

BIOD22H3F Molecular Biology of the Stress Response Fall 2017

(Tuesdays 10-12 in HW408)

Professor Ian Brown- ibrown@utsc.utoronto.ca

Part I- Lecture topic

- Sept 5 Introduction to the cellular stress response
- Sept 12 Molecular features of the heat shock (stress) response
- Sept 19 Heat shock transcription factors
- Sept 26 Protective effects of heat shock proteins
- Oct 3 Heat shock proteins and neurodegenerative diseases
- Oct 10 **Reading Week- No Lecture**
- Oct 17 **Midterm exam**

Part II-

- Oct 24 Potential therapeutic agents that up-regulate Hsps
- Oct 31 Neurodegenerative diseases are 'protein misfolding disorders'
- Nov 7 Localization of heat shock proteins: targeting to cellular organelles
- Nov 14 **No lecture**
- Nov 21 Modulation of neurodegeneration by molecular chaperones
- Nov 28 Role of heat shock proteins in aging and resistance to oxidative stress

Midterm exam- 50%

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