

ERGA Assembly Report

v23.09.27_beta

Tags: ERGA-BGE

ToLID	fValHis1
Species	Valencia hispanica
Class	Actinopteri
Order	Cyprinodontiformes
Haploid Number	24 (source: ['ancestor'])
Ploidy	2
Sex	ZW

Data profile

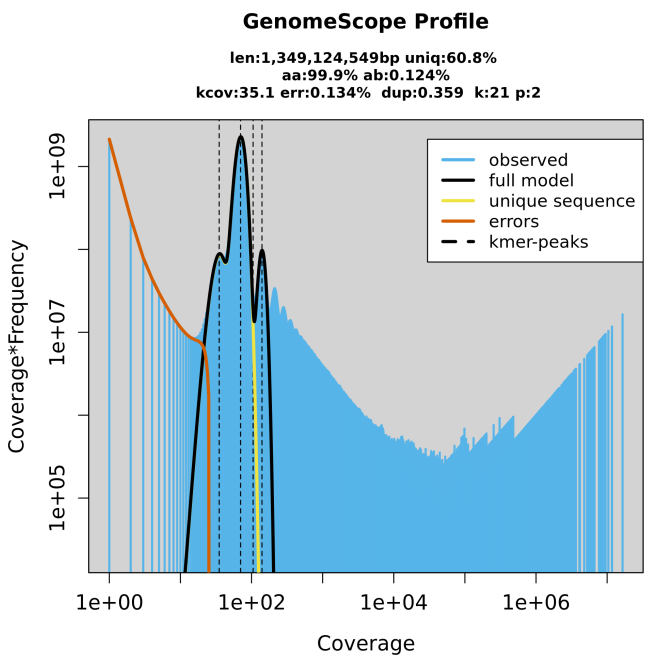
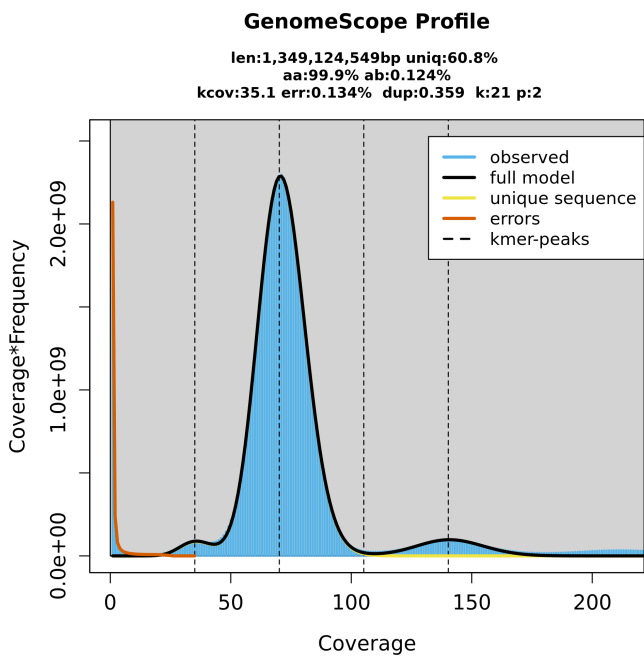
Data	Coverage
ONT	74x
Illumina	83x
OmniC	70x

Pipeline summary

Tool	Version
GenomeScope	2.0
nextdenovo	2.5.0
hypo	1.0.3
purge_dups	1.2.6
YaHS	1.2a

Genome profiling

Estimated Haploid Length	1,348,231,524
Heterozygosity rate	0.117792%
Kmer coverage	35.07
Proposed ploidy	NA



