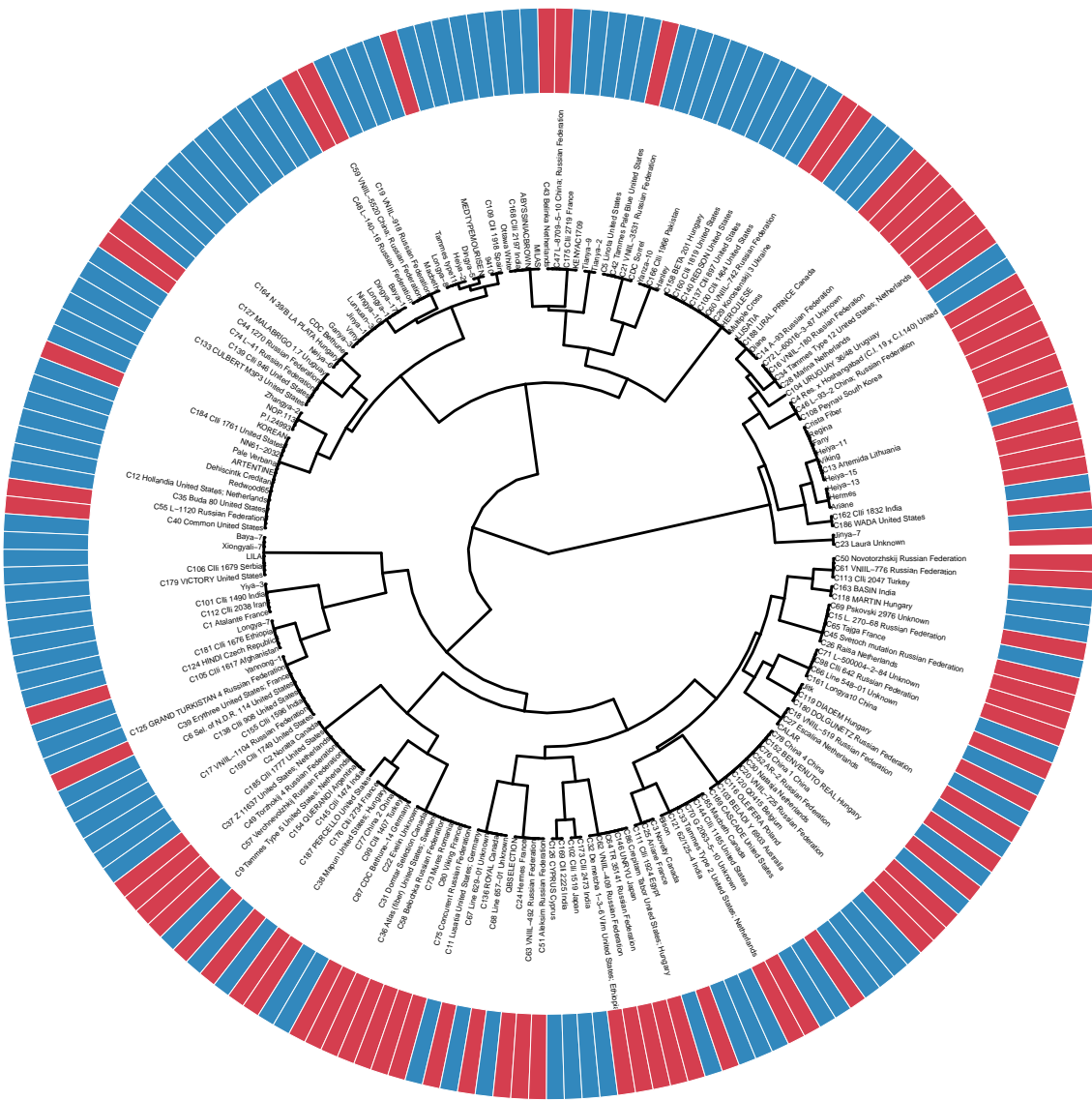


Supplementary Figure S4b. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *PAL3* gene.

Supplementary Figure S4c. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *4CL1* gene.

Supplementary Figure S4d. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *C4H4* gene.

