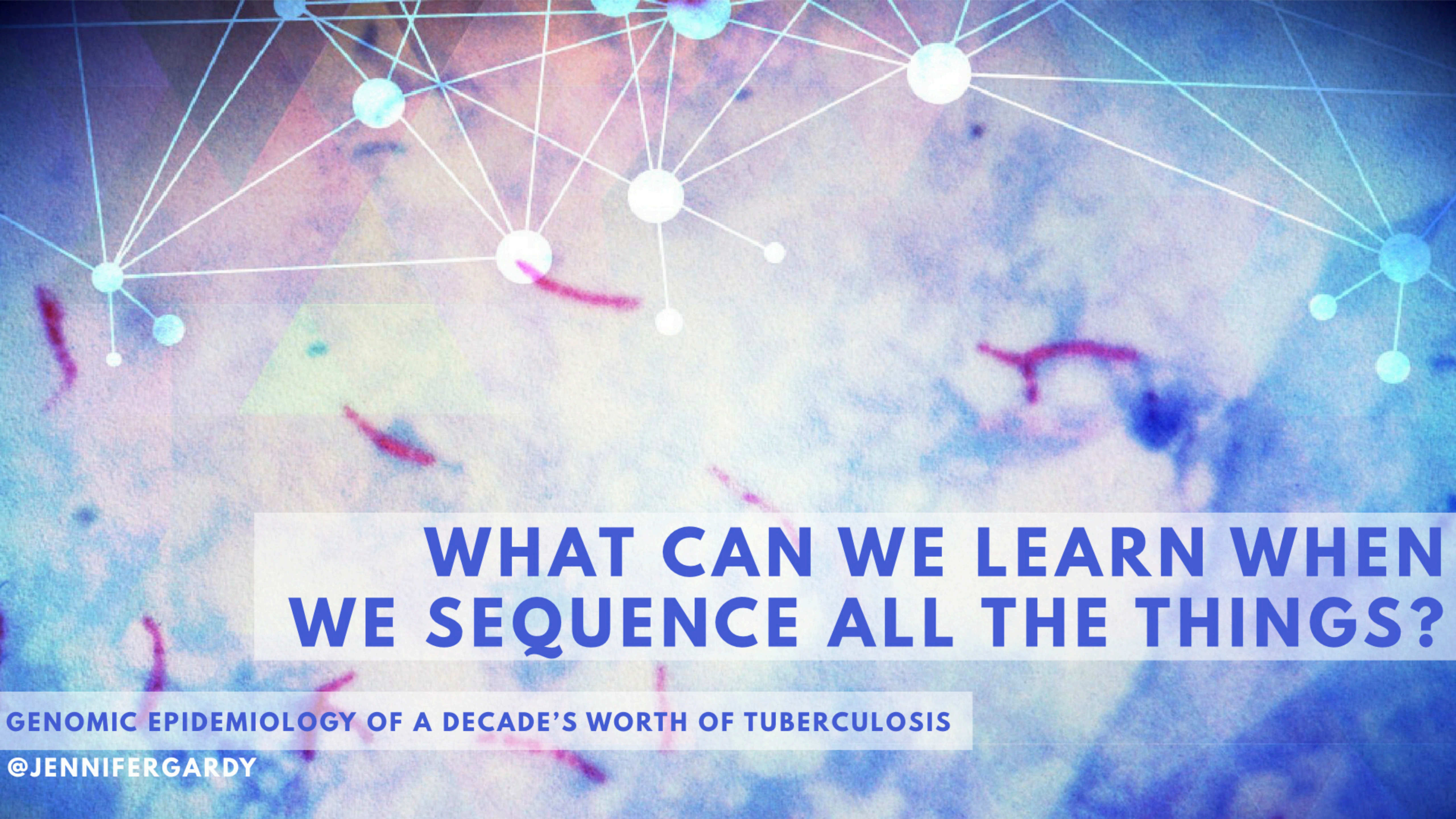




WHAT CAN WE LEARN WHEN WE SEQUENCE ALL THE THINGS?

GENOMIC EPIDEMIOLOGY OF A DECADE'S WORTH OF TUBERCULOSIS

@JENNIFERGARDY



All the Things

Part of a series on Hyperbole and a Half. [\[View Related Entries\]](#)

Updated 9 months ago by Don Caldwell.

Added 7 years ago by Don.

★ 156

1,855,619

4

692

95



Meme

Status

Confirmed

Type:

Exploitable

Year

2010

Origin

Hyperbole and a Half Comic

Tags

comic, best of 2011, exploitable

About

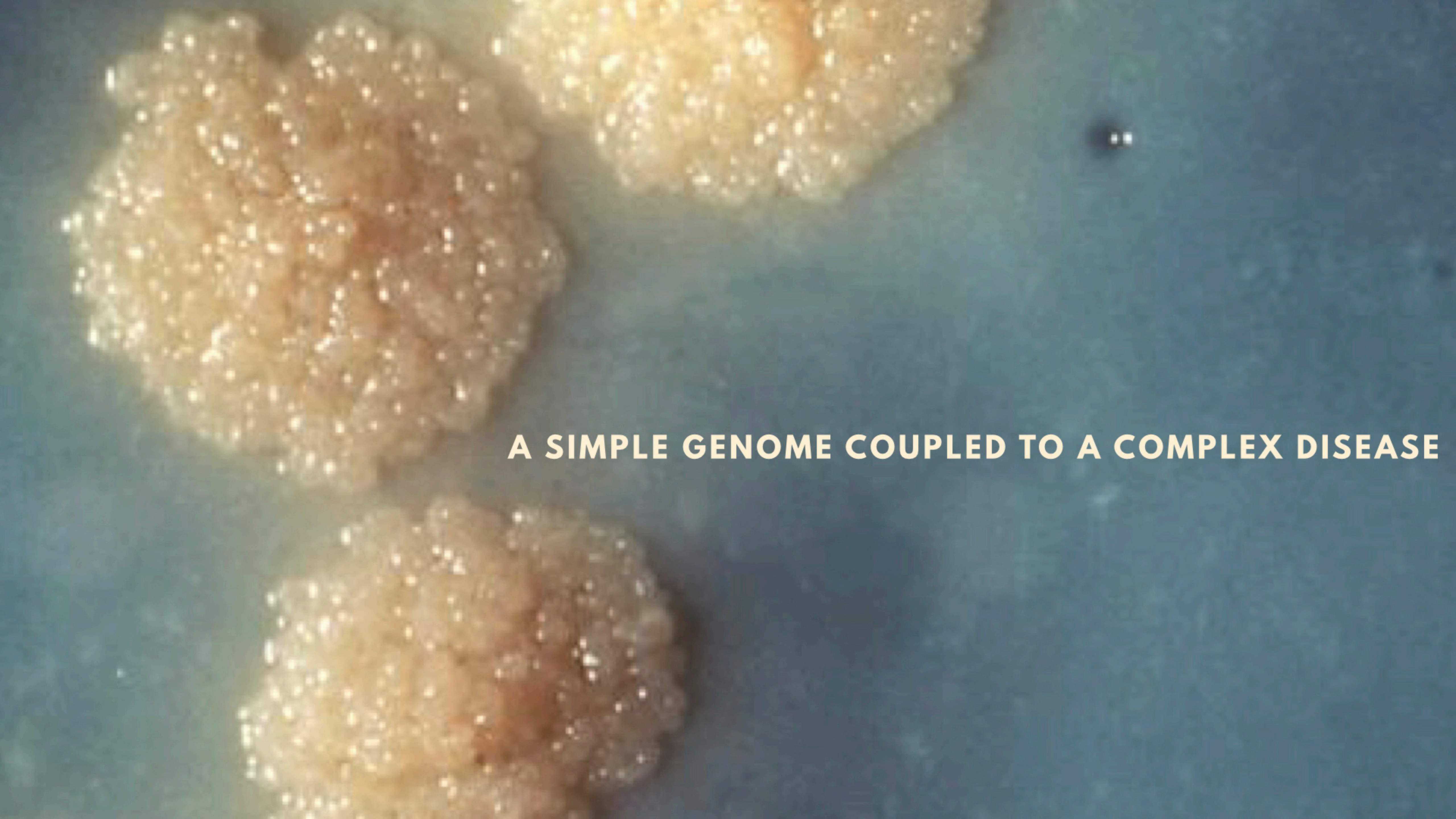
"All the Things", sometimes known as "X all the Y", is a **snowclone** and exploitable cartoon used to make a hyperbolic statement about performing an action. The person in the original comic panel is often manipulated to appear as a different character. (See also: **fsjal**)

Origin

The blog Hyperbole and a Half^[1] published a comic titled "This is Why I'll Never be an Adult" by artist Allie Brosh on June 17th, 2010. The comic describes the author's frustration with her inability to maintain a consistent enthusiasm for her daily responsibilities. The following two panels were part of the comic:

