

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	3127772
ToLID	qqGyaAnnu4
Species	<i>Gyas annulatus</i>
Class	Arachnida
Order	Opiliones

Genome Traits	Expected	Observed
Haploid size (bp)	319,226,850	411,896,427
Haploid Number	8 (source: ancestor)	15
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.7.Q58

The following metrics were automatically flagged as below EBP recommended standards or different from expected:

- . Observed Haploid size (bp) has >20% difference with Expected
- . Observed Haploid Number is different from Expected
- . Kmer completeness value is less than 90 for pri
- . Assembly length loss > 3% for pri

Curator notes

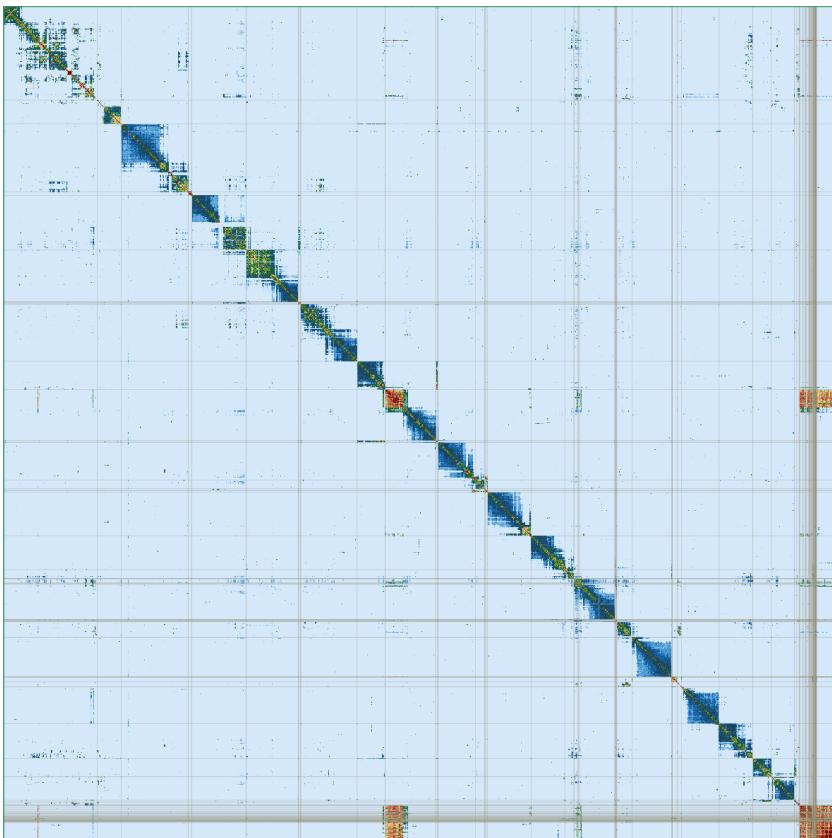
- . Interventions/Gb: None
- . Contamination notes: ""
- . Other observations: "Difficult to tell where a lot of the repetitive sequences should be placed"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	443,694,577	411,896,427
GC %	35.45	35.4
Gaps/Gbp	268.2	305.9
Total gap bp	23,800	25,200
Scaffolds	469	447
Scaffold N50	24,015,000	33,959,686
Scaffold L50	7	5
Scaffold L90	19	12
Contigs	588	573
Contig N50	12,703,170	12,142,491
Contig L50	13	13
Contig L90	61	57
QV	58.4887	58.4969
Kmer compl.	90.6235	89.6815
BUSCO sing.	96.0%	96.0%
BUSCO dupl.	1.9%	1.9%
BUSCO frag.	0.7%	0.7%
BUSCO miss.	1.4%	1.4%

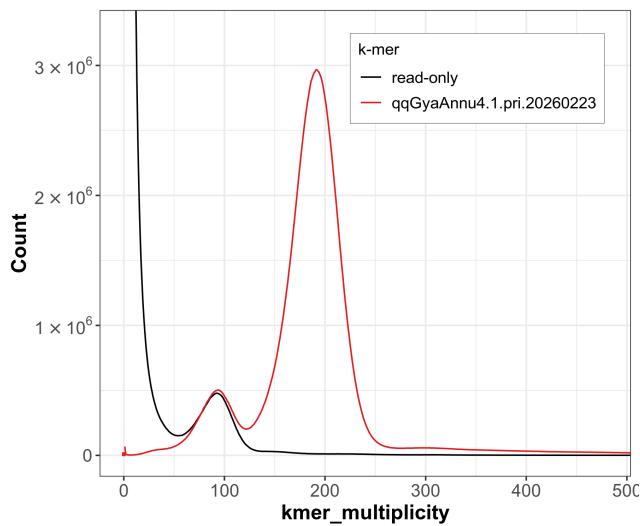
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arthropoda_odb12 (genomes:76, BUSCOs:1667)

HiC contact map of curated assembly

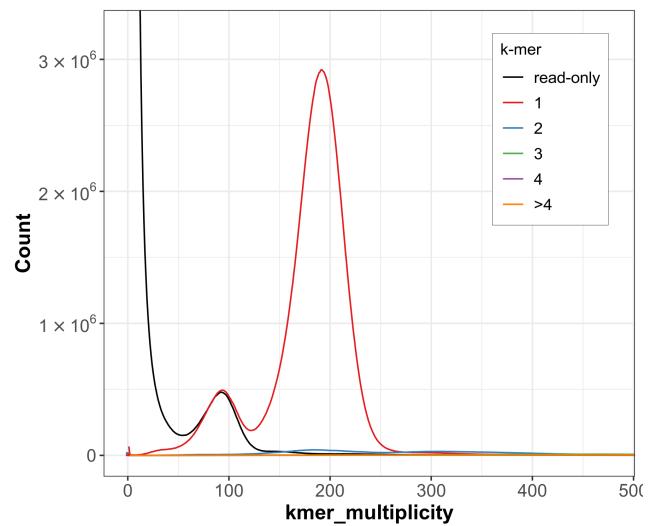


pri [LINK]

