

BMS 507: Eigenetics/Transcription block

Week 1: Chromatin remodeling: histone modifications and ATP-dependent nucleosome remodeling

General references (reviews): these are not required, but will help fill in background to lectures

Kouzarides, T. Chromatin modifications and their function. *Cell* 128: 693-705 (2007).

Li *et al.* The role of chromatin during transcription. *Cell* 128: 707-719 (2007)

Martin, C and Zhang, Yi. The diverse functions of histone lysine methylation. *Nature Revs Mol Cell Biol.* 6: 838-849 (2005).

Volkel, P and Angrand, P-O. The control of histone lysine methylation in epigenetic regulation. *Biochimie* 89: 1-20 (2006).

Spivakov, M and Fisher, A. Epigenetic signatures of stem cell identity. *Nature Revs Genetics* 8: 263-271 (2007).

Saha, A. *et al.* Chromatin remodelling: the industrial revolution of DNA around histones. *Nature Rev Mol Cell Biol.* 7: 437-447 (2006).

Hogan, C. and Varga-Weisz, P. The regulation of ATP-dependent chromatin remodeling. *Mutation Res.* 618: 41-51 (2007).

Primers on Chromatin: *Nature Structural & Molecular Biology* 14: 1110-1115 (2007). (**on class website**)

These references are available on-line through UNM.