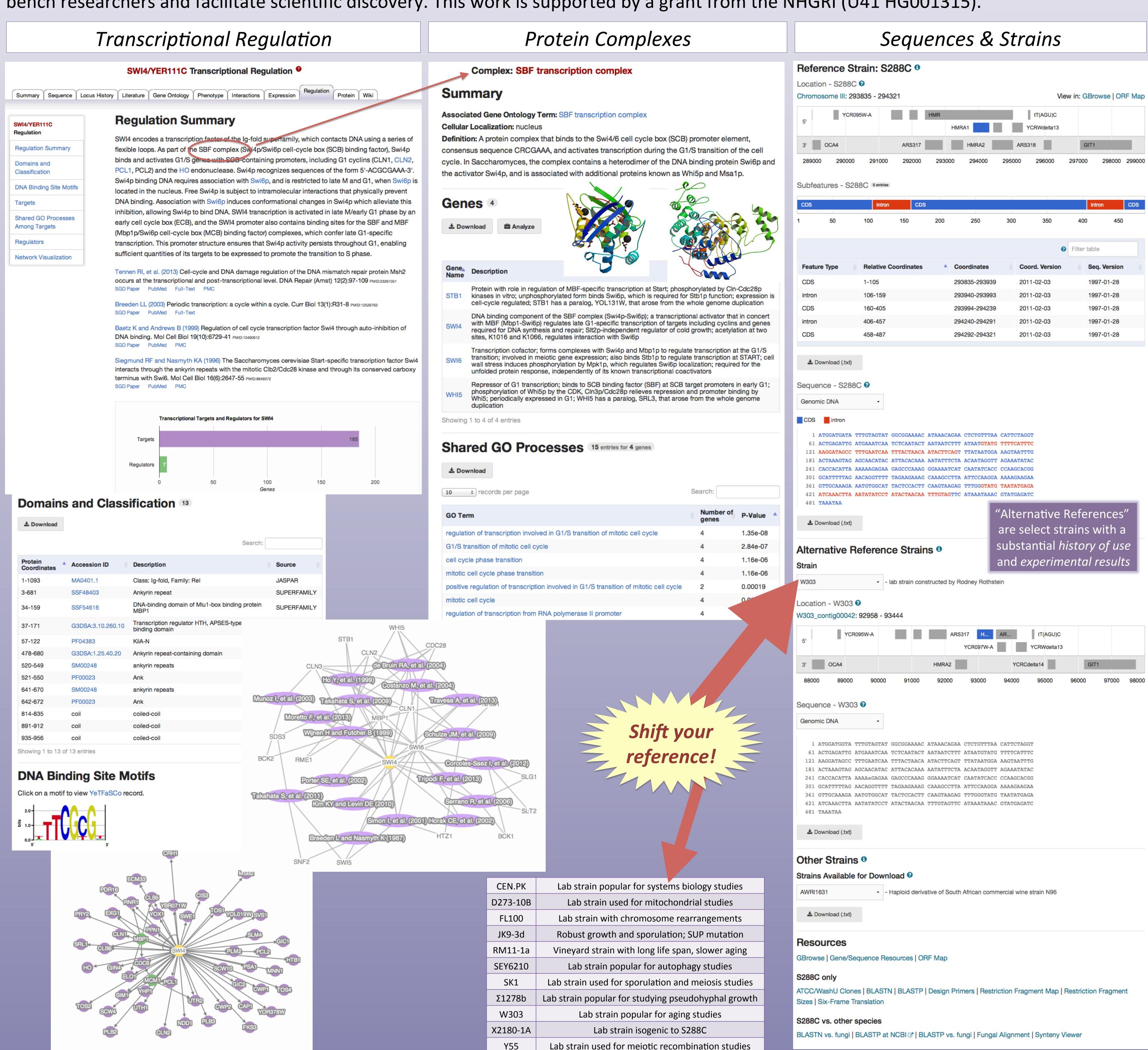


## Transcriptional regulation and protein complexes in budding yeast



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The basis for much of our understanding of transcriptional regulation has been learned from the budding yeast *Saccharomyces cerevisiae*. Studies with yeast have also provided powerful insights into the diversity of protein complexes and the cellular pathways in which they are involved. We will present an update on new developments at the *Saccharomyces* Genome Database (SGD; http://www.yeastgenome.org/), the premier community resource for budding yeast. We have expanded the scope of SGD to include high quality manually curated information regarding transcriptional regulation and protein complexes. These new categories are provided in meaningful ways allowing data mining and discovery by integrating these data into this encyclopedic online resource. In addition to introducing our presentation of these newly curated data we will highlight other new developments, such as methods to display the depth of sequence variation within the many available genomes of *S. cerevisiae*. We already provide access to many of the strain genomes, in addition to the reference genome sequence of strain S288C. We will annotate and provide comparative analyses of these additional genomes, correlating sequence changes with variations in cellular phenotypes and protein function. SGD maintains these different datatypes, and distributes them to the scientific community via the web and file transfer. These expanded outreach efforts are part of our continuing mission to educate students, enable bench researchers and facilitate scientific discovery. This work is supported by a grant from the NHGRI (U41 HG001315).



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