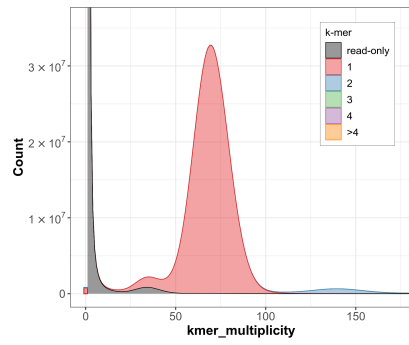
Smudgeplot data not available

Genome assembly: contigging

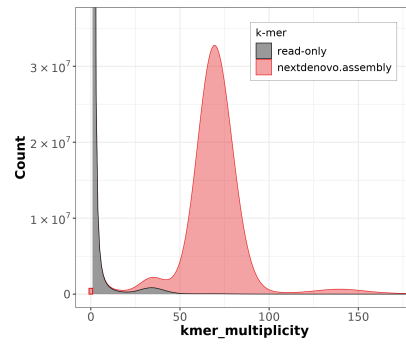
Metrics	nextdenovo collapsed	hypo collapsed	purge_dups collapsed
Total bp	1,298,558,841	1,297,637,871	1,291,666,285
GC %	40.1	40.1	40.09
Gaps	0	0	0
Gaps/Gbp	0	0	0
Gaps bp	0	0	0
Scaffolds	114	114	88
Longest Scaf.	76,199,033	76,160,215	76,160,215
Scaffold auN	38,743,771.33	38,720,657.74	38,897,674.01
Scaffold N50	40,727,070	40,711,897	40,711,897
Scaffold L50	13	13	13
Scaffold L90	37	37	36
Contigs	114	114	88
Largest Cont.	76,199,033	76,160,215	76,160,215
Contig auN	38,743,771.33	38,720,657.74	38,897,674.01
Contig N50	40,727,070	40,711,897	40,711,897
Contig L50	13	13	13
Contig L90	37	37	36
QV	45.2678	50.0184	50.5814
Kmer compl.	97.9951	98.0885	98.05
BUSCO sing.	97.7%	97.7%	97.8%
BUSCO dupl.	0.7%	0.8%	0.8%
BUSCO frag.	0.5%	0.4%	0.4%
BUSCO miss.	1.1%	1.1%	1.0%

Lineage: actinopterygii_odb10 (genomes:26, BUSCOs:3640)

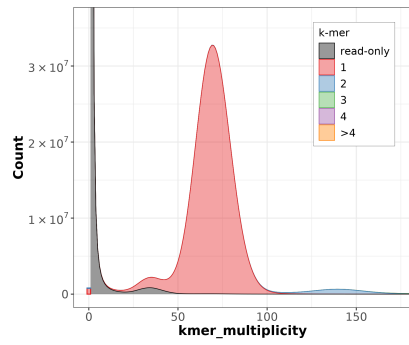
K-mer spectra: nextdenovo



nextdenovo.assembly.spectra-cn.st.png

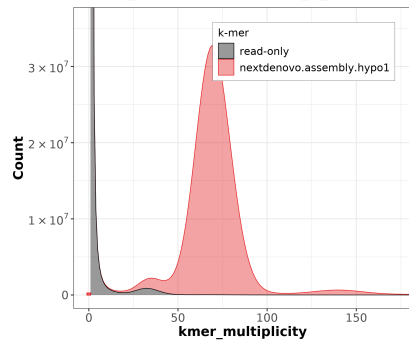


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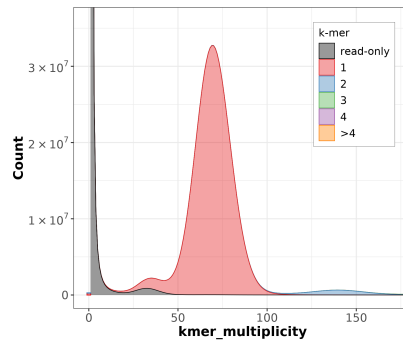


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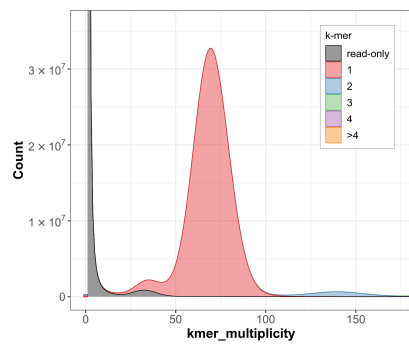
K-mer spectra: hypo



