

20th EURL – *Campylobacter* workshop

30 September – 1st October 2025

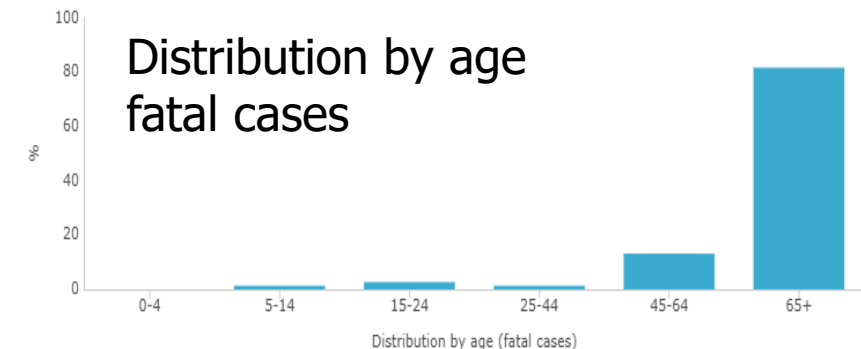
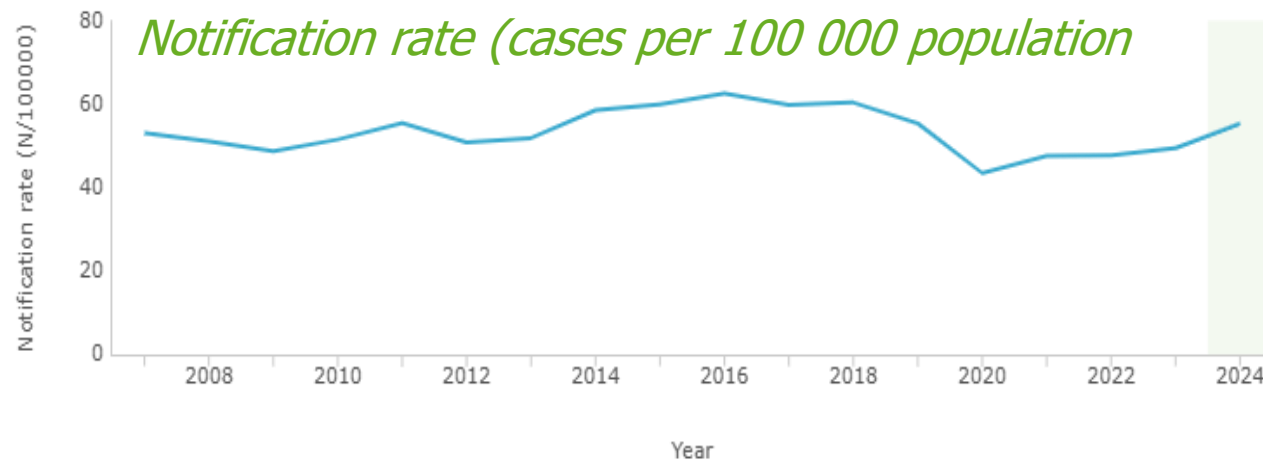
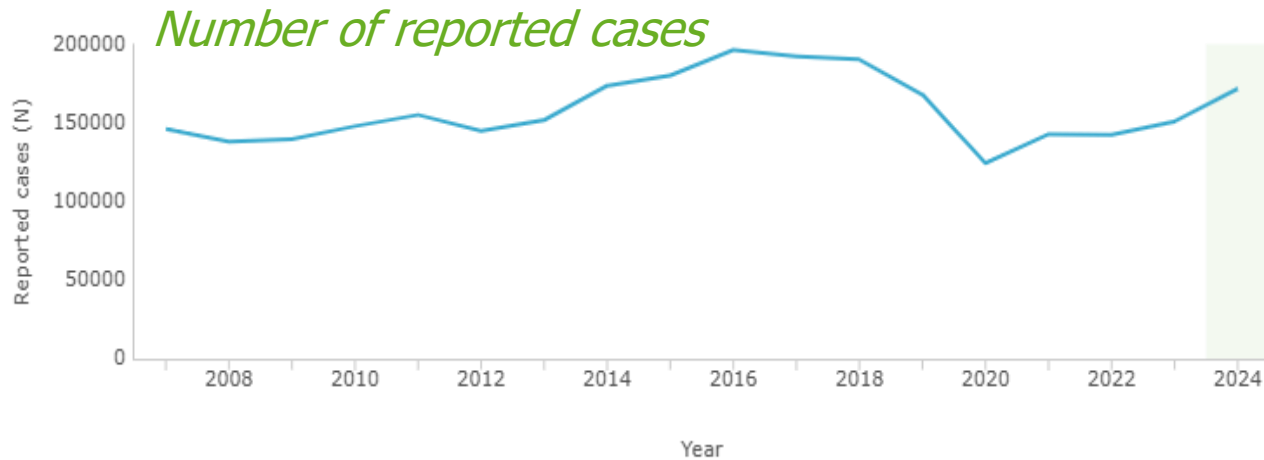
Cecilia Jernberg

Topics

- Annual data reporting for campylobacteriosis for 2024 in EU/EEA
- Genomic surveillance of *Campylobacter* in EpiPulse (ECDC's surveillance platform)

