

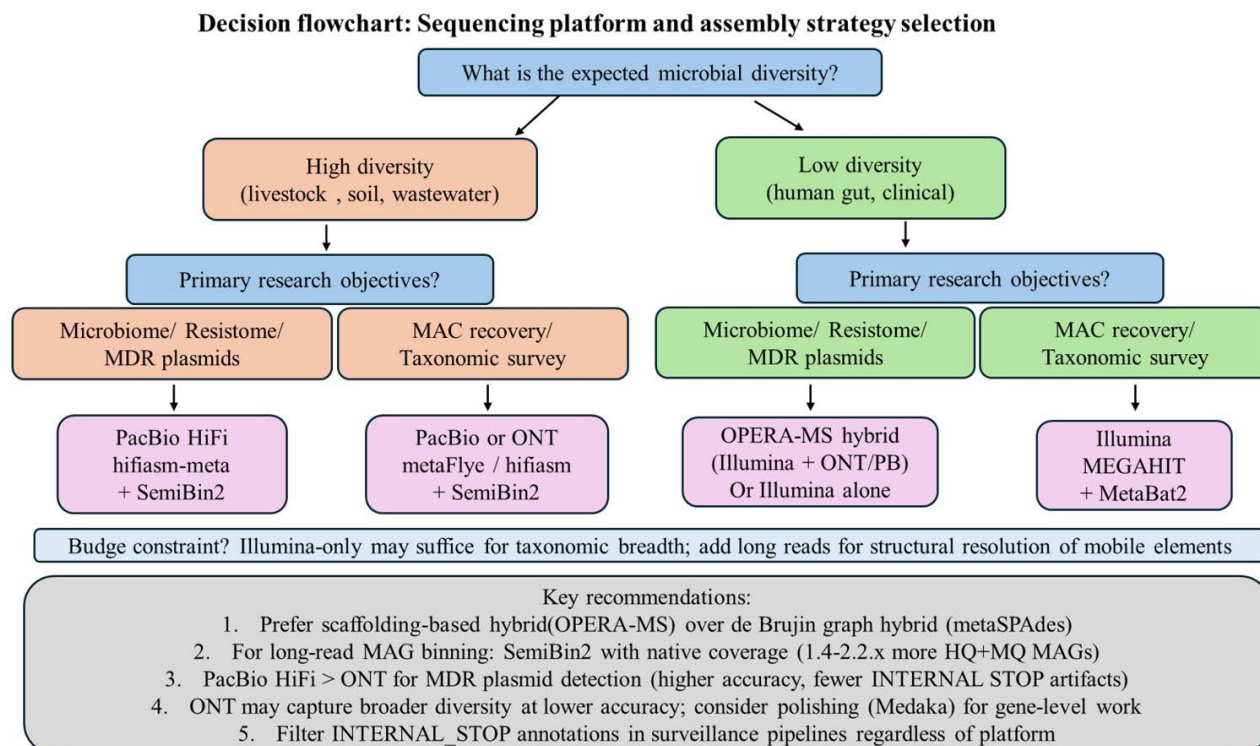


Fig. S3. Decision flowchart for sequencing platform and assembly strategy selection. The flowchart guides users toward appropriate strategies based on sample complexity (high vs. low microbial diversity), primary research objective (resistome/mobilome profiling, plasmid recovery, MAG reconstruction, taxonomic survey), and resource constraints.