

Supplemental data for

Parfenchyk, M., Lemesh, V., Lagunovskaya, E., Sakovich, V., Bulovichik, A., Guzenko, E., Khotyleva, L. (2024). Identification of genetically plastic forms among Belarusian ancient flax (*Linum usitatissimum* convar. *elongatum* Vav. et Ell.) varieties using the Linum Insertion Sequence LIS-1. *Genetic Resources* 5 (9), 45–60. doi: [10.46265/genresj.DBNO8764](https://doi.org/10.46265/genresj.DBNO8764).

Supplemental Table 1. Characteristics of flax varieties for machine learning modelling.

| Variety | LIS-1 | Ciliation of septa | Plant natural height, cm | Technical stem length, cm | Number of capsules per plant | Number of seeds per capsule | Anthocyanin pigmentation |
|----------|-------|--------------------|--------------------------|---------------------------|------------------------------|-----------------------------|--------------------------|
| 624_6222 | 1 | HH (60) | 70 | 57 | 10 | 9 | missing |
| 624_6222 | 1 | Hh (45) | 65 | 45 | 10 | 8 | missing |
| 624_6222 | 1 | HH (60) | 79 | 62 | 11 | 9 | missing |
| 624_6222 | 1 | Hh (50) | 72 | 48 | 9 | 8 | missing |
| 624_6222 | 1 | Hh (50) | 61 | 53 | 4 | 7 | missing |
| 624_6222 | 1 | Hh (45) | 62 | 43 | 4 | 7 | missing |
| 624_6222 | 1 | Hh (45) | 60 | 35 | 10 | 9 | missing |
| 624_6222 | 1 | Hh (30) | 47 | 32 | 5 | 8 | missing |
| 624_6222 | 1 | Hh (45) | 70 | 58 | 4 | 8 | missing |
| 624_6222 | 1 | Hh (50) | 60 | 48 | 6 | 8 | missing |
| 624_6222 | 1 | Hh (45) | 70 | 50 | 7 | 8 | missing |
| 624_6222 | 1 | Hh (50) | 70 | 56 | 9 | 9 | missing |
| 624_6222 | 1 | Hh (45) | 57 | 50 | 4 | 8 | missing |
| 624_6219 | 2 | Hh (0) | 64 | 40 | 16 | 10 | missing |
| 624_6219 | 0 | Hh (0) | 60 | 50 | 14 | 9 | missing |
| 624_6219 | 2 | hh (0) | 63 | 42 | 10 | 9 | missing |
| 624_6219 | 0 | hh (0) | 65 | 47 | 10 | 9 | missing |
| 624_6219 | 1 | hh (0) | 67 | 53 | 18 | 10 | missing |
| 624_6219 | 2 | hh (0) | 61 | 53 | 12 | 9 | missing |
| 624_6219 | 0 | hh (0) | 58 | 42 | 7 | 8 | missing |
| 624_6219 | 2 | hh (0) | 61 | 50 | 9 | 9 | missing |
| 624_6219 | 2 | hh (0) | 57 | 43 | 9 | 9 | missing |
| 624_6219 | 2 | hh (0) | 60 | 49 | 7 | 9 | missing |
| 624_6219 | 0 | Hh (20) | 72 | 55 | 10 | 7 | missing |
| 624_6219 | 0 | Hh (40) | 70 | 55 | 11 | 8 | missing |
| 624_6219 | 1 | Hh (20) | 62 | 35 | 5 | 8 | missing |
| 624_6219 | 1 | hh (0) | 58 | 43 | 7 | 9 | missing |
| 624_6219 | 0 | hh (0) | 57 | 43 | 5 | 8 | missing |
| 624_786 | 1 | hh (0) | 67 | 58 | 21 | 9 | missing |
| 624_786 | 1 | hh (0) | 65 | 56 | 21 | 9 | missing |
| 624_786 | 1 | hh (0) | 69 | 60 | 20 | 10 | missing |
| 624_786 | 1 | hh (0) | 60 | 52 | 7 | 8 | missing |
| 624_786 | 1 | hh (0) | 65 | 56 | 17 | 9 | missing |
| 624_791 | 0 | hh (0) | 60 | 45 | 11 | 10 | missing |
| 624_791 | 0 | hh (0) | 55 | 43 | 10 | 9 | missing |
| 624_791 | 0 | hh (0) | 50 | 37 | 6 | 9 | missing |
| 624_791 | 0 | hh (0) | 44 | 37 | 6 | 8 | missing |
| 624_791 | 0 | hh (0) | 45 | 36 | 7 | 10 | missing |
| 624_6215 | 1 | hh (0) | 57 | 47 | 10 | 9 | weak |
| 624_6215 | 1 | hh (0) | 55 | 43 | 9 | 8 | weak |
| 624_6215 | 1 | hh (0) | 51 | 38 | 11 | 9 | weak |
| 624_6215 | 1 | hh (0) | 52 | 42 | 7 | 9 | weak |
| 624_1044 | 1 | Hh (50) | 58 | 43 | 11 | 9 | missing |

| | | | | | | | |
|----------|---|---------|----|----|----|---|---------|
| 624_1044 | 1 | Hh (50) | 64 | 47 | 9 | 9 | missing |
| 624_1044 | 1 | Hh (45) | 54 | 35 | 11 | 9 | missing |
| 624_1044 | 1 | HH (60) | 65 | 45 | 15 | 7 | missing |
| 624_1044 | 1 | Hh (50) | 50 | 41 | 7 | 8 | missing |
| 624_1044 | 1 | HH (60) | 48 | 40 | 5 | 7 | missing |
| 624_1044 | 1 | Hh (45) | 50 | 40 | 6 | 8 | missing |
| 624_1044 | 1 | Hh (45) | 51 | 43 | 13 | 9 | missing |
| 624_1044 | 1 | HH (60) | 49 | 40 | 5 | 8 | missing |
| 624_789 | 1 | hh (0) | 60 | 51 | 9 | 9 | weak |
| 624_789 | 1 | hh (0) | 57 | 41 | 10 | 8 | weak |
| 624_789 | 1 | hh (0) | 60 | 51 | 14 | 9 | weak |
| 624_789 | 1 | hh (0) | 57 | 43 | 8 | 8 | weak |
| 624_789 | 1 | hh (0) | 59 | 42 | 13 | 7 | weak |