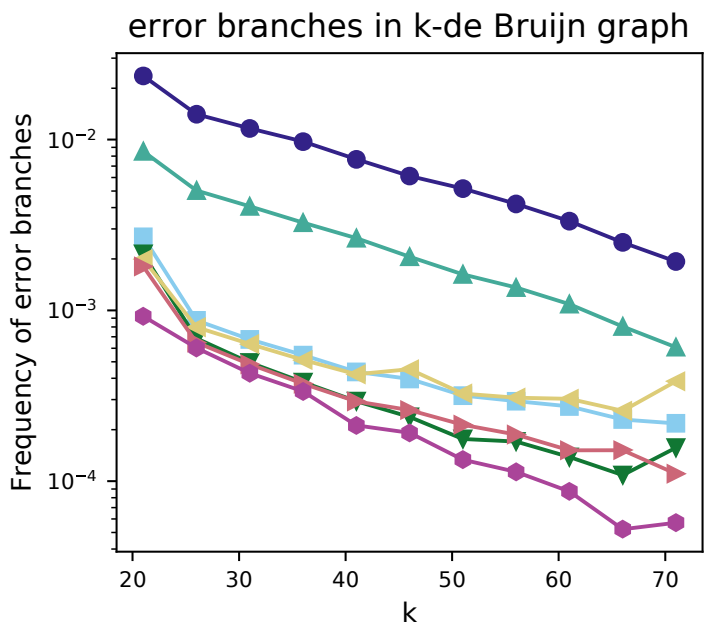
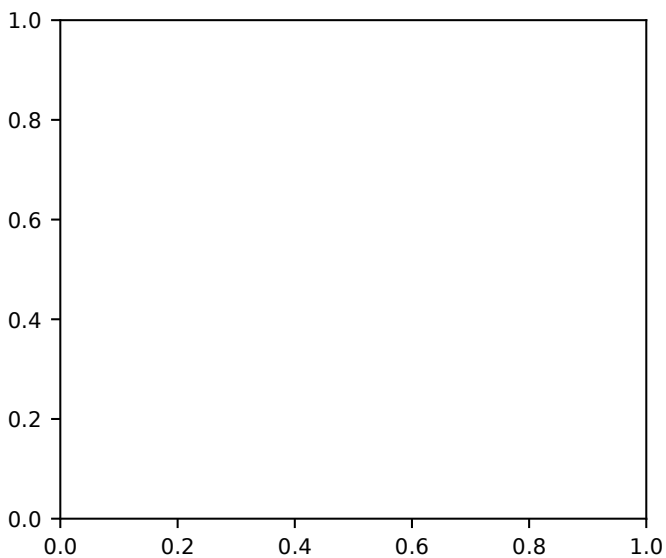
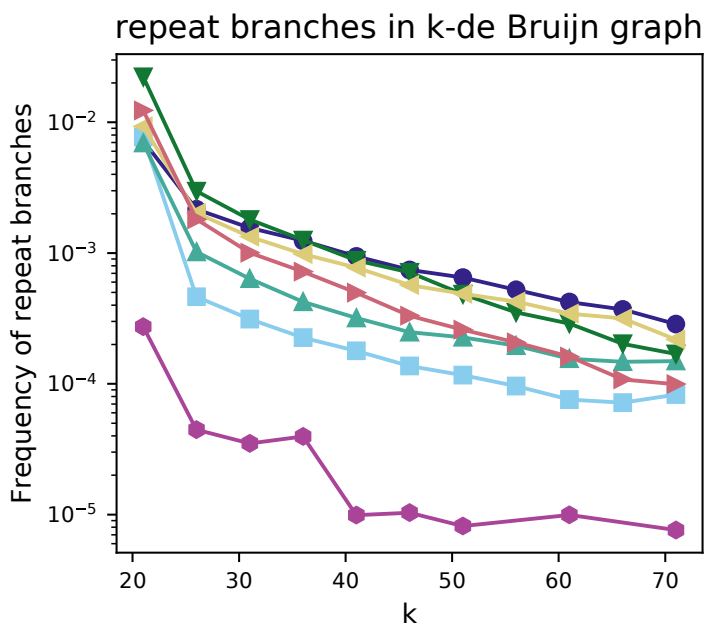
