

**BIOD22H3F Molecular Biology of the Stress Response Fall 2018**

(Tuesdays 10-12 in PO-101)

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**Part I- Lecture topic**

- Sept 4 Introduction to the cellular stress response
- Sept 11 Molecular features of the heat shock (stress) response
- Sept 18 Heat shock transcription factors
- Sept 25 Protective effects of heat shock proteins
- Oct 2 Heat shock proteins and neurodegenerative diseases
- Oct 9 **Reading Week- No Lecture**
- Oct 16 **No lecture- Mid Term Test Date to be set by Registrar Office**

**Part II-**

- Oct 23 Potential therapeutic agents that up-regulate Hsps
- Oct 30 Neurodegenerative diseases are 'protein misfolding disorders'
- Nov 6 Role of heat shock proteins in aging and resistance to oxidative stress
- Nov 13 **No lecture**
- Nov 20 Localization of heat shock proteins: targeting to cellular organelles
- Nov 27 Modulation of neurodegeneration by molecular chaperones

**Midterm exam- 50%**

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