

## Supplementary Material

# Benchmarking Framework to Catalyze Individual Human Genome Projects

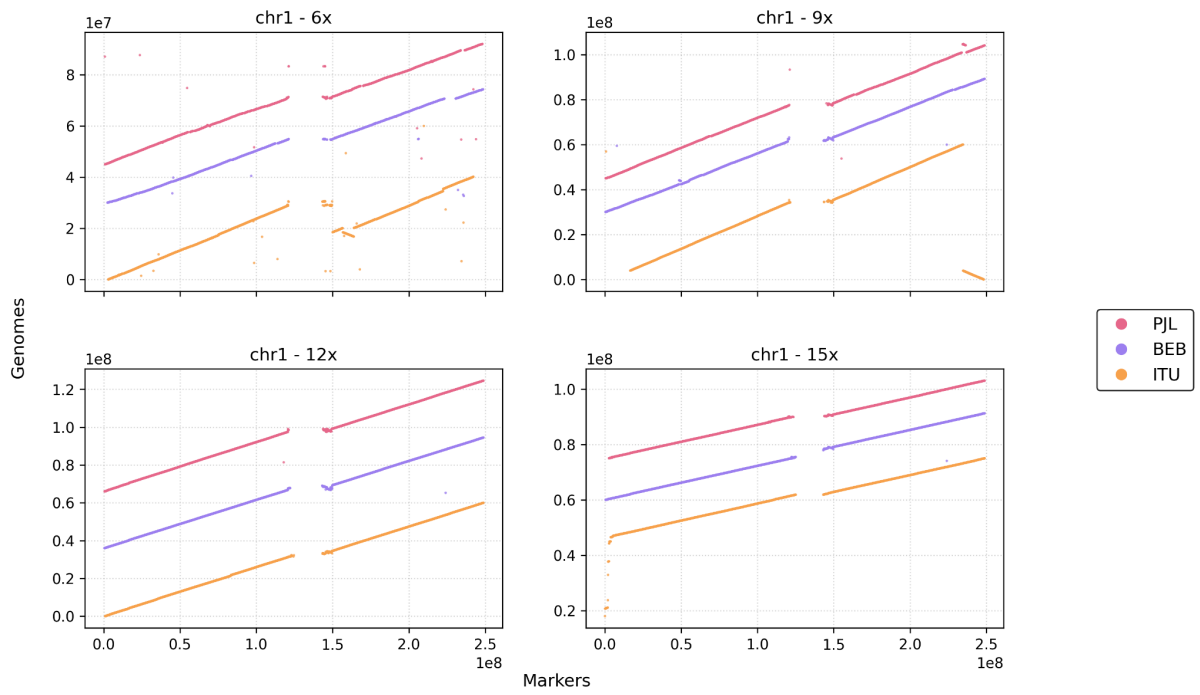
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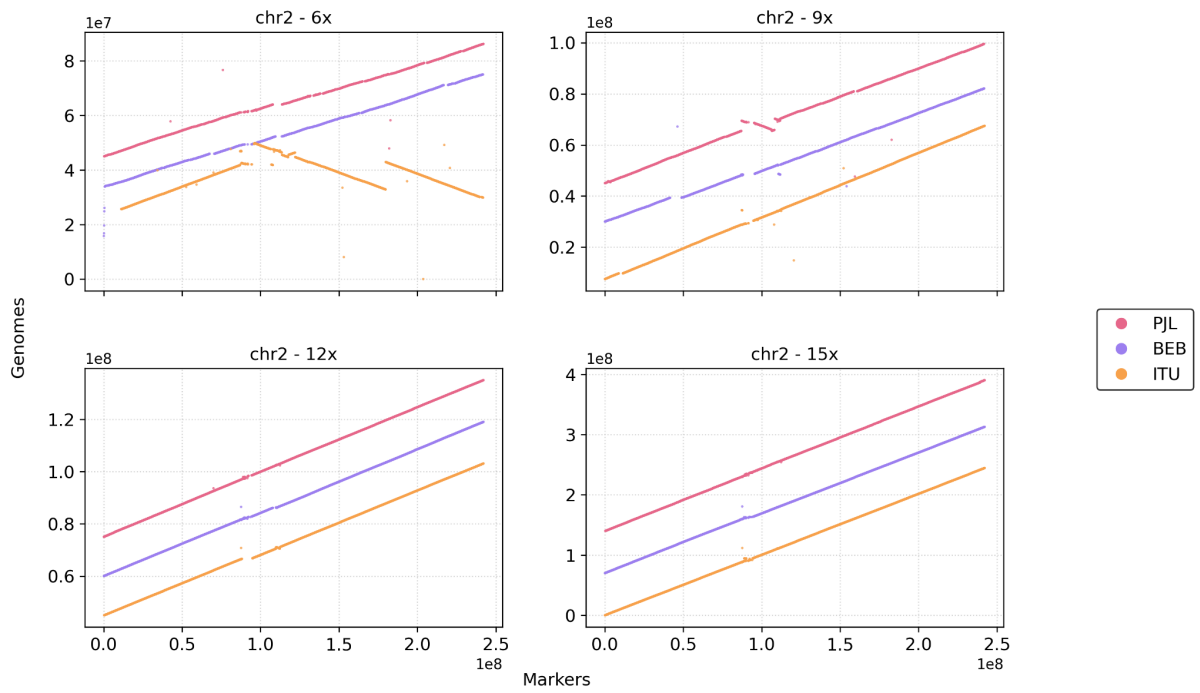
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## #chromosome 1



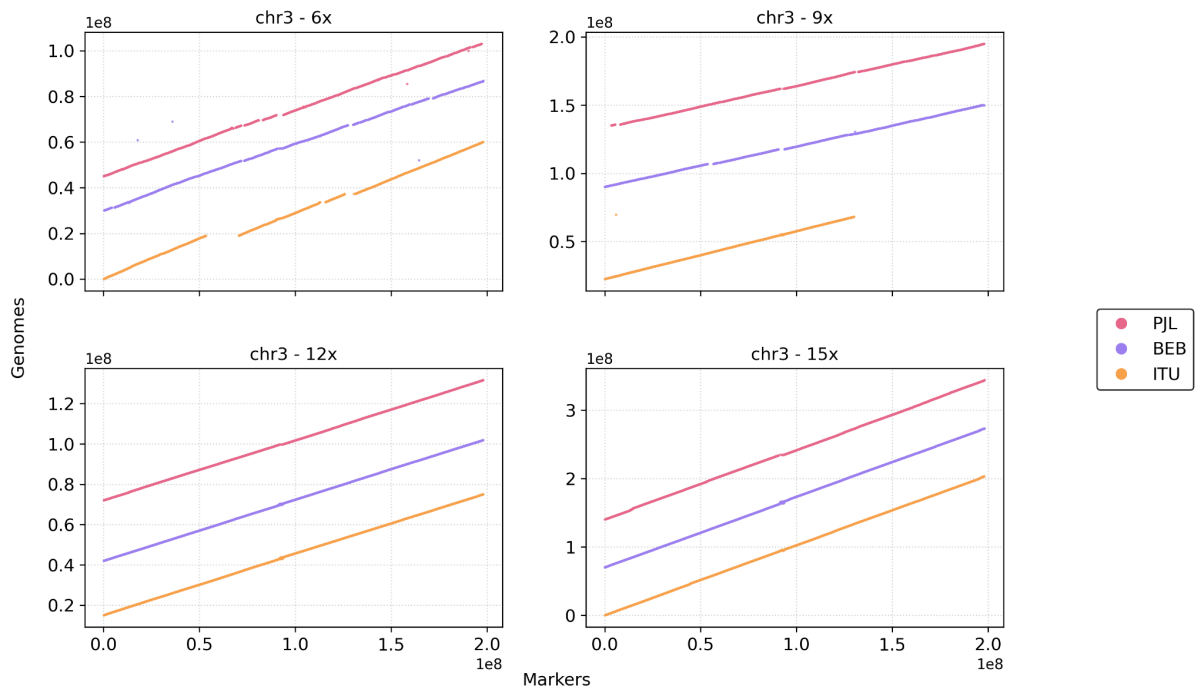
(A)