Campylobacteriosis 2024

- Reported cases in EU/EEA: **171 680**
- Notification rate: **55.29** (2023: 49.36)
- Reported hospitalised cases: **16 154** (2023: 13 101)
- Number of reported deaths: **76** (2023: 47)
- Comparison salmonellosis: 116 fatal cases in 2024



Data not yet published, amendments still possible

Surveillance Atlas of Infectious Diseases



Campylobacteriosis ▼

Confirmed cases ▼

Notification rate ▼



2024 ▼



Notification rate (N/100000)



0.00-9.99



10.00-49.99



50.00-99.99

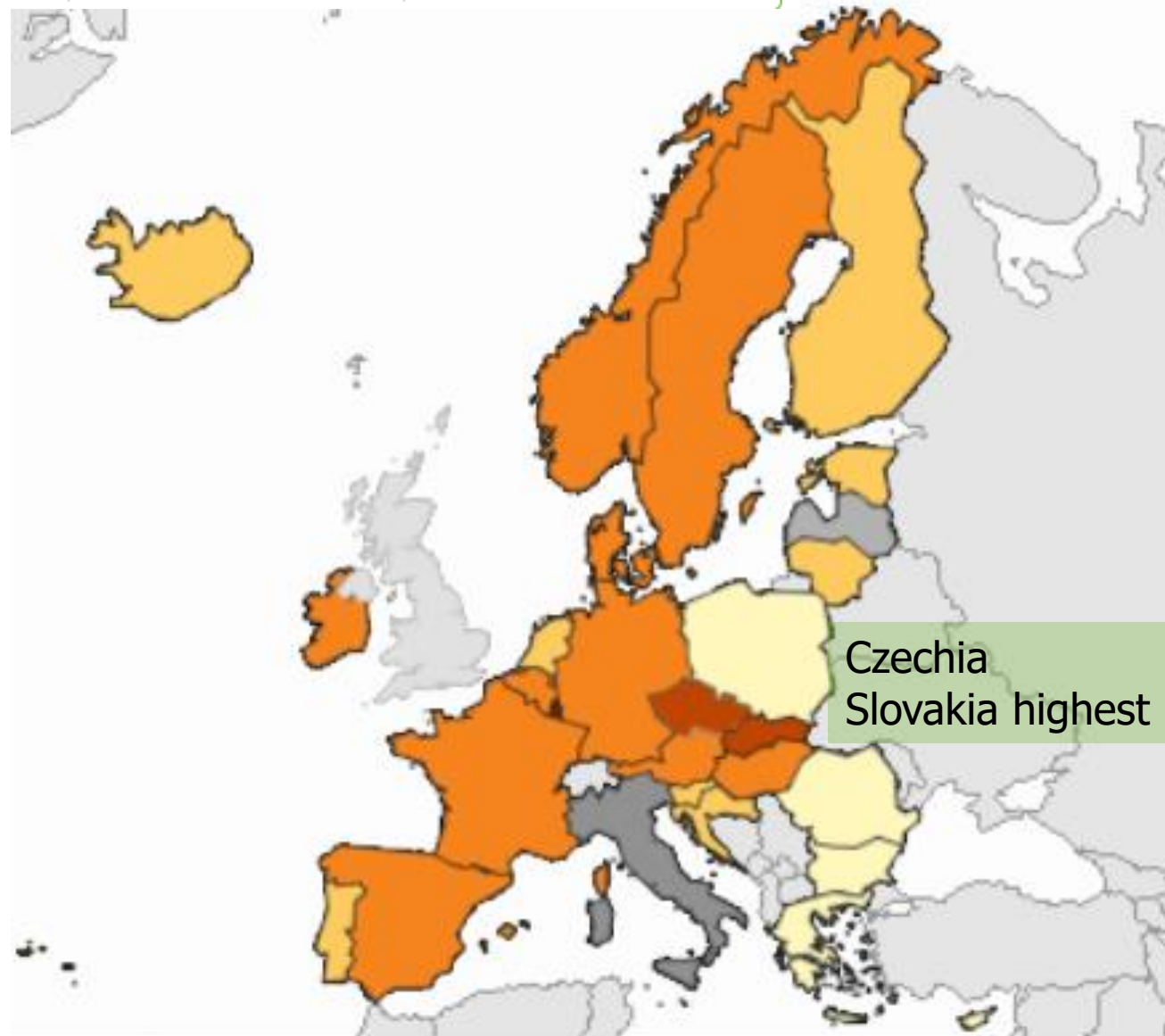


100.00-149.99

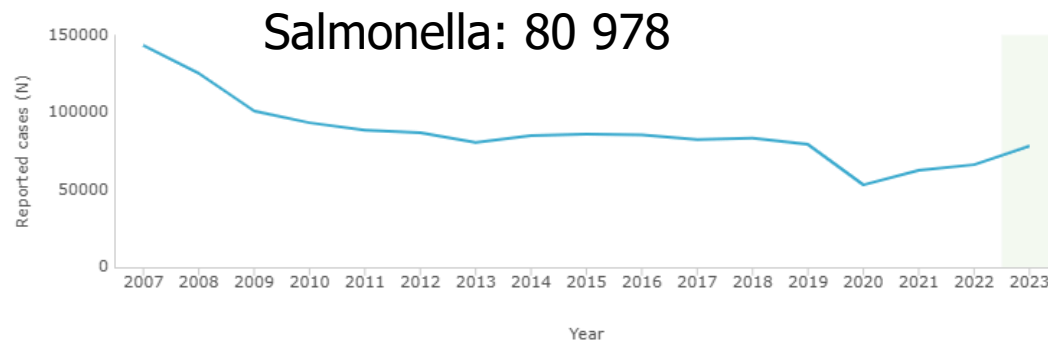
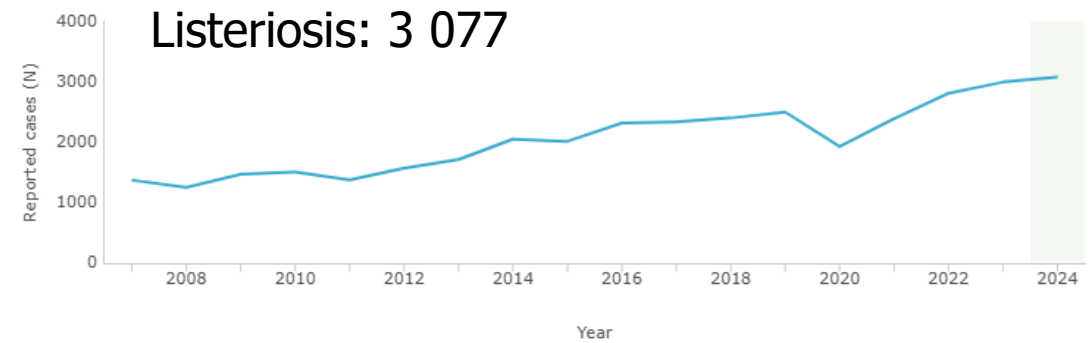
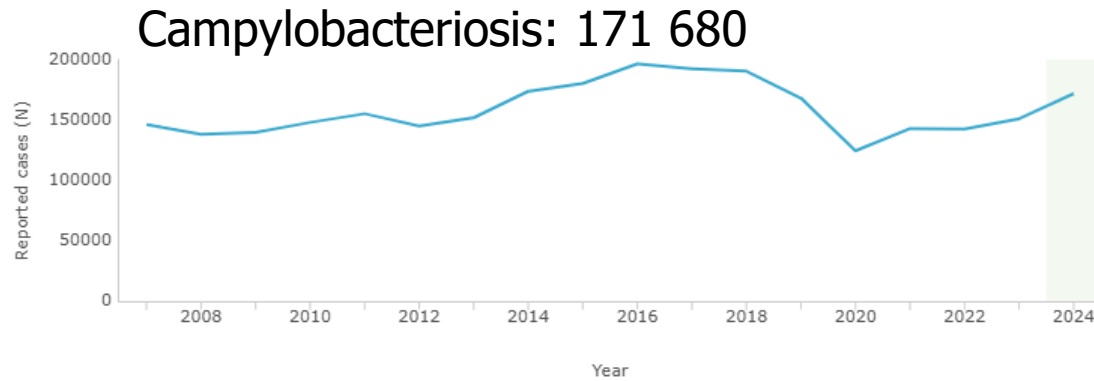