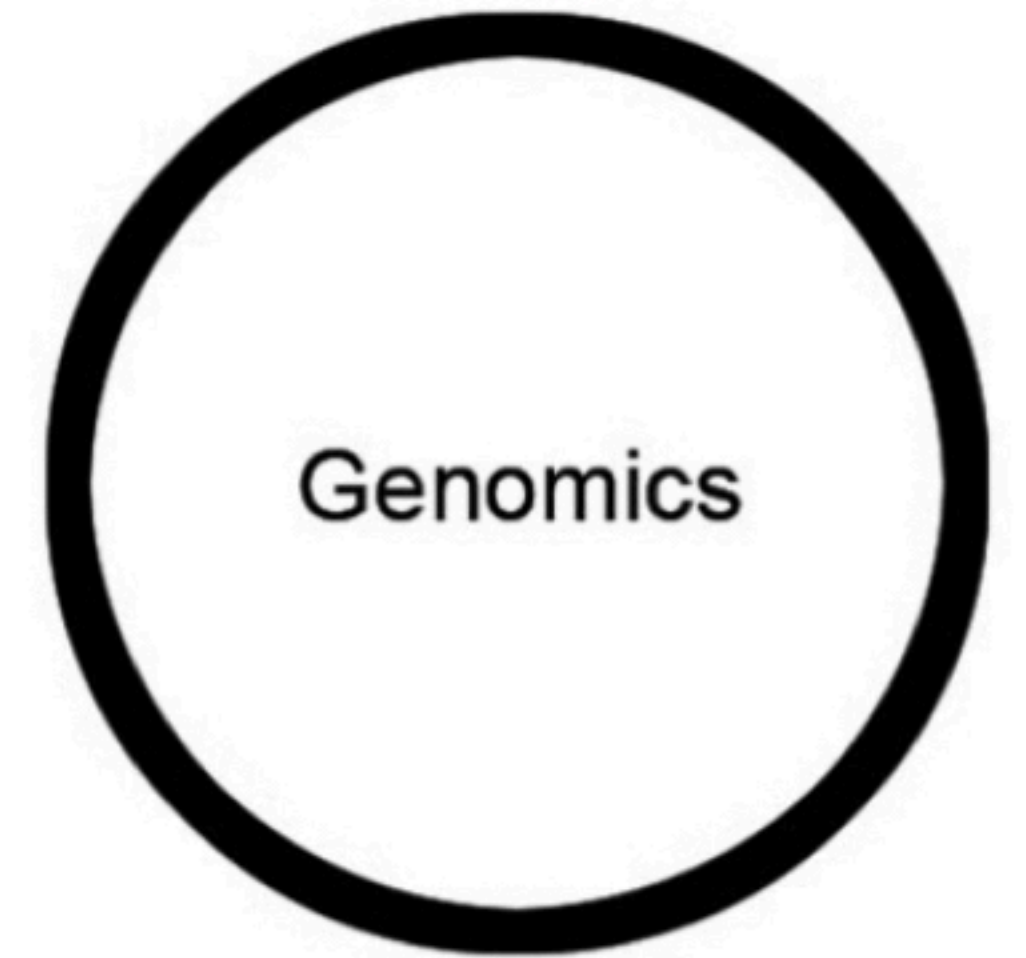
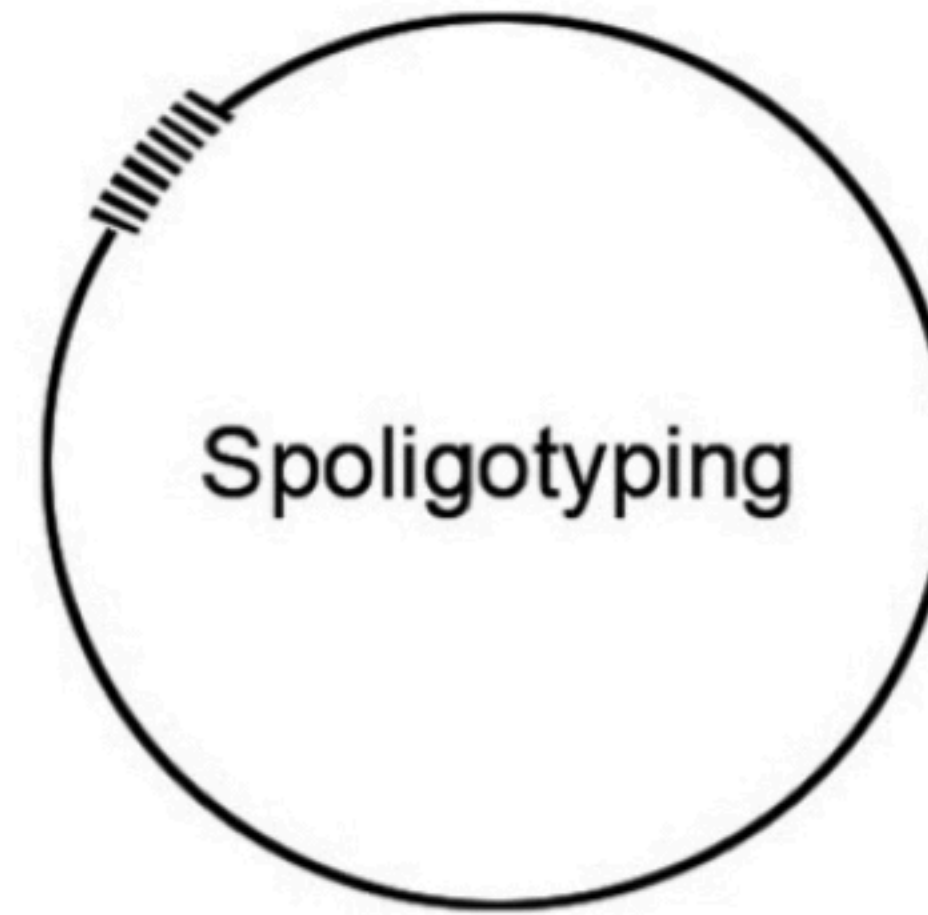
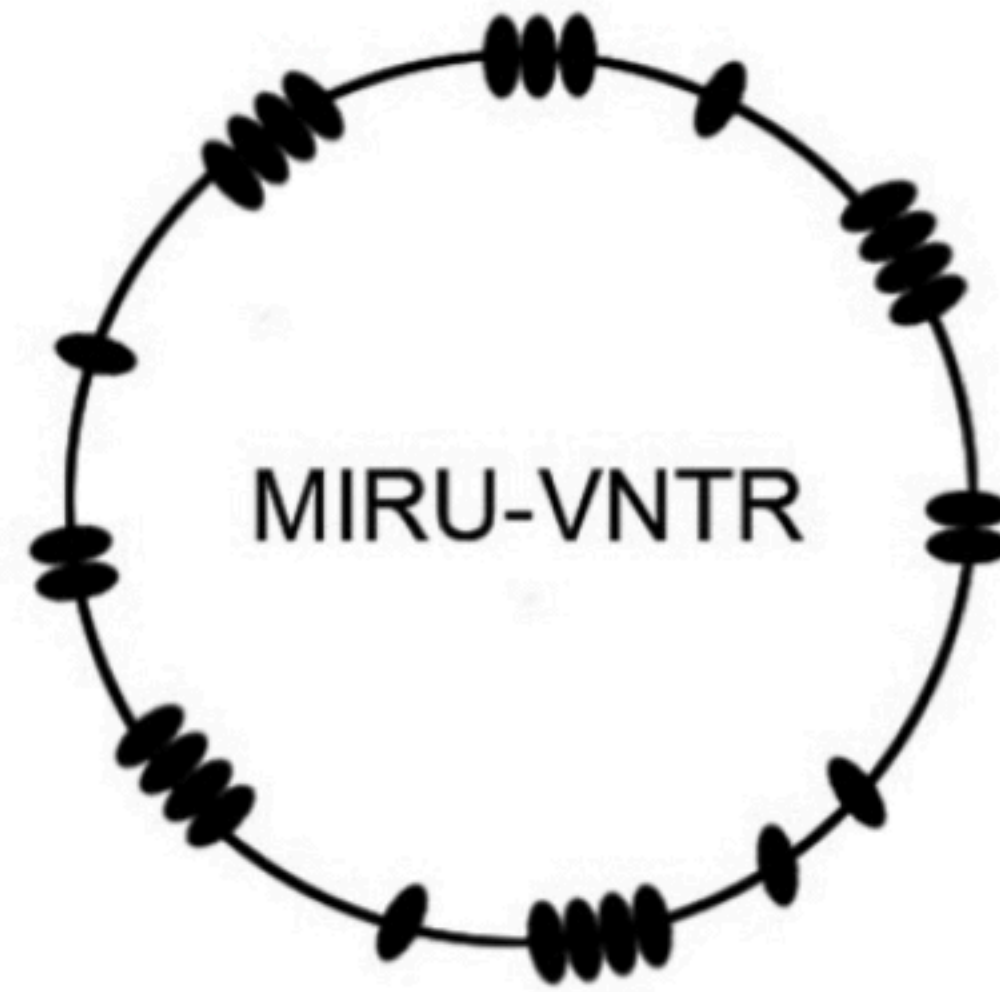
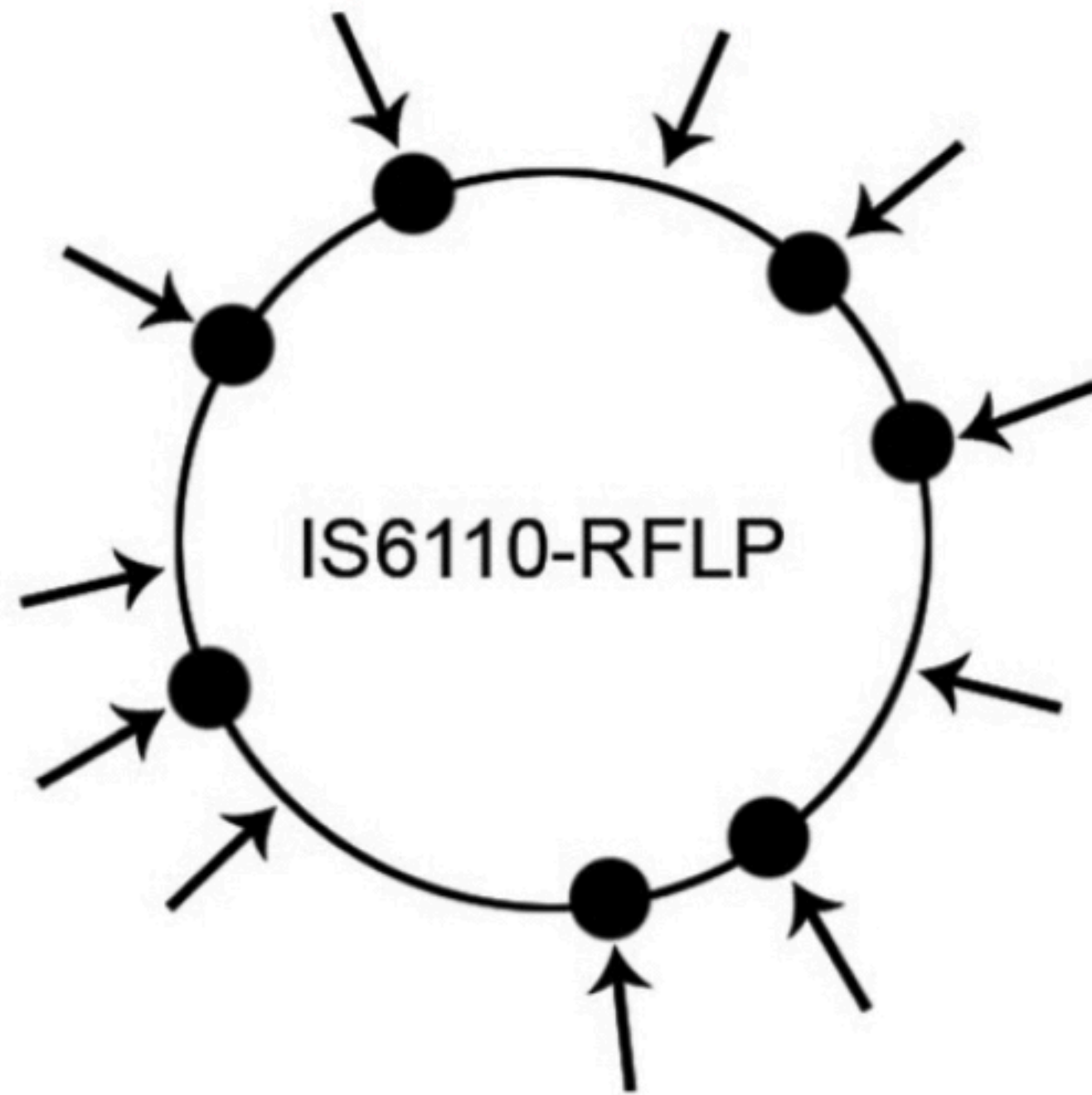
**BC HAS ABOUT 250
CASES OF TB EACH YEAR.
WHERE DO THEY COME
FROM? HOW CAN WE USE
THIS KNOWLEDGE TO
CHANGE TB POLICY &
PRACTICE?**



