

## **2014 BIOD22H3 Molecular Biology of the Stress Response**

### **Part I-**

- Sept 9 Introduction to the cellular stress response
- Sept 16 Molecular features of the heat shock (stress) response
- Sept 23 Heat shock transcription factors
- Sept 30 Protective effects of heat shock proteins
- Oct 7 Heat shock proteins and neurodegenerative diseases
- Oct 14 Reading Week- No Lecture
- Oct 21 Midterm exam

### **Part II-**

- Oct 28 Potential therapeutic agents to up-regulate Hsps
- Nov 4 Neurodegenerative diseases are 'protein misfolding disorders'
- Nov 11 Role of heat shock proteins in aging and resistance to oxidative stress
- Nov 18 Localization of heat shock proteins: targeting to cellular organelles
- Nov 25 Modulation of neurodegeneration by molecular chaperones

**Midterm exam- 50%**

**Final exam- 50% (held during final exam period)**