≥ 150.00

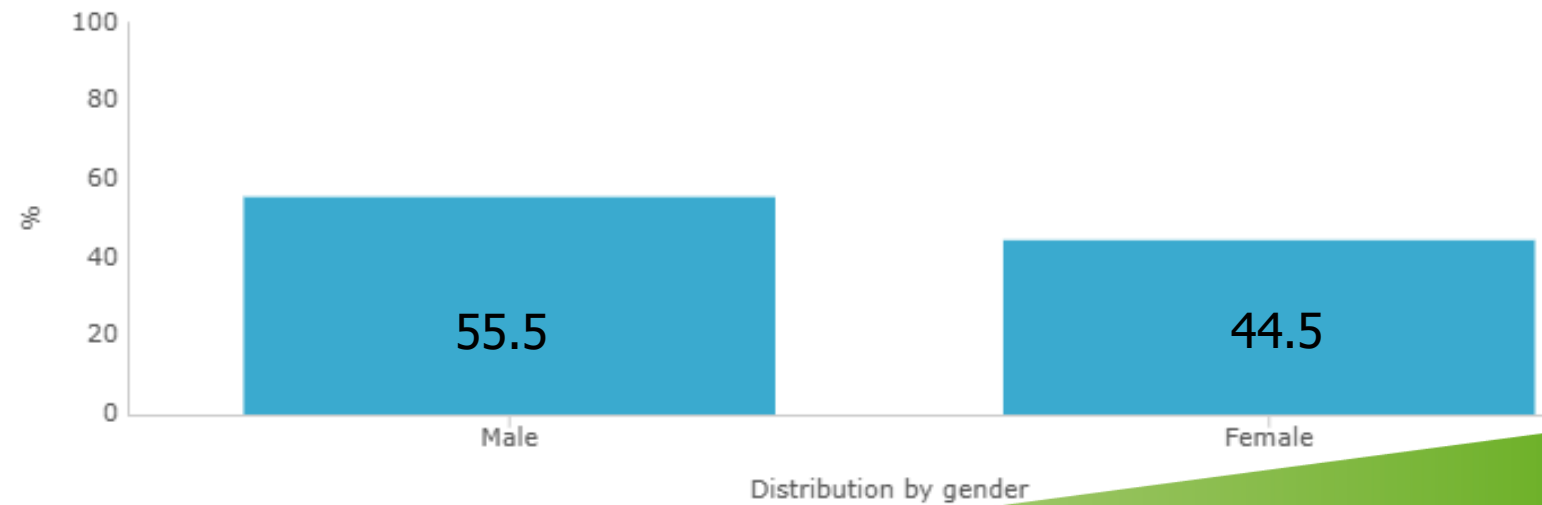
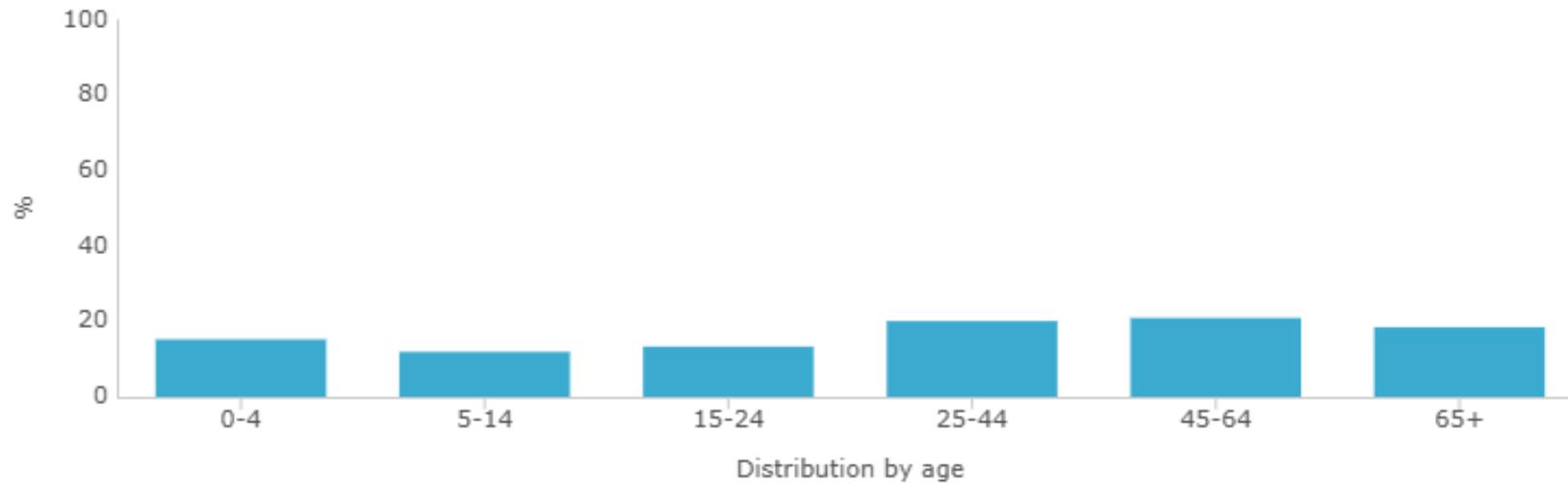
Data not yet published, amendments still possible



Comparison number of reported cases



Distribution by age and gender



Data not yet published, amendments still possible

ECDC genomic surveillance in EpiPulse

- what sequence data is reported and show case of the Molecular Typing Tool in EpiPulse**

What isolates are submitted to ECDC?

Basis are the pathogens with mandatory reporting requirements. For future, isolate and event based reporting requirements will define data to be reported.

The databases includes sequences from:

- Outbreaks
- Projects
- Data for AMR reporting for *Campylobacter* (and *Salmonella*) and Publicly available sequences from repositories

All ARHAI EI LEGI EVD **FWD** HEP HIV IRV PREP SoHO SRV STI TB VPD Resp. duty Molec. typing Daily CDTR Weekly CDTR

Search by text in

⊕ Advanced search criteria

■	ID	Participating domain	Type	Title	Created by	Diseases	Modified time	Flags	
☐	2025-FWD-00076 (new)	FWD	Event	Outbreak with Campylobacter jejuni ST49 in Denmark	Denmark/Public Health	Campylobacter jejuni	Campylobacteriosis	2025-09-29 10:23	
☐	2025-FWD-00065	FWD, EI	Event	STEC/HUS outbreak in Germany	Germany/Public Health	Other bacteria, not specified	Other bacterial infection	2025-09-29 09:55	
☐	2025-FWD-00079 (new)	FWD	Event	Shiga toxin-producing Escherichia coli	Sweden/Public Health	Shiga toxin-producing Escherichia coli	Shiga toxin-producing Escherichia coli infection	2025-09-29 08:18	
☐	2025-FWD-00078 (new)	FWD	Event	13 cases of Listeriosis in France linked to herring from The Netherlands	France/Public Health	Listeria monocytogenes	Listeriosis	2025-09-29 07:27	
☐	2025-FWD-00077 (new)	FWD	Event	Outbreak with Campylobacter jejuni ST52 in Denmark	Denmark/Public Health	Campylobacter jejuni	Campylobacteriosis	2025-09-28 18:47	
☐	2025-FWD-00068		Event	Outbreak of Salmonella Lomalinda in the United States	United States/Public Health	Salmonella (non-typhoidal) species, not specified	Salmonellosis	2025-09-28 18:30	
☐		FWD, EI, PREP	Event	Outbreak of Salmonella Saintpaul ST50 in the UK	United Kingdom/Public Health	Salmonella Saintpaul	Salmonellosis	2025-09-26 17:59	
☐	2025-FWD-00073	FWD	Event	Cluster Listeria monocytogenes in Germany Rho14, ST399	Germany/Public Health	Listeria monocytogenes	Listeriosis	2025-09-26 15:04	
☐	2025-FWD-00074	FWD	Event	foodborne botulisme possibly	France/Public Health	Clostridium botulinum	Botulism	2025-09-26 14:43	

Dear EpiPulse users, please remember that all the data in EpiPulse are "Sensitive Non-Classified" (SNC) as per European Commission classification. For more information, see the EpiPulse documentation.