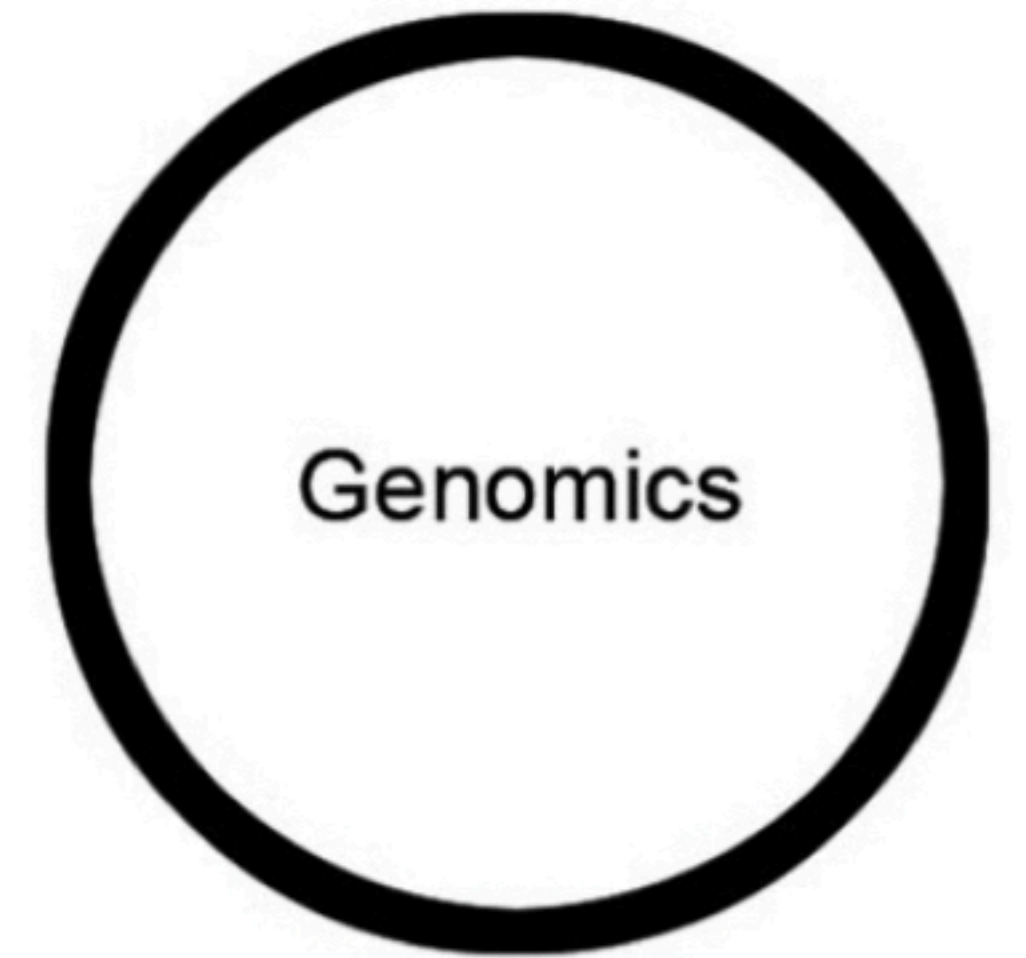
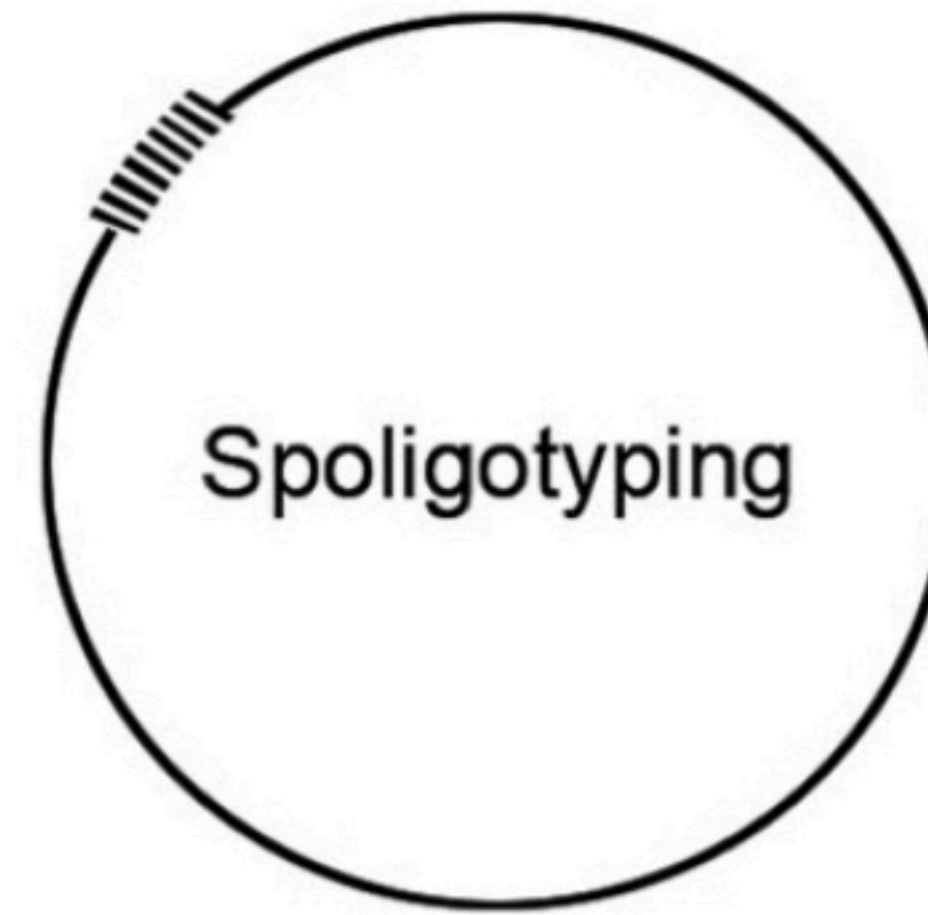
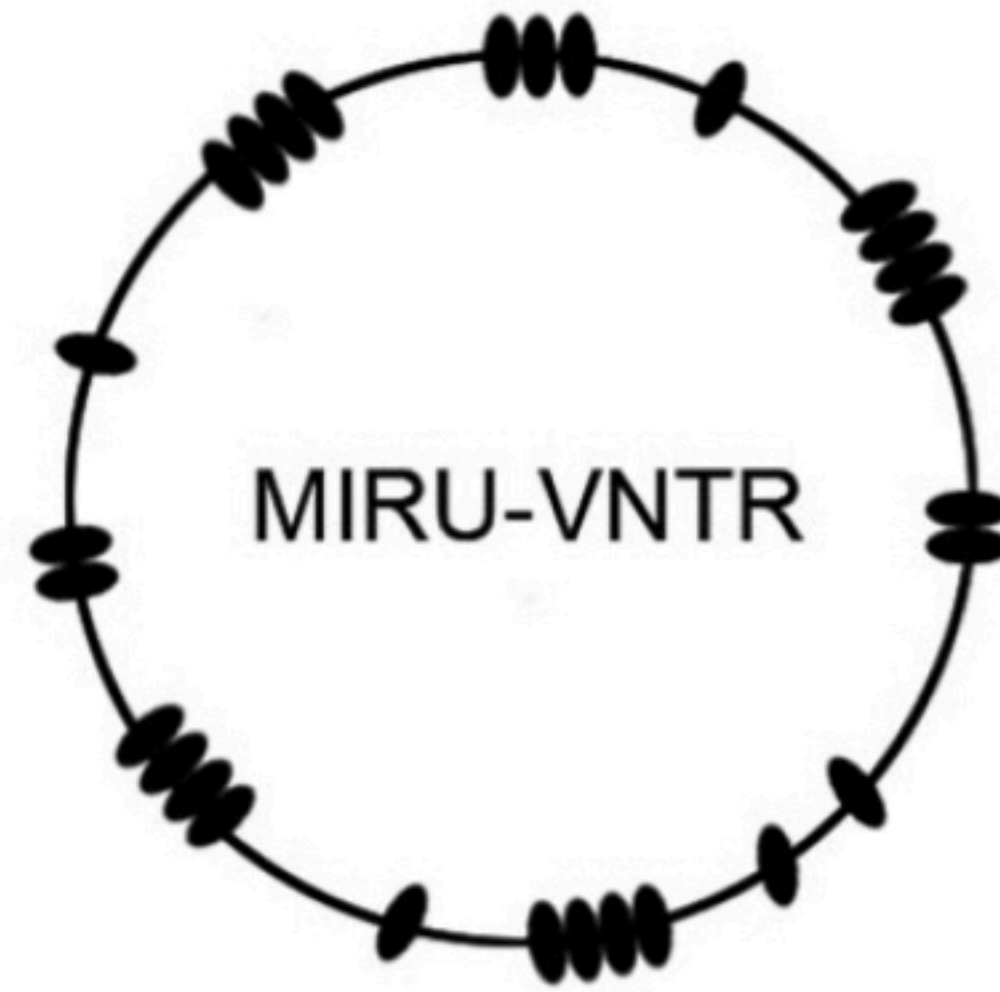
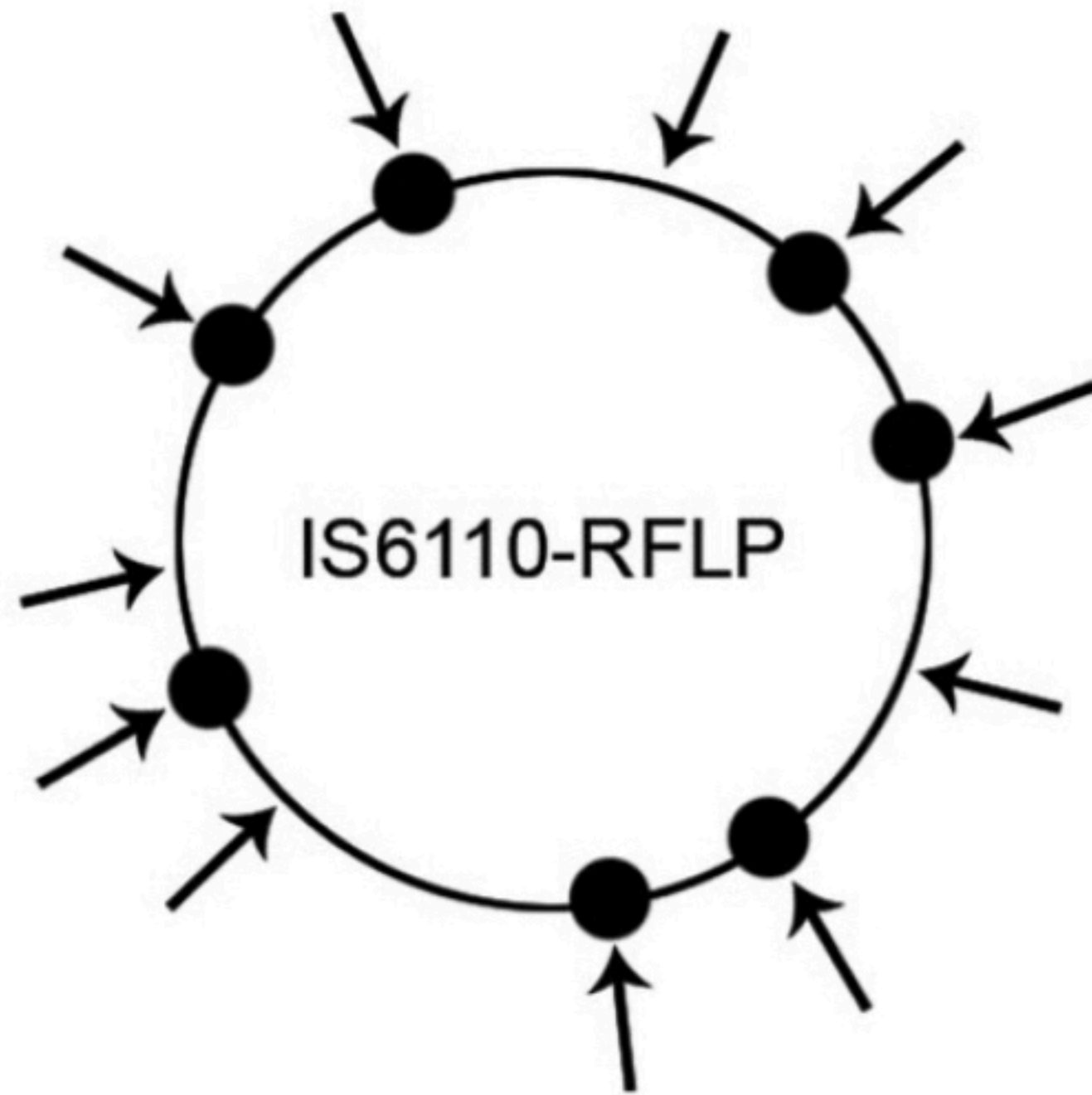
The image shows a microscopic view of three distinct, brown, irregular clusters of cells or tissue. These clusters are positioned on the left side of the frame, with one at the top, one in the middle, and one at the bottom. They have a granular, textured appearance. The background is a solid, light blue color. In the center of the image, there is a line of white text.

