Mapping the Interplay of Viral and Host Genomics with HiFi Sequencing

**Viral Genomics**
- Understand the efficacy of vaccines
- Monitor quasispecies dynamics or the emergence of minor variants under selective pressure
- Understand the spread of a novel virus or strain through communities
- Identify conserved regions and mutational hotspots
- Sequence full-length B cell receptor repertoires

**Immune Response**
- Explore links between metagenomes and all aspects of virus infection and treatment response
- Find all the variants that impact susceptibility, immune response, and disease progression
- Explore how allelic variation in HLA genes correlates with susceptibility or disease progression
- Understand how the germline IGH locus impacts the immune response

**Host Genetics**
- Explore links between metagenomes and all aspects of virus infection and treatment response
- Find all the variants that impact susceptibility, immune response, and disease progression
- Explore how allelic variation in HLA genes correlates with susceptibility or disease progression
- Understand how the germline IGH locus impacts the immune response

**Vaccine Development**
- Understand the efficacy of vaccines
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**For Research Use Only. Not for use in diagnostic procedures.**

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