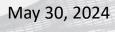
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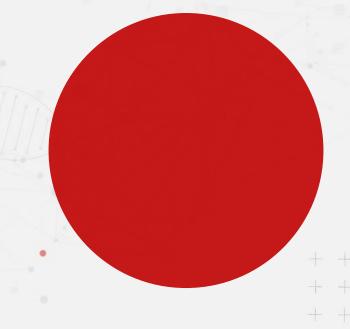




A

Protecting Life and Livelihood through Biosurveillance





SPREADS GERMS OF DEATH.

Woman Isolated on North Brother Island in Court on Habeas Corpus.

Mary Mallon

Woman Who Is a Living Culture Typhoid Fever Bacilli.

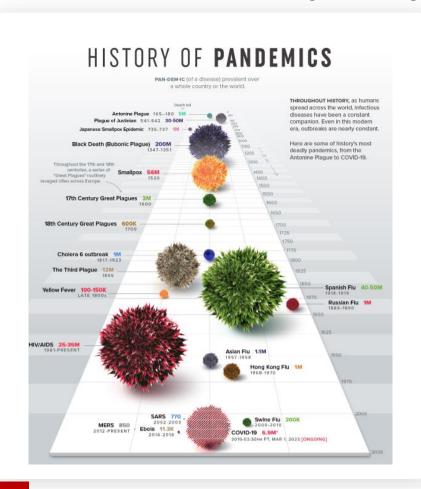
Carrier of Disease, Blamed for 51 Cases and 3 Deaths, but She Was Held Immune

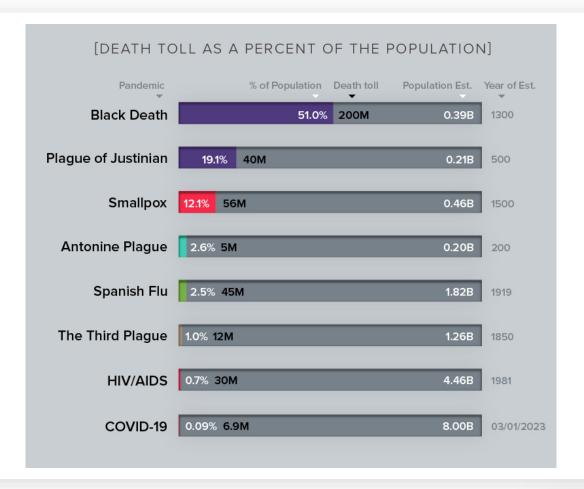
Blamed for Twenty-five Cases of Fever Among Doctors and Nurses

--Now In Quarantine.

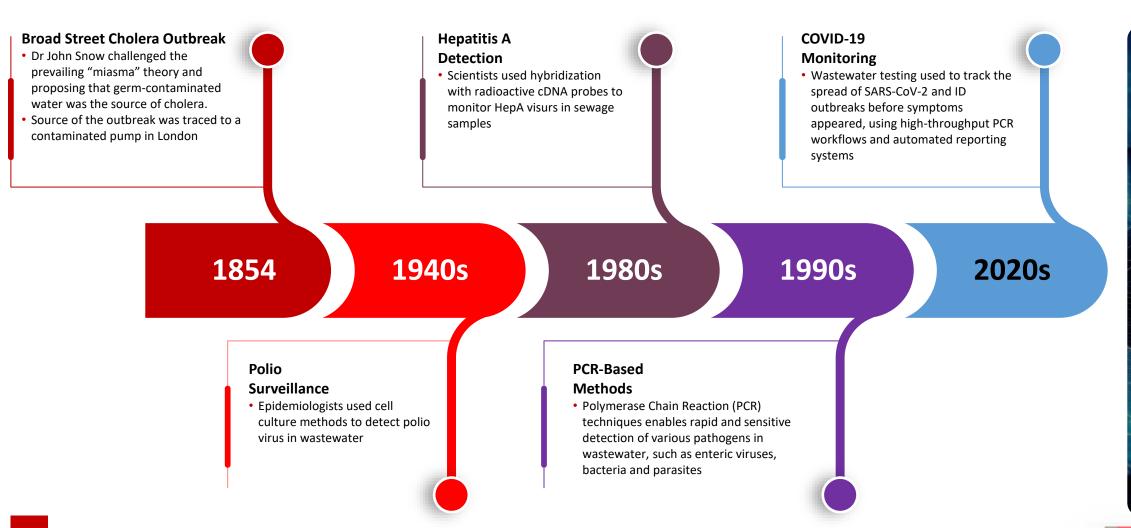
COVID-19 Won't be the Last Pandemic...

...but we have the capability to make it the Last Worst Pandemic





A Brief History of Biosurveillance



Biosurveillance Challenges for a Public Health Officer



How can I obtain a regional picture when it's not my data?



Can I share my data with others? Can they share with me?



We are encumbered by complicated and broken data sharing processes, overwhelming paperwork...



Will I lose control of my data once shared?

Focus is on process, but we need actionable information NOW!

...diseases span geopolitical borders - we need to understand what is happening regionally...





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Public Health Officer



...I had a regional view, but could also can drill down on my data?



...my data stayed in place? Others' data stayed on place?



...I could collaborate on common objectives & algorithms?



...the entire process was streamlined, encrypted, and documented (with Verifiable Trust)?

Focus is on INSIGHTS and ACTION!

Our Approach



Additional Barriers to Data-Al Sharing in Public Health

- Lack of Trust due to potential misinterpretation, responsible & ethical use of Data, & AI Bias
- Limited Interoperable
 Technological Capabilities &
 Standards for making Data
 available for analysis without
 sharing
- Restrictive Policies for Data Sharing resulting from ownership and copyright concerns, potential economic damages, prior negative experiences, etc.



Capability Enabled

Developed, the 'Core Biosurveillance Platform' enables Trusted Data-Al Collaboration across Public Health Stakeholders delivering continuous actionable insights of mutual value through:

- Multiparty, Privacy preserving Computation (In-place Data Collaboration)
- Data Confidentiality, Privacy and IP Protection



Value Proposition for PHOs and Collaborators

- Improved Public Health Risk Prediction & Remediation
- Intelligent use of Public Health
 Data with Verifiable Trust in Data
 & Al
- Enhanced Engagement & Communication across Public Health Stakeholders

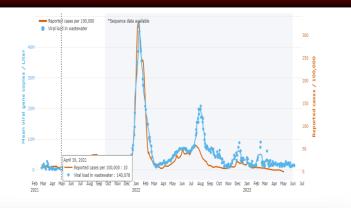


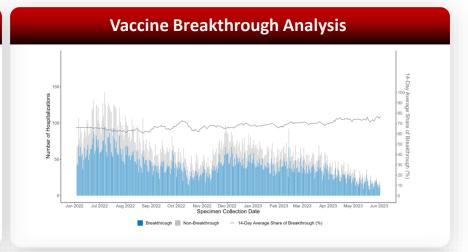


Insights Semantic & Insights Layer

Covid Cases Trends

- Reported Cases
- Wastewater viral loads
- Deaths
- Death/1000
- Cases / Hospitalizations / Deaths
 - by Age
 - by Gender
 - by Ethnicity
 - by Region





Vaccination Trends

- Doses administered
- % of Population Vaccinated
 - by Age
 - by Gender
 - by Ethnicity

