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# Cross-linking Immunoprecipitation High-throughput Sequencing

National Cancer Institute

## Source

National Cancer Institute. *Cross-linking Immunoprecipitation High-throughput Sequencing*. NCI Thesaurus. Code C116152.

A molecular biology method combining crosslinking-immunoprecipitation and high-throughput sequencing techniques to detect and map RNA-protein interactions. In CLIP, whole tissues, organisms or individual cell types are treated with UV irradiation, which introduces covalent bonds between RNA-protein complexes. This is followed by immunoprecipitation and removal of the protein component of the crosslinked complex. The purified RNAs are then fragmented, reduced in size and subjected to high-throughput sequencing for the identification of RNA binding sites.