

Chromatin and Chromosomes

- Each chromosome is packed into its own spheroidal region of the nucleus—**chromosome territory**
 - Permeated with channels that allow regulatory chemicals to have access to the genes
- In nondividing cell, the chromatin is not a static structure
 - Changes moment to moment according to genetic activity of cell
 - Genes get turned off and on
 - Chromosomes migrate as cells develop, moving active genes on different chromosomes closer together
 - Allows genes to partner to bring about developmental tasks in the cell