Antimicrobial Resistance Characterization in Metagenomes

NastyBugs	Bug_And_Drugs	Nasty_Metagenomes

The goal:

AMR

- What if it's not in a database?
  - HMM to detect homologs

- Where does it come from?
  - Resfinder to detect origin (Genomes, Plasmids)

The tools:

- AMR: CARD, resFinder, ARG-ANNOT
- Workflow: Nextflow
- Container: Docker

FASTA (MAGs)   AMR DB

WORK IN PROGRESS

Prodigal (ORF) → HMM

AMR Hits Contig context → BLAST RefSeq (Genomes, Plasmids) → Visualization
- TAB
- PLOT (?)