

P059 Isolation of cytokinetic contractile rings from *S. cerevisiae*
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As important elements of cytokinesis in humans are conserved in *S. cerevisiae*, we are exploiting yeast's experimental advantages to study cytokinesis. To isolate cytokinetic ring contraction from related processes of the cell and give greater control of experimental parameters, we are developing a cell free functional assay for cytokinetic ring contraction. Excitingly, we have found it possible to isolate intact cytokinetic rings from yeast; preliminary results suggest that these may be contractile. To develop the assay and move to a definitive list of machinery sufficient for ring contraction, we are improving affinity tagging of known ring subunits. An immediate application of this system we intend to pursue is an examination of how the contractile ring's many subunits fit into its ultrastructure.