## Some yeast cdc genes and their functions

Name in budding yeast	Name in fission yeast	Product	Phenotype of loss-of-function mutant
CDC2	pol3+	subunit of DNA polymerase $\delta$	S phase arrest
CDC9	cdc17+	DNA ligase	G2 arrest with imperfectly replicated DNA
CDC28	cdc2+	protein kinase	arrest at START or G2 checkpoint
CLN1,2,3	puc1+,?	G1 cyclins	arrest at START if all 3 genes inactive
CLB1,2,3,4	cdc13+,?	mitotic cyclins	arrest at G2 checkpoint
WEE1	wee1+	protein kinase	premature passage through G2 to give small daughters
RAD9	rhp9	component of signaling pathway	failure to delay mitosis when DNA damaged

