Reconcile differences between experiments and model predictions
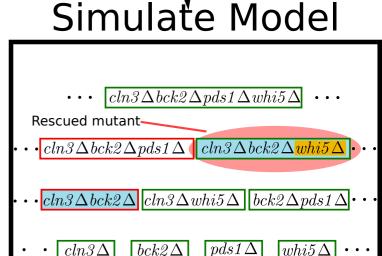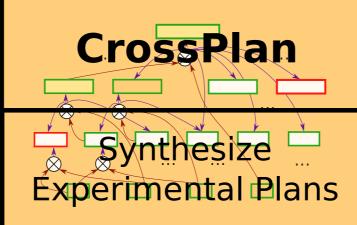
Build Model

Simulate all up-to-*s* gene deletions

Validate Predictions

Image processing

Simulate Model

Rescued mutant

$cln3\Delta bck2\Delta pds1\Delta whi5\Delta$

$cln3\Delta bck2\Delta pds1\Delta$ $cln3\Delta bck2\Delta whi5\Delta$

$cln3\Delta bck2\Delta$ $cln3\Delta whi5\Delta$ $bck2\Delta pds1\Delta$

$cln3\Delta$ $bck2\Delta$ $pds1\Delta$ $whi5\Delta$

CrossPlan

Synthesize Experimental Plans

Use plans to make mutants and characterize phenotypes

Prioritize all rescued mutants for experimental validation

Build Model diagram labels: Cell Size, Cln3 Bck2 Module, START Module, Cln2, Clb5, Clb2, DNA Synthesis, Bud, SCF, Cln2, Clb5, Cdc20$_A$, Cln2, CKI, CKIP, SCF, Cdc20$_A$, Pds1, MCM1 SWI5 Module, Clb2, CKI, Cdc20$_A$, Cdh1$_A$, Cdh1$_A$, Cdc5, Clb2, MORPHO Module, Clb2$_I$, Mitosis, Anaphase, Esp1, Cdc55, Cdc5$_A$, Cdc20, Spindle Orientation, MEN Module, RENT Module, SAC Module, Cdh1$_I$, Clb2, Clb5, Cln2, Lte1, Cdc14$_{cyto}$, Cdc14$_{nuc}$, Cdc14$_{nucleolus}$, Cdc20$_A$, Cdh1$_A$