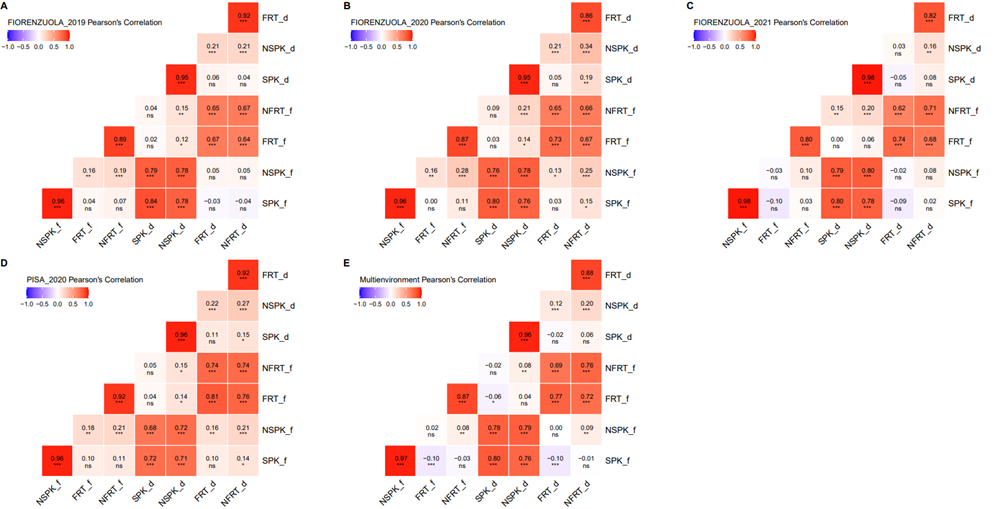
**Supplementary Figures**

**Supplementary Figure 1**.Pearson’s correlation among traits recorded from dry (\_d) and fresh (\_f) spikes. Correlation plot for F19 (A), F20 (B), F21 (C), P20(D) and for multi-environment (E) are reported. The traits are denoted as: FRT, total floret number; NFRT, net floret number; SPK, total spikelet number; NSPK, net spikelet number.



\* Significance level at *p*<0.05, \*\*significance level at *p* <0.01, \*\*\*significance level at *p* <0.001 and ns for non-significant.

**Supplementary Figure 2.** Pearson’s correlation among all traits in each environment. Correlation plot for F19 (A), F20 (B), P20 (C) and F21(D) are reported.

A picture containing text, diagram, screenshot, design

Description automatically generated

\* Significance level at *p* <0.05, \*\*significance level at *p* <0.01, \*\*\*significance level at *p*<0.001 and ns for non-significant.

The traits are denoted as: FRT, total floret number; NFRT, net floret number; SPK, total spikelet number; NSPK, net spikelet number.

**Supplementary Figure 3.** A) Principal component analysis of multi-environment BLUP for all traits; dots are coloured according heading date. B) Correlation of the principal components with all targeted traits.

Immagine che contiene testo, diagramma, schermata, linea

Descrizione generata automaticamente

The traits are denoted as: FRT, total floret number; NFRT, net floret number; SPK, total spikelet number; NSPK, net spikelet number.