

## Analysis Software for Overlapping Linkers on Adjacent Fragments Sequencing (OLAF-Seq) Strategy Chhordaneath Ty Cheatvisoth, Saketh Vempali, Patryk Lewicki Advisors: Dr. Ming Xiao, Yilin Wang

Test 3: Reference comparison

## Need **Future** Future revisions should focus on improving functionality on lower end computers Dr. Xiao Potential for faster results in targeted sequencing applications that use OLAF strategy Any lab using the OLAF strategy Verification Testing No other current software analysis tool for data produced by the OLAF strategy **Design Inputs** Constraint Description Test 1: Node Formation Test 2: Node Linkage (Kmer analysis) Data processing with University >100 matched kmers indicate a Computing ->50 reads to a combination Research Computing Facility (URCF) Power indicates probes form a node linkage between fragments by comparing sections Large files in FASTA and FASTO to be **I**gRNA Number of Hits

