

BIOD22H3F Molecular Biology of the Stress Response Fall 2019

(Tuesdays 9-11 in AA204)

Professor Ian Brown- ibrown@utsc.utoronto.ca

Part I- Lecture topic

- Sept 3 Introduction to the cellular stress response
- Sept 10 Molecular features of the heat shock (stress) response
- Sept 17 Heat shock transcription factors
- Sept 24 Protective effects of heat shock proteins
- Oct 1 Heat shock proteins and neurodegenerative diseases
- Oct 8 **No Lecture-Mid Term Test Date to be set by Registrar Office**
- Oct 15 **Reading Week- No lecture**

Part II-

- Oct 22 Potential therapeutic agents that up-regulate Hsps
- Oct 29 Neurodegenerative diseases are 'protein misfolding disorders'
- Nov 5 Role of heat shock proteins in aging and resistance to oxidative stress
- Nov 12 **No lecture**
- Nov 19 Localization of heat shock proteins: targeting to cellular organelles
- Nov 26 Modulation of neurodegeneration by molecular chaperones

Midterm exam- 50%

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