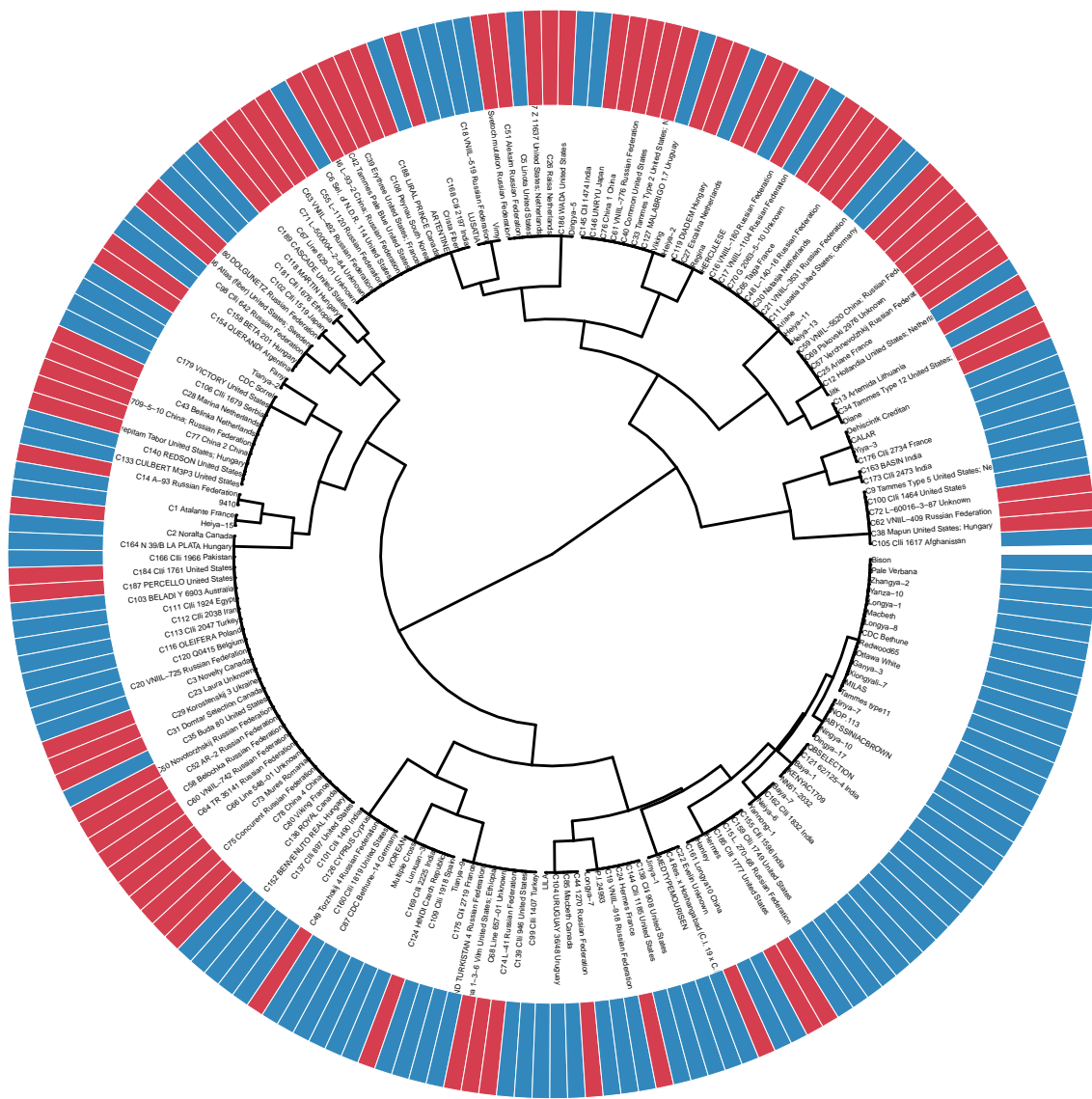


Supplementary Figure S4e. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *CAD1B* gene.

Supplementary Figure S4f. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *CESA1-B* gene.

Supplementary Figure S4g. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *CTL1* gene.

Supplementary Figure S4i. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *Beta_TUB3* gene.



Supplementary Figure S4j. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *BGAL40* gene.

Supplementary Figure S4k. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *BGAL30* gene.

Supplementary Figure S4l. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *PLR1* gene.

Supplementary Figure S4m. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *FAD2A* gene.

Supplementary Figure S4n. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCA1* gene.

Supplementary Figure S40. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCA7* gene.

Supplementary Figure S4p. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCB42* gene.

Supplementary Figure S4q. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCB47* gene.

Supplementary Figure S4r. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCG71* gene.

Supplementary Figure S4s. Dendrogram of linseed and fiber flax varieties based on polymorphisms of *ABCG80* gene.