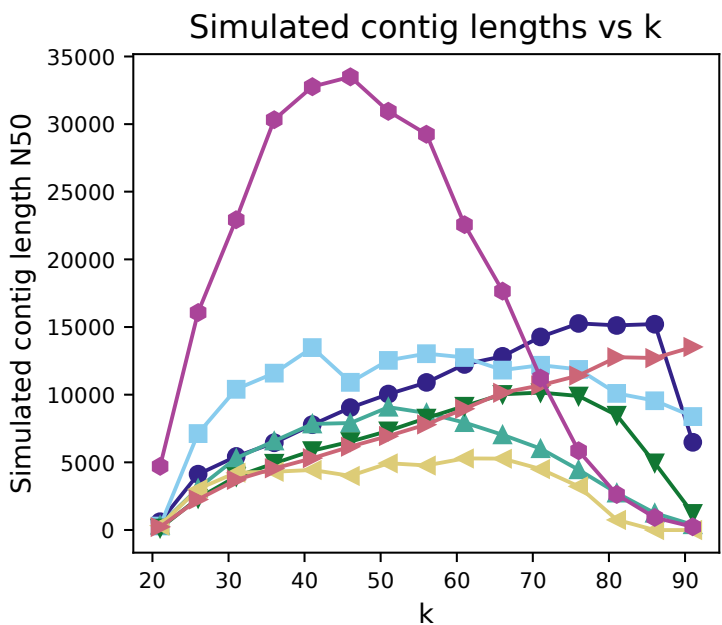
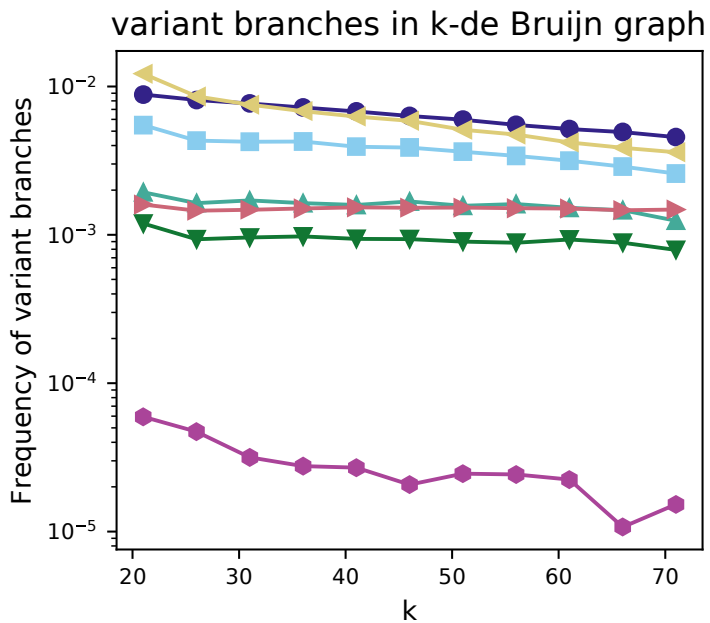
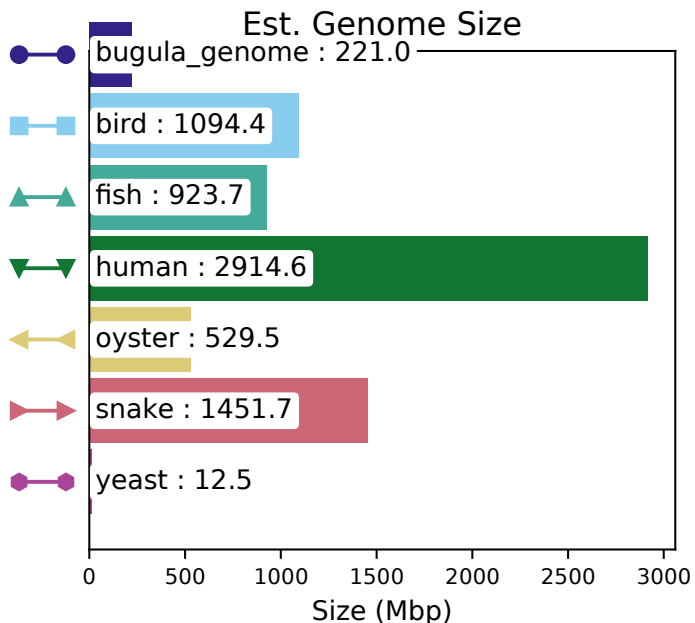
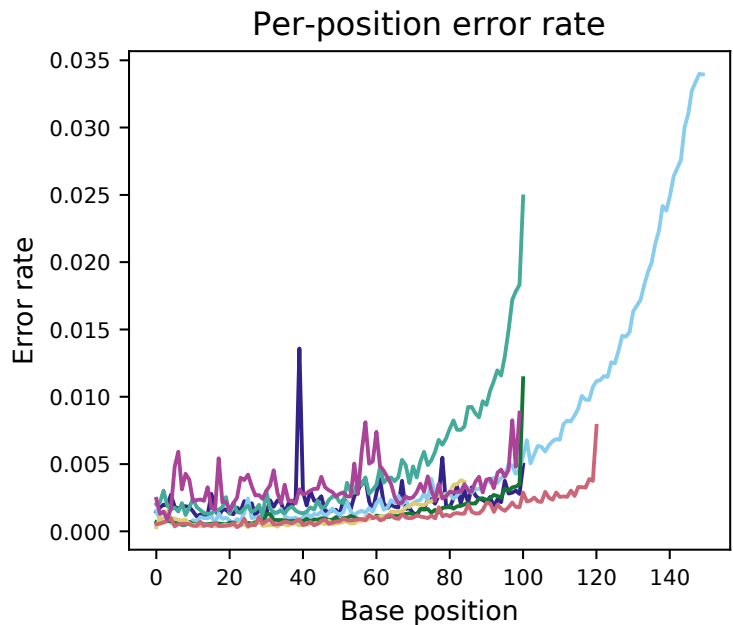