9Manage

Dear EpiPulse users, please remember that all the data in EpiPulse are "Sensitive Non-Classified" (SNC) as per European Commission classification. For more information refer to EpiPulse Terms of Services

Example ST464, common ST on human and animal side (poultry)

← ↻ 🏠 <https://epipulse.ecdc.europa.eu/typing/explore/> 🔊 ⭐ 🗂️ ⚙️ ⌵ 🌐 ⌵ ⌵ ⌵ ⌵

ecdc EpiPulse Cases ▾ Events ▾ **Molecular Typing** 19 ⚙️ 👤 ⌵ 📞 ⌵ ?

Please treat the data in the platform as sensitive non-classified unless specifically indicated as public.

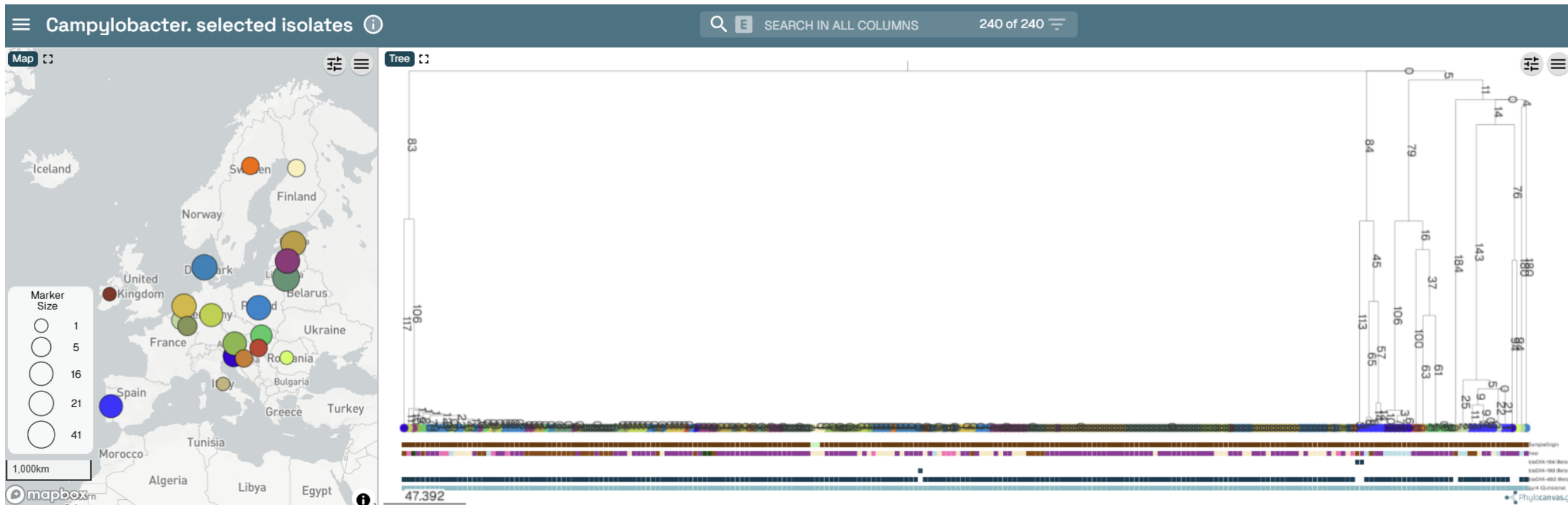
Please, select a Pathogen to review and analyse its data.