A SIMPLE GENOME COUPLED TO A COMPLEX DISEASE

GENOMIC EPIDEMIOLOGY >>> GENOTYPING FOR QUANTIFYING LOCAL TRANSMISSION



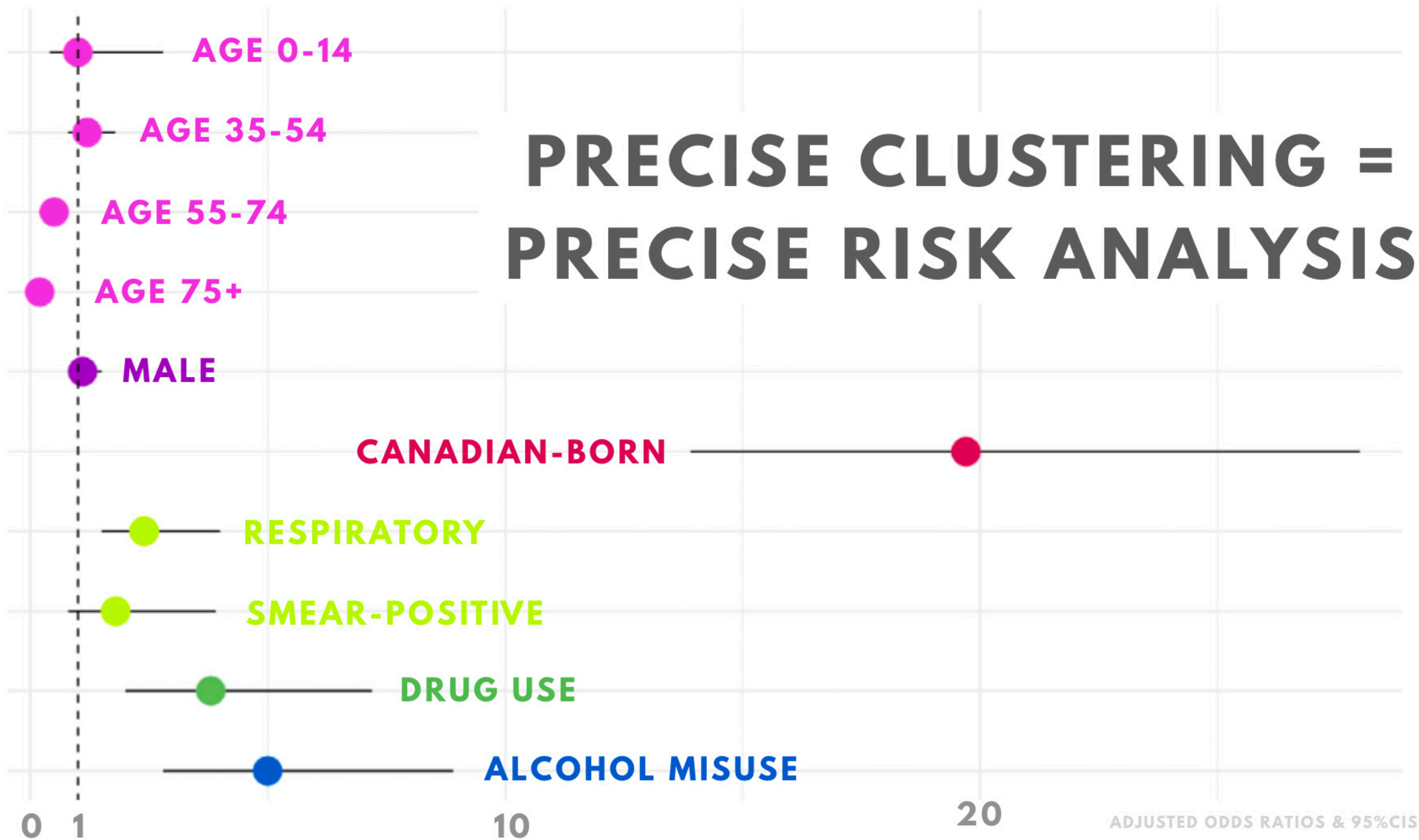
GENOMIC EPIDEMIOLOGY >>> GENOTYPING FOR QUANTIFYING LOCAL TRANSMISSION



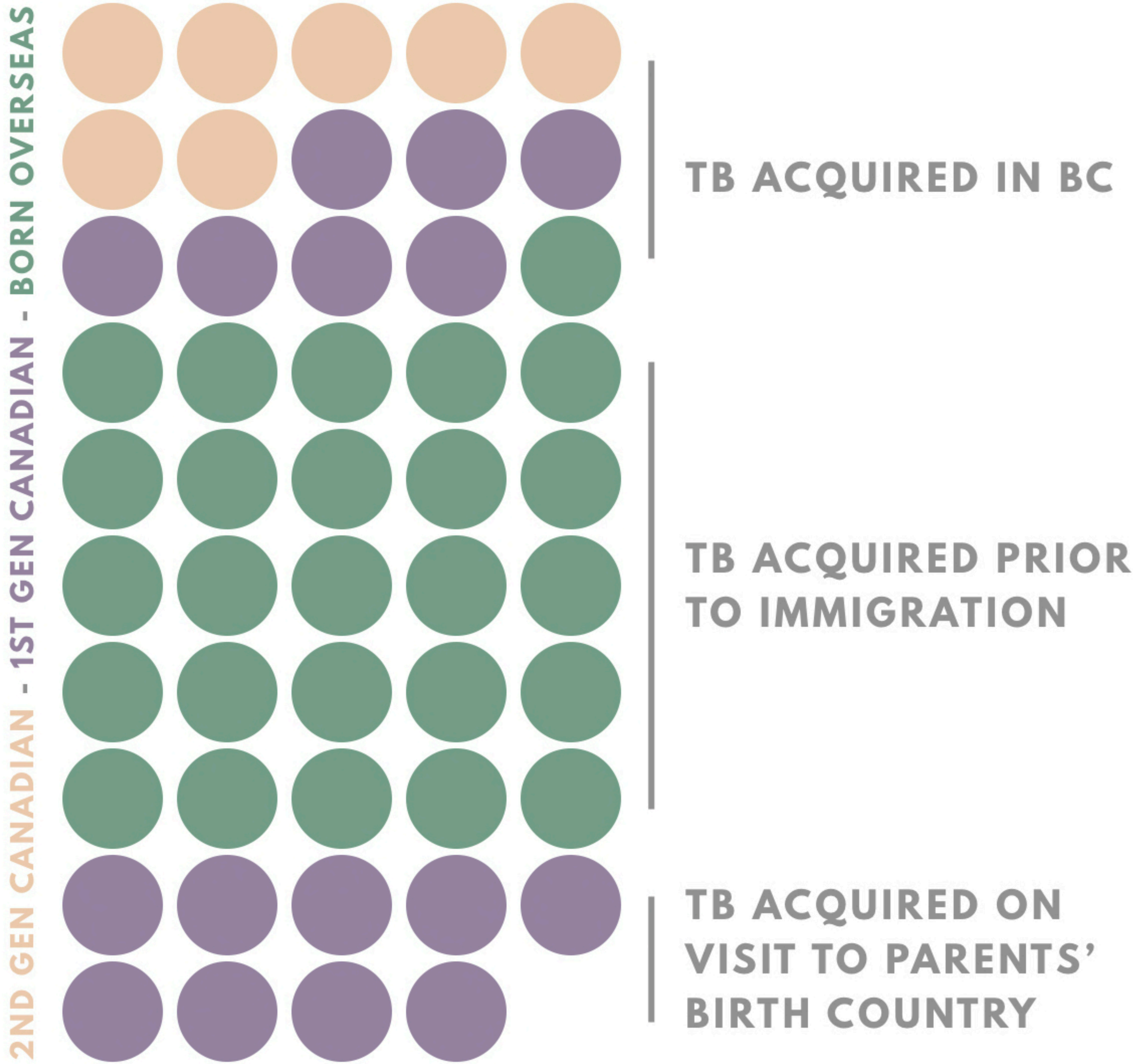
42%

