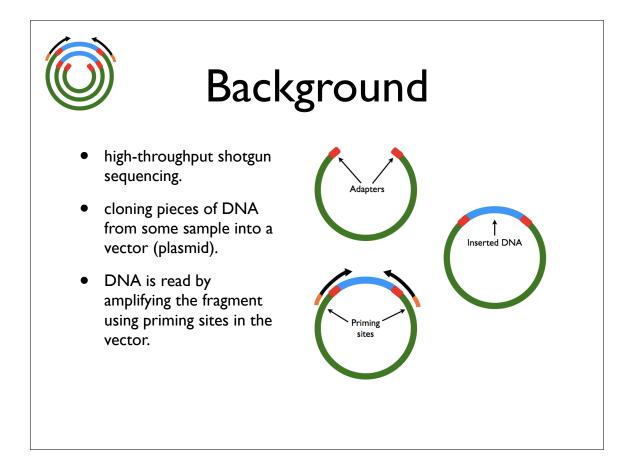
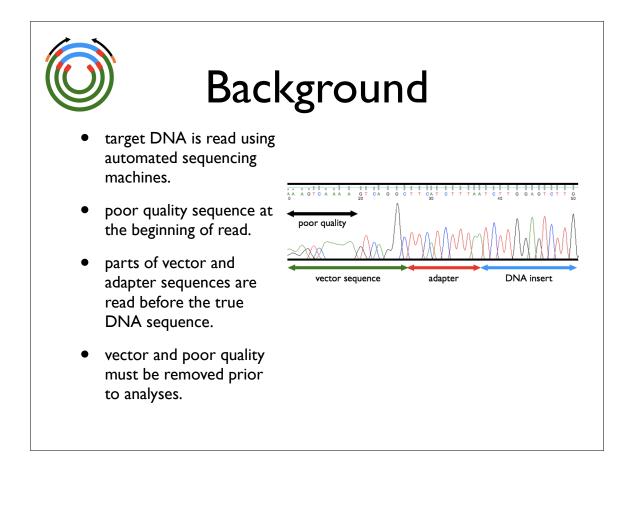
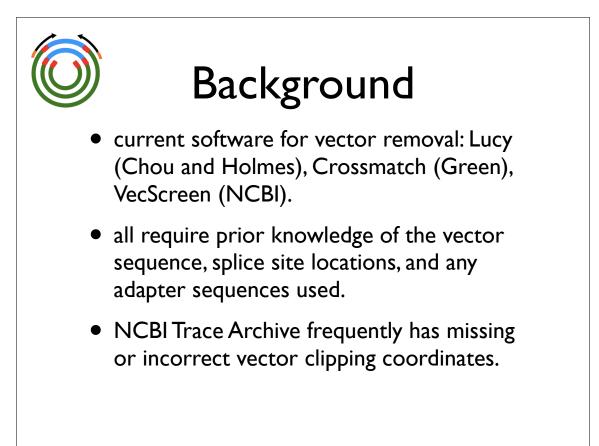


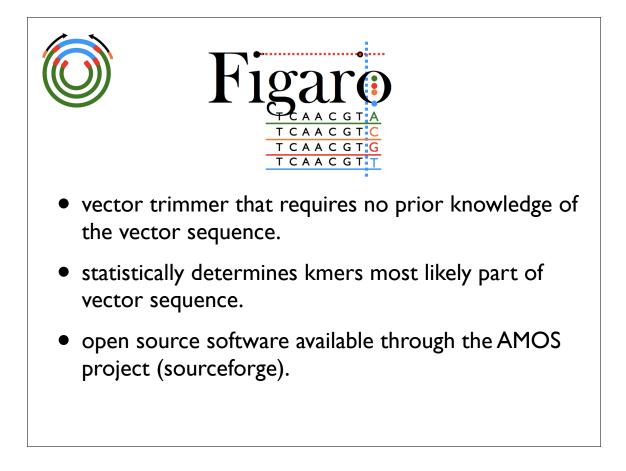
Figaro: a novel vector trimmer

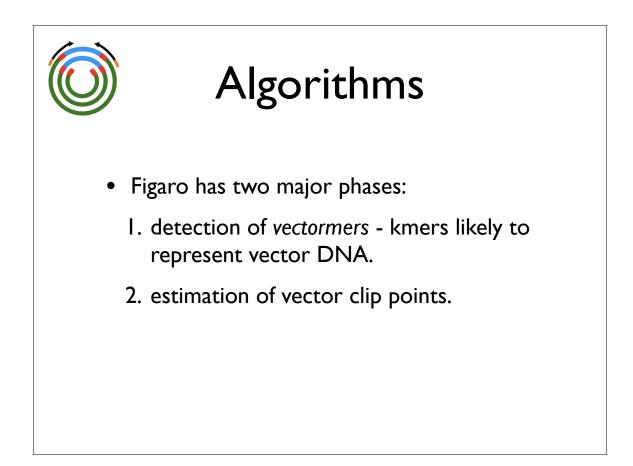
james robert white whitej@umd.edu Center for Bioinformatics and Computational Biology University of Maryland - College Park

