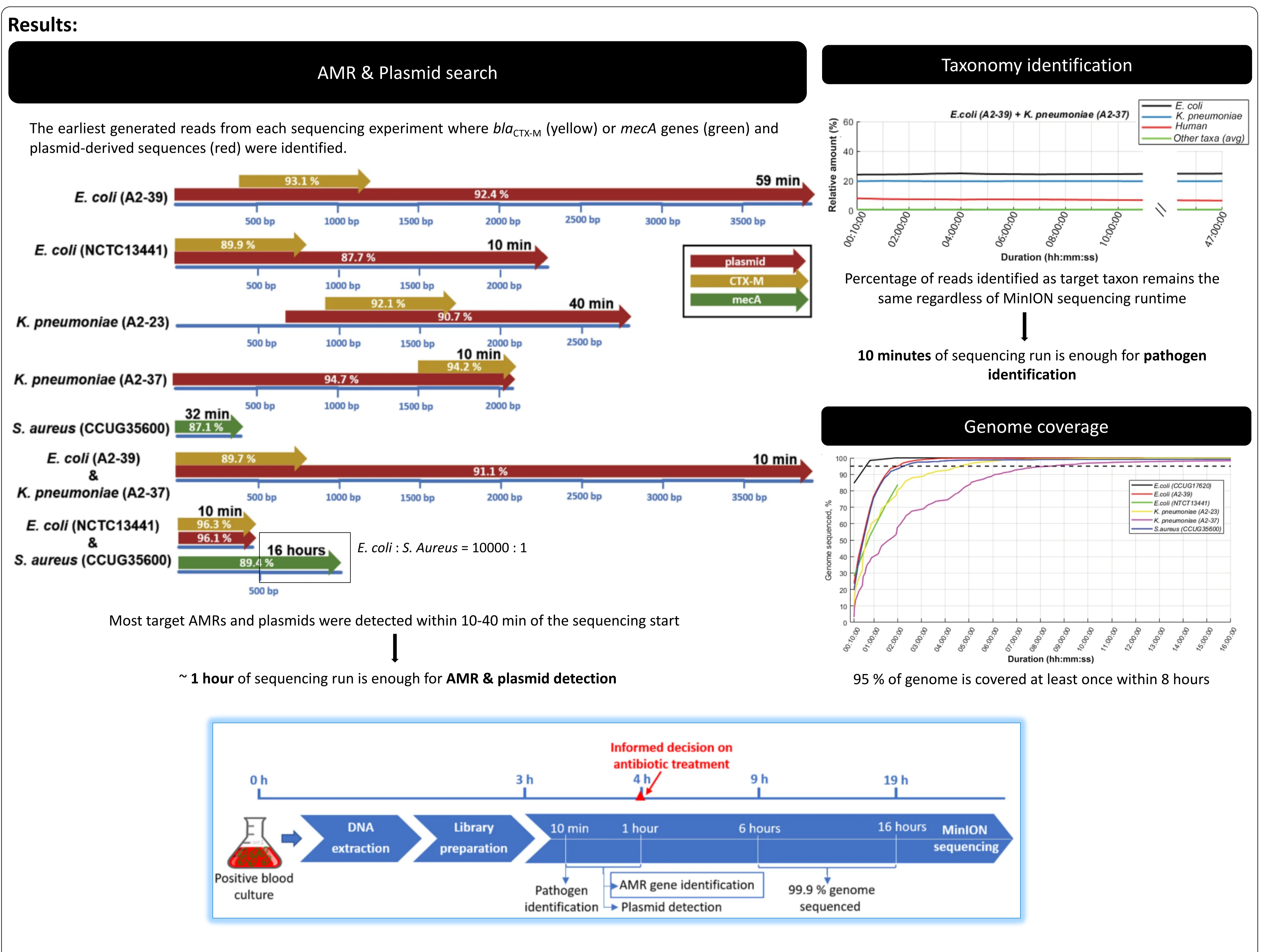
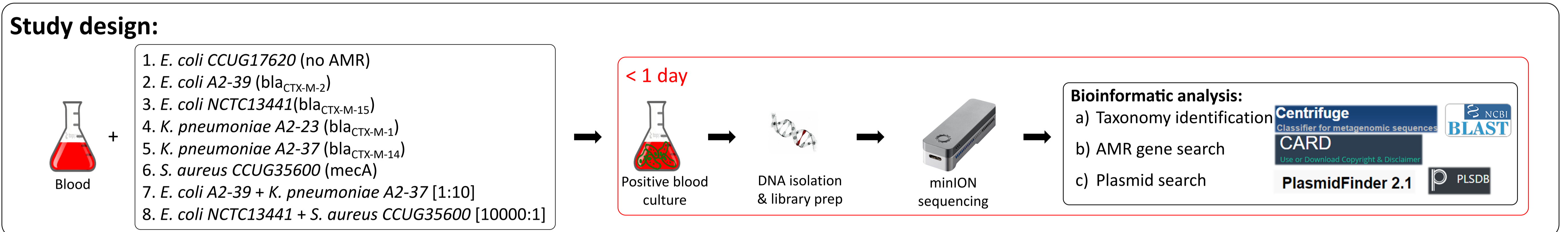
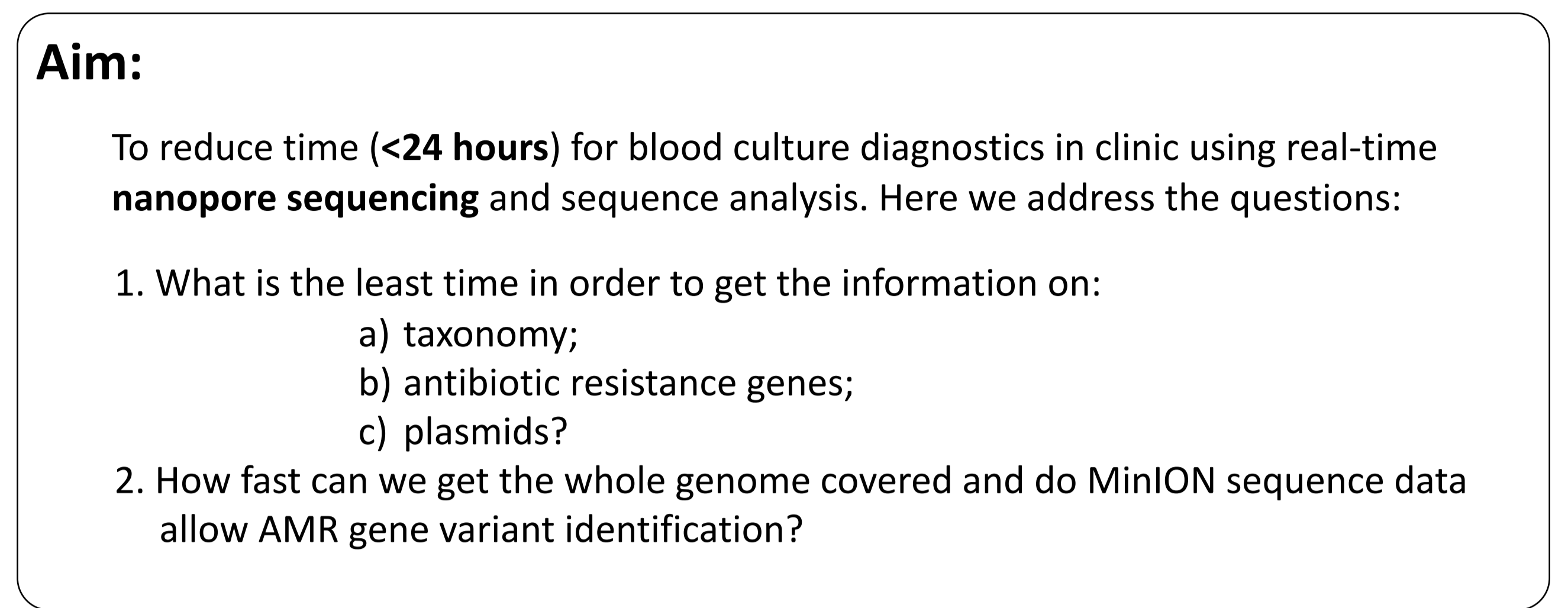
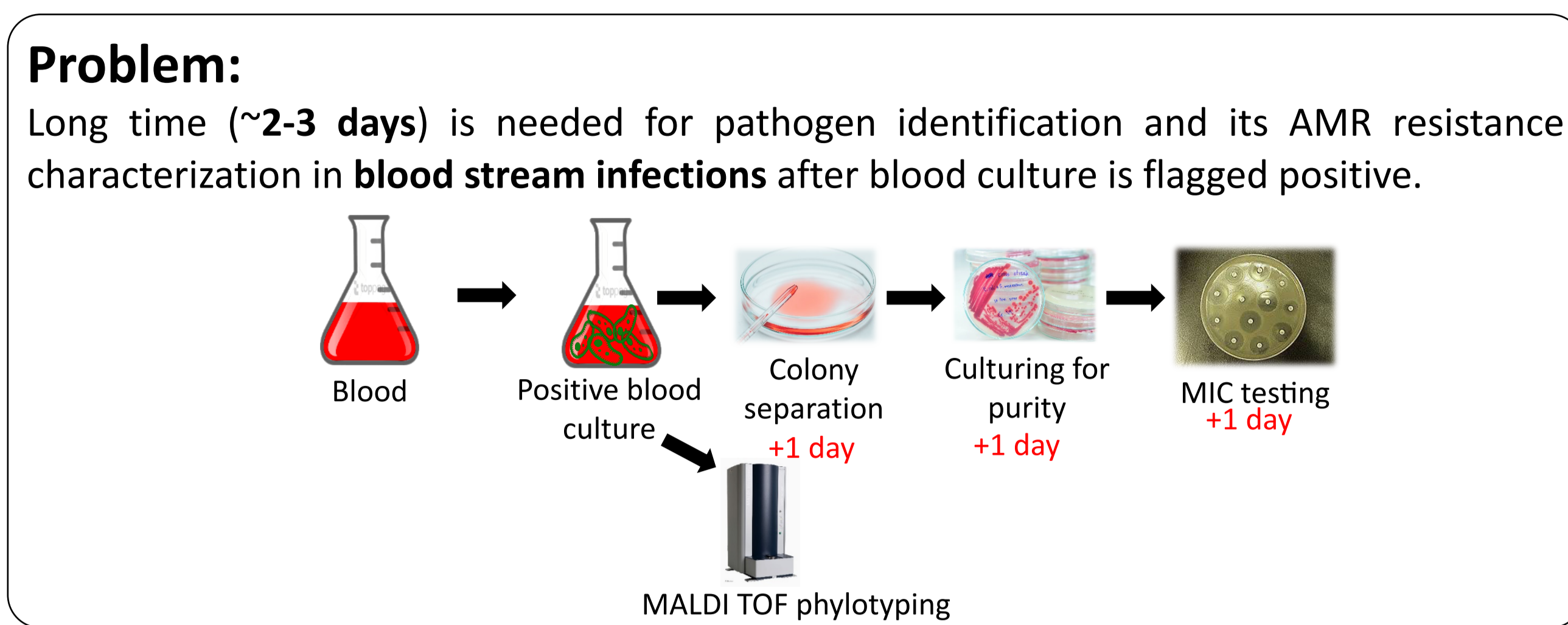


# Rapid identification of pathogens, antibiotic resistance genes and plasmids in blood cultures by nanopore sequencing

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**Conclusion:**  
 This sequencing-based approach to blood stream infection diagnostics can identify pathogens and detect AMR-encoding genes within four hours from the time point when a blood culture is flagged as positive.

- pathogen identification ~10 min from the sequencing run start
- AMR gene group and plasmid ~ 1 hour from the sequencing start (enough to alert clinician on AMR)
- AMR gene group typing and plasmid identification – after sequencing end (up to 16 hours)