## #chromosome 2



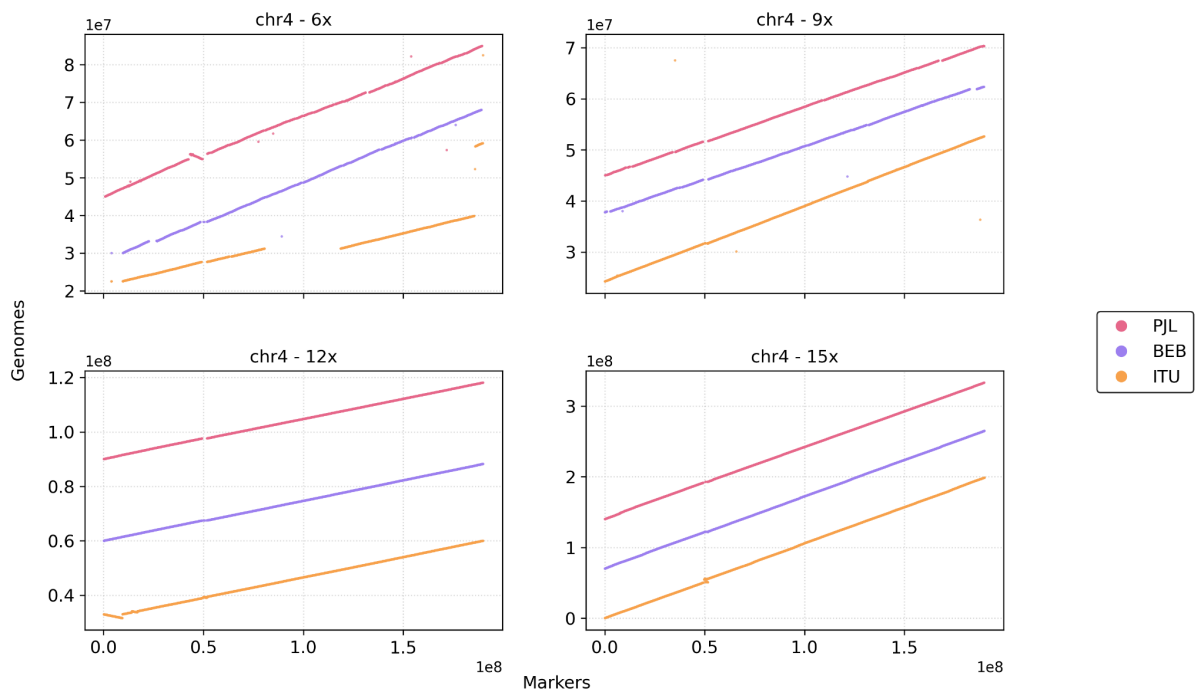
(B)

## #chromosome 3



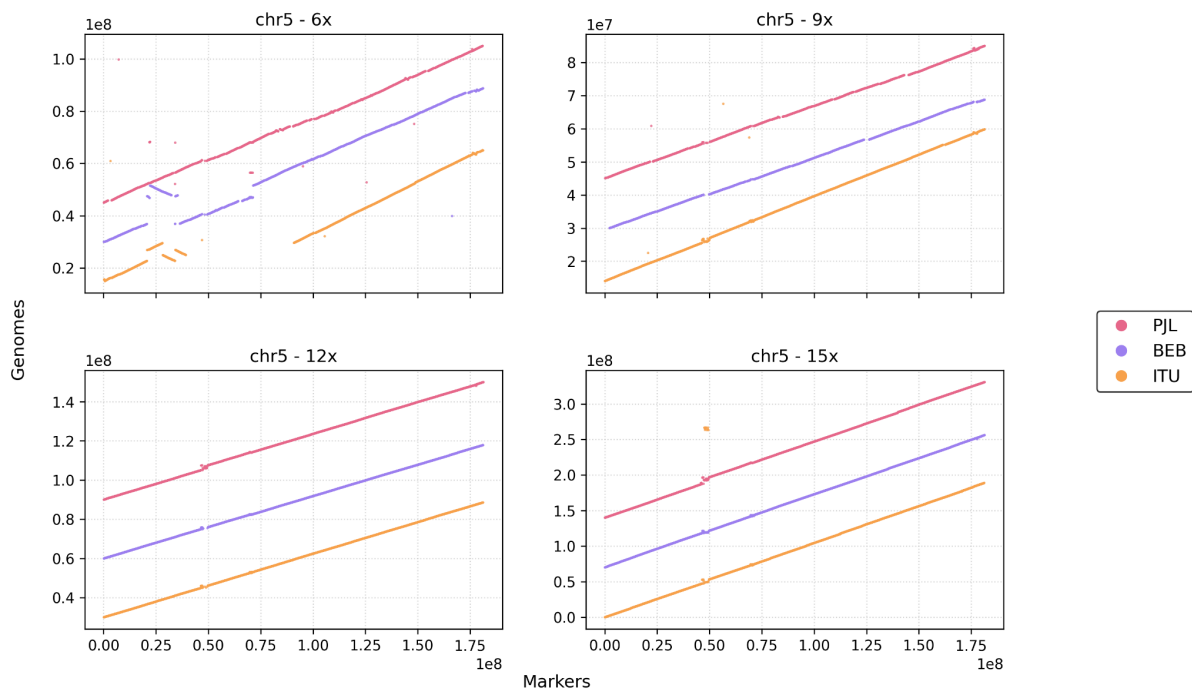
(C)

#chromosome 4



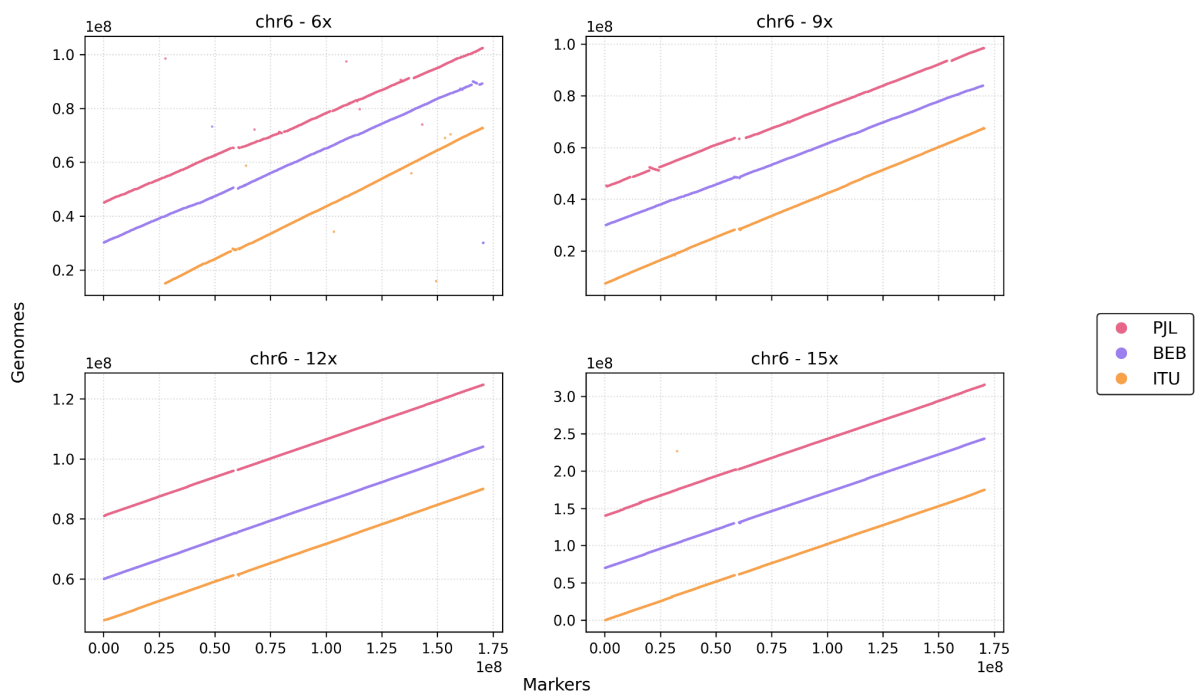
(D)

#chromosome 5



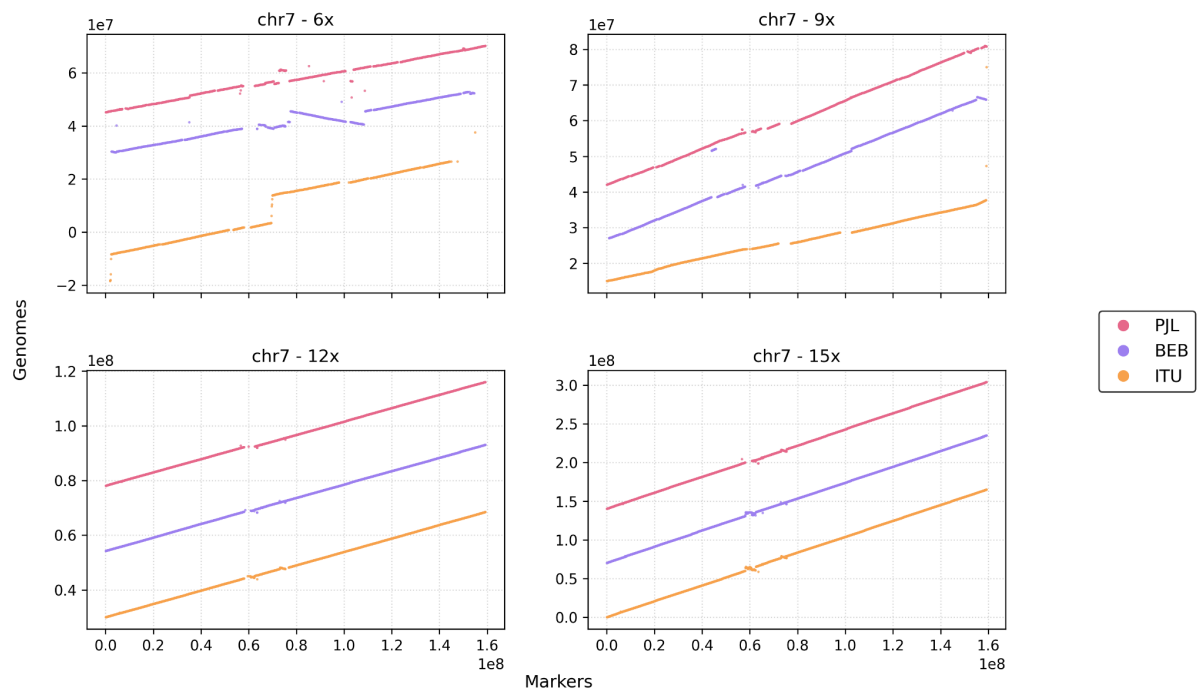
(E)