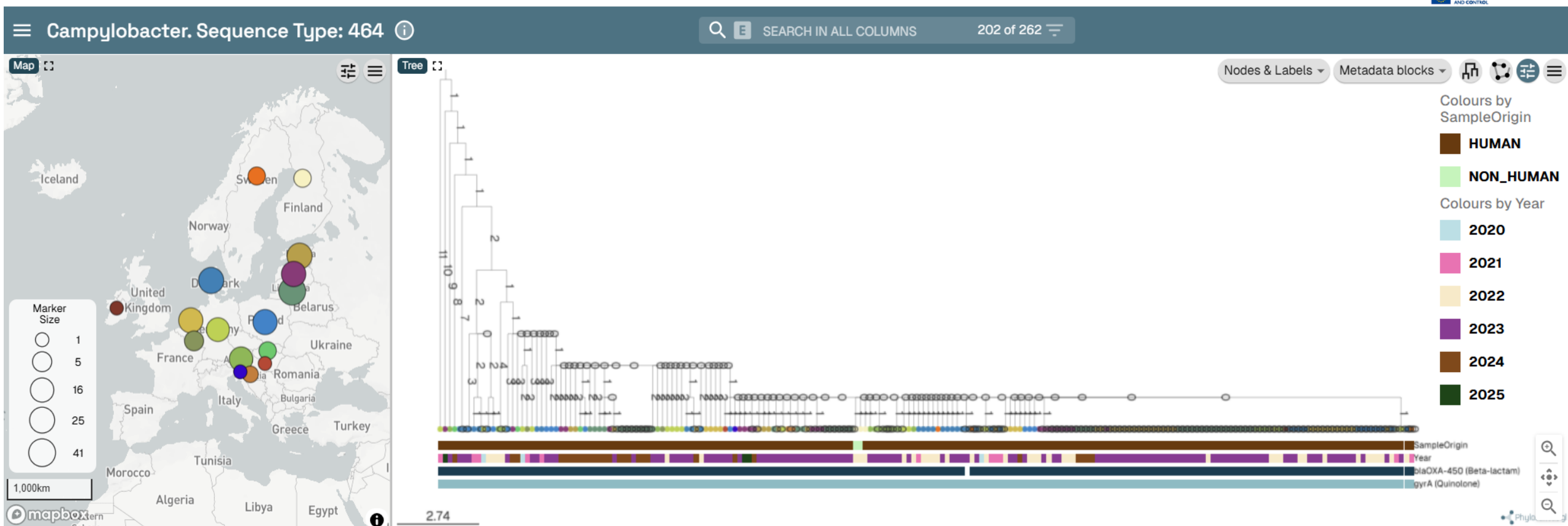
Campylobacter ▾

▼ Search & Refine Selection

Sequence Type × 464 (N=262) ×	Cluster Cluster Code If empty, all the clusters will be selected. Date used for statistics dd/mm/yyyy 📅 dd/mm/yyyy 📅 Cluster Method Default ▾	Events Events Submission Date dd/mm/yyyy 📅 dd/mm/yyyy 📅 Epidemiological Data × BN_Cluster × PB_DateUsedForStatistics × × PB_ReportingCountry	Isolates Isolates Distance metric to match Default ▾ Antibiotic Resistance Markers Antibiotic Resistance Markers
Countries Countries If empty, all the countries will be selected. Match Distance Match Distance			
ECDC cluster address ECDC cluster address			

Reset form Search





Isolates are from 2020 to 2025, reported from 16 countries

“Burning” topic on the public health side – culture independent diagnostics tests. Benefits and challenges

