

MGY470HI Lecture Schedule

Human & Molecular Genetics
Tuesdays and Thursdays, 10:00-11:00 am, MSB 2173
January - April 2016

Date	Lectures	Lecturer
Jan. 12	Introduction: new frontiers in human genetics	All Profs
Jan. 14	Human genome I: chromosomal organization	Wilson
Jan. 19	Human genome II: genome organization	Wilson
Jan. 21	Gene regulation and epigenetics I: mechanisms	Wilson
Jan. 26	Gene regulation and epigenetics II: diseases and imprinting	Wilson
Jan. 28	Single gene disorders	Dowling
Feb. 2	Effects of pathogenic variants on phenotypes	Dowling
Feb.4	Genetic maps, polymorphism and human variation	Awadalla
Feb. 9	Introducing the genome clinic	Meyn
Feb. 11	Mitochondrial genetics and disease	Sondheimer
Feb. 23	Term Test (Note – alternate location booked)	Wilson
Feb. 25	Mutational mechanisms I: origins and impact of genetic variation	Pearson
Mar. 1	Mutational mechanisms II: origins and impact of genetic variation	Pearson
Mar. 3	Mutational mechanisms III: origins and impact of genetic variation	Pearson
Mar. 8	Cancer Genetics I: molecular basis of cancer	Meyn
Mar. 10	Association and population analysis approaches in complex disease	Awadalla
Mar. 15	Cancer Genetics II: molecular genetics of cancer and cancer therapy	Meyn
Mar. 17	Genetic testing for disease: molecular approaches	Awadalla
Mar. 22	Genetic testing for disease: population based genomics	Awadalla
Mar. 24	Using model organisms to understand human genetic disease	Dowling
Mar. 29	Treating genetic disease: concepts, Promise and Controversy	Cohn
Mar. 31	Treating genetic disease: drugs and proteins	Cohn
Apr. 5	Treating genetic disease: gene therapy, cell therapy, genome editing	Cohn
Apr. 7	Emerging themes, new advances and future outlooks	All Profs

University of Toronto Reading Week (2016) - February 16th-19th, February 15th is Family Day.