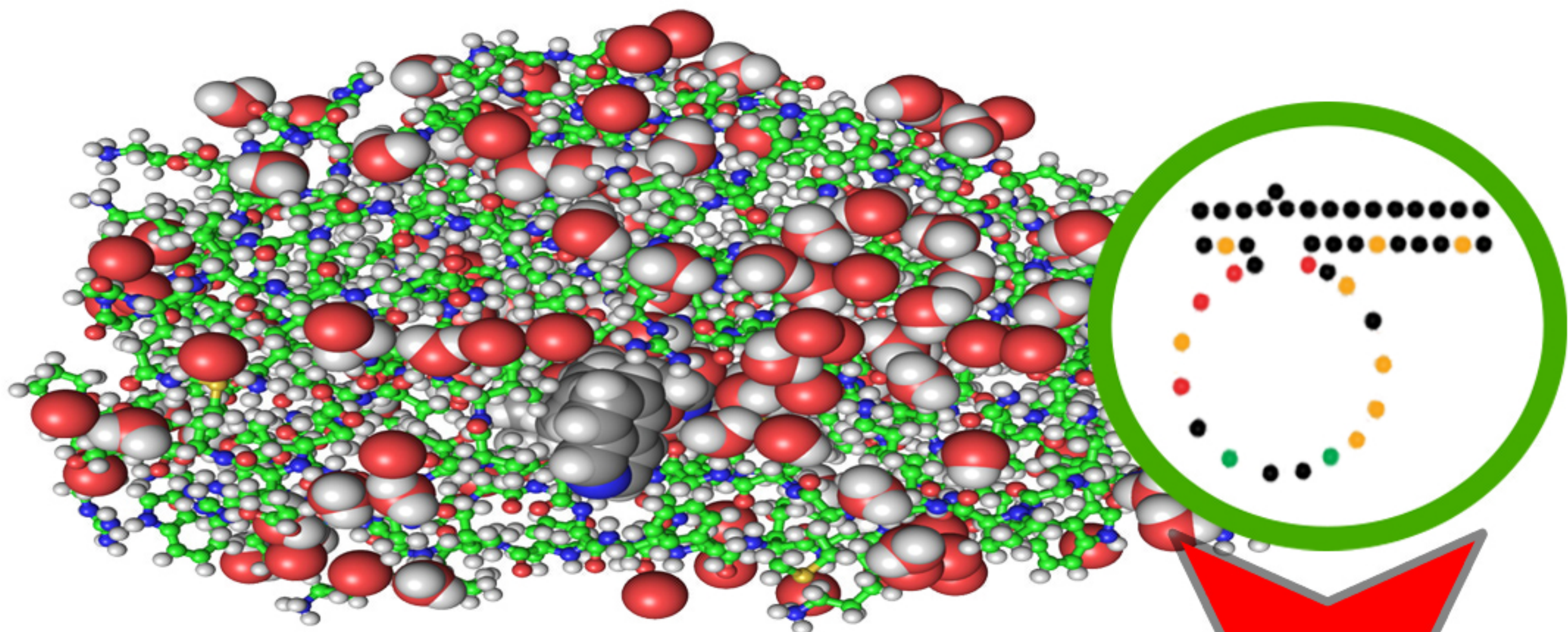


STRUCTURE BASED RNA SEQUENCE ASSEMBLY



TO BE SEQUENCED FOR COMPUTATION

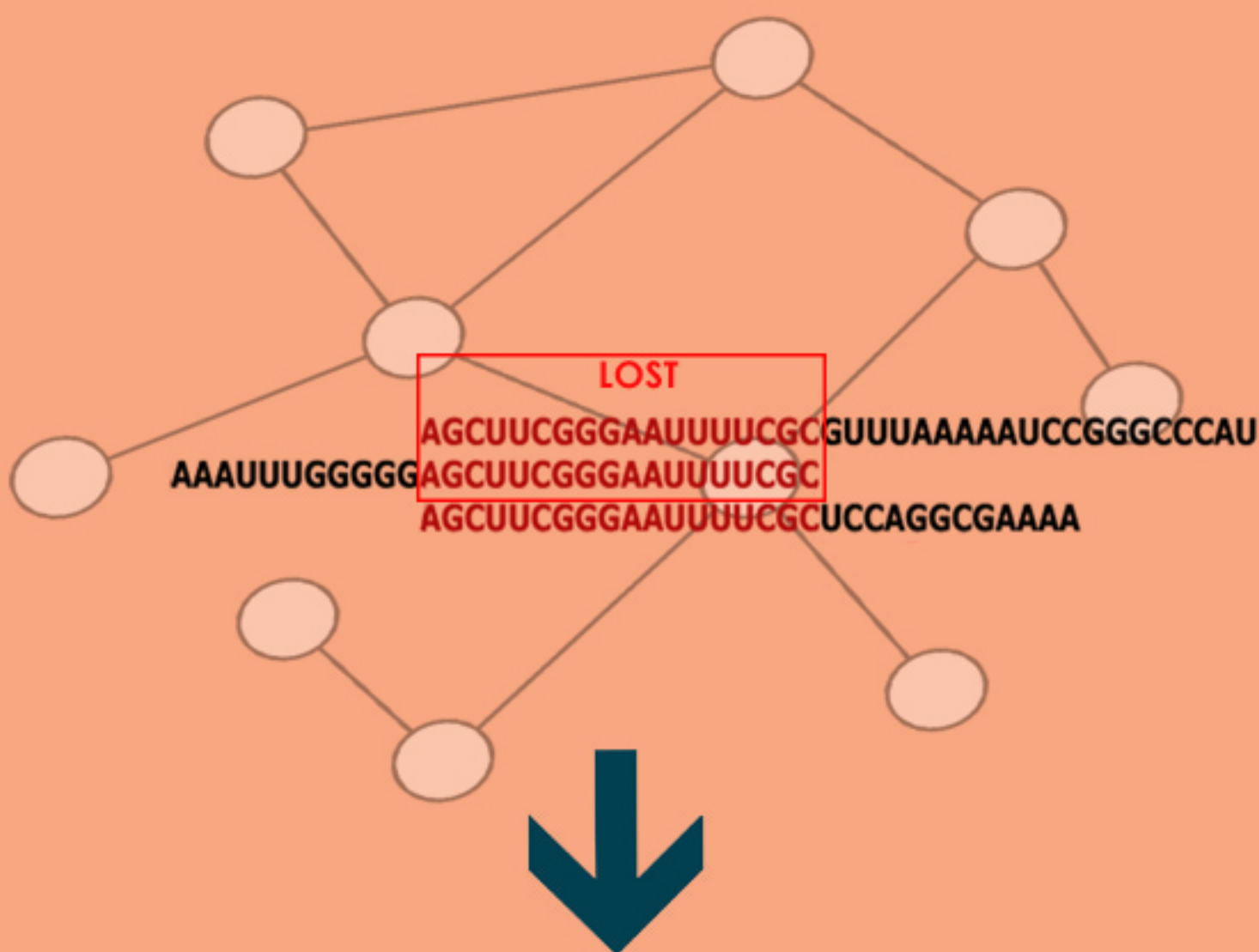
TRADITIONAL STRING OVERLAP METHOD

Sequencing DNA or RNA breaks it into many small fragments.

additional sequencing needed to allow the creation of overlaps.



The fragments then have to be reassembled again.