# chromosome 6



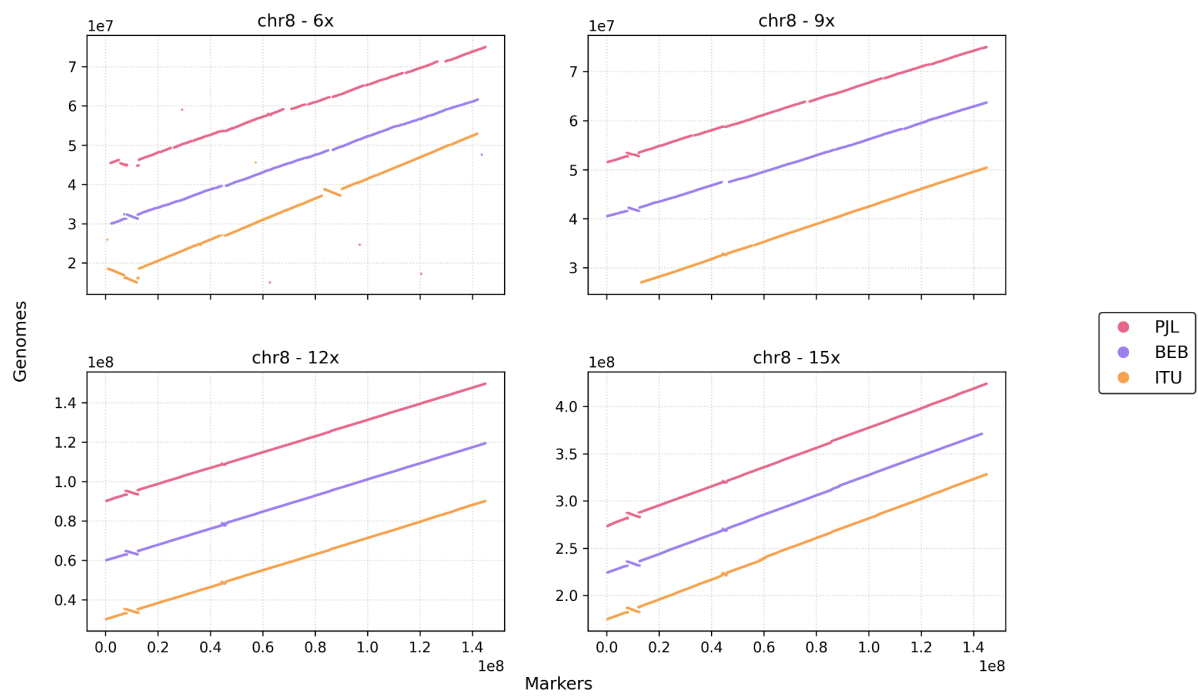
(F)

#chromosome 7



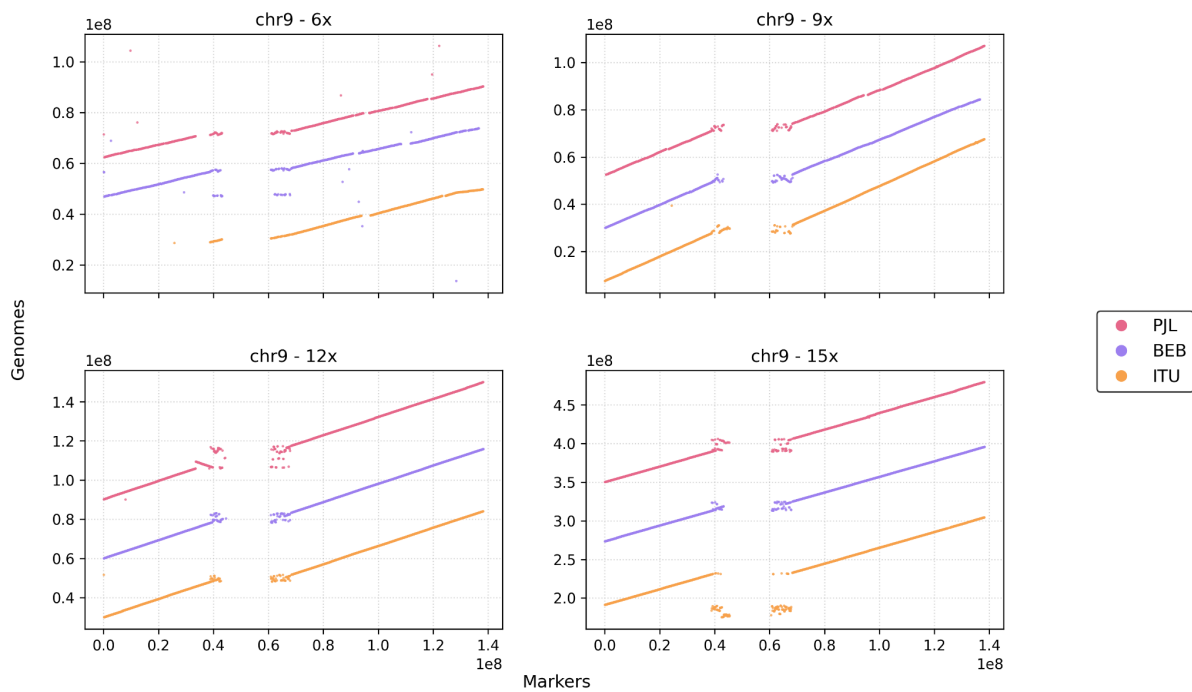
( G )

# chromosome 8



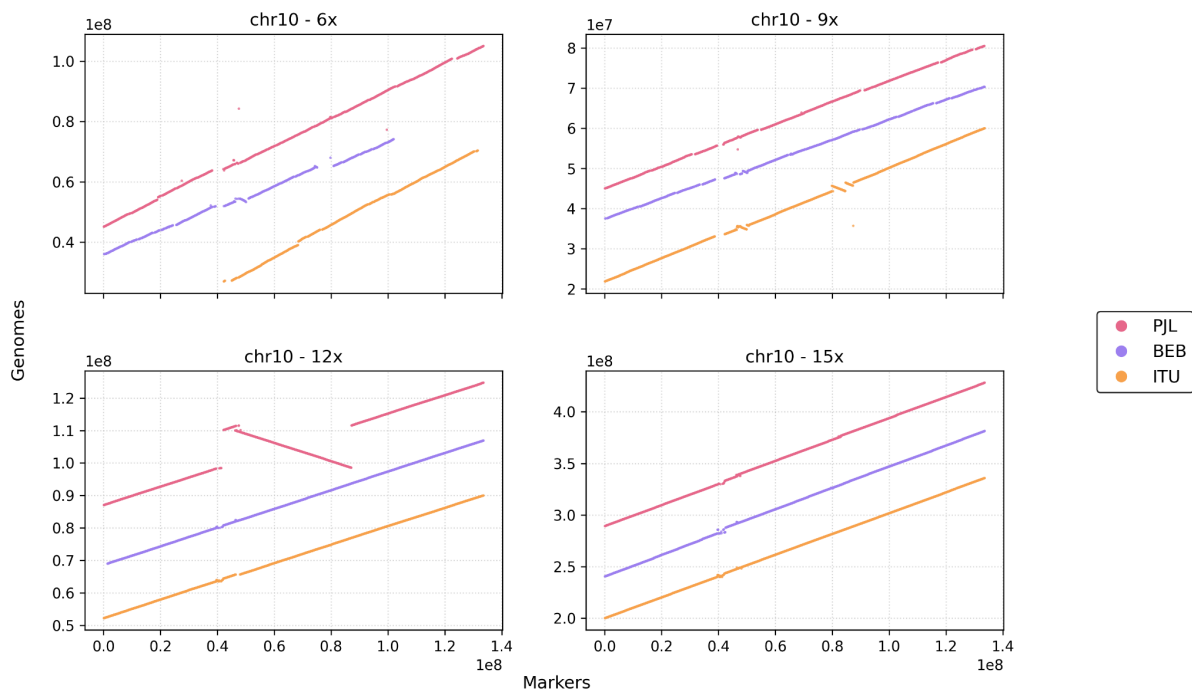
( H )

