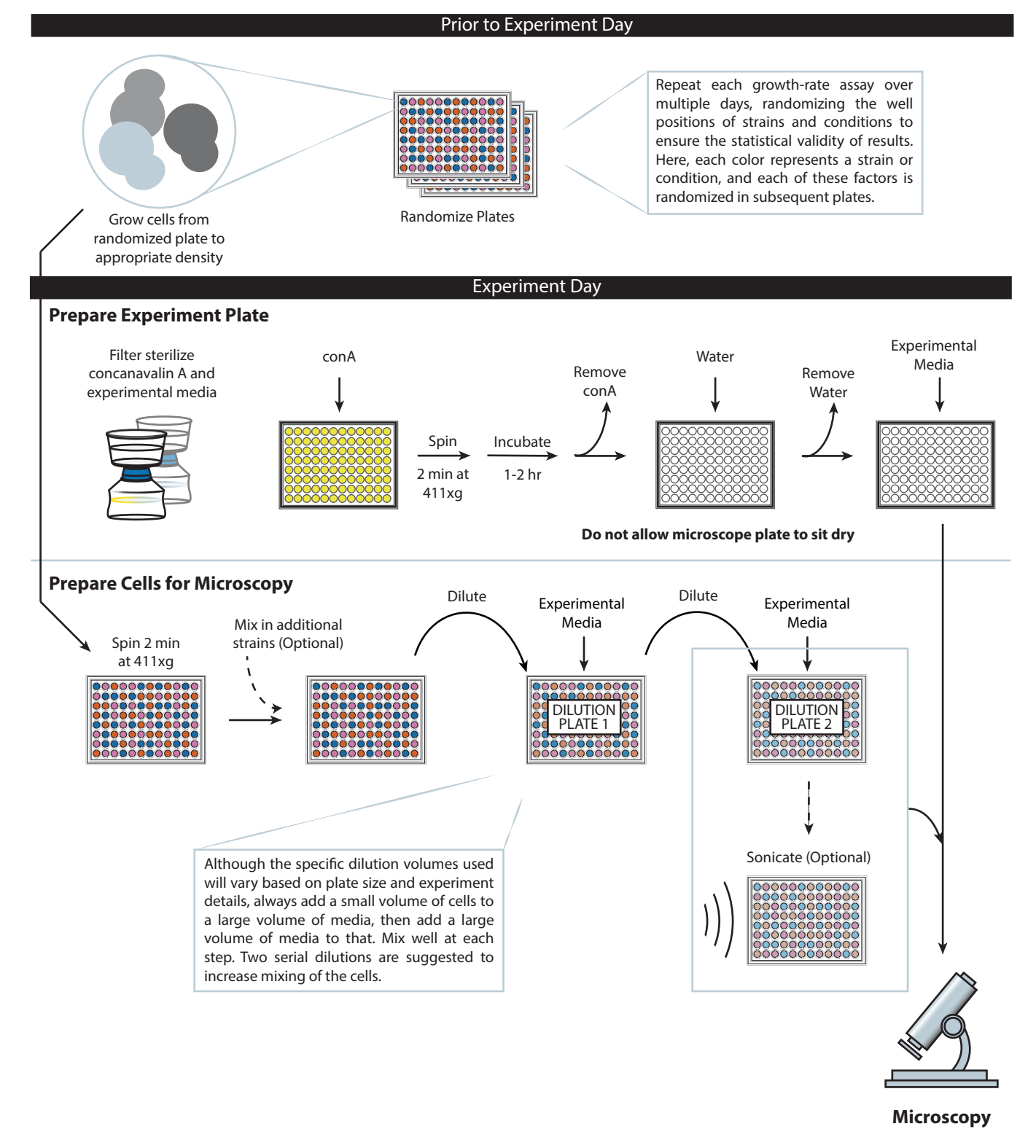
Prior to Experiment Day
Grow cells from randomized plate to appropriate density
Randomize Plates
Repeat each growth-rate assay over multiple days, randomizing the well positions of strains and conditions to ensure the statistical validity of results. Here, each color represents a strain or condition, and each of these factors is randomized in subsequent plates.
Experiment Day
Prepare Experiment Plate
Filter sterilize concanavalin A and experimental media
conA
Spin
2 min at 411xg
Incubate
1-2 hr
Remove conA
Water
Remove Water
Experimental Media
Do not allow microscope plate to sit dry
Prepare Cells for Microscopy
Spin 2 min at 411xg
Mix in additional strains (Optional)
Dilute
Experimental Media
DILUTION PLATE 1
Dilute
Experimental Media
DILUTION PLATE 2
Sonicate (Optional)
Although the specific dilution volumes used will vary based on plate size and experiment details, always add a small volume of cells to a large volume of media, then add a large volume of media to that. Mix well at each step. Two serial dilutions are suggested to increase mixing of the cells.
Microscopy