1st FWD AMR – RefLabCap workshop
Multidisciplinary training for
public health microbiologists and epidemiologists

CONCLUSION

4 November 2022
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CONCLUSIONS

- De-mystifying WGS

  - Expanded your vocabulary

  - Importance of QC-control

  - Tools suggestions

  - https://www.fwdamr-reflabcap.eu/-/media/arkiv/projekt-sites/fwdamrreflabcap/resources/protocols-and-guidelines/fwd-amr-reflabcap-wgs-protocol-8-july-2022.pdf

- Added value of WGS for surveillance/outbreak investigations

  - Replacing traditional methods for WGS**

  - Much better resolution, "quicker" - but just another typing method

- Added value of WGS (Cost)

  - Decrease in number of cases and deaths

  - Very large economic savings

  - Literature can be used for business cases

Table 1. Recommended minimum and optimal requirements for reference diagnostics and characterisation of Salmonella

Requirements	Serotyping	Antimicrobial resistance	Cluster detection
Minimum	Phenotypic or genotypic: common serovars	Phenotypic AST or genotypic AMR prediction	Not applicable*
Optimal	Phenotypic or genotypic: all serovars	Phenotypic AST and WGS-based AMR prediction**	WGS-based (e.g. cgMLST, wgMLST, SNP***)

* if the NRL has not yet implemented any method for cluster detection, we recommend implementation of WGS-based cluster detection

** a defined proportion of isolates or selected isolates are periodically tested phenotypically to ensure detection of novel resistance mechanisms

*** cgMLST – core genome Multilocus Sequence Typing, wgMLST whole genome Multilocus Sequence Typing, SNP – Single Nucleotide Polymorphism

- **Model protocol for national surveillance of AMR in consultation with the FWD AMR-RefLabCap network**

  - Deadline prolonged to the 14 November 2022

- **EQA for genotypic testing of AMR**

  - Feedback is expected to be sent by November/December 2022

- **Ring-trials for WGS-based prediction of AMR**

  - Feedback is expected to be sent by December 2022

- **Mapping and evaluation of capacities in regional/local laboratories**

  - Third online workshop January 2023

  - Deadline for delivering the summary report (in English) is March 2023

- **2nd Network meeting**

  - Physical meeting in Copenhagen 26-27 April 2023

- **2nd Multidisciplinary training**

  - An outbreak exercises: 2023 + 2024

- **Additional workshops to support NRL in the core functions, EQAs and Ring trials**

  - 2023-2024

- LINK In the chat + will be sent to the network

- https://www.survey-xact.dk/LinkCollector?key=TVRNRHAESK3J

Use the FWDAMR@ssi.dk

Try the SLACK Channel

Thank you!