# chromosome 9



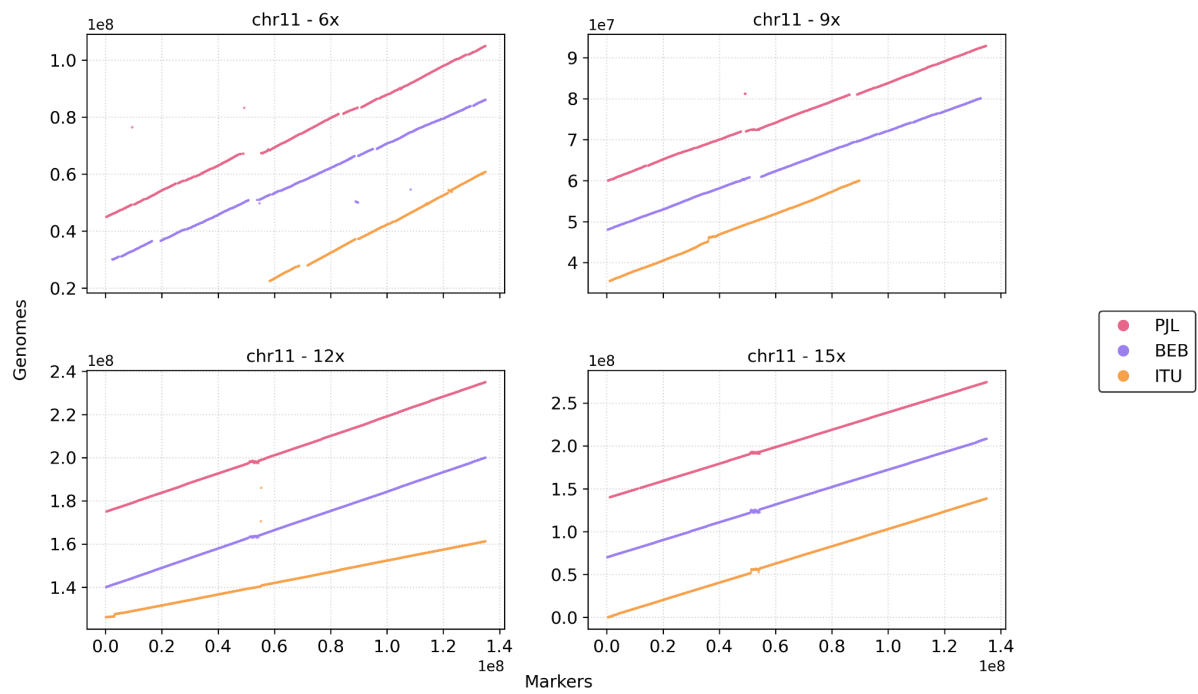
(I)

# chromosome 10



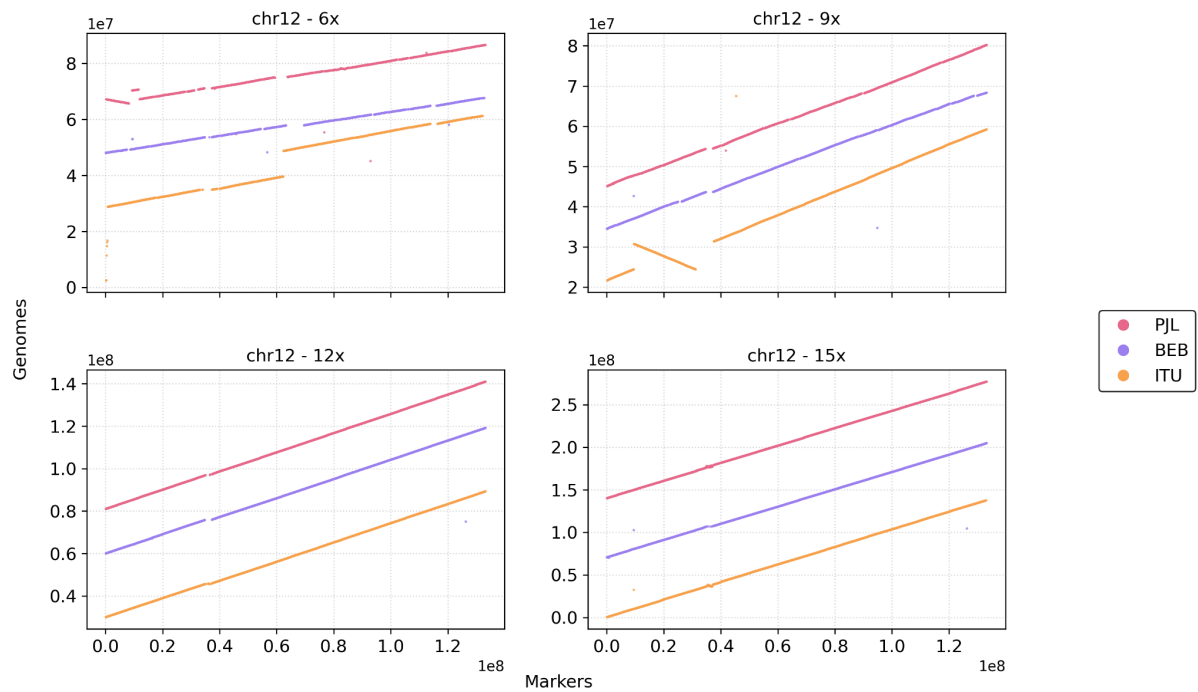
(J)

#chromosome 11



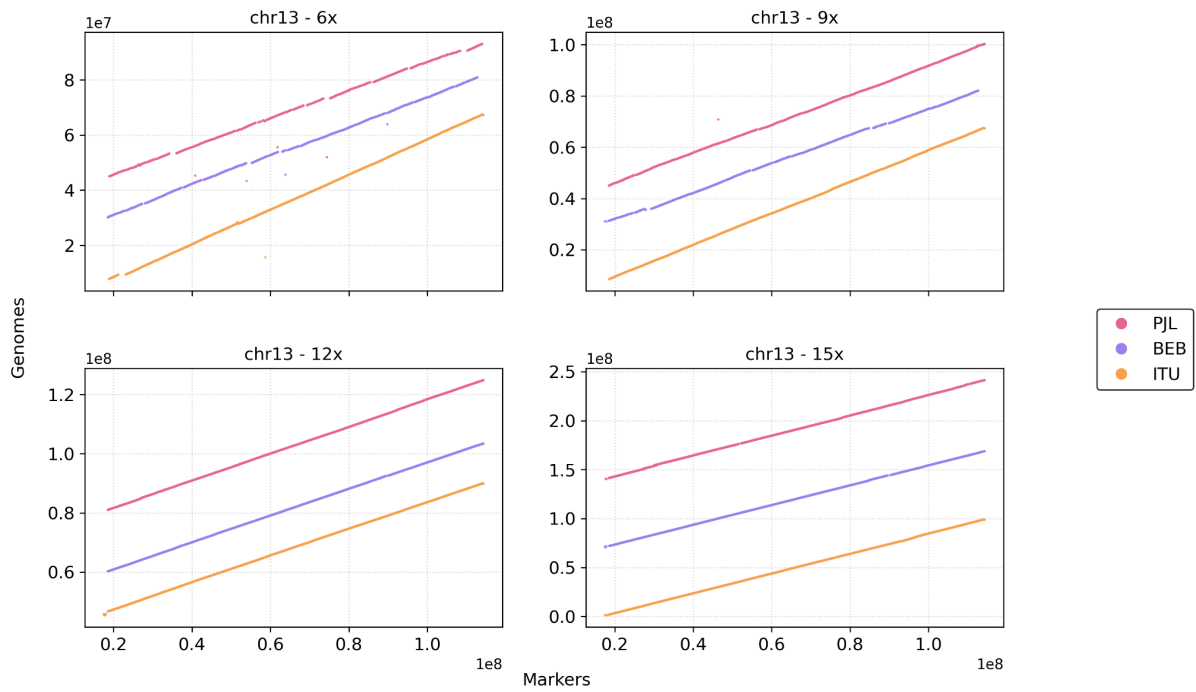
(K)

# chromosome 12



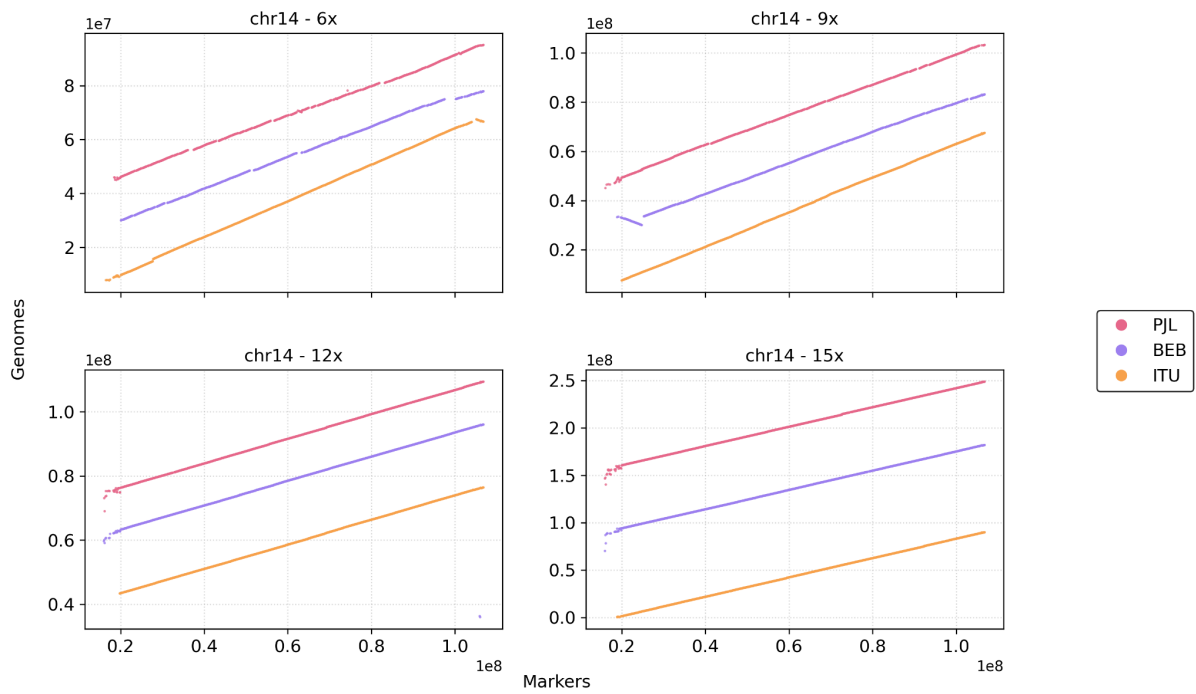
(L)

