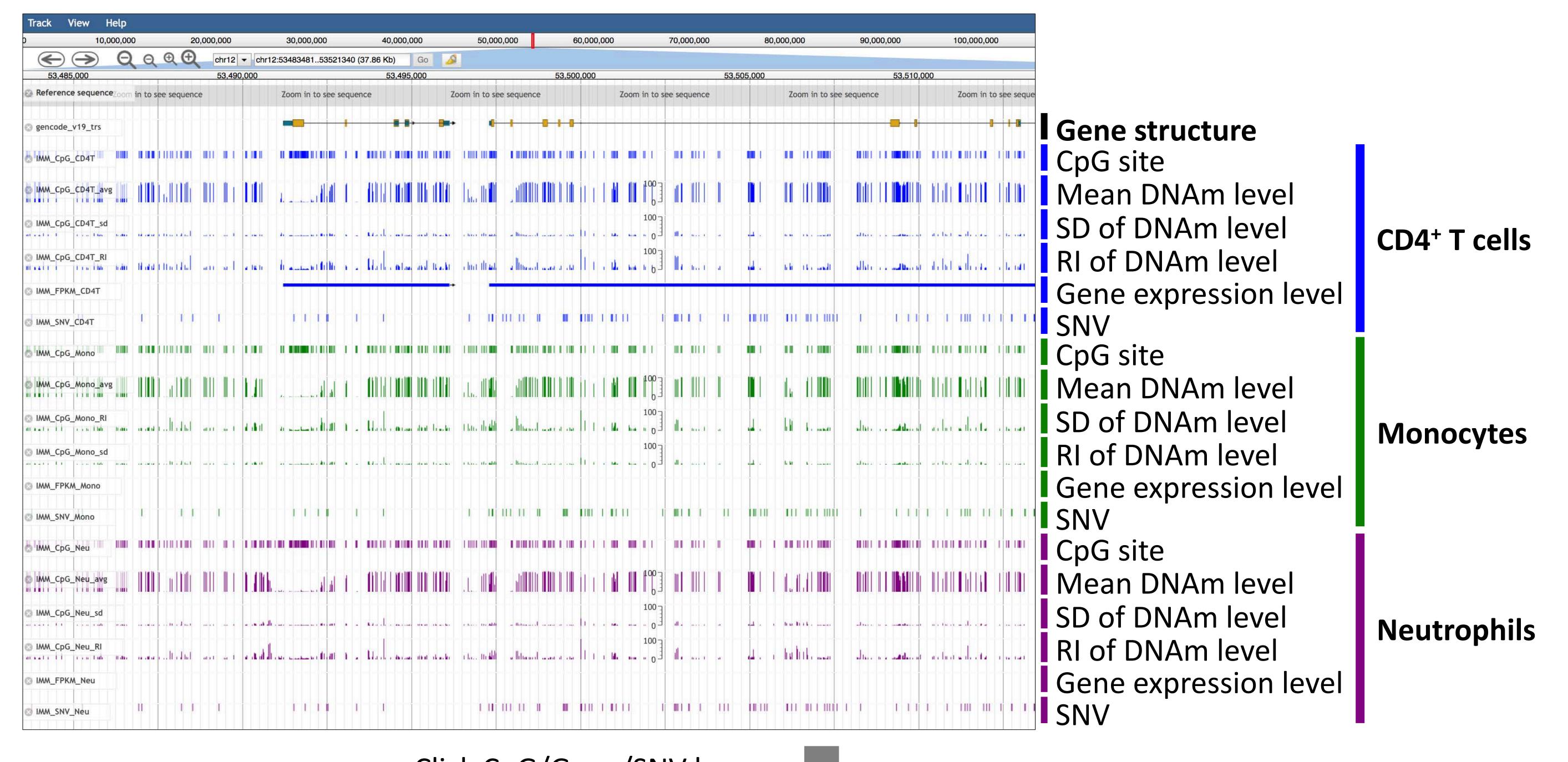
What is iMETHYL?