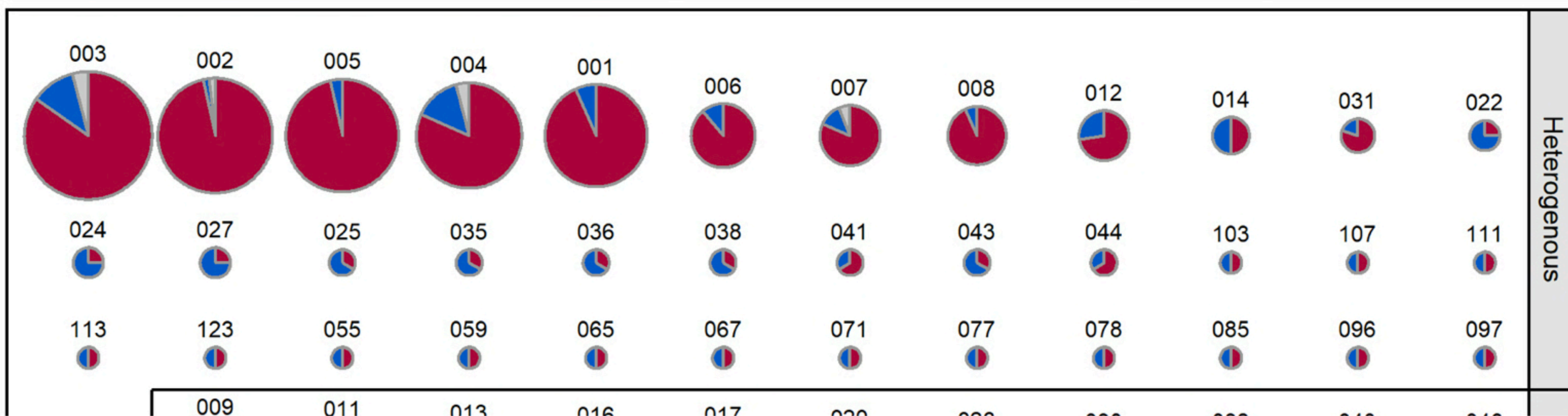
24%

PRECISE CLUSTERING = PRECISE RISK ANALYSIS

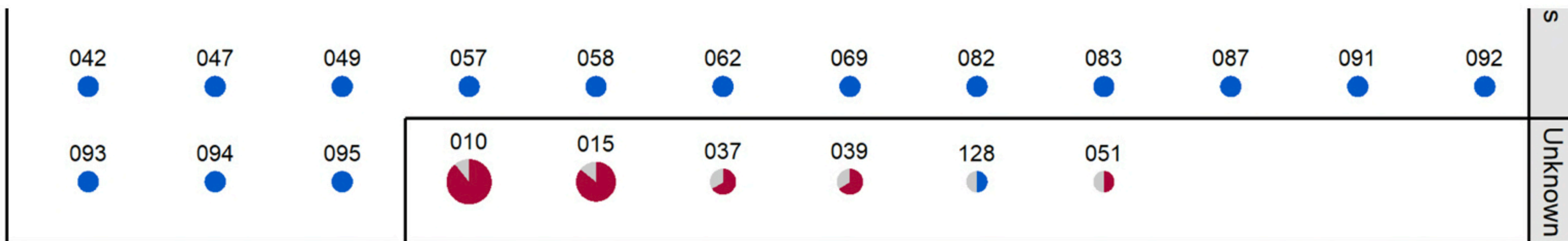


**EXAMINING SUB-
GROUPS CAN
REVEAL TRENDS
WITH POLICY
IMPLICATIONS**



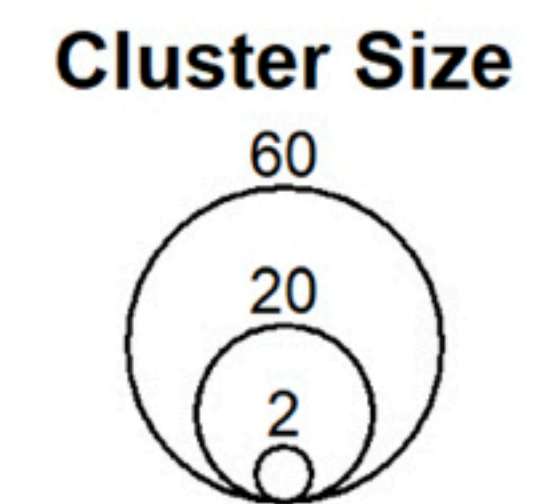


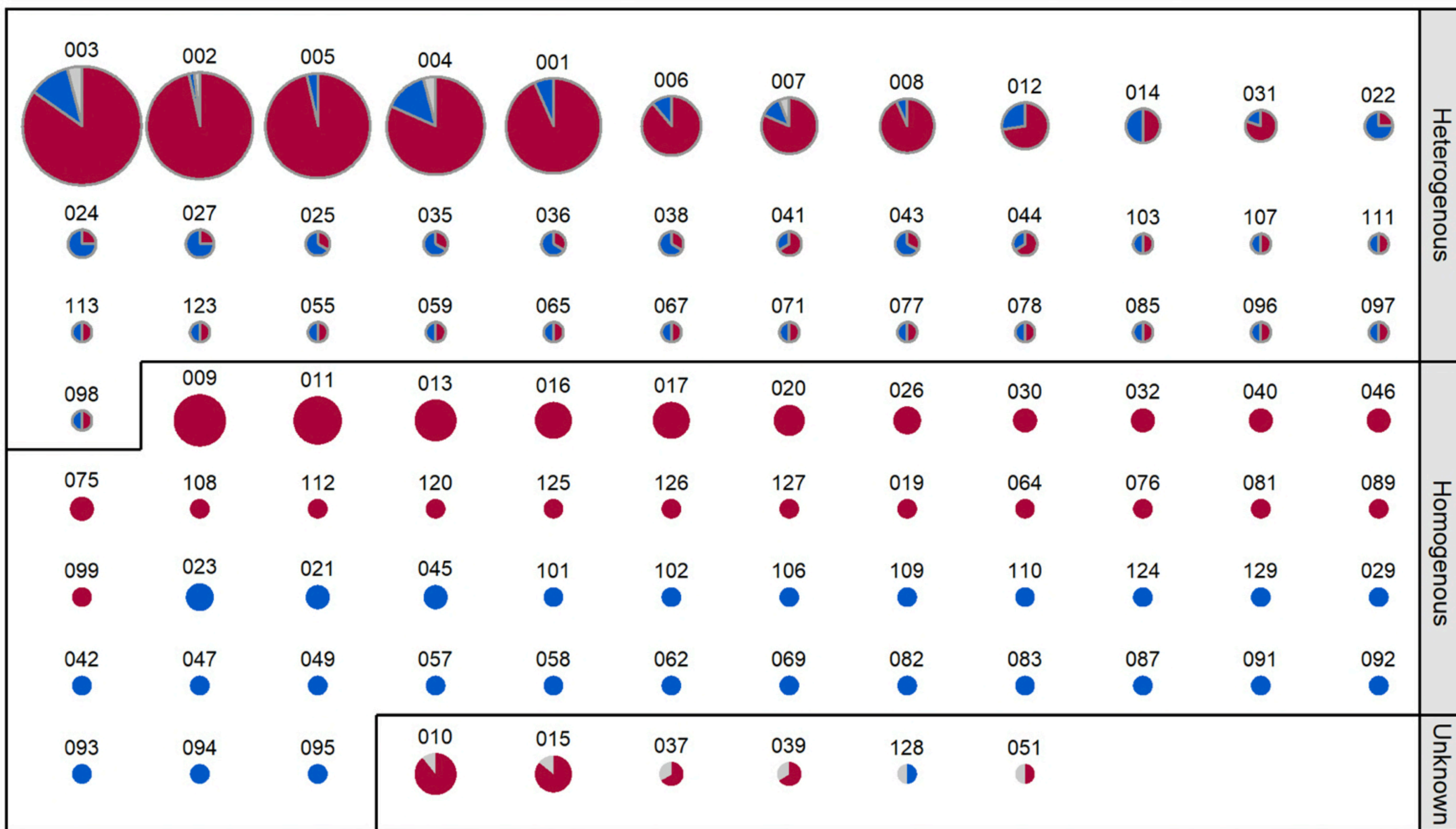