Benefits and challenges of PCR-panels

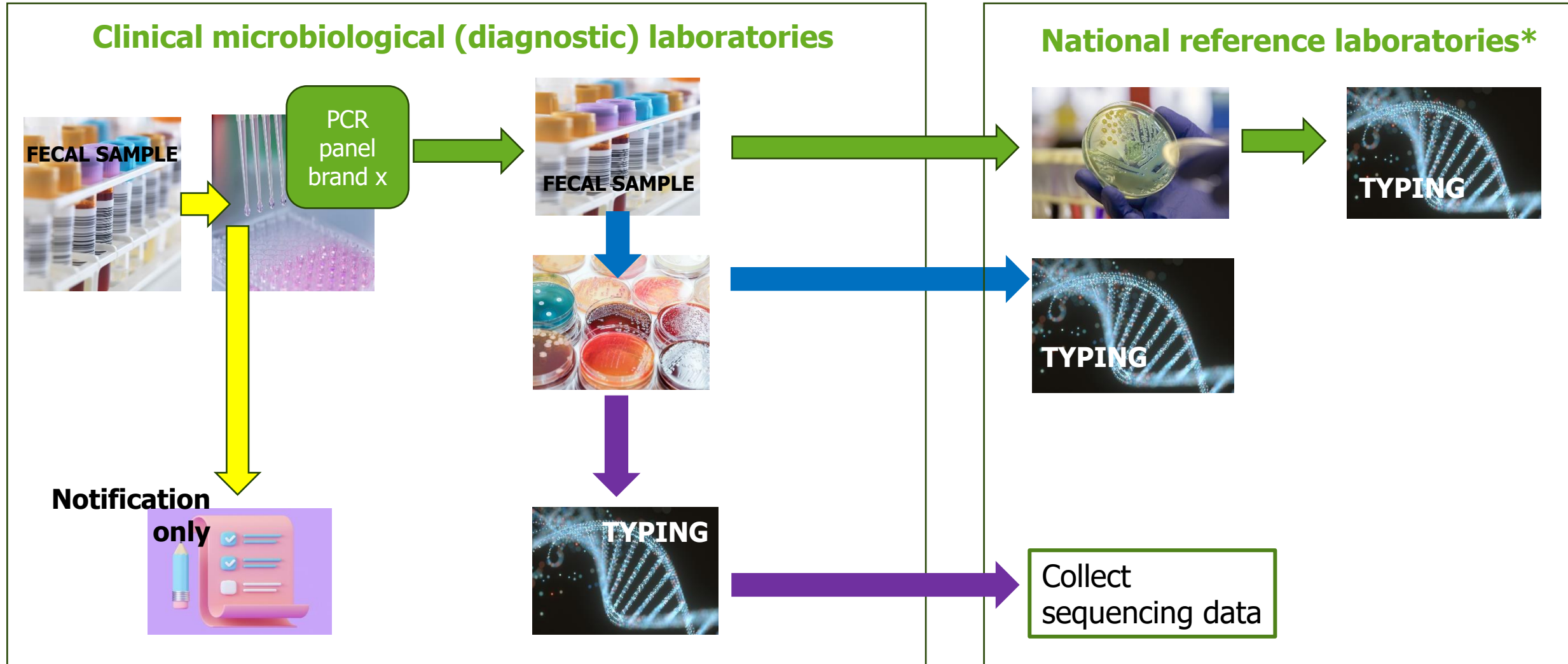
Benefits

- The ability to detect multiple pathogens in one test
- Higher sensitivity for difficult-to-culture bacteria
- Faster results enabling timely treatment and control measures
- Benefit for the patient!

• Challenges

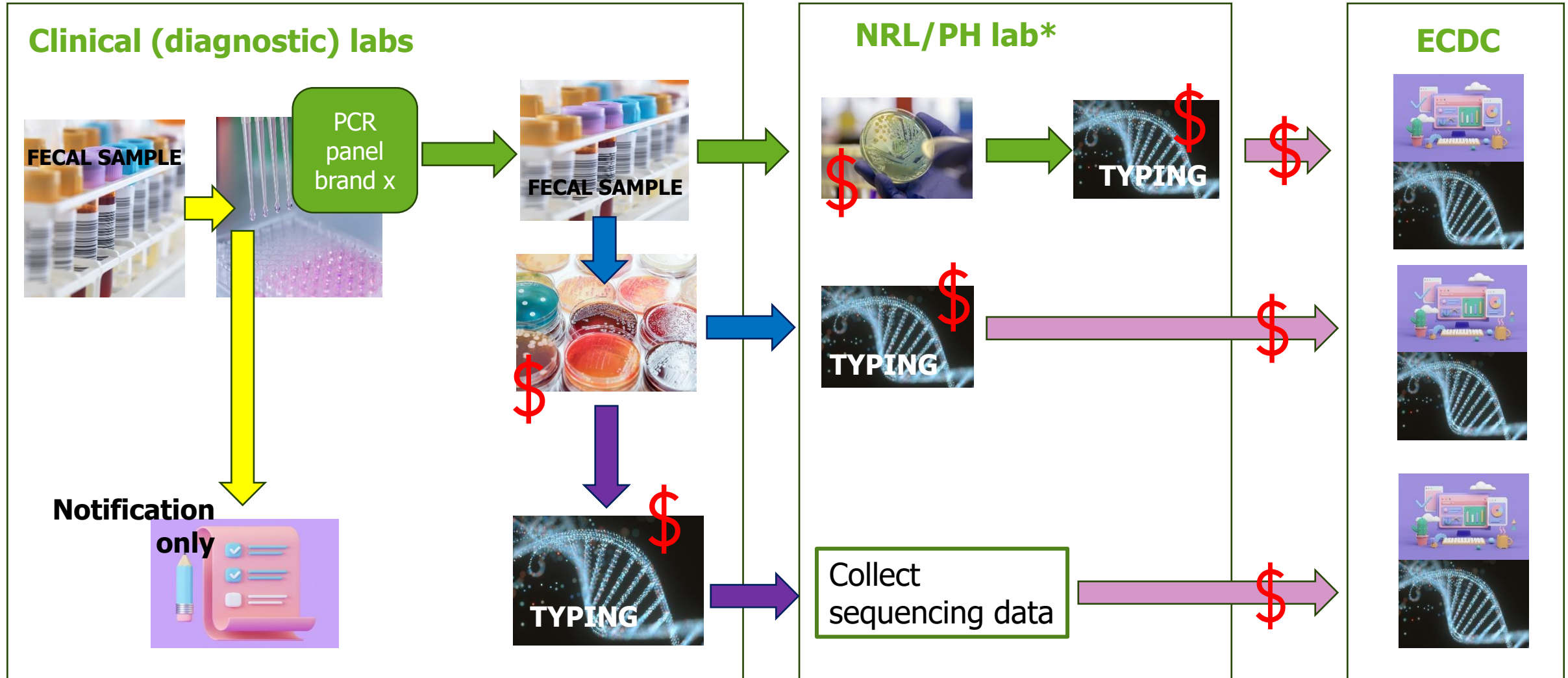
- Multiple-pathogen positives, making causation unclear.
- Variations in manufacturer target genes, affecting detection consistency
- Lack of cultured isolates, which are critical for outbreak detection, antimicrobial resistance testing, and molecular surveillance.

