## Candida Killing Assay Protocol

1. Start overnight cultures in yeast extract peptone dextrose (YPD) at $30^{\circ} \mathrm{C}$ on roller drum
2. Prepare cultures
a. Wash 1 ml cultures in $\mathrm{dH}_{2} \mathrm{O}$
b. Measure $\mathrm{OD}_{600}$
c. Adjust $\mathrm{OD}_{600}$ to 0.25 in RPMI ( 100 ul will contain $\sim 500,000$ cells)
3. Isolate healthy human neutrophils from fresh whole blood using protocol "Isolating human PolyMorphoNuclear Cells (PMNs) Protocol"
4. Resuspend PMNs in RPMI - 250,000 cells/100ul RPMI (MOI 2)
5. Add 100 ul fungi and 100 ul PMNs to a 1.5 ml Eppendorf tube
a. Include a "no PMN" control for each strain
6. Incubate 4 hours @ $37^{\circ} \mathrm{C}$
7. Centrifuge samples for 5 min @ 4,000rpm
8. Aspirate off supernatant
9. Lyse neutrophils by resuspending pellet in sterile-filtered $0.1 \%$ Triton-X in PBS
10. Dilute each sample 1:10, 1:100, 1:1000
11. Plate 10 ul of each dilution on YPD plates
12. Incubate at 37 C for $24-48$ hours - check to see if colonies are large enough to count.

Leave them at room temp if you want them to grow a little more or put them at $4^{\circ} \mathrm{C}$ if you want to count them later

