Papers 2 and 3 presentations:

April 12, 2011 Paper 2 Pan et al. 2006
"A DNA Integrity Network in the Yeast Saccharomyces cerevisiae"
Cell 124: 1069-1081.

Presentations:
This paper will be run more on questions and discussion than structured presentations.
Know what is presented in each figure.

Background (methods):
Pan et al. 2004 and Pan et al. 2007
You will be responsible for understanding the methods.

Other external readings:
You will want to look up some specific genes on SGD
(genome-www.stanford.edu/Saccharomyces/) and other resources to understand their biology.

"Novel and Expanded Roles for MAPK Signaling in Arabidopsis Stomatal Cell Fate Revealed by Cell Type-Specific Manipulations"
The Plant Cell 21: 3506-3507.

Presentations:
1 - Introduction. MAPK signaling. 2 paragraphs.
2 - Introduction. Stomatal development. 3 paragraphs, Fig. 1
3 - Macroscopic yda Seedling Phenotypes Are Separable
4 - Cell Type–Specific Activation of the YDA Signaling Pathway Reveals YDA Functions in Each Stage of Stomatal Development
5 - Activation of MKK4 and MKK5 Inhibits Stomatal Development at Multiple Stages
6 - Design and Construction of a CA-MAPKK Panel
7 - Additional MAPKKs Can Inhibit Stomatal Development at Multiple Stages
8 - MKK7 and MKK9 Positively Influence the GMC to Guard Cell Transition
9 - Guard Cell Tumor Formation Caused by Activation of MKK9 Results in SPCH Transcription
10 - MAPKs Acting in the Pathway Downstream of MAPKKs
11 - Targets of MAPKs
12 – Discussion - Using Cell Type-Specific Promoters to Activate MAPK Signaling
13 – Discussion - Negative Regulation of Stomatal Development by MAPK Signaling
14 – Discussion - A Novel, Positive Role for MAPK Signaling in Stomatal Development

Background: