

2015 BIOD22H3 Molecular Biology of the Stress Response

Part I-

- Sept 8 Introduction to the cellular stress response
- Sept 15 Molecular features of the heat shock (stress) response
- Sept 22 Heat shock transcription factors
- Sept 29 Protective effects of heat shock proteins
- Oct 6 Heat shock proteins and neurodegenerative diseases
- Oct 13 Reading Week- No Lecture
- Oct 20 Midterm exam

Part II-

- Oct 27 Potential therapeutic agents to up-regulate Hsps
- Nov 3 Neurodegenerative diseases are 'protein misfolding disorders'
- Nov 10 Role of heat shock proteins in aging and resistance to oxidative stress
- Nov 17 Localization of heat shock proteins: targeting to cellular organelles
- Nov 24 Modulation of neurodegeneration by molecular chaperones

Midterm exam- 50%

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