MicrobeTrace

Geographic Data

Integrated Network Data

Timeline Data

File   Settings   View   Window   Help   Search

Map ×   2D Network ×   Gantt ×

2004-01-01   2005-01-01   2006-01-01   2007-01-01   2008-01-01   2009-01-01   2010-01-01   2011-01-01   2012-01-01   2013-01-01   2014-01-01   2015-01-01   2016-01-01

What: **MicrobeTrace** is a web-based tool to visually render networks from surveillance, epi investigations, and genetic analyses. Using simple point-and-click interfaces, data can be readily imported, integrated and visualized...no coding required!

Why: Networks are rich with sensitive data that are hard to visualize without specialized programming skills or tools that required sending data over the web. **MicrobeTrace** provides ready-access to visuals for fact sheets, publications and communiques.

How: **MicrobeTrace** is delivered by a modern* web browser, but runs locally on your computer or laptop. This means data and analyses are not sent over the web.

Where: **MicrobeTrace**: https://microbetrace.herokuapp.com
Documentation: https://github.com/CDCgov/MicrobeTRACE/wiki
Example Files: https://github.com/CDCgov/MicrobeTrace/tree/master/demo
Support: microbetrace@cdc.gov

Who: Developed by the Molecular Epidemiology and Bioinformatics Team in the Laboratory Branch of the Division of HIV/AIDS Prevention at CDC.

*Developed for Google Chrome, does not work in Internet Explorer

Other interactive and interoperable views

2D Network
3D Network
Histogram
Table
Aggregation
Bubbles
Flow Diagram
Scatterplot
Waterfall
Map
Globe
Gantt
Timeline
Heatmap
Phylogenetic Tree

Sequences

Input Files

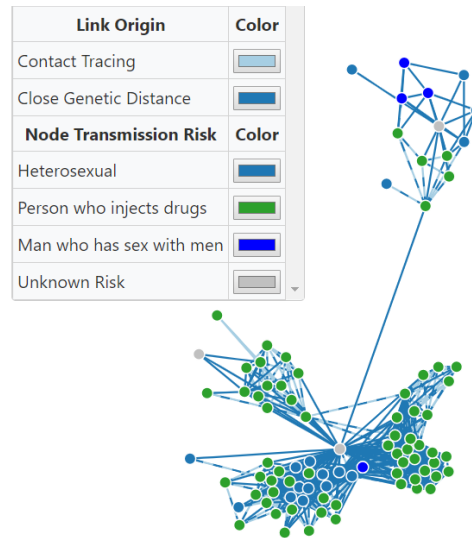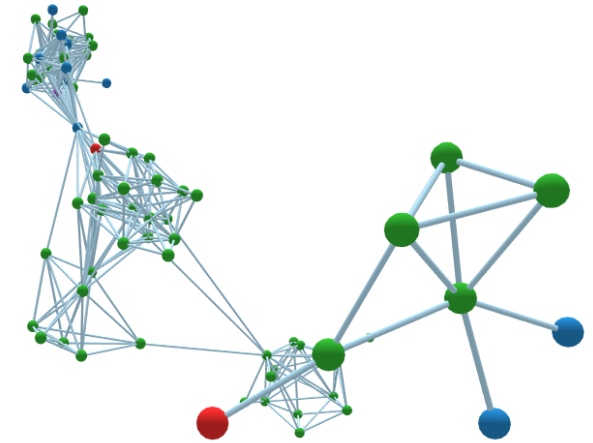**(any combination):**

- **Node Lists(s)**
  line-list of people or places

- **Edge List(s)**
  connections between people or places

- **Sequence file(s)**
  microbial genomic sequences

- **Distance matrix**
  pairwise genetic distances

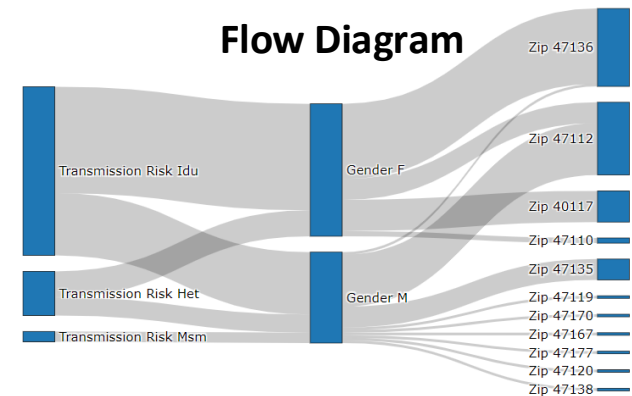- **Tree file**
  independent phylogenetic analysis
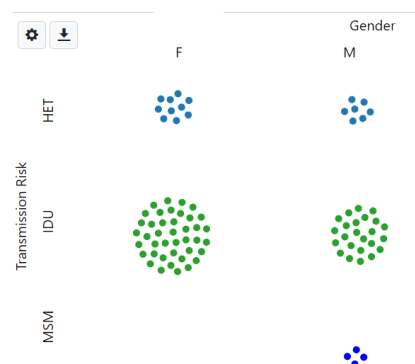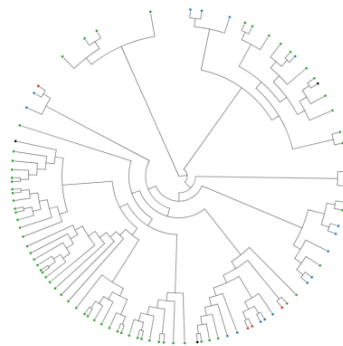
2D Network

Link Origin	Color
Contact Tracing	
Close Genetic Distance	
Node Transmission Risk	**Color**
Heterosexual	
Person who injects drugs	
Man who has sex with men	
Unknown Risk	

3D Network

Global Network

Flow Diagram

Zip 47136
Zip 47112
Zip 40117
Zip 47110
Zip 47135
Zip 47119
Zip 47170
Zip 47167
Zip 47177
Zip 47120
Zip 47138

Transmission Risk Idu
Transmission Risk Het
Transmission Risk Msm

Gender F
Gender M

Bubbles Matrix

Gender

F   M

HET

Transmission Risk

IDU

MSM

Phylogenetic Tree

Custom Histogram

Number of Links

TN93
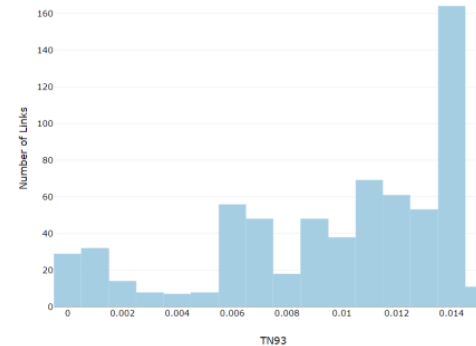
Custom Aggregate Report