



BIONUMERICS® MICROBIAL DATA ANALYSIS SOFTWARE

Mycobacterium bovis

WHAT IS WGMLST AND WHY DO YOU NEED A SCHEMA FOR IT?

Whole genome MLST (wgMLST) is an extension of the more traditional MLST, allowing a much higher typing resolution. It offers a fast and cost-effective way to analyze bacterial genomes. A schema is essential for the wgMLST technique to work as it defines the loci to which allele numbers are assigned. It represents the basis for a stable nomenclature that you can use to communicate about outbreaks, epidemics, evolution, etc...

WHY DID WE DEVELOP A MYCOBACTERIUM BOVIS wgMLST SCHEMA?

Mycobacterium bovis is the causative agent of tuberculosis, which if not treated correctly can be fatal, in cattle. It is as such related to Mycobacterium tuberculosis, the bacterium causing tuberculosis in humans. However, M. bovis can be zoonotic and infect humans. Especially in developing countries

Mycobacterium bovis subschemes

4,701 wgMLST loci

the number of human infections is rising. A well-defined wgMLST schema can help in typing and outbreak detection and mitigation.

HOW WILL IT HELP YOU?





- ✓ Defines a robust set of loci, validated and approved by our microbiologists
- Contains minimal sample artifacts, while keeping great discriminatory power
- ✓ Represents the known diversity of the species
- ✓ Allows detection of markers specific to a certain strain. enabling powerful classification and outbreak identification

TRY IT ON YOUR OWN DATA TODAY!



1. Make sure you have a **BIONUMERICS** license



2. Request a Calculation Engine project



3. Learn from our wgMLST tutorial movies