

# Chromatin interactions and regulatory elements in cancer : from bench to bedside

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## Outstanding questions box

- What are the mechanisms by which chromatin interactions form?
- What is the interplay between epigenetic factors and chromatin interactions?
- What are the dynamics for the formation of chromatin interactions – which molecular events happen first?
- How do specific enhancer-promoter chromatin interactions form? Are there specific cofactors and lncRNAs that are important in this process?
- What happens to the associated chromatin interactions when an enhancer is excised or epigenetically modified? Does it cause a local rearrangement of chromatin interactions with wide-ranging effects?
- What happens to the local chromatin interaction environment and phase separation at super-enhancers and promoters when epigenetic factors like BRD4 and CDK7 are inhibited?