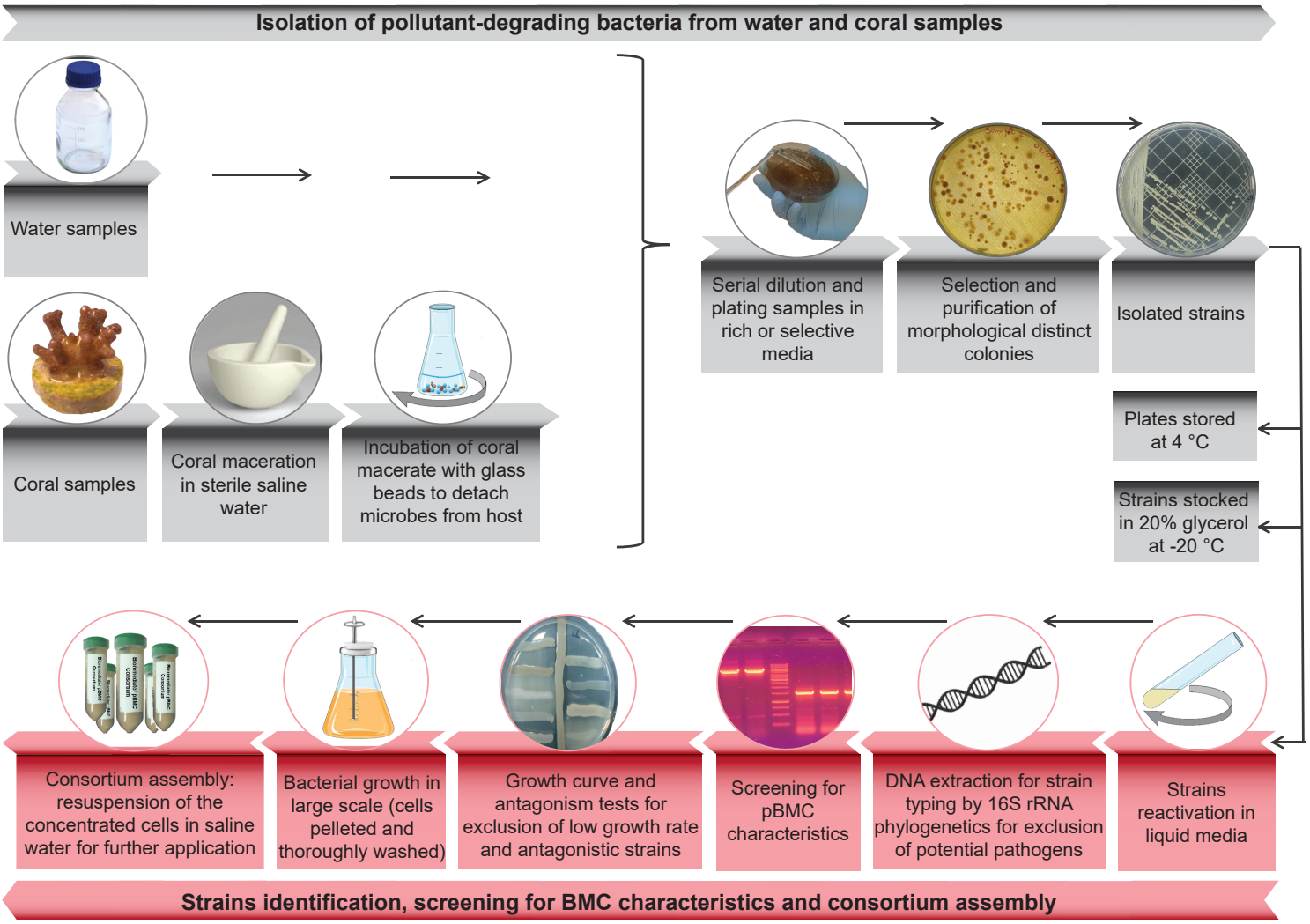
Isolation of pollutant-degrading bacteria from water and coral samples
Water samples
Coral samples
Coral maceration in sterile saline water
Incubation of coral macerate with glass beads to detach microbes from host
Serial dilution and plating samples in rich or selective media
Selection and purification of morphological distinct colonies
Isolated strains
Plates stored at 4 °C
Strains stocked in 20% glycerol at -20 °C
Consortium assembly: resuspension of the concentrated cells in saline water for further application
Bacterial growth in large scale (cells pelleted and thoroughly washed)
Growth curve and antagonism tests for exclusion of low growth rate and antagonistic strains
Screening for pBMC characteristics
DNA extraction for strain typing by 16S rRNA phylogenetics for exclusion of potential pathogens
Strains reactivation in liquid media
Strains identification, screening for BMC characteristics and consortium assembly