GMS6061 The Nucleus

Module: 3; Room: CGRC #351, Tuesday and Thursday 2:00-3:30PM

Description:

The goal of this course is to develop an understanding of current concepts in contemporary cell biology focusing on spatio-temporal aspects of eukaryotic nucleus structure and function.

Format:

Faculty will present short ("chalk") talk followed by paper discussion.

For reviews:

Point of greatest interest

What point/paradigm/model/finding/observation is of most interest to you?

For original research papers:

Hypothesis

What hypothesis do the authors test?

Method

What method is of most interest to you?

Result

Which result is of most interest to you? Does it support the hypothesis and conclusions of the authors?

Opinional:

Form an opinion about the conclusion(s) of the paper.

Your experiment

Propose one (or more) experiment to extend or further support the conclusions of the paper.

Grading:

Student will be assessed a letter grade. Your grades will be based on your participation in the discussion of reviews and research paper. Grades are based on attendance. If you can't attend due to reasonable circumstances, please contact Dr. Ishov ahead of time.

Faculty:

Alexander Ishov, Associate Professor, Anatomy & Cell Biology, ishov@ufl.edu (Course Director)
Jorg Bungert, Professor, Biochemistry and Molecular Biology jbungert@ufl.ed
Yi Qiu, Assistant Professor, Anatomy & Cell Biology, qiuy@ufl.edu
Rene Opavsky, Associate Professor, Anatomy & Cell Biology, ropavsky@ufl.edu

	Date	Topic	Faculty	Time	Room
1	10-31-17	Nuclear domains/Methods in nuclear organization	Ishov	2:00-3:30PM	CGRB#351
2	11-02-17	PML NB's and Leukemia: The cell biology of disease	Ishov	2:00-3:30PM	CGRB#351
3	11-07-17	Chromosome conformation, chromosome territories and genome organization	Ishov	2:00-3:30PM	CGRB#351
4	11-09-17	Epigenetics and nuclear organization	Qiu	2:00-3:30PM	CGRB#351
5	11-14-17	Transcription regulation: spatiotemporal aspect	Ishov	2:00-3:30PM	CGRB#351
6	11-16-17	Regulation of globin gene expression	Bungert	2:00-3:30PM	CGRB#351
7	11-21-17	DNA methylation	Opavsky	2:00-3:30PM	CGRB#351
8	11-28-17	Centromere/kinetochore and Human Artificial Chromosomes (HAC)	Ishov	2:00-3:30PM	CGRB#351
9	11-30-17	DNA damage and repair foci	Ishov	2:00-3:30PM	CGRB#351
10	12-05-17	DNA replication	Ishov	2:00-3:30PM	CGRB#351