

MAPPING THE INTERPLAY OF VIRAL AND HOST GENOMICS WITH HIFI SEQUENCING

Viral genomics

Human genomics and transcriptomics

Understand the efficacy of vaccines

Explore links between metagenomes and all aspects of virus infection and treatment response

Monitor quasispecies dynamics or the emergence of minor variants under selective pressure

Immune escape
Drug resistance

Find all the variants that impact susceptibility, immune response, and disease progression

New virus discovered
HiFi reads span viral genomes

Highly accurate long reads (HiFi reads) enable every aspect of your viral research

Chromosome 6
Class II
Class I
DQ DR B C E

Understand the spread of a novel virus or strain through communities

HiFi reads

Host genetics
Immune response

Explore how allelic variation in HLA genes correlates with susceptibility or disease progression

Identify conserved regions and mutational hotspots

CDR1 CDR2 CDR3
Somatic hypermutation
Short read
HiFi read

Understand how the germline IGH locus impacts the immune response

Sequence full-length B cell receptor repertoires



Learn more:
pacb.com/COVID-19

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