# chromosome 13



(M)

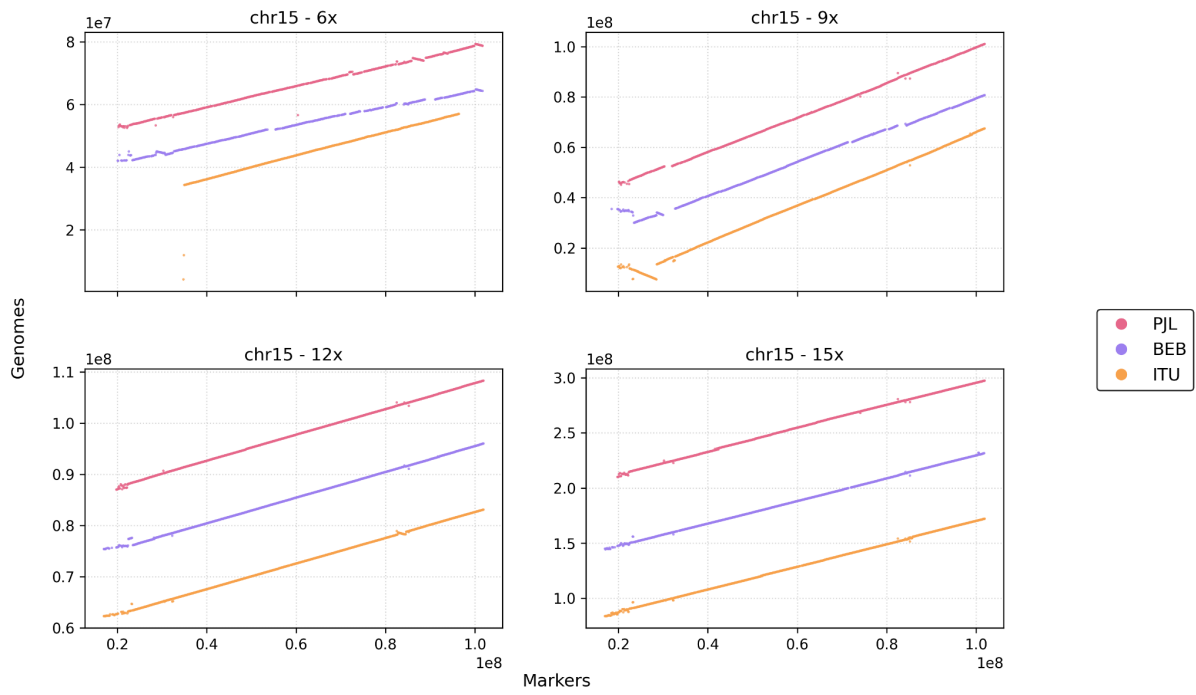
# chromosome 14



(N)

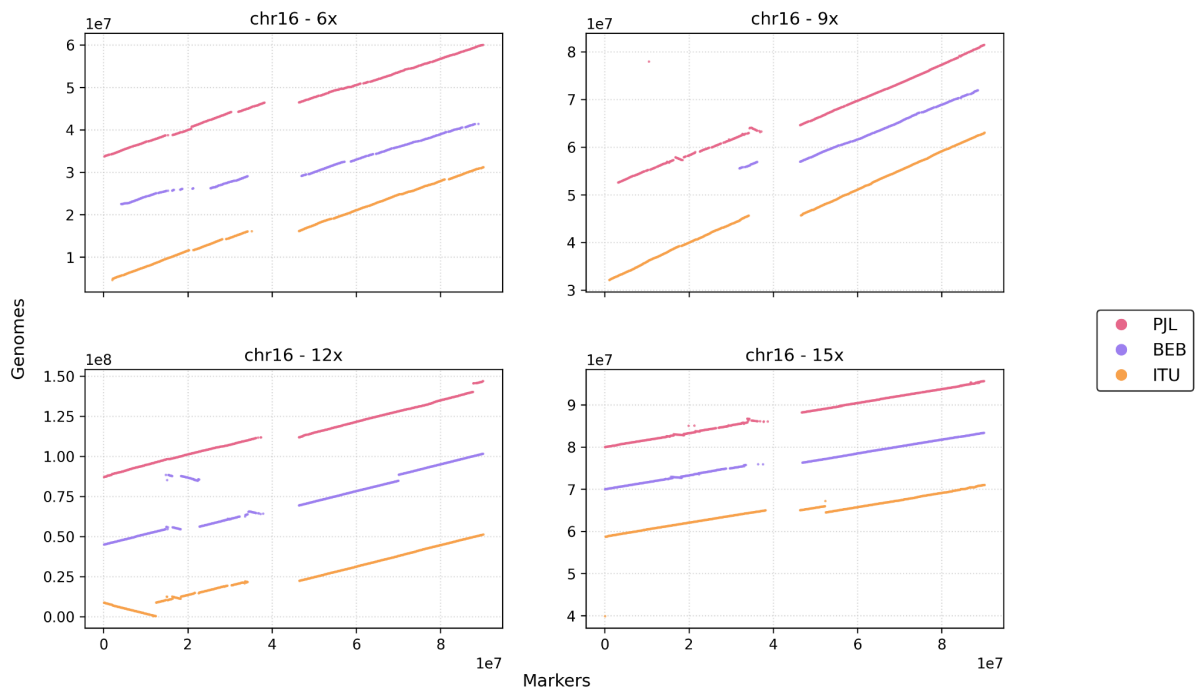
#chromosome 15





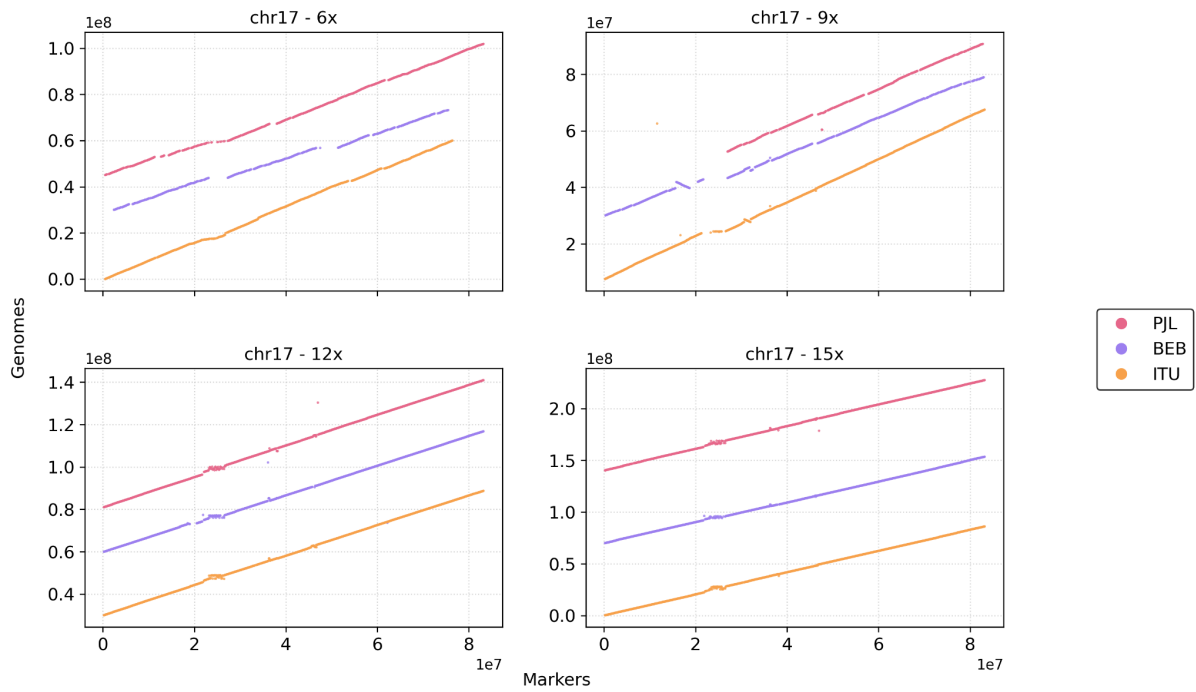
(O)