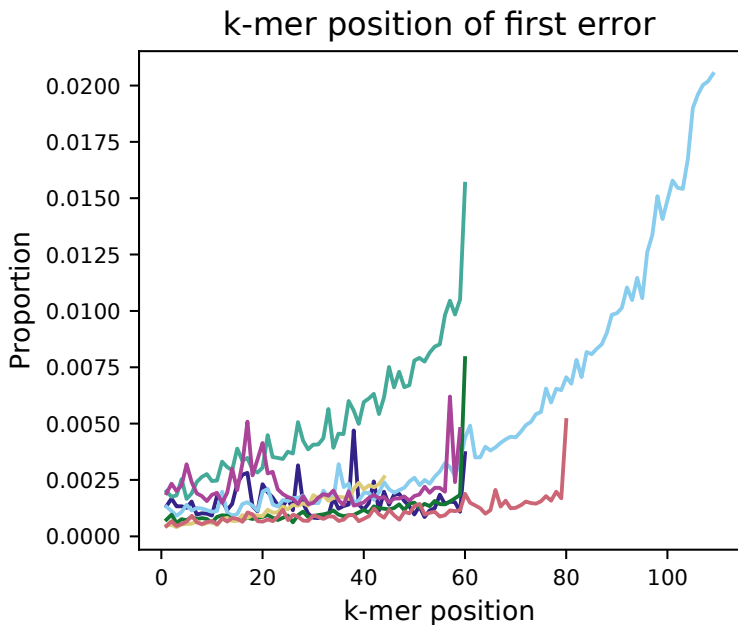
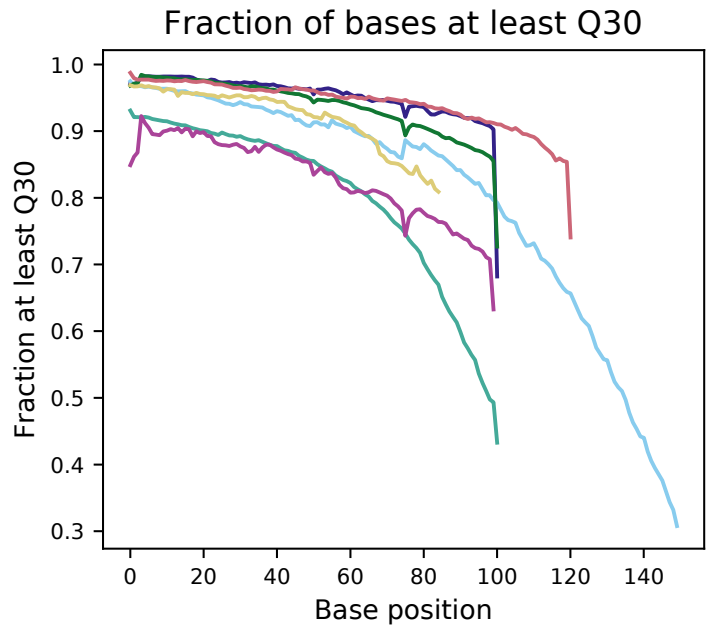
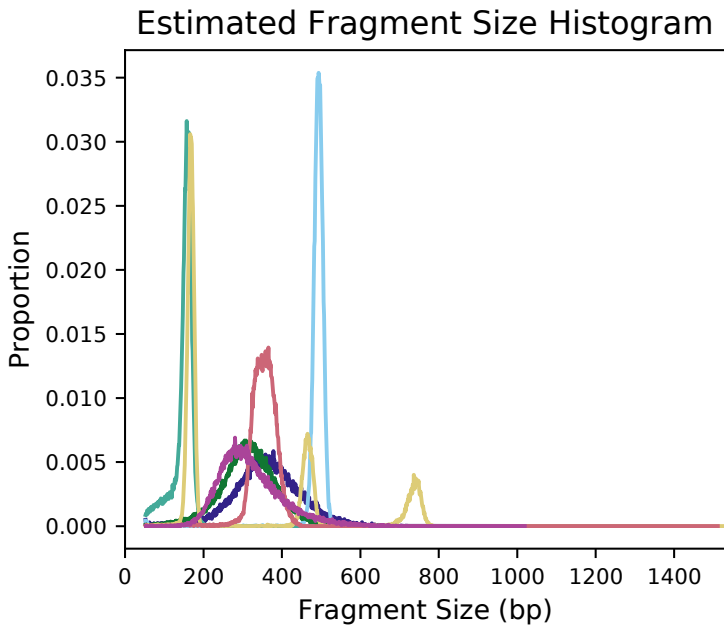
