**Course title:** LMP365H1 – Neoplasia

- **Course description:** A general introduction to the cellular and molecular aspects of cancer and its etiology. The laboratory component presents a range of benign and malignant tumor types at the gross and histological levels. Pathophysiology of cancer – tumorigenesis, invasion/ metastases, analytical and therapeutic strategies.

- **Course coordinator:** Prof. Harry Elsholtz  
  Office address: 1 King’s College Circle, MSB 6207  
  Email: h.elsholtz@utoronto.ca

- **Teaching assistant:** Sachin Kumar (MD/ PhD candidate)  
  Email: sachin.kumar@mail.utoronto.ca

- **Term:** Winter 2021

- **Time and Delivery Mode:** Thursday 1:00-3:00 pm; Online – Synchronous

- **Tutorial Location and Time:** TBD

- **Office Hours:** Online meeting times can be arranged with the Course coordinator

- **Course Details:**
  
  _Hours:_ 20L/4P  
  _Corequisite:_ LMP340H1/ LMP350H1 (formerly LMP300Y1) or permission of department  
  _Exclusions:_ none  
  _Distribution Requirements:_ Science  
  _Breadth Requirement:_ Living Things and Their Environment (4)  
  _Enrolment limits:_ Yes- 35 students

- **Student Evaluation:**
  
  Online Pathology Lab Test: 20%  
  Online Midterm Test: 35%  
  Online Final Exam: 45%

**Lectures/ Lecturers and Exams**

**January**

14  Intro & Overview; Epidemiology; DNA Damage/ Repair  
    _H. Elsholtz_

21  BRCA in Cancer  
    _R. Hakem_

28  MMR and Hypermutation in Human Cancer  
    _A Shlien_
February
4  Pathology Laboratory I                      S Kumar/ I Xie
    S Armstrong
11 Pathology Laboratory II and Lab Test: 20%  S Kumar/ I Xie
    S Armstrong
18 Reading Week
25 Online Midterm Test ....................... 35%  H. Elsholtz, S Kumar

March
4  Cancer Hallmarks; Hypoxia and Cancer Biology  M. Ohh
11 Cancer Invasion and Metastasis               M. Magalhães
18 Computational Biology in Cancer             B. Wang
25 Cancer Metabolism and Metastasis            E. Zacksenhaus

April
1  Cancer Biomarkers & Personalized Medicine   S. Selvarajah

    Special seminar: Next Generation Sequencing: new
    applications in the cancer field (1 hr)  S. Kumar

TBD  Online Final Exam ........................... 45%  H. Elsholtz, S Kumar