GENOMICS DISRUPTS CONVENTIONAL WISDOM



Birthplace

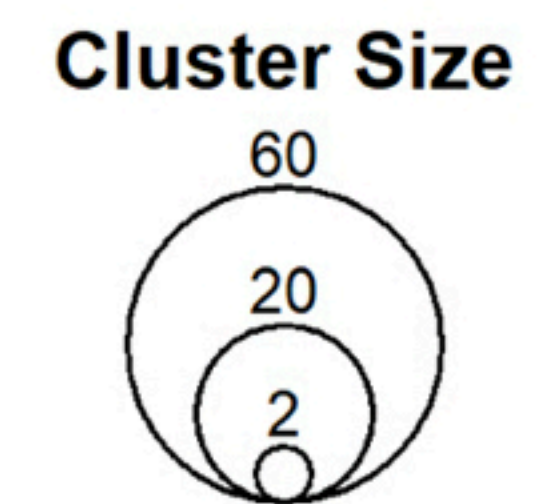
● Canada ● Outside Canada ● Unknown

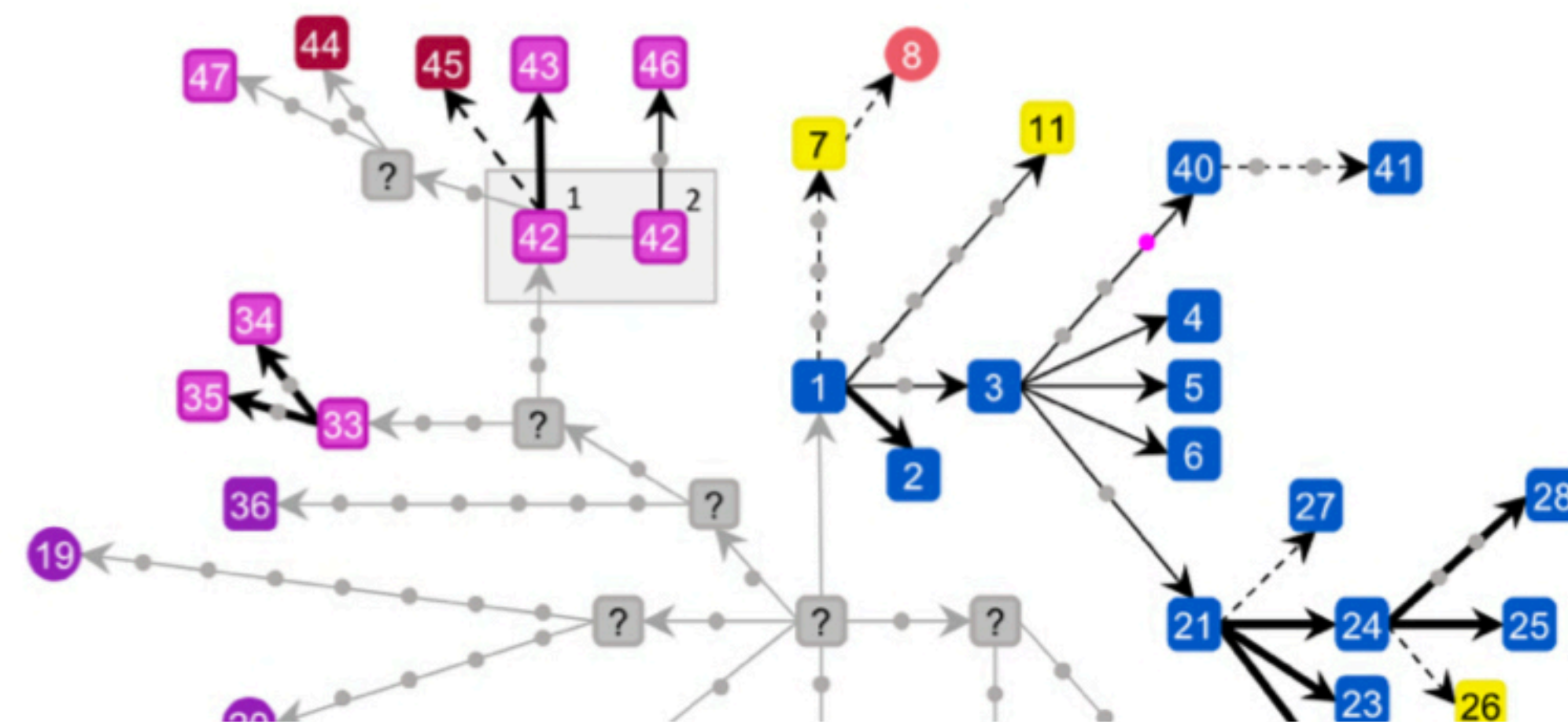
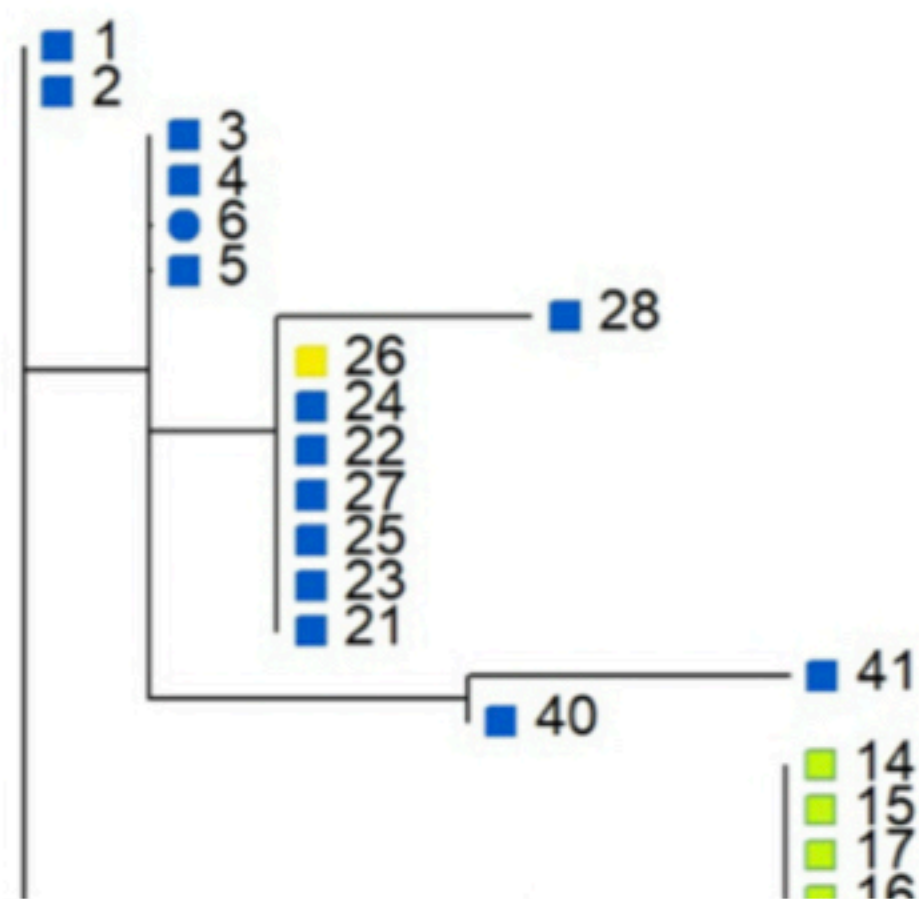




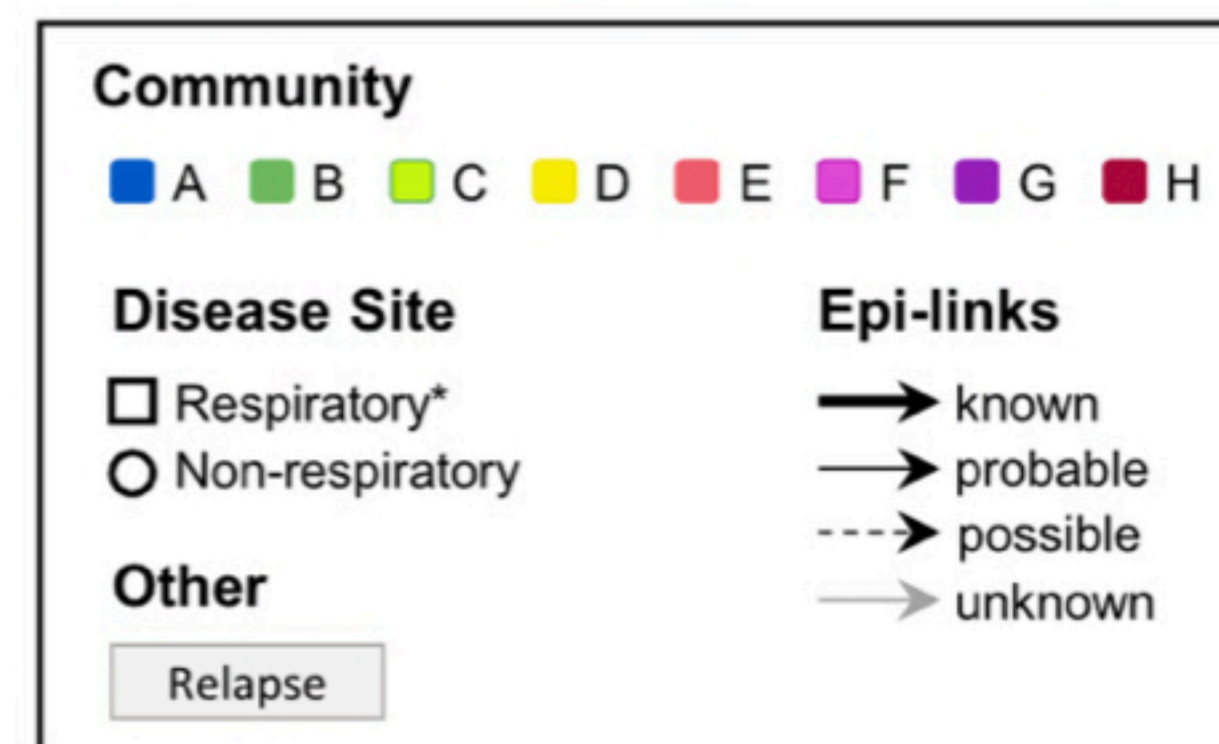
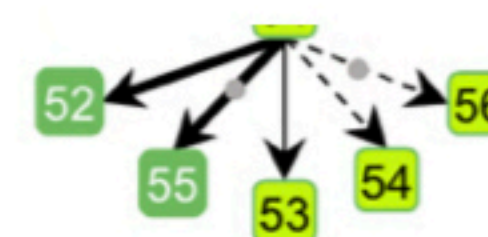
Birthplace

