## Genomic DNA Extraction S. cerevisiae and S. pombe

## Protocol:

- 1. Grow a 10ml overnight culture, spot onto YPD to check markers
- 2. Pellet cells, decant supernatant and resuspend in 0.5ml water
- 3. Transfer to a 1.7ml micro-centrifuge tube
- 4. Pellet 5 seconds and decant supernatant
- 5. Briefly vortex pellet to resuspend in remaining medium
- 6. Add: 0.2ml Smash and Grab Solution 0.2ml Phenol-Chloroform 0.3grams Acid-washed glass beads
- 7. Vortex for 2-5 minutes using the multi-tube holder or 10 minutes on multi-tube vortexer in the cold room
- 8. Add 0.2ml of TE to each tube
- 9. Spin 5 minutes in centrifuge
- 10. Transfer aqeous phase to new tube
- 11. Add 1.0ml EtOH and mix to ethanol precipitate
- 12. Spin down 5 minutes, decant supernatant
- 13. Resuspend pellet in 0.4ml TE
- 14. Add 30µg RNase and incubate for 5 minutes at 370
- 15. Add 10µl 4M ammonium acetate and 1.0ml EtOH
- 16. Ethanol precipitate on ice for 5 minutes
- 17. Spin down 10 minutes
- 18. Optional wash with 0.5ml 70% EtOH
- 19. Air dry pellet and resuspend in 100µl TE

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## Smash and Grab Solution (100mL)

10 mL 10% SDS (1%) 2 mL 100x Triton-X100 (2%) 2 mL 5M NaCL (100mM) 1 mL 1M Tris pH 8.0 (10mM) 200 □L 0.5M EDTA pH 8.0 (1mM)

Mix in beaker, adding the detergents while the solution is mixing. Filter sterilize.

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