

BCH 7412: Epigenetics of Human Disease and Development

Fall 2018 Schedule

Module 3: Oct. 30 – Dec. 5, 2018

Time/Day: 2:00 pm - 3:45 pm, Tuesday & Thursday

Room: Cancer/Genetics Research Complex (CGRC)

Course director: Dr. Jianrong Lu, phone: 273-8200, email: jrlu@ufl.edu

<u>Date</u>	<u>Lecture Title</u>	<u>Lecturer</u>
10/30 (Tu)	Histone modifications, genome organization, and gene expression	J. Lu
11/01 (Th)	DNA methylation and chromatin structure	M. Kladde
11/06 (Tu)	Lab Methods in Epigenetics	M. Kladde
11/08 (Th)	Genomic Imprinting	T. Yang
11/13 (Tu)	Epigenetic Reprogramming, Cloning, & DNA Methylation in Mammalian Development	J. Resnick
11/15 (Th)	Epigenetics, Embryonic Stem Cells, Pluripotency, & Differentiation	N. Terada
-----Thanksgiving Holiday week, no class-----		
11/27 (Tu)	Epigenetic Control of Viral Gene Expression & Carcinogenesis	D. Bloom
11/29 (Th)	Cancer Epigenetics 1	J. Lu
12/04 (Tu)	Cancer Epigenetics 2	J. Lu

Format: This class covers topics on epigenetic regulation and its implications in development, cancer, imprinting, stem cells, and viral infection. It consists of a series of lectures presented by epigenetic experts, followed by student-led discussions of current literature. Students are expected to attend all lectures and participate in paper discussion. Each student will present one assigned research paper for in-class discussion. He/she is expected to introduce background and rationale of the study, present experimental data that support the main findings, and discuss the strengths and weaknesses of the article.

Textbook: No specific textbook is assigned. Journal articles will be distributed.

Grading will be based on the performance in class:

- In-class presentation of assigned research papers (70%)
- Participation in in-class discussions (30%)