nextdenovo.assembly.hypo1.spectra-asm.st.png

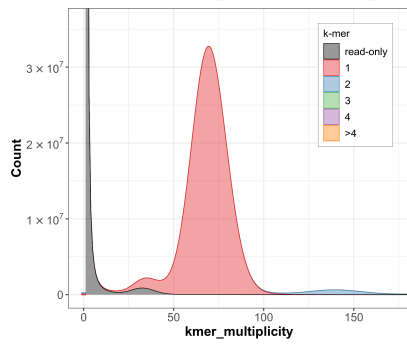


nextdenovo.assembly.hypo1.nextdenovo.assembly.hypo1.spectra-cn.st.png

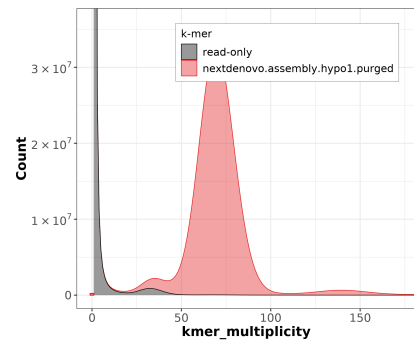


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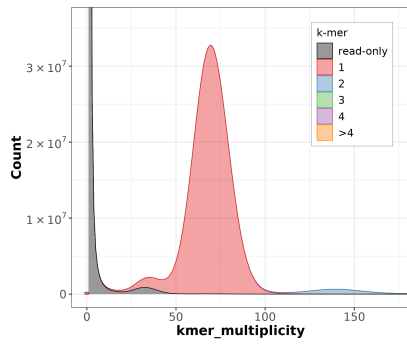
K-mer spectra: purge_dups



nextdenovo.assembly.hypo1.purged.spectra-cn.st.png



nextdenovo.assembly.hypo1.purged.spectra-asm.st.png



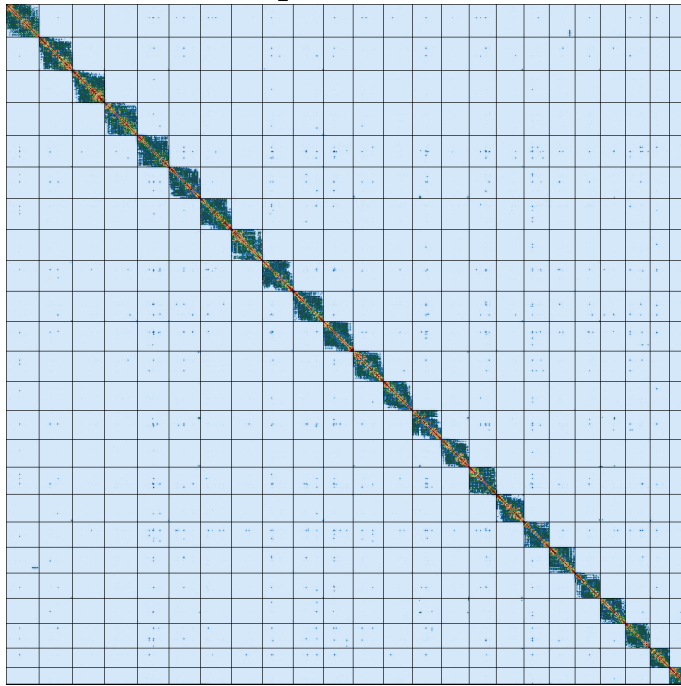
nextdenovo.assembly.hypo1.purged.nextdenovo.assembly.hypo1.purged.spectra-cn.st.png

Genome assembly: scaffolding

Metrics	YaHS collapsed
Total bp	1,291,679,885
GC %	40.09
Gaps	68
Gaps/Gbp	52.64
Gaps bp	13,600
Scaffolds	31
Longest Scaf.	63,361,188
Scaffold auN	54,767,339.86
Scaffold N50	56,937,854
Scaffold L50	11
Scaffold L90	21
Contigs	99
Largest Cont.	60,504,993
Contig auN	35,444,029.42
Contig N50	38,296,799
Contig L50	14
Contig L90	41
QV	50.5814
Kmer compl.	98.05
BUSCO sing.	97.8%
BUSCO dupl.	0.8%
BUSCO frag.	0.4%
BUSCO miss.	1.0%

Lineage: actinopterygii_odb10 (genomes:26, BUSCOs:3640)

Pretext Full Map: YaHS



assembly_mq40.fValHis_yahs_scaffolds_final_FullMap.png

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Date and time: 2023-09-28 11:46:34 CEST