# chromosome 16



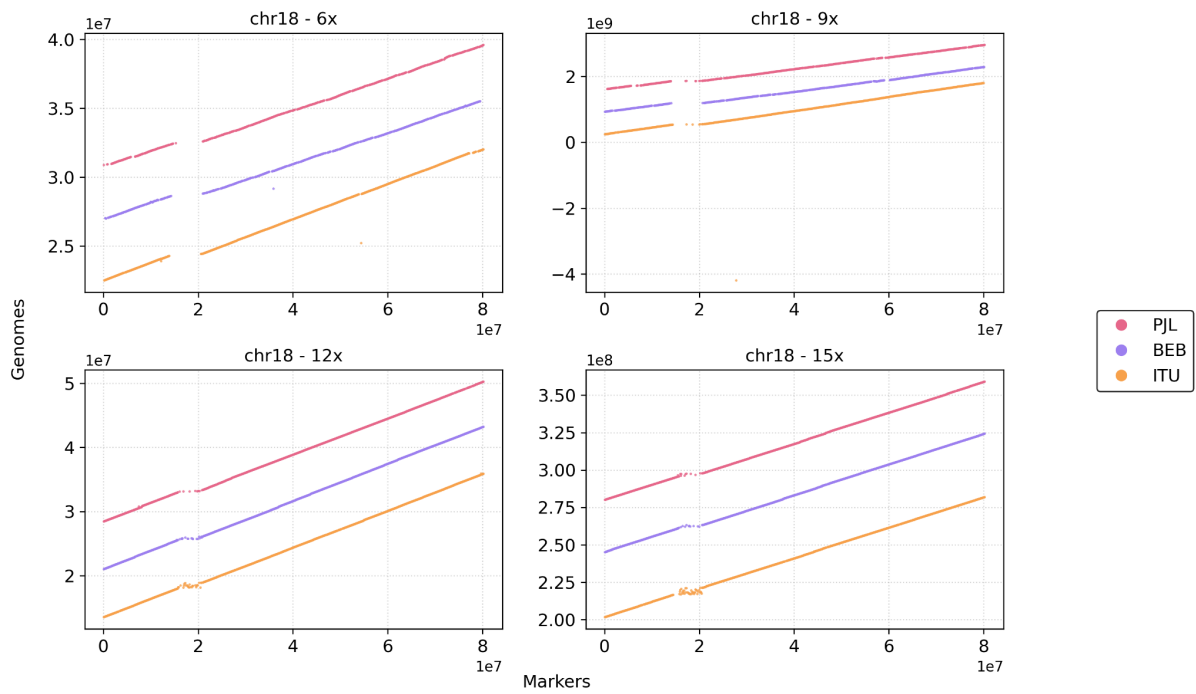
(P)

#chromosome 17



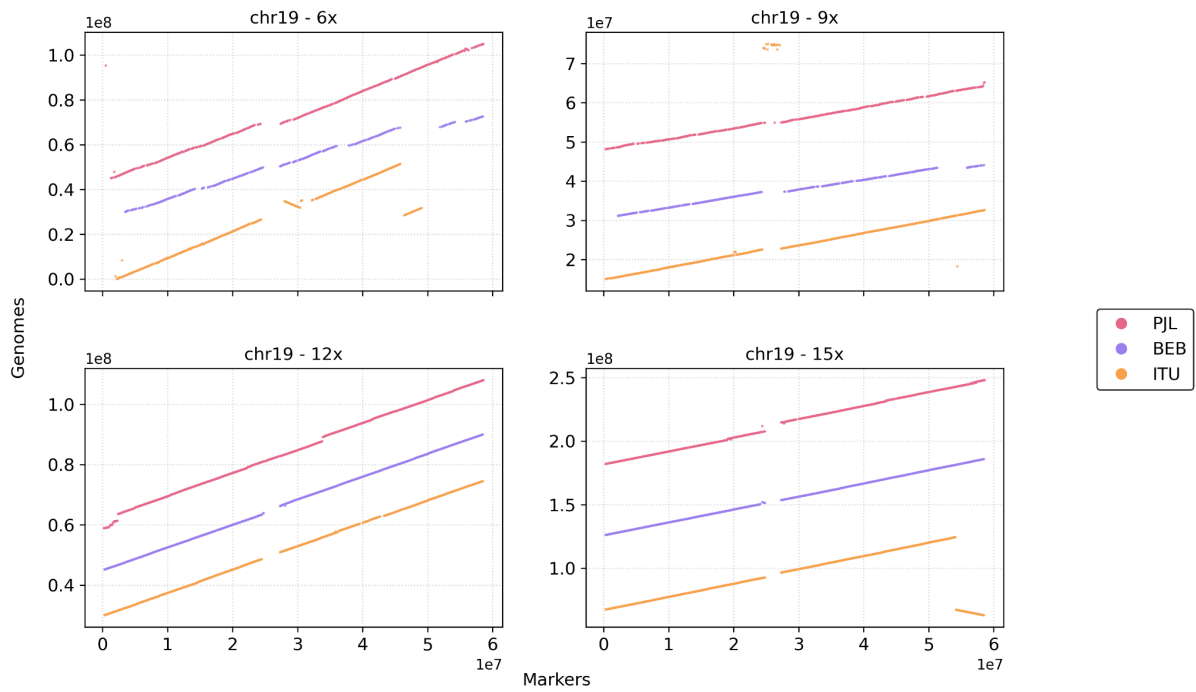
( Q )

# chromosome 18



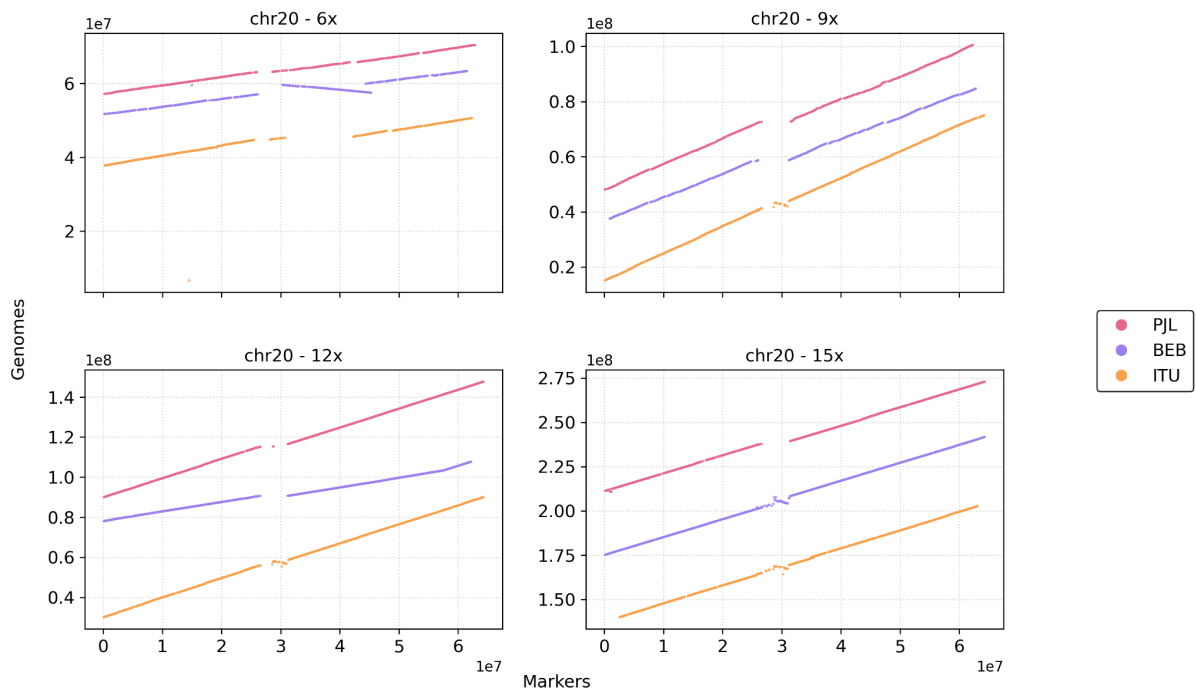
( R )