- The first database of DNA methylation (DNAm) variation based on high-coverage whole-genome bisulfite sequencing (WGBS) (covering ~90% of CpGs in the reference human genome).
- Integrates whole-genome DNA methylation, whole-genome, and whole-transcriptome analyses.
- Provides cell type-specific omics data: CD4⁺ T cells, monocytes, and neutrophils.
- Additional information will be released: expression and metabolomic quantitative trait loci (eQTL and mQTL) and expression quantitative trait methylation (eQTM).
- Summary data are downloadable.

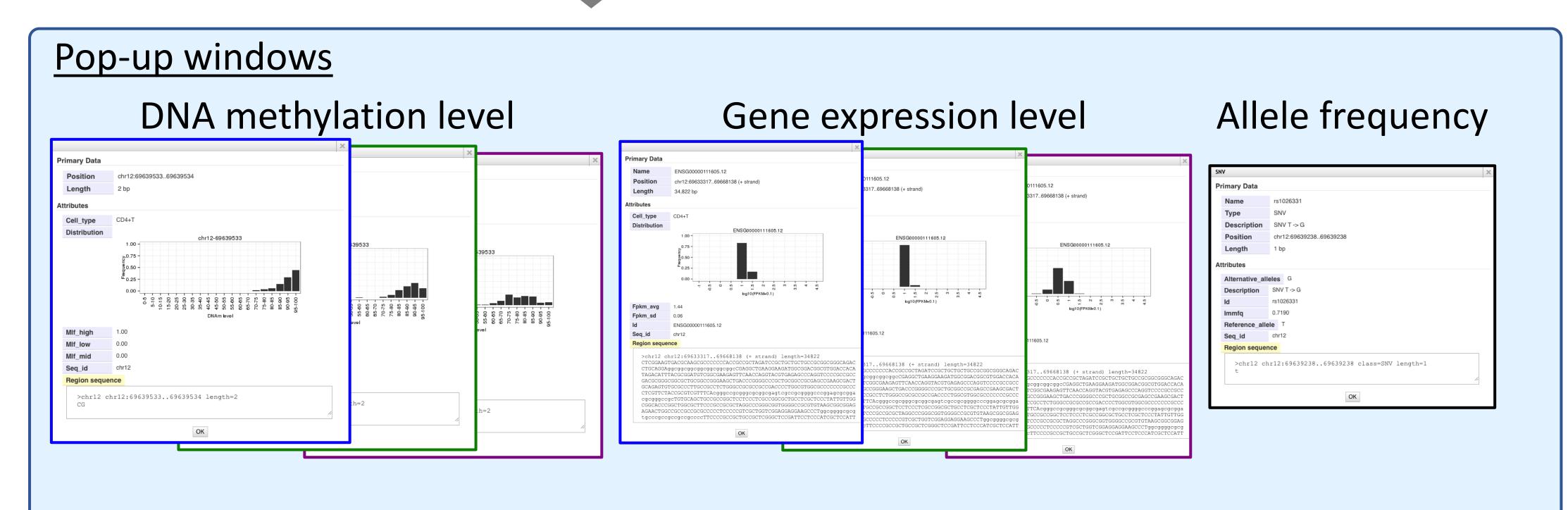
iMETHYL genome browser

Komaki S., Sasaki M., Shimizu A., et al.: Human Genome Variation, in press (2018).

Genome browser



Click CpG/Gene/SNV bars



Details of methylation rate, gene expression, and allele frequency (mean and SD)

Dataset

		CD4 ⁺ T cells	Monocytes	Neutrophils
	N (Female)	102 (53)	102 (54)	94 (46)
DNA methylation data (WGBS)	# of CpGs ^{*1}	24,037,541	23,941,843	25,483,031
Genotype data (WGS*2)	# of SNVs*3	8,951,822	8,945,669	8,792,880
Gene expression data (RNA-seq)	# of genes*4	16,789	18,894	14,534

^{*}¹With an MAF of >1%. *2DNA extracted from buffy coats was used. *3 With a call rate of ≥50%. *4With an FPKM ≥ 0.1 in ≥50% of subjects

Contact