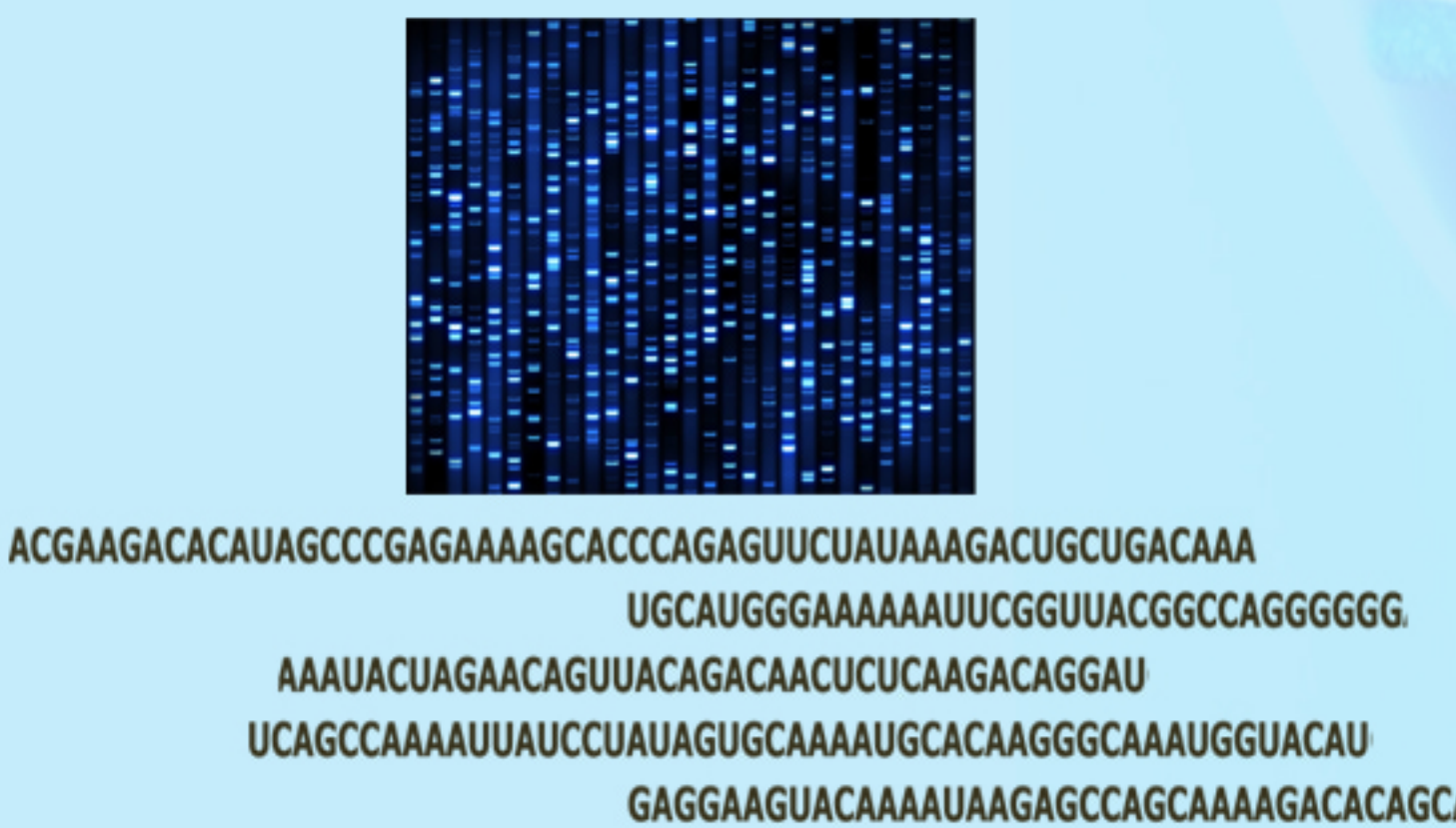


string overlap graphs used to find shortest common superstring, significant pieces of data irretrievably lost.

AAAUUUGGGG AGCUUCGGGAAUUAUUCGC GUUUAUAAAUCCGGGCCAU UCCAGGCGAAAA

PROPOSED STRUCTURE METHOD

less sequencing needed.



strongest bonds between bases and physical properties used to re-attach fragments.