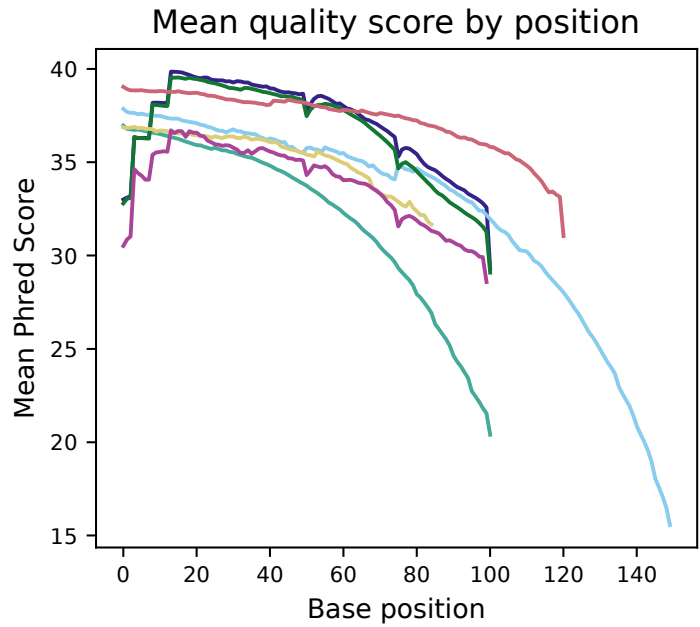
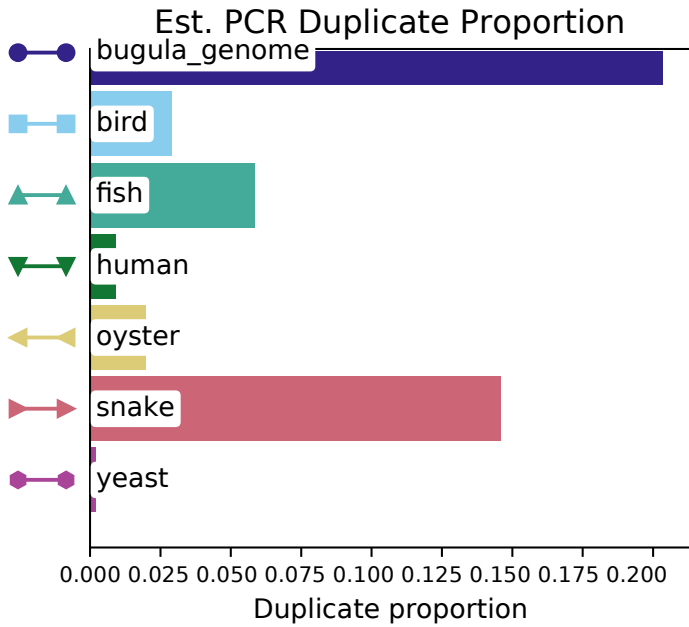


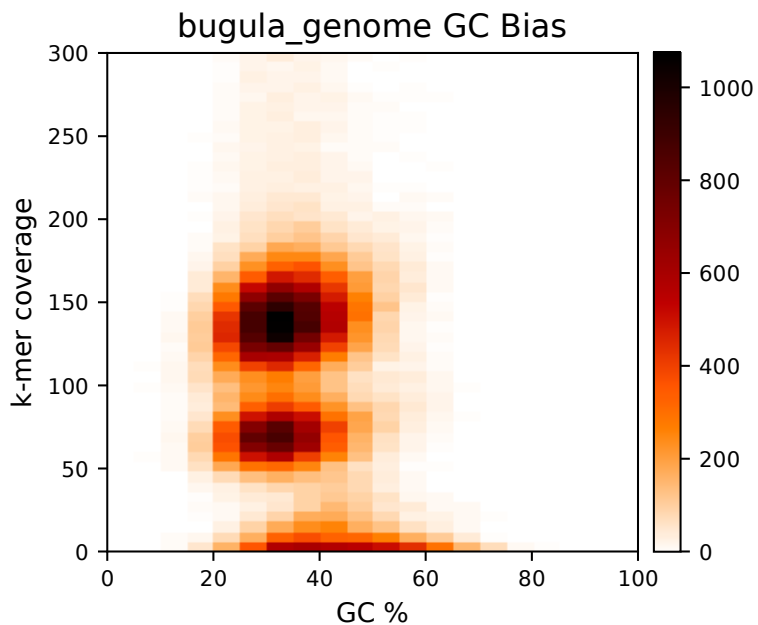
