

36. Transcription

1 unit, Iestyn Whitehouse, October 21, 2025

Transcription

- RNA function and conservation of multi subunit RNA polymerases
- Protein-DNA interactions and specificity in promoter recognition
- Mechanisms of transcriptional regulation in bacteria.
- The importance of cooperativity in protein-DNA binding and gene regulation
- General transcription factors and their assembly with Pol II in a preinitiation complex
- The Pol II C-terminal domain and roles of its modification during the transcription cycle
- Promoters, regulatory regions and transcription factors
- Transcription activation mechanisms and the recruitment model

Discussion paper:

Pioneer transcription factors target partial DNA motifs on nucleosomes to initiate reprogramming.

Soufi A1, Garcia MF1, Jaroszewicz A2, Osman N1, Pellegrini M2, Zaret KS3.
Cell. 2015 Apr 23;161(3):555-68.