



MAAGE

Midwest Alliance for
Applied Genomic Epidemiology

MAAGE QUICK START CHEAT SHEET

Your guide to genomic surveillance and outbreak investigation



GETTING STARTED

1 Create a Workspace

Organize your project, upload data, and collaborate with your team.



2 Choose Your Starting Point

Start with the data you already have:

IF YOU HAVE...	START HERE
Raw sequencing reads (FASTQ)	Genome Assembly & Annotation
Genome assemblies (FASTA)	Genome Annotation
Annotated genomes (GenBank)	Genome Characterization
Public genomes	Genome Search
Existing investigation	Surveillance Dashboards

3 Follow a Guided Workflow

Use the step-by-step bacterial or viral outbreak investigation workflows, or explore public genomic surveillance dashboards.



COMMON WORKFLOWS



BACTERIAL OUTBREAK INVESTIGATION

- Assemble & annotate genomes
- Species and sequence typing
- AMR & virulence prediction
- cgMLST / SNP analysis
- Cluster detection



VIRAL OUTBREAK INVESTIGATION

- Genome assembly
- Variant calling
- Lineage assignment
- Mutation analysis
- Phylogenetic analysis



GENOMIC SURVEILLANCE

- National, regional, and state dashboards
- Monitor pathogen trends
- Detect emerging lineages
- Track antimicrobial resistance



GENOME SEARCH

Search millions of public genomes by:

- Organism
- Location
- Collection date
- Host
- Lineage
- Sequence type
- AMR genes
- Virulence factors



KEY FEATURES



Integrated genomic surveillance platform



Guided bacterial and viral workflows



Millions of public genomes with rich metadata



Interactive phylogenetic, geographic, and temporal visualizations



Custom surveillance dashboards



Secure collaborative workspaces



BEST PRACTICES



Create one workspace per project or outbreak.



Verify metadata before analysis.



Compare new genomes with public reference datasets.



Combine genomic and epidemiological evidence when interpreting clusters.



Save frequently used searches and dashboards.



NEED HELP?



DOCUMENTATION & RESOURCES

- Getting Started Guide
- Workflow Tutorials
- User Documentation
- Example Investigations



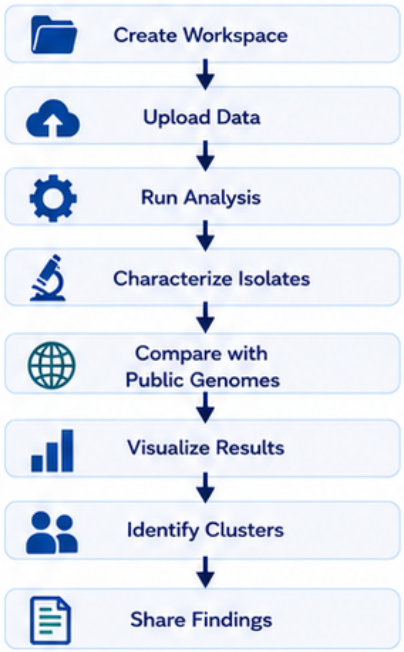
MAAGE IN ACTION

MAAGE connects genomic data with epidemiological context to inform public health decisions and protect communities.



Learn more at
[maage-brc.org](https://www.maage-brc.org)

TYPICAL INVESTIGATION WORKFLOW



LEARN MORE
Scan to access MAAGE
documentation and tutorials.



Website
<https://www.maage-brc.org/>
Documentation
<https://www.maage-brc.org/docs/>



MAAGE

Better Data. Better Decisions.
Stronger Public Health.