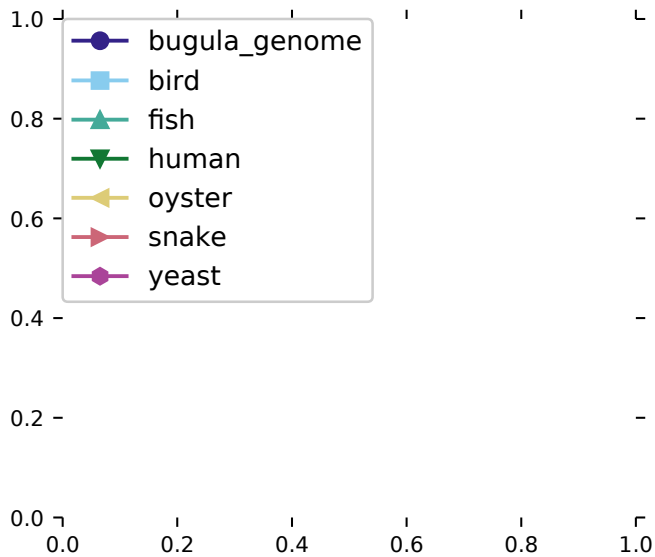
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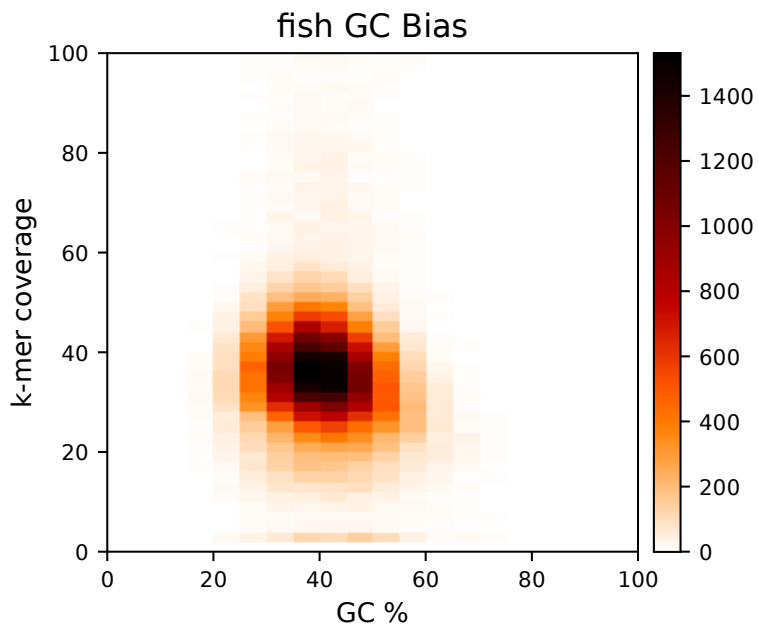
