

ntLink: a toolkit for *de novo* genome assembly scaffolding and mapping using long reads

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Supplementary Tables

Supplementary Table 1. Accessions for the long-read datasets listed in Table 1.

Species	Fold coverage of long reads	Accession(s)
<i>Caenorhabditis elegans</i>	93	SRR10028109
<i>Oryza sativa</i>	62	SRR10589512- SRR10589711
<i>Solanum lycopersicum</i>	72	ERR6668574 (Subsampled to ~72-fold)
<i>Homo sapiens</i>	50	s3://ont-open-data/gm24385_2020.11/analysis/r9.4.1/20201026_1644_2-E5-H5_PAG07162_d7f262d5/guppy_v4.0.11_r9.4.1_hac_prom/basecalls.fastq.gz

Supplementary Table 2. Baseline assemblies used for the example ntLink runs listed in Table 1.

Species	Sequencing reads used for baseline assembly	Assembler used for baseline assembly	Baseline assembly parameters
<i>Caenorhabditis elegans</i>	Long reads (SRR10028109)	Flye (v2.9.1)	--nano-raw SRR10028109.fastq -g100m -t48
<i>Oryza sativa</i>	Long reads (SRR10589512- SRR10589711)	GoldRush (v1.0.0) goldtigs*	G=373e6 P=10 a=1 m=20000 polisher_mapper=minimap2 span=2 dist=500 t=48 polisher=goldrush-edit
<i>Solanum lycopersicum</i>	Long reads (ERR6668574, subsampled to 72-fold)	GoldRush (v1.0.0) goldtigs*	G=824e6 P=15 a=1 m=20000 polisher_mapper=minimap2 span=2 dist=500 t=48 polisher=goldrush-edit
<i>Homo sapiens</i>	Short reads (SRR11321732)	ABYSS (v2.2.3)	j=48 k=112 kc=3 B=150G l=40 s=1000 v=-v q=15 H=4 S=1000-10000 N=9 N=5-20 pelib1_de=-n5

*GoldRush goldtigs are the polished, corrected golden path sequences generated from the GoldRush *de novo* genome assembler.