

2017 BIOD22H3 Molecular Biology of the Stress Response

(Tuesdays 9-11 am in HW408)

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Part I-

- Jan 3 Introduction to the cellular stress response
- Jan 10 Molecular features of the heat shock (stress) response
- Jan 17 Heat shock transcription factors
- Jan 24 Protective effects of heat shock proteins
- Jan 31 Heat shock proteins and neurodegenerative diseases
- Feb 7 No Lecture

Feb 14 Midterm exam

Feb 20-24 Reading Week (no classes)

Part II-

- Feb 28 Potential therapeutic agents to up-regulate Hsps
- Mar 7 Neurodegenerative diseases are 'protein misfolding disorders'
- Mar 14 Role of heat shock proteins in aging and resistance to oxidative stress
- Mar 21 Localization of heat shock proteins: targeting to cellular organelles
- Mar 28 Modulation of neurodegeneration by molecular chaperones

Midterm exam- 50%

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