OWB mapping exercise

This exercise (workout?) involves constructing a linkage map using available data. The population consists of 82 doubled haploids and 2,846 markers of various types. The marker data are available in OWB\_82\_to map\_1.xls. The data are from Chutimanitsakun et al. 2011. BMC Genomics. **12**:4

You will use this linkage map to find the linkage map coordinates for the determinants of two morphological markers (covered vs. naked seed (nud locus) and awned vs. hooded inflorescence (kap locus). Information on these two phenotypes is available in OWB nud\_kap\_1.pptx. As described in this PowerPoint, a third locus (lks2) gets involved.

You will score nud using seed samples provided. You will score kap (and lks2) using the inflorescence samples provided and/or the images posted at <https://barleyworld.org/oregon-wolfe-barleys/images/owb-hb-phenotypes>