

Disease outbreak networks are rich with data that are hard to visualize without specialized programming skills.

MicrobeTrace is a web browser-based tool to visually render networks from surveillance, epi investigations, and genetic analyses. Using simple point-and-click interfaces, a combination of molecular, epi, and demographic data can be readily imported, integrated, and visualized... no coding required! Get customizable displays of geospatial and temporal relationships for actionable results.

Check out the new version with a refreshed design and enhanced interface built for interoperability and an improved user experience.

MicrobeTrace provides ready access to visuals for fact sheets, publications, and reports.

MicrobeTrace is delivered by a modern web browser but runs locally on your computer or laptop. This means data and analyses remain secure.



MicrobeTrace™

15,000
Global Users!



Take a 2-minute introductory tour



Read all about it



Drop us a note



Watch the training video



Use MicrobeTrace

Try the built-in example dataset to get comfortable, or try your own data.

You can use

■ Molecular data

- » FASTA files
- » Distance matrices: pairwise genetic distances

■ Distance edgelist: genetic distances in a line list (CSV)

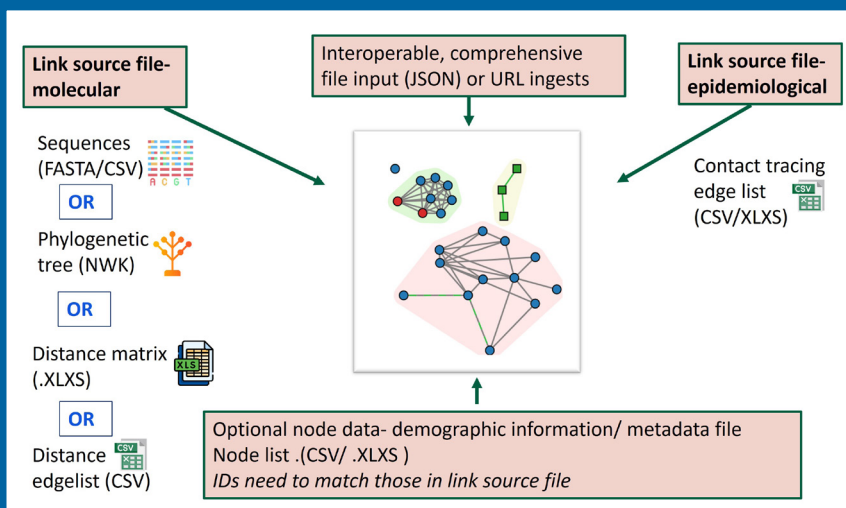
- » NWK trees

■ Epidemiological data

- » Line list of connections between people or places (CSV)

■ Demographic/metadata (CSV)

■ Specialized formats for tool interoperability

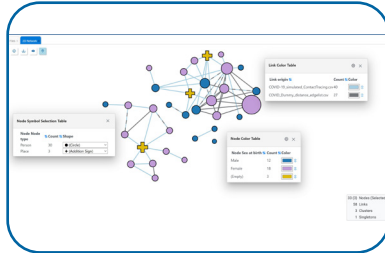


Customizable and interactive views (Sample Views As Follows)

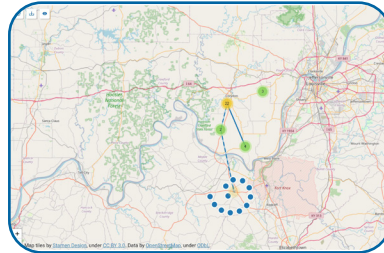
Landing Page



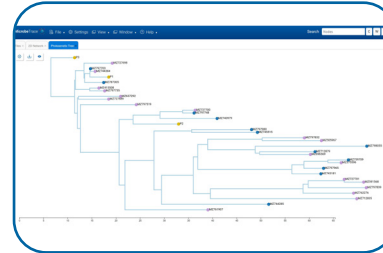
2D Network



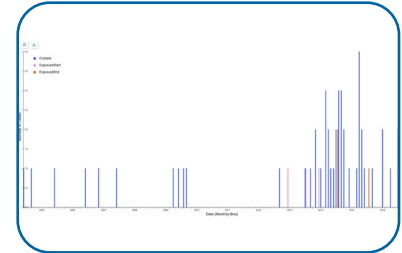
Map View



Tree View



Epi Curve



Aggregation View

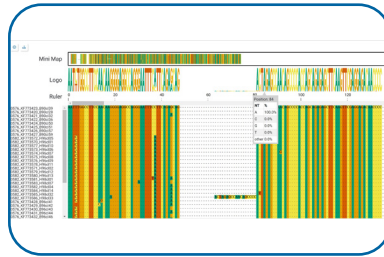
State		
State	Number of Nodes	Percent of Total Nodes
Colorado	1	2.03%
Texas	12	36.36%
Pennsylvania	1	3.03%
Arizona	1	3.03%
Florida	8	24.24%
Louisiana	5	15.15%
North Carolina	1	3.03%
Connecticut	1	3.03%
null	3	9.09%

Sex at birth		
Sex at birth	Number of Nodes	Percent of Total Nodes
Female	18	54.55%
Male	12	36.36%
null	3	9.09%

Cross Tab View

Lineage vs Profession												
T1	8.1677.2	T1	8.1677.3	T1	8.1621	T1	8.1526	T1	8.117	T1	8.1351	Total
service industry	1	0	4	0	0	0	0	0	0	0	5	
Education	3	0	0	2	1	0	0	0	6			
Other	1	2	0	1	0	1	0	1	0	5		
Healthcare	7	0	0	0	1	0	0	8				
Hospitality	1	0	0	0	1	0	0	2				
Student	1	0	0	0	1	0	0	2				
Manufacturing	1	0	0	0	0	1	0	2				
null	0	0	0	0	0	0	0	3	3			
Total	15	2	4	3	4	2	3	33				

Alignment View



Bubble View

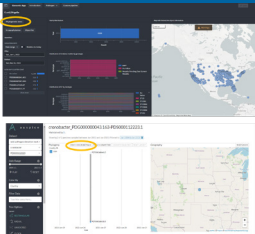


Timeline View

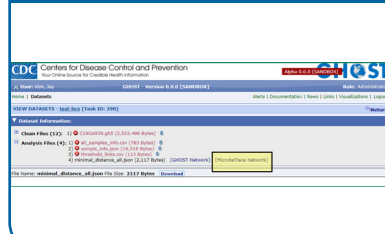


Built for synergy • Interoperability/integration with other bioinformatic platforms:

SEDRIC*
Foodborne Pathogens



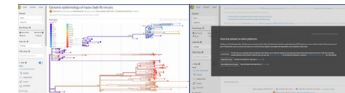
GHOST*
Viral Hepatitis



UShER
SARS CoV2



Nextstrain
Various Pathogens



Bactopia
Bacterial pathogens



*CDC/PHL tools. System for Enteric Disease Response, Investigation, and Coordination;
Global Hepatitis Outbreak and Surveillance Technology