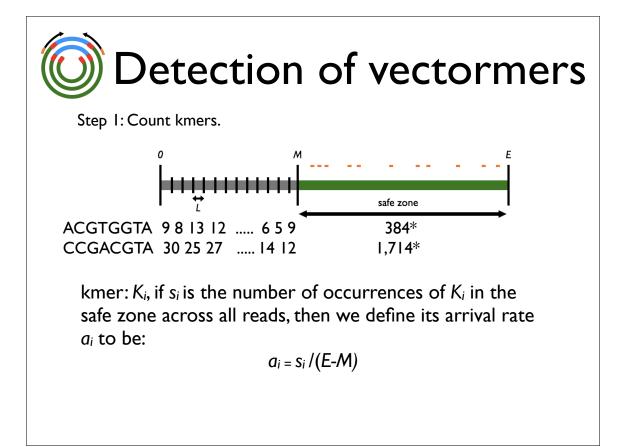


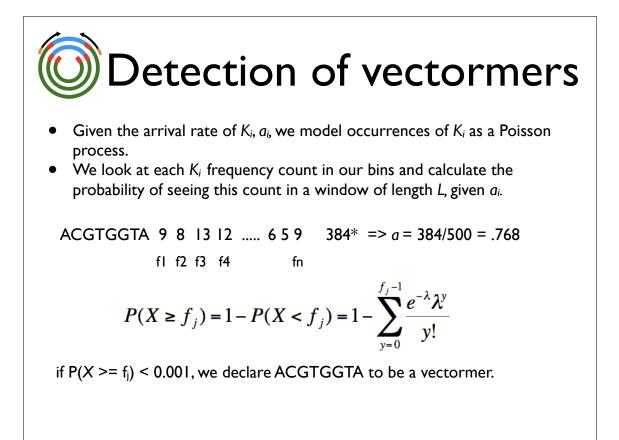


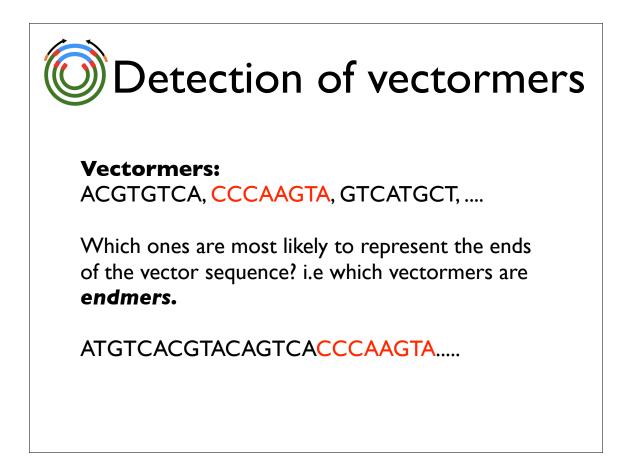


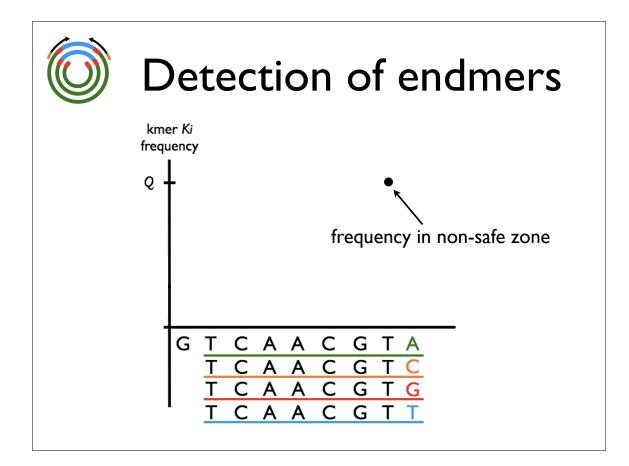


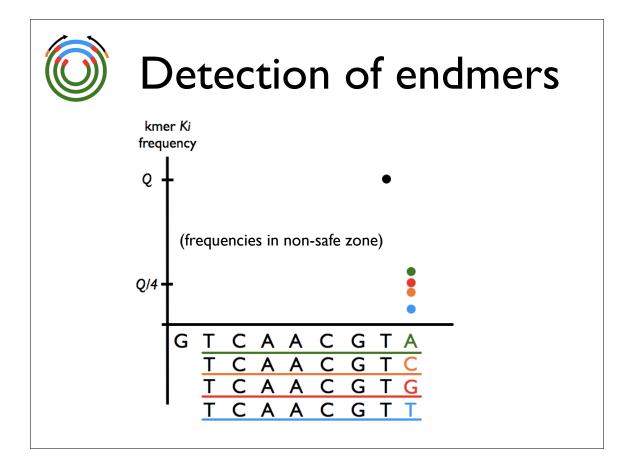


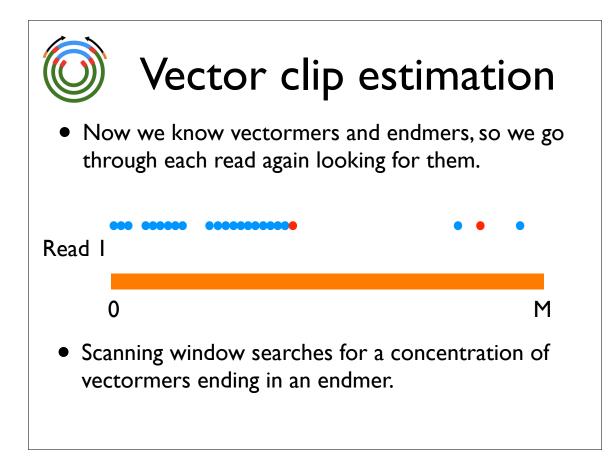


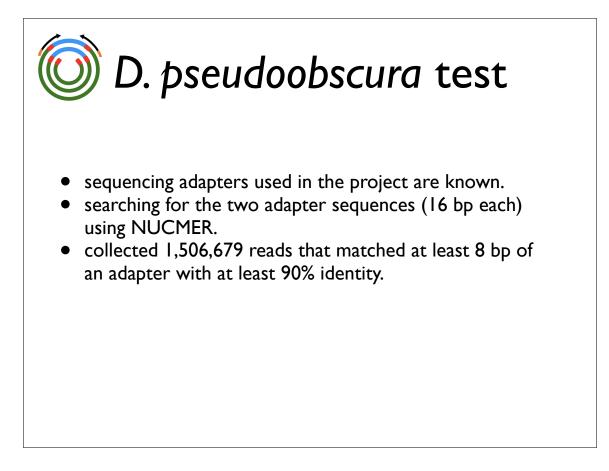












D. pseudoobscura test

3 Sensitivity and specificity results of Figaro on *Drosophila pseudoobscura* shotgun reads. Using Id of 30, Figaro is able to remove virtually all vector sequence and only overtrims a small propor more than 3 bp. Note false positives and false negatives are computed only if they occur in the region of a read.

| Max distance m | SNn | SPm | TPm | FN _m | FP _m |
|----------------|--------|--------|-----------|------------------------|-----------------|
| 0 | 99.98% | 99.15% | 1,493,582 | 316 | 12,781 |
| 3 | 99.99% | 99.29% | 1,500,662 | 186 | 5,83 I |
| 5 | ~100% | 99.72% | 1,502,428 | 67 | 4,184 |
| 10 | ~100% | 99.79% | 1,503,481 | 54 | 3,144 |



Figaro usage

.USAGE. figaro -F <reads file (fasta format)> -P <prefix> [options]

OPTIONS.

-F reads file (fasta format)

-P output prefix

-T trimming threshold (optional, default is automated threshold estimation)

-M max cut length allowed (default 100)

-E end of safe zone (default 500)

-V verbose output (t or f) (default f)

Orun_figaro_lucy usage

.USAGE. run_figaro_lucy -o <prefix> fasta I ... fastan

.DESCRIPTION.

Outputs a set of clear ranges for the reads which includes vector trimming and quality trimming. The output is a clear range file: clear

Edit Makefile to include correct path to Lucy.



http://amos.sourceforge.net/Figaro