#chromosome 19



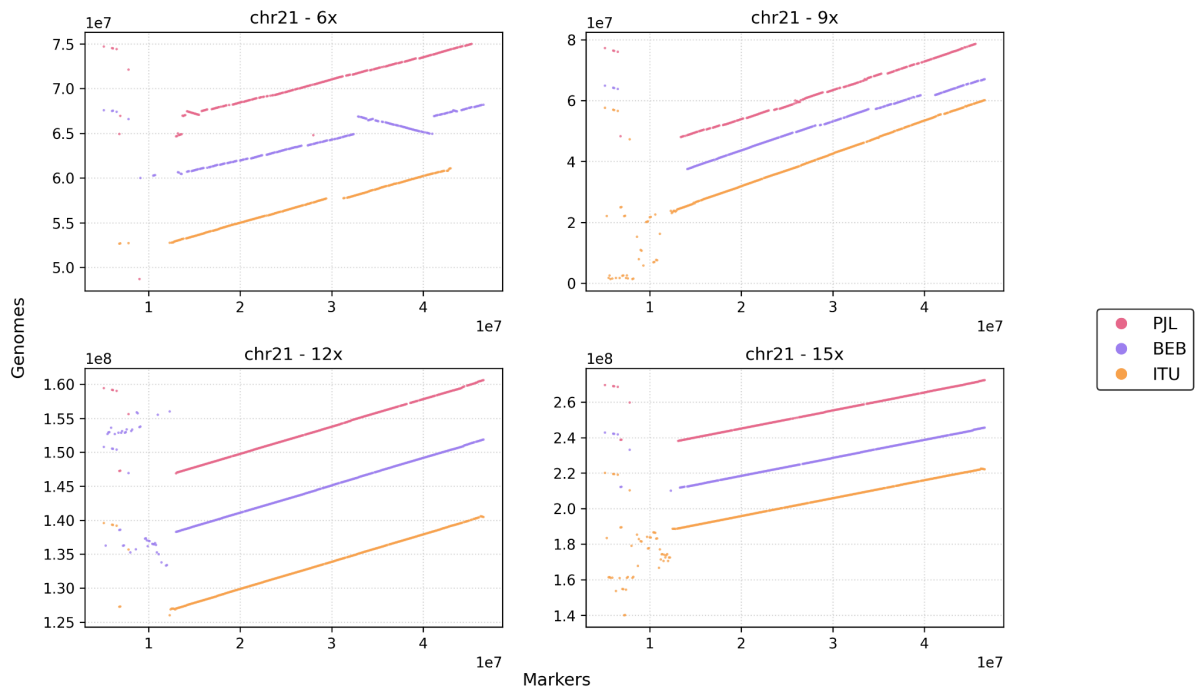
( S )

# chromosome 20



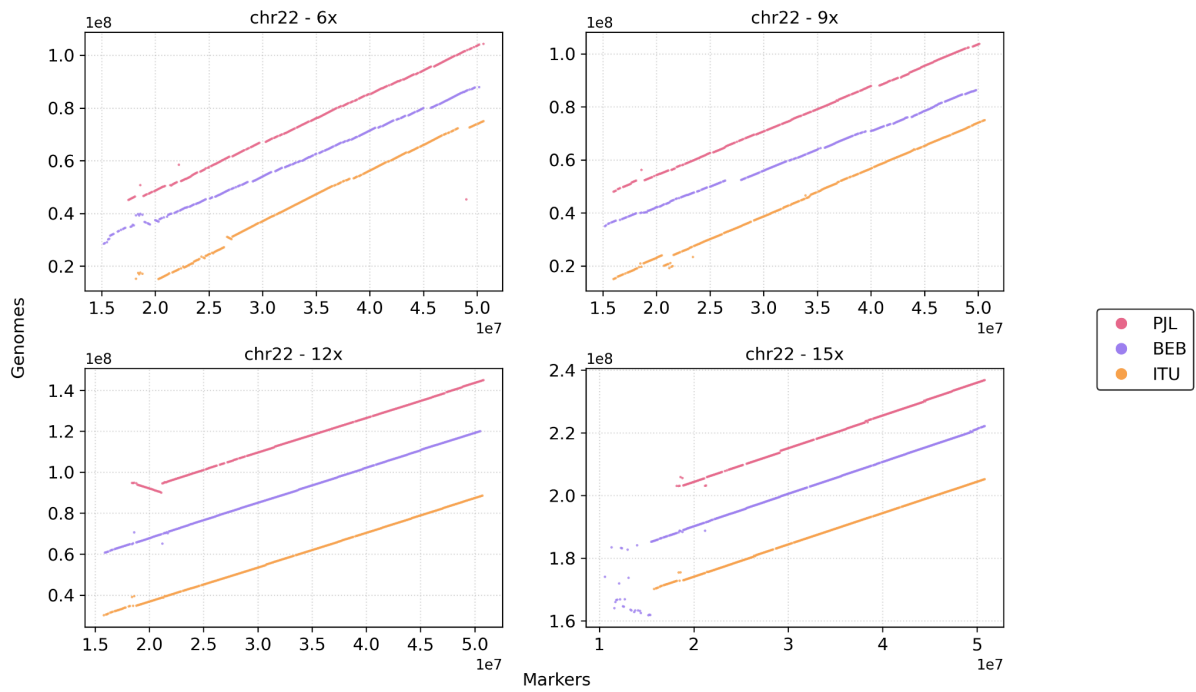
( T )

# chromosome 21



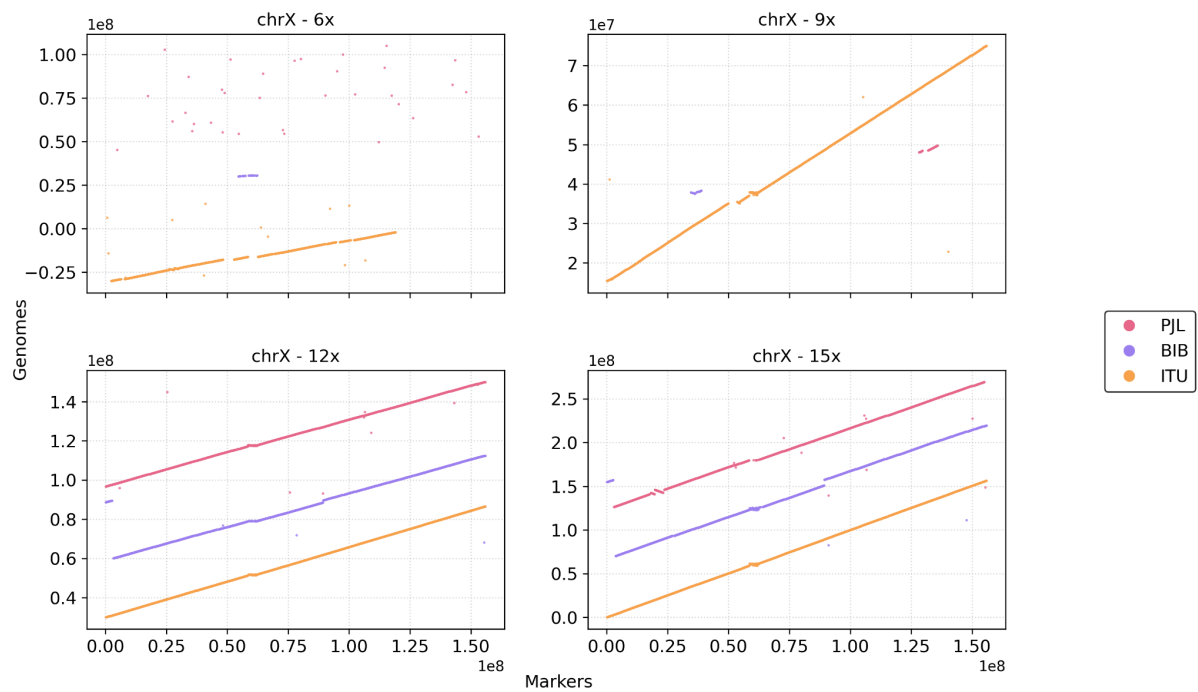
(U)

# chromosome 22



(V)

# chromosome X

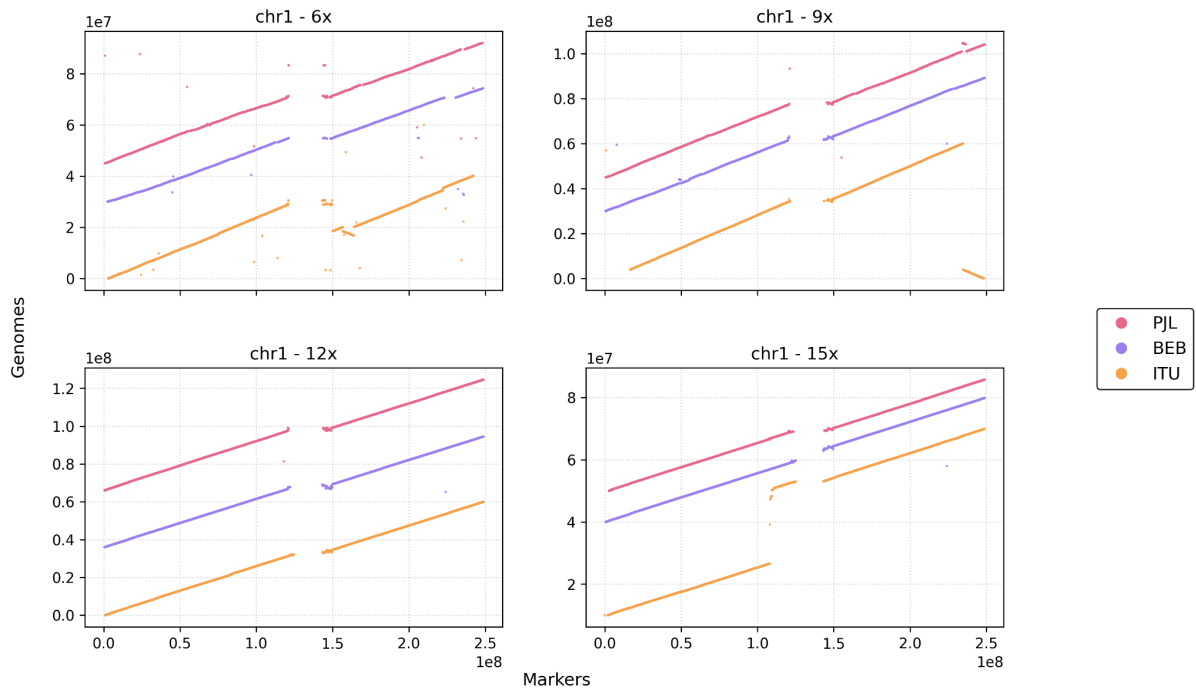


( W )

*Supplementary Figure S1 ( A - W )* : shows comparative dot plot of individual chromosomes from several genomes against virtual markers every 100kb from hg38 assembly.