Different possibilities and strategies in different countries



* Or laboratories with reference function/public health laboratories

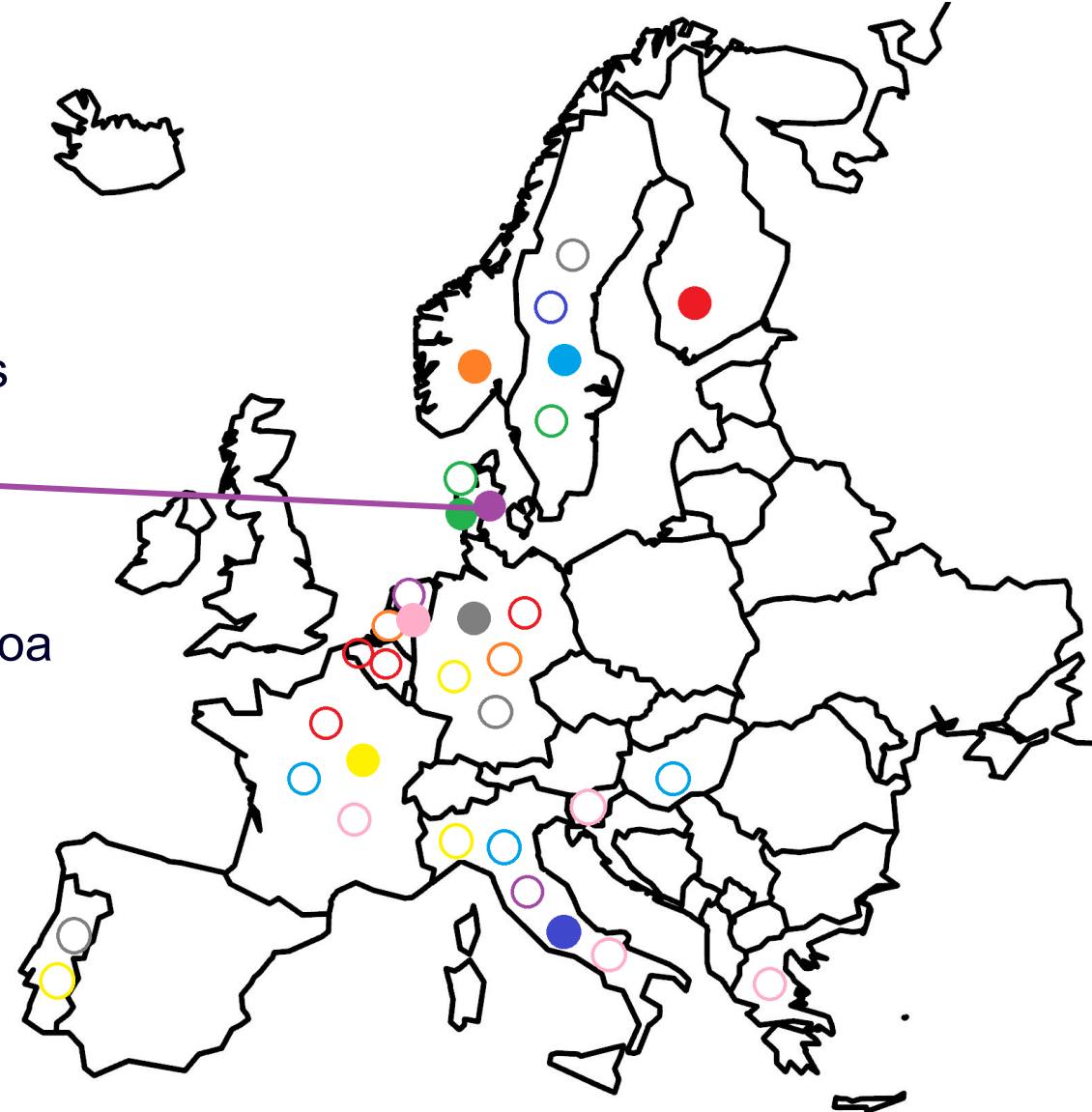
Reporting of WGS data comes with a cost, including in human resources and lab material.



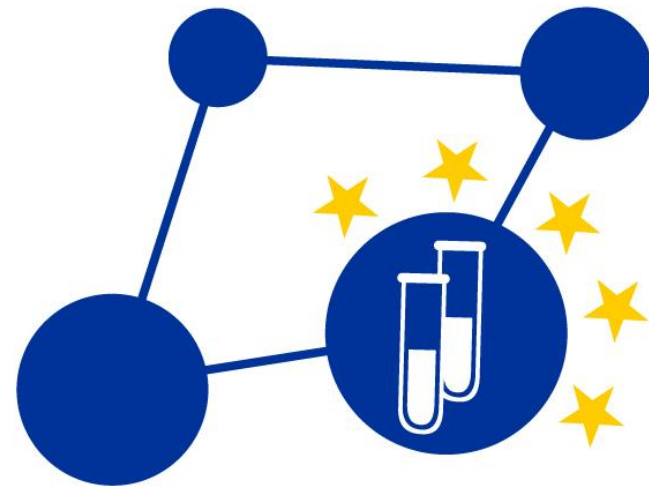
EURLs for Public Health

9 EURLs have been designated to date:

- Antimicrobial resistance (AMR) in bacteria
- Diphtheria and pertussis
- Emerging, rodent-borne and zoonotic viral pathogens
- Food- and water-borne bacteria
- Food- and water-borne viruses
- Food-, water- and vector-borne helminths and protozoa
- High-risk, emerging and zoonotic bacteria
- *Legionella*
- Vector-borne viral pathogens



*Filled circles indicate the EURL consortium lead sites



EUURL

PUBLIC HEALTH

FOOD- AND WATER-BORNE BACTERIA

- A consortium of SSI (lead), RIVM and ISS
- Cover the pathogens: Campylobacter, Salmonella, Shigella, STEC, Listeria, in addition to Vibrio non cholerae and Yersinia non pestis (less support).
- Probable start date 1 January 2026