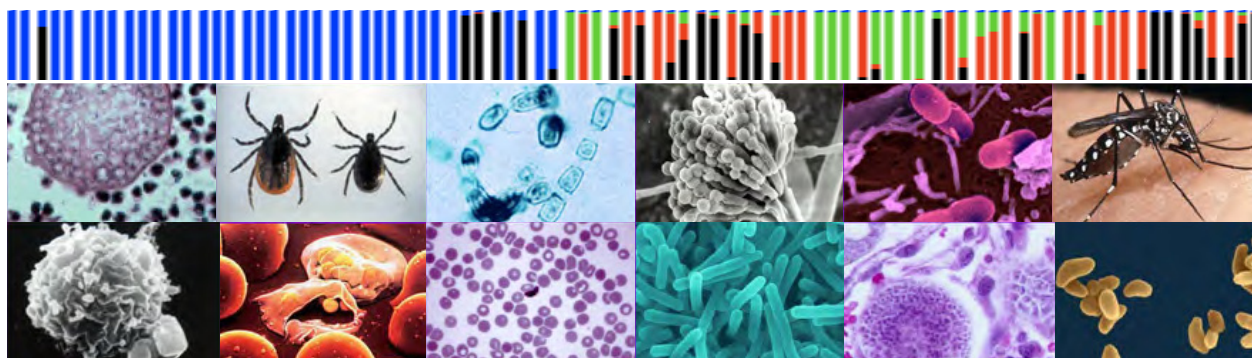


The National Institute of Allergy and Infectious Diseases (NIAID) Genomic Sequencing Center at the JCVI

JCVI seeks proposals for its Genomic Sequencing Center for Infectious Diseases

The Genomic Sequencing Center at the J. Craig Venter Institute provides high-throughput sequencing, genotyping, annotation and associated analysis as resources to support transformative research in biodefense, emerging and re-emerging infectious diseases. The center has the capacity and expertise to provide sequencing and genotyping for both the human host population as well as the associated microorganisms, with the aim to define disease susceptibility and resistance, disease surveillance and response to treatment in the host; as well as, the associated viruses, bacteria, protozoan parasites, fungi, and insect vectors.

Individual or groups of investigators with candidate infectious disease association studies are invited to propose projects by submitting white papers to NIAID. If approved by NIAID, sequencing and/or genotyping approaches could be utilized to illuminate the genetics, physiology and evolution of pathogenesis; host responses to infection and disease spread; and to facilitate the identification of novel diagnostics, methods of surveillance, vaccines, antimicrobials and other drugs. Projects may include large-scale genome-wide genotyping for disease association or drug response, vector microorganism analysis of multiple strains and/or isolates for comparative purposes, or focus on defining novel microbial agents. Additional information on the white paper process can be found at <http://gsc.jcvi.org/whitepapers.shtml>.



Examples of Organisms Under Study

Bacterial pathogens

Acinetobacter spp.
Bacillus anthracis
Burkholderia spp.
Campylobacter spp.
Coxiella burnetii
Escherichia coli/Shigella
Leptospira spp.
Staphylococcus aureus
Vibrio spp.
Yersinia pestis

Viral pathogens

Adenovirus
Coronavirus
Influenza
Norovirus
Paramyxovirus
Rotavirus

Fungal pathogens

Aspergillus spp.

Parasitic pathogens

Entamoeba spp.
Toxoplasma gondii

Insect vectors

Aedes aegypti
Culex pipiens
Ixodes scapularis