

## CHAPTER II

### OBJECTIVES

1. To investigate the role of the MAPK pathways in ethanol tolerance by the examination of growth of the mutants lacking genes encoding components of the MAPK pathways under ethanol stress condition.
2. To study the effects of ethanol on cell wall remodeling in the yeast wild-type strain.
3. To investigate the role of the MAPK pathways in cell wall remodeling.
4. To examine the effect of hyperosmolarity stress on cell growth and cell wall remodeling under ethanol stress condition.
5. To investigate the expression of genes involved in cell wall biosynthesis under ethanol stress condition.