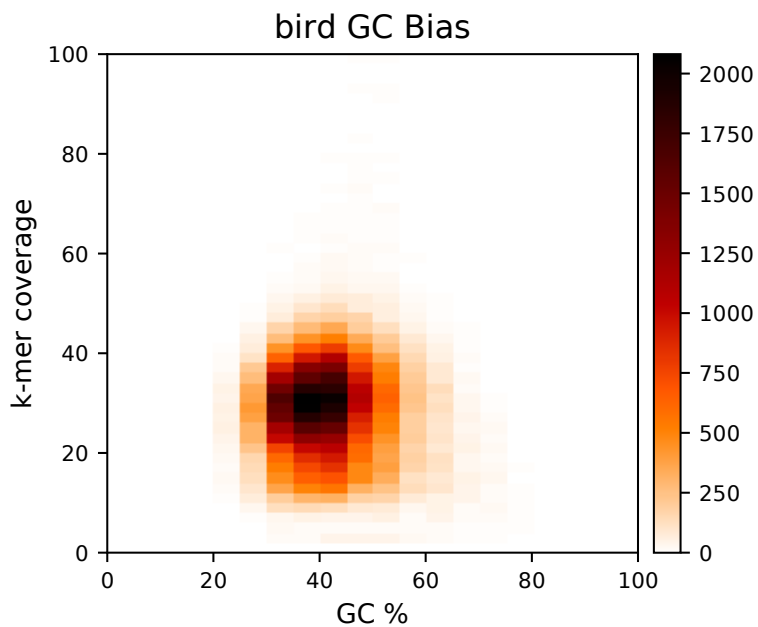
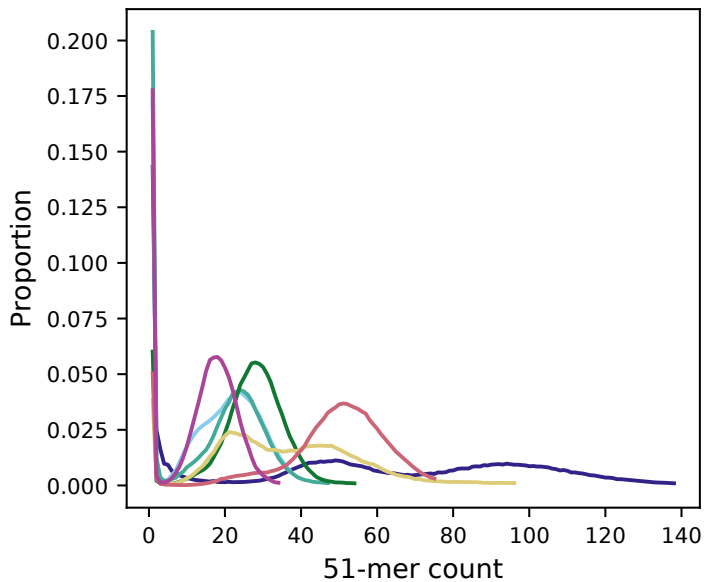
# Supplemental Data 1. SGA Preqc Results.



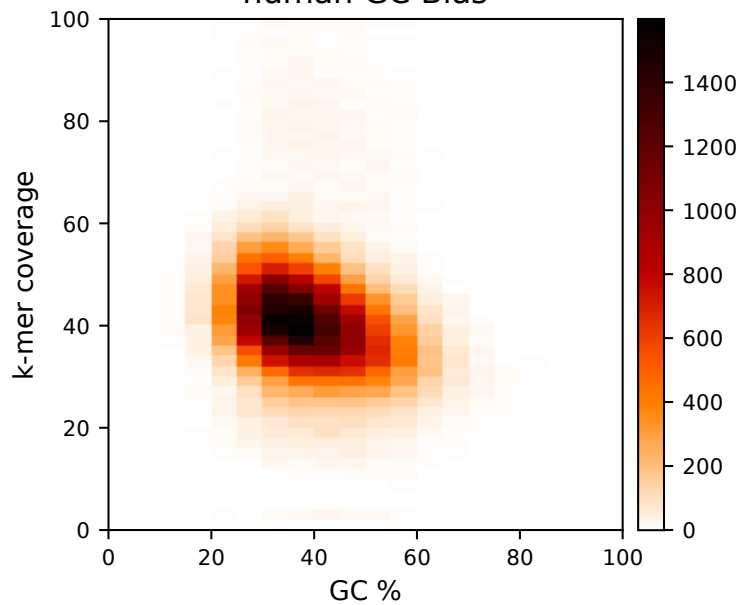




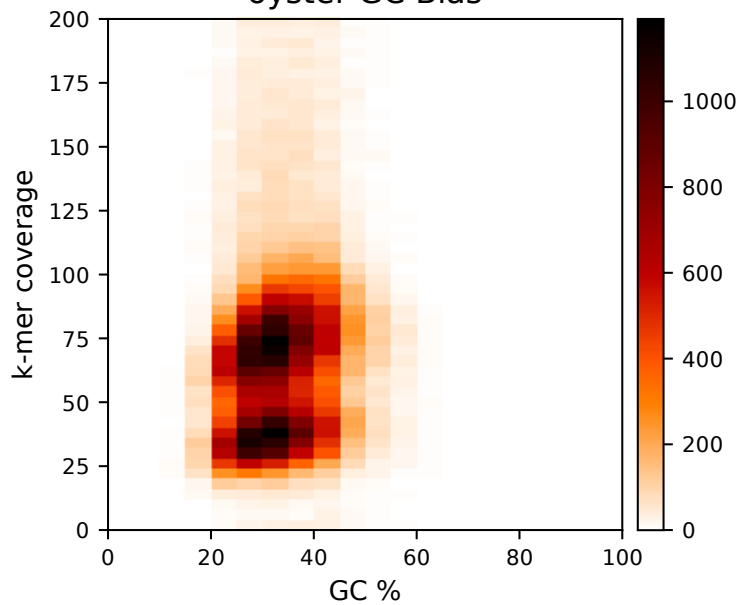
### 51-mer count distribution



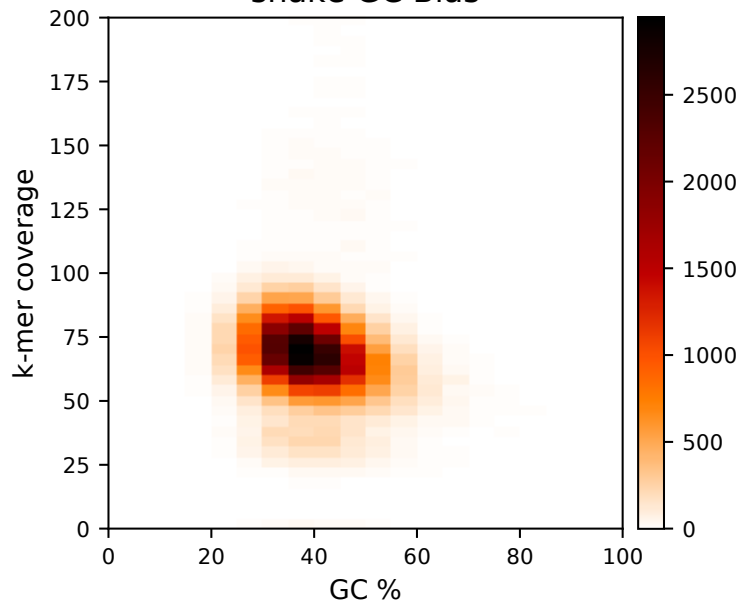
human GC Bias



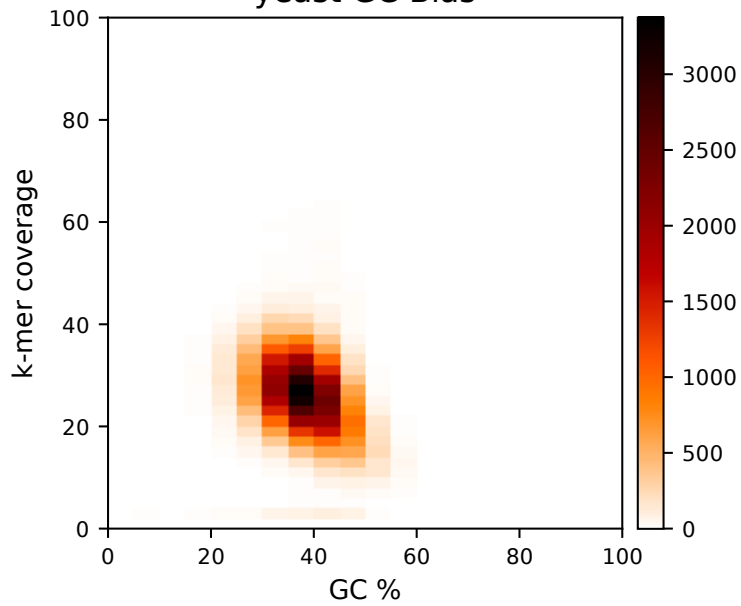
oyster GC Bias



snake GC Bias



yeast GC Bias



Supplemental Table 1. Repeat content of the *B.neritina* genome

```

=====
sequences:                3547
total length: 214693723 bp (214693723 bp excl N/X-runs)
GC level:                 34.72 %
bases masked: 55542846 bp ( 25.87 %)
=====

