

1. How many proteins were differentially expressed in response to salt stress? How many of them were not identified by mass spectrometry analysis? Which spot was identified as 5-methyltetrahydropteroyltriglutamate-homocysteine methyltransferase? And which spot was identified as a protein that involved in oxidative stress defense?
2. How to clone *DEHYDRIN* from tobacco and then over-expressed in Arabidopsis? And how to verify the successful T-DNA insertion? (Please mention all the vectors and methods you need for each step)
3. How to purify a positive charged- membrane protein from tobacco leaves?
4. Can you invent a biotechnological product using the technique(s) learned from the class?
5. Is this course useful? Explain your reason.