K-mer spectra of curated assembly

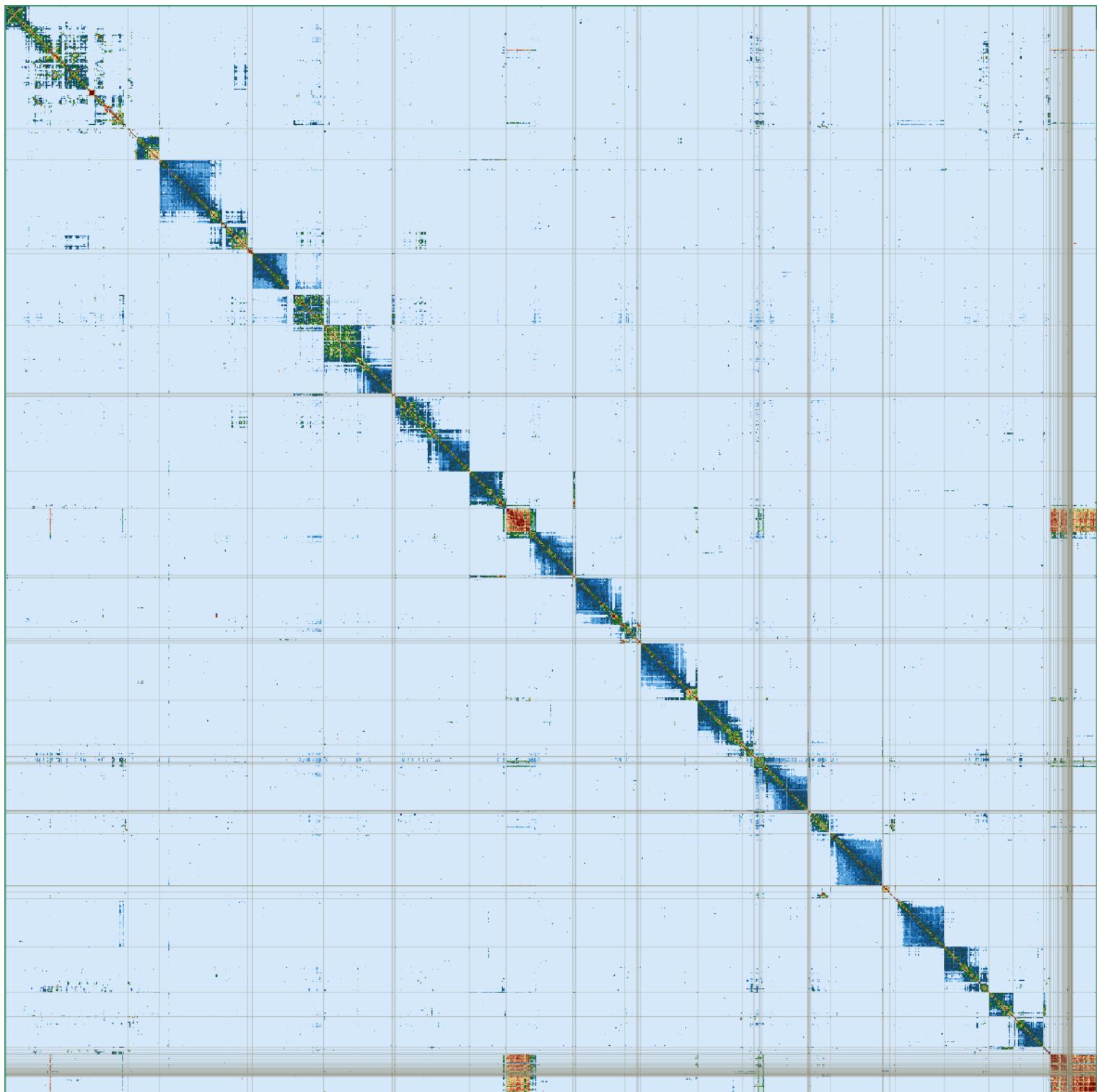


Distribution of k-mer counts coloured by their presence in reads/assemblies



Distribution of k-mer counts per copy numbers found in asm

Post-curation contamination screening



pri. Bubble plot circles are scaled by sequence length, positioned by coverage and GC proportion, and coloured by taxonomy. Histograms show total assembly length distribution on each axis.

Data profile

Data	ONT	HiC
Coverage	NA	NA

Assembly pipeline

- **HiFiasm**
 - |_ ver: 0.25.0
 - |_ key param: NA
- **purge-dups**
 - |_ ver: 1.2.6
 - |_ key param: NA
- **yahs**
 - |_ ver: 1.1a
 - |_ key param: NA
- **fcs-gx**
 - |_ ver: 0.5.0
 - |_ key param: NA

Curation pipeline

- **PretextView**
 - |_ ver: 1.0.0
 - |_ key param: NA

Submitter: Tom Brown
Affiliation: IZW

Date and time: 2026-03-01 06:07:27 CET