|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Species | SK-44 (Gurleya Vavrai) | US-FAR1-1 ( Unknown species ) | IL-YERU-16 (Glugoides intestinalis) | SE-H1-4 (Hamiltosporidium tvaerminnensis) |
| k-mer Spectrum of parasite reads  (illumina) |  |  | Chart, histogram  Description automatically generated |  |
| k-mer Spectrum of parasite reads  (long-reads) | NA | NA | Chart, histogram  Description automatically generated |  |
| Assembly steps | Ray and meta.spades merged with MAC  + several filters (GC, cov, length, contaminants)  + purge haplotigs | Ray and meta.spades merged with MAC  + several filters (GC, cov, length, contaminants) | Merge shasta and nextdenovo assemblies using quickmerge | Assembly from Peter (FI-OER-3-3) with Canu  + several filters (length, contaminants) + purge haplotigs |
| Coverage plot |  |  | Chart, histogram  Description automatically generated |  |
| Allele frequencies |  |  |  |  |
| Length N50  # contigs  # BUSCOs (compl) | 13.5 Mbp (k-mer size est.: ~14.02 Mbp)  45’214 bp  453  540 | 10 Mbp (k-mer size estimation: ~ 14.19 Mbp)  35'912 bp  607  517 | 4.76 Mbp (k-mer size estimation: ~ 5.18 Mbp)  446,991 bp  13  502 | 21.5 Mbp (k-mer size estimation: 18.86 Mbp)  ~1 Mbp  27  564 |
| Species | BE-OM-3 (Binucleata daphniae) | Gurleya\_daphniae (Swiss Pond) | Mitosporidium daphniae (Swiss Pond) | FI-SK-39 (Larssonia\_obtusa) |
| k-mer Spectrum of parasite reads  (illumina) |  |  |  |  |
| k-mer Spectrum of parasite reads  (long-reads) | Chart, line chart, histogram  Description automatically generated | Chart, histogram  Description automatically generated | Coverage too low | NA |
| Assembly steps | Masurca with long and short reads  + purge haplotigs | Nextdenovo  + purge haplotigs | Masurca hybrid assembly | Megahit |
| Coverage plot |  |  |  |  |
| Allele frequencies |  |  |  |  |
| Length N50  # contigs  # BUSCOs (compl) | 9.58 Mbp (k-mer size est.: ~ 8.95 Mbp)  332,081  31  514 | 16.48 Mbp (k-mer size est.: ~ 28.79 Mbp)  989,478  21  542 | 5.83 Mbp (k-mer size est.: 5.70 Mbp)  864,371  10  226 | 18.13 Mbp (k-mer size est.: 20.85 Mbp)  6,631  5,654  531 |