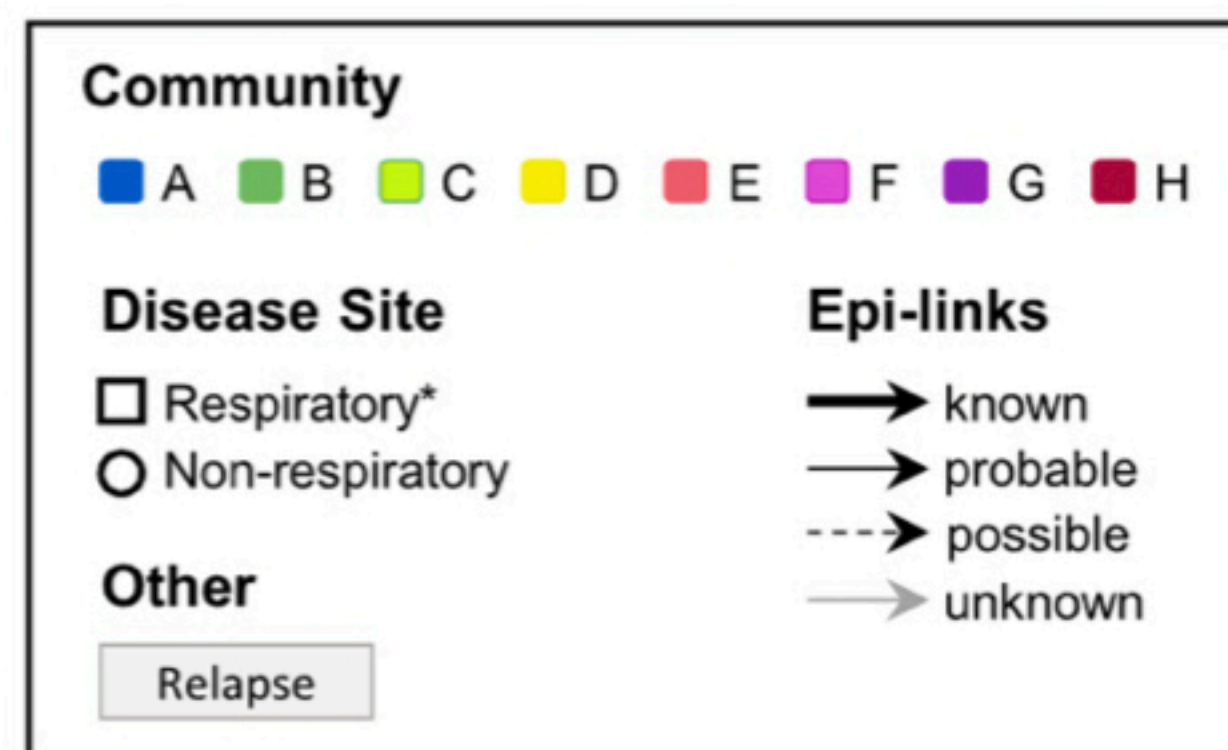
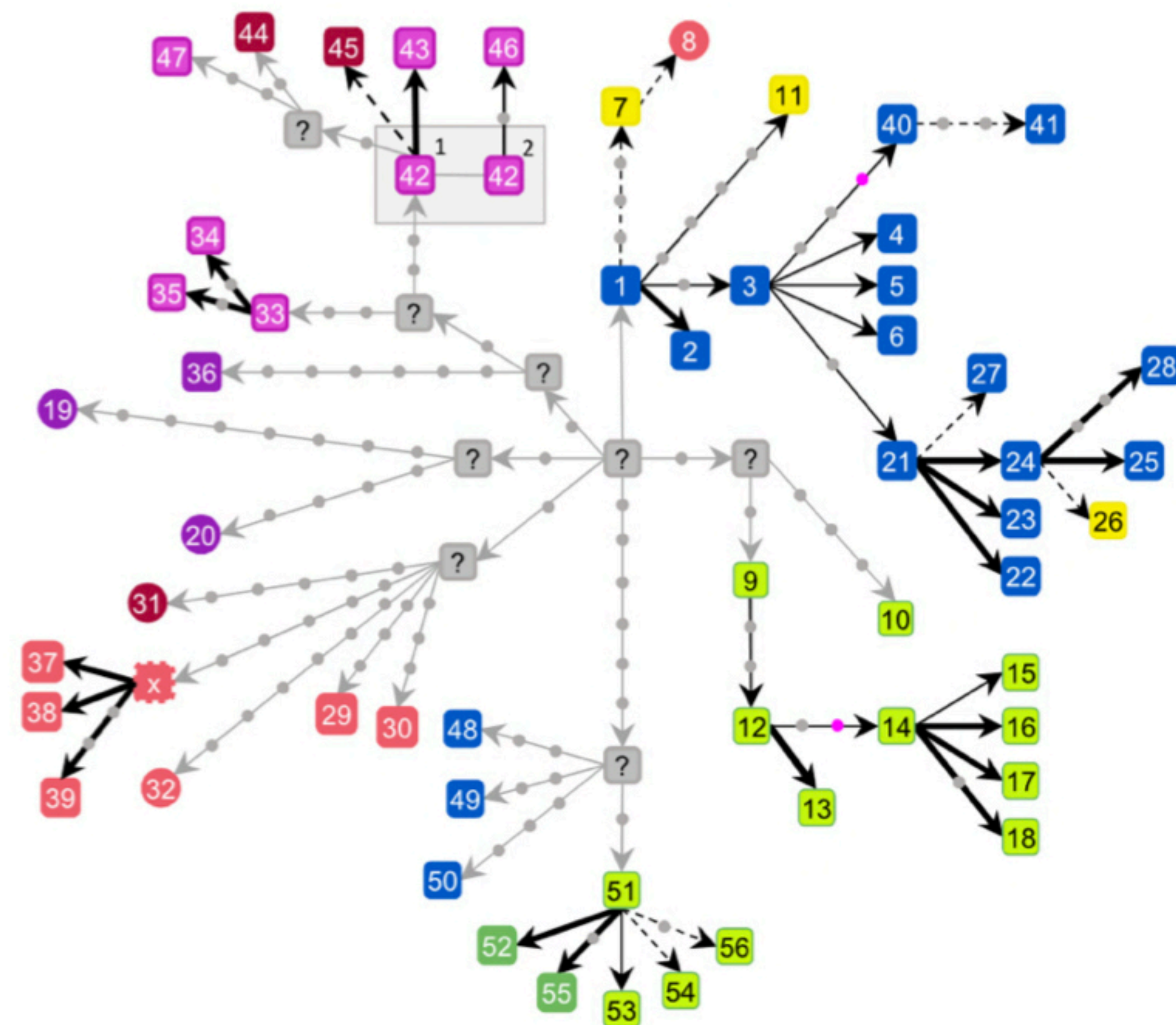
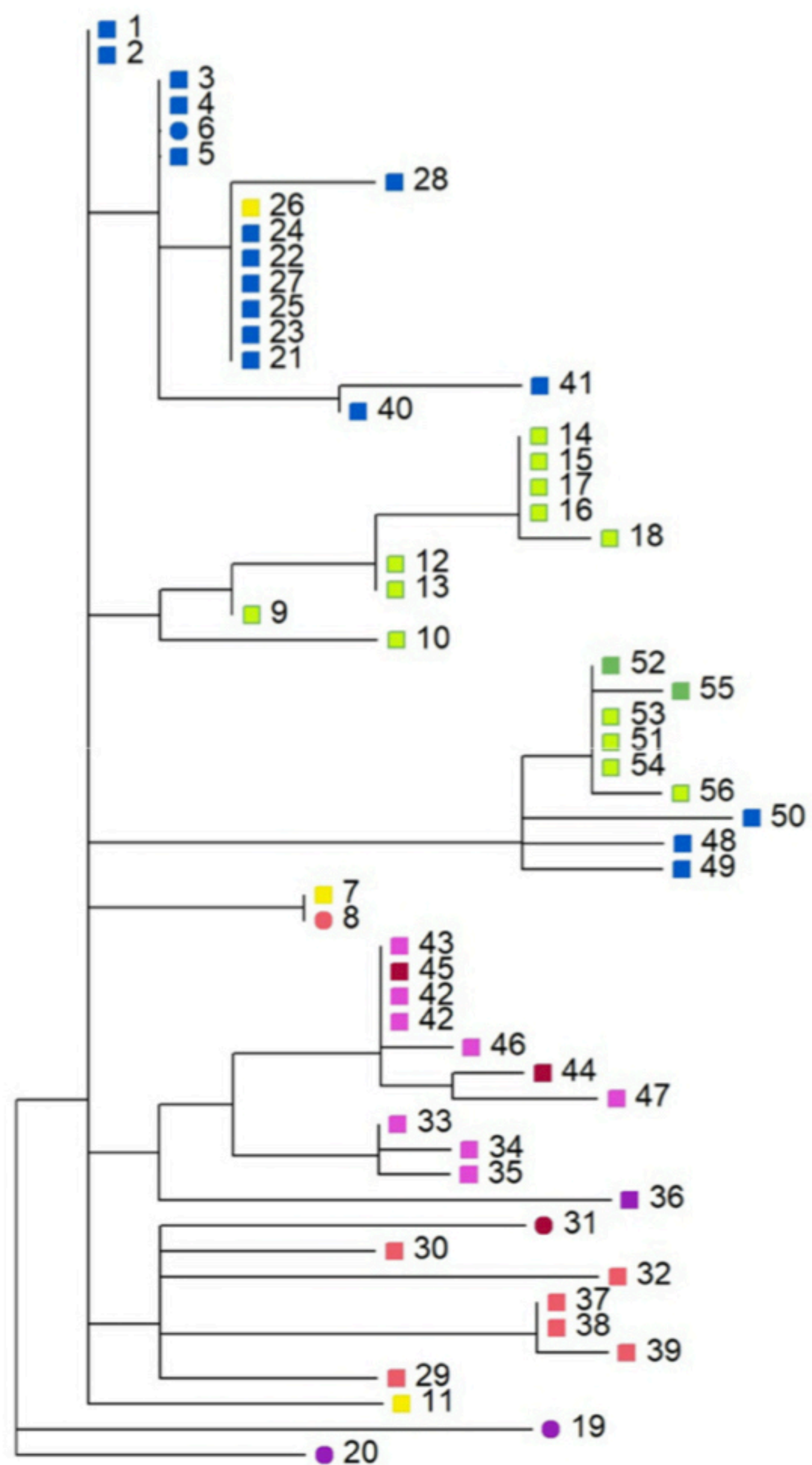
● Canada
 ● Outside Canada
 ● Unknown





GENOMIC DATA ONLY MAKES SENSE IN LIGHT OF OTHER DATA TYPES





Care Bears™

The Day Nobody Shared



Care Bears™

The Day Nobody Shared



SHARING IS CARING

Prediction of Susceptibility to First-Line Tuberculosis Drugs by DNA Sequencing

The CRyPTIC Consortium and the 100,000 Genomes Project

Article Figures/Media

Metrics

22 References 1 Citing Article Comment

Comments open through October 3, 2018

Abstract

BACKGROUND

The World Health Organization recommends drug-susceptibility testing of *Mycobacterium tuberculosis* complex for all patients with tuberculosis to guide treatment decisions and improve outcomes. Whether DNA sequencing can be used to accurately predict profiles of susceptibility to first-line antituberculosis drugs has not been clear.

CONCLUSIONS

Genotypic predictions of the susceptibility of *M. tuberculosis* to first-line drugs were found to be correlated with phenotypic susceptibility to these drugs. (Funded by the Bill and Melinda Gates Foundation and others.)

2018

The use of next-generation sequencing technologies for the detection of mutations associated with drug resistance in *Mycobacterium tuberculosis* complex: technical guide



**PRECISION PUBLIC HEALTH IS A REALITY
USE CASES VARY BY PATHOGEN & SETTING
METADATA & AN ACTIONABLE GOAL ARE KEY**