ABSTRACT

TITLE:	Investigating Whether HTZ-1 Is Located at the ADE2-TEL Gene in S. Cerevisiae Strain UCC1371
AUTHOR(S):	Ziemke, Michael K. ; DeBauche, Spencer
PRESENTED AT:	6th Annual Natural & Behavioral Sciences Undergraduate Research Symposium Program, Fort Lewis College, 2011

ABSTRACT: In S. cerevisiae, the HTZ-1 variant commonly substitutes the H2A histone in heterochromatin regions. HTZ-1 is known to bind to the basal promoter region (TATA box) of the gene. Our study is looking at the possible association of HTZ-1 with an artificially placed telomeric gene, ADE2, within the S. cerevisiae mutant UCC1371. We were able to gain insight on this plausible interaction between the two by utilizing chromatin immunoprecipitation (ChIP) and qPCR technology. From our qPCR results we can speculate that HTZ-1 may be located at the ADE2 gene.