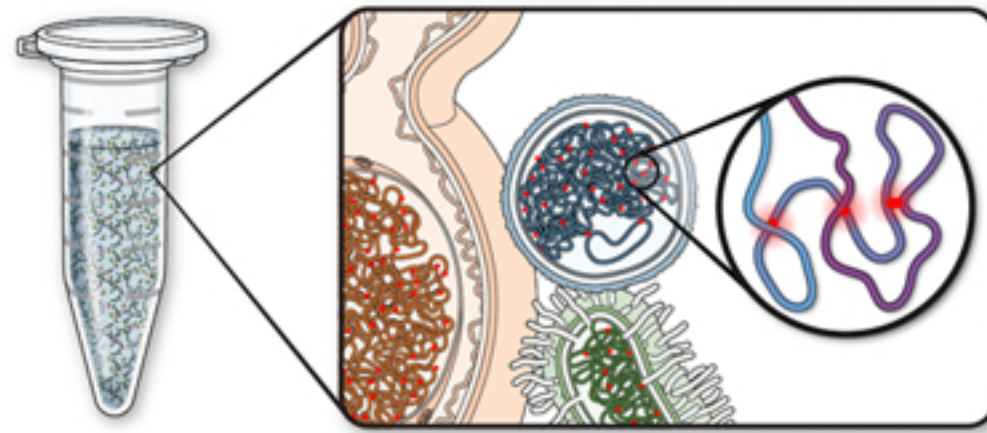
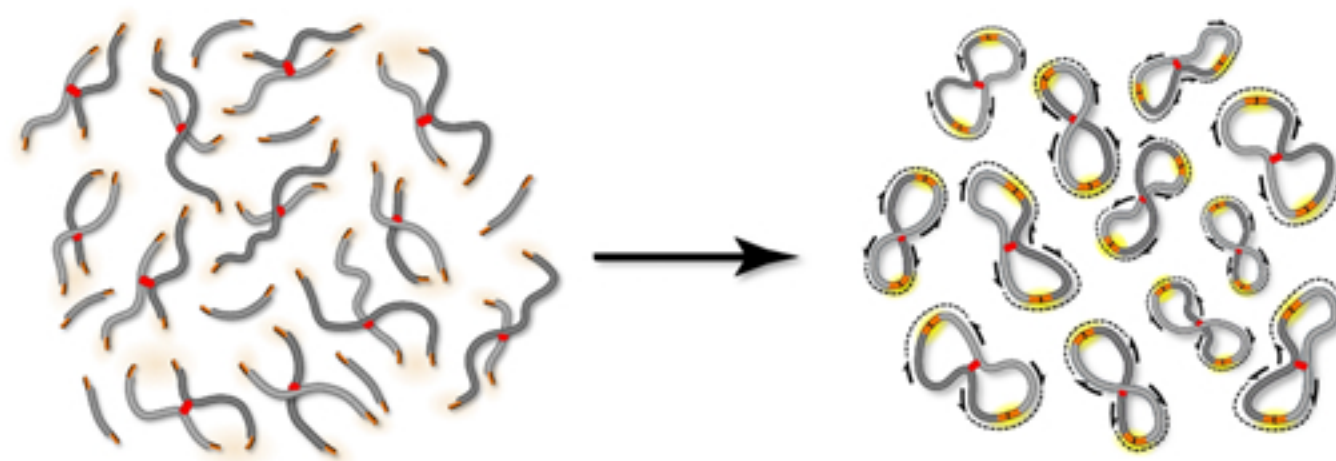


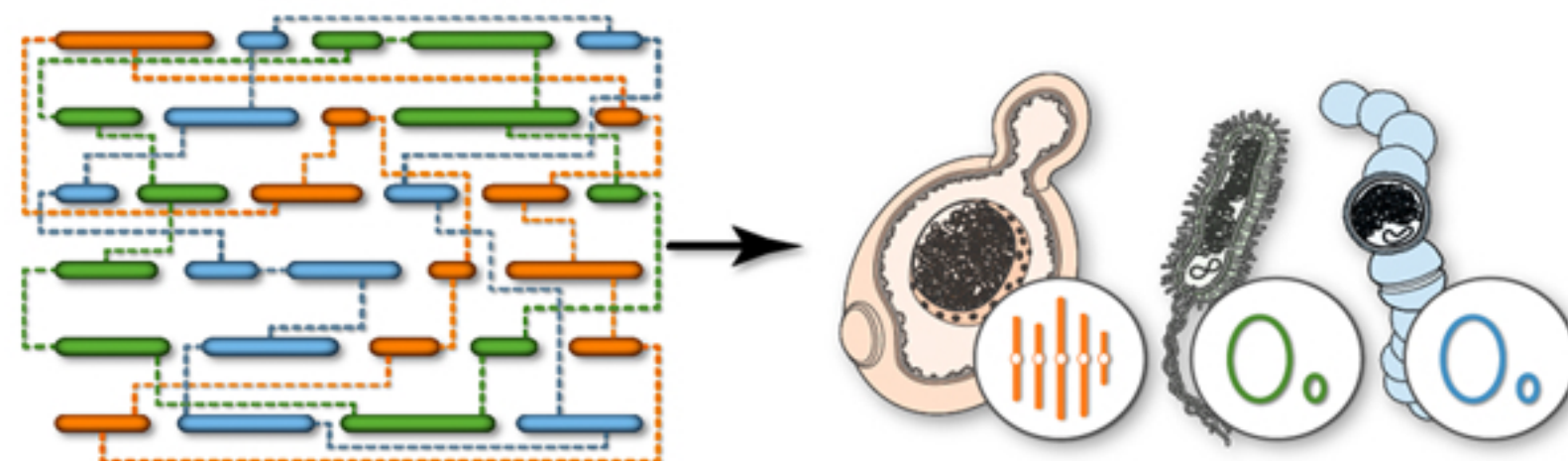
ProxiMeta™ Hi-C Metagenome Deconvolution



In vivo crosslinking traps intra-cellular DNA contacts, including inter-chromosomal and plasmid-genome interactions. Because crosslinking is performed *in vivo*, inter-cellular interactions are negligible.



Crosslinked loci are fragmented and proximity ligated, creating chimeric junctions between sequences originating from the same cell. Paired-end sequencing of these junctions yields proximity signal that is used to group sequences by cellular origin.



Intracellular proximity signal is used to deconvolute metagenomes by grouping sequences into species- and strain-specific clusters. Multi-chromosome genomes can also be assembled, and plasmids can be assigned to host organisms.