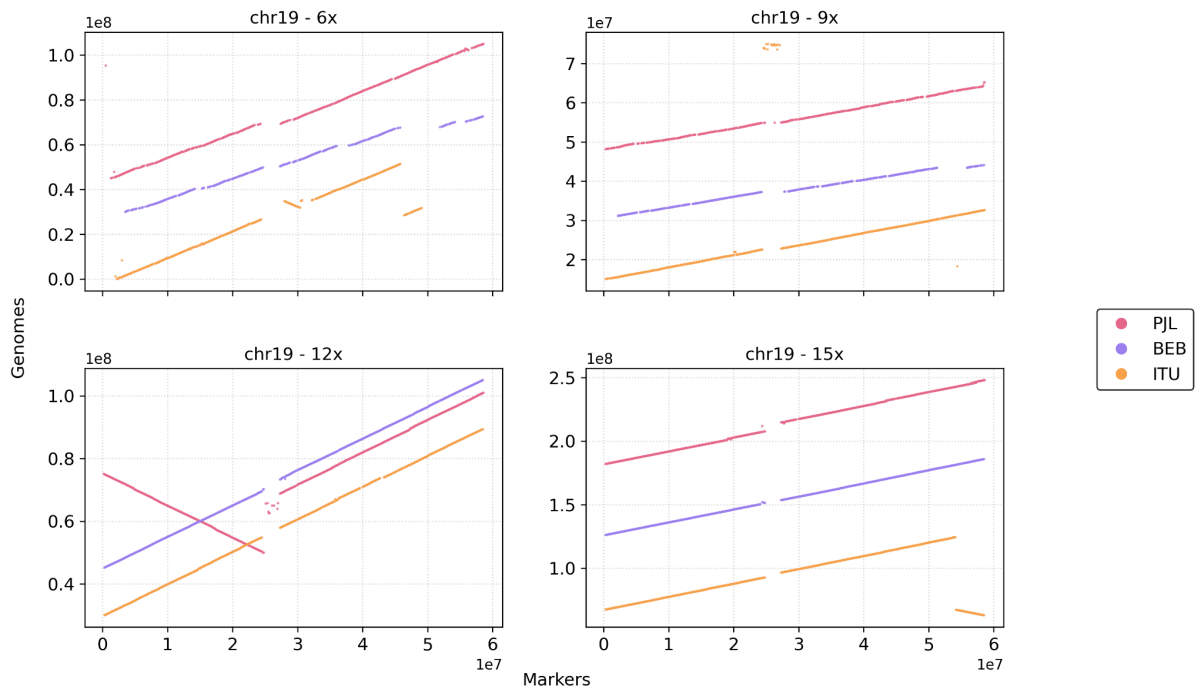
**# Manual corrected chromosomes before correction**

#chr1\_15x- ITU1



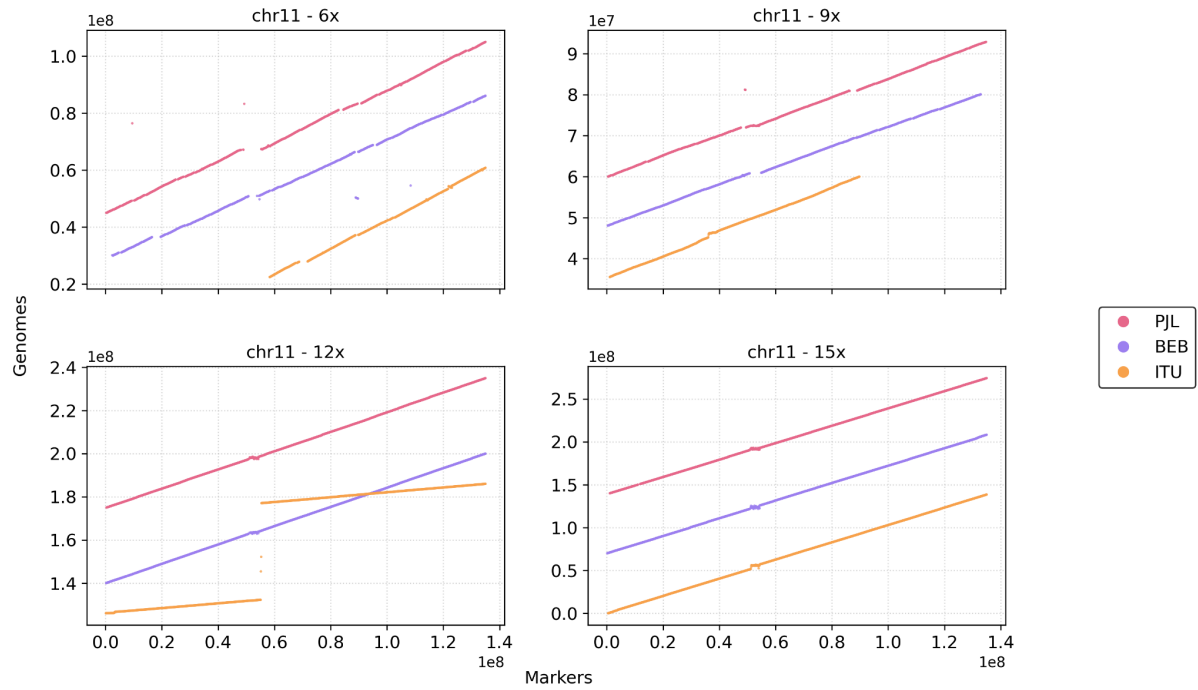
(i)

#chr19\_12x- PjL1



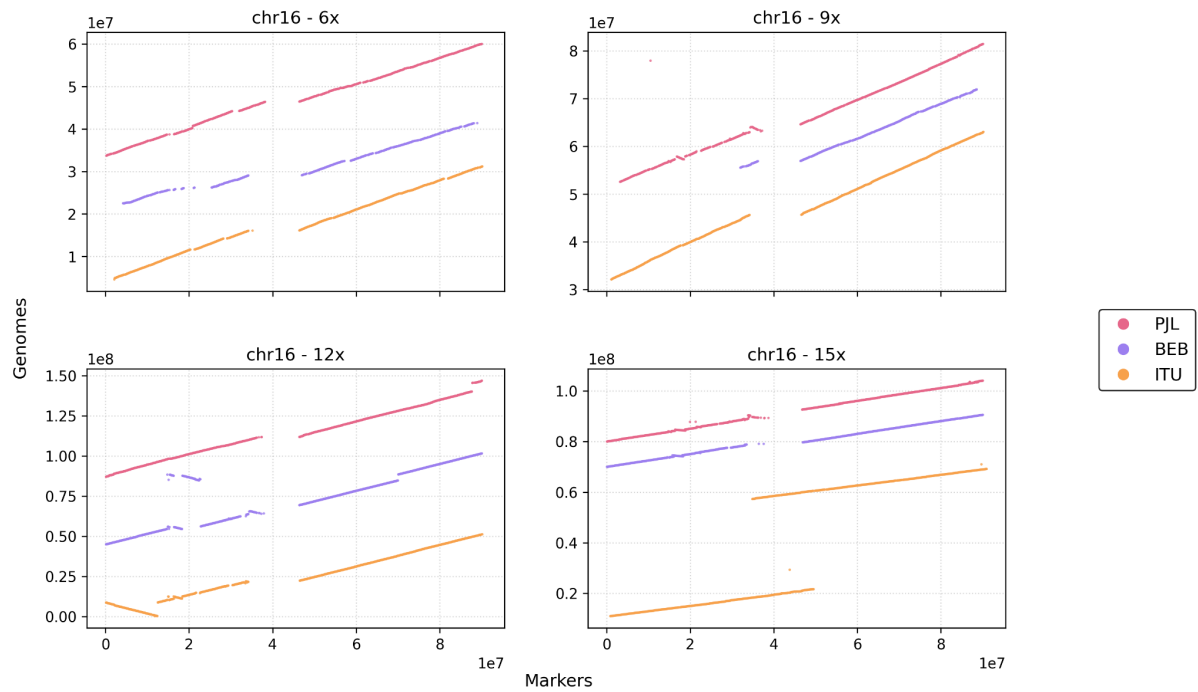
(ii)

#chr11\_ITU-12x



(iii)

#chr16\_15x - ITU1



(iv)

*Supplementary Figure S2 (i - iv) : shows comparative dot plot of individual chromosomes from few genomes where p and q arms are splitting*