INTRODUCTION TO NUCLEAR ORGANIZATION AND FUNCTION

Watch this video:

# The nucleus:

<https://www.khanacademy.org/test-prep/mcat/cells/eukaryotic-cells/v/the-nucleus>

Read the specified sections of following article:

Marzluff WF, Gongidi P, Woods KR, Jin J, Maltais LJ.

The human and mouse replication-dependent histone genes.

Genomics. 2002 Nov;80(5):487-98. PubMed PMID: 12408966.

1. Abstract
2. Figure 1
3. Figure 2

The article is available on Blackboard in the Week2 folder.

Concepts to learn from the video:

* What is the most important function of the nucleus?
  1. To contain the genetic material of the cell
* What is the nucleolus and what does it do?
  1. Center of the nucleolus, Ribosome assembly
* What is the nuclear pore and what is its function?
  1. Where MRNA leaves the nucleus and Proteins enter

Concepts to learn from the article:

* Which chromosomes contain the histone genes in the mouse genome?
  1. Mouse chromosome 13. 3 & 11 have small amounts

In the next class we will have a blackboard quiz about these concepts. The quiz may include multiple choice, true-false, fill-in-the-blank, and/or matching questions.