```

	number of elements*	length occupied	percentage of sequence
-----			
Retroelements	27447	18300120 bp	8.52 %
SINEs:	46	2112 bp	0.00 %
Penelope	2397	785481 bp	0.37 %
LINEs:	14371	4770421 bp	2.22 %
CRE/SLACS	0	0 bp	0.00 %
L2/CR1/Rex	3895	1796007 bp	0.84 %
R1/LOA/Jockey	0	0 bp	0.00 %
R2/R4/NeSL	793	382779 bp	0.18 %
RTE/Bov-B	2100	1154705 bp	0.54 %
L1/CIN4	5186	651449 bp	0.30 %
LTR elements:	13030	13527587 bp	6.30 %
BEL/Pao	1006	758652 bp	0.35 %
Ty1/Copia	336	311928 bp	0.15 %
Gypsy/DIRS1	9542	12168188 bp	5.67 %
Retroviral	329	83829 bp	0.04 %
DNA transposons	28516	7942958 bp	3.70 %
hobo-Activator	2880	662976 bp	0.31 %
Tc1-IS630-Pogo	1570	565921 bp	0.26 %
En-Spm	0	0 bp	0.00 %
MuDR-IS905	0	0 bp	0.00 %
PiggyBac	0	0 bp	0.00 %
Tourist/Harbinger	0	0 bp	0.00 %
Other (Mirage, P-element, Transib)	58	27429 bp	0.01 %
Rolling-circles	0	0 bp	0.00 %
Unclassified:	84448	21541525 bp	10.03 %
Total interspersed repeats:		47784603 bp	22.26 %
Small RNA:	11631	1882093 bp	0.88 %
Satellites:	0	0 bp	0.00 %
Simple repeats:	68160	5532140 bp	2.58 %
Low complexity:	6521	344010 bp	0.16 %
=====			

\* most repeats fragmented by insertions or deletions  
have been counted as one element.  
Runs of  $\geq 20$  X/Ns in query were excluded in % calcs.  
RepeatMasker Combined Database: Dfam\_3.1