

Article title: QTL mapping and successful introgression of the spring wheat derived QTL *Fhb1* for Fusarium head blight resistance in three European triticale populations

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ESM_2 : Short Back up on the whitened kernel surface (WKS) method **(A)** Example of photo studio set-up; **(B)** Decision tree for sorting the pixels of the picture into background, healthy grains and whitened grain pixels. Extracted from Ollier et al. (2018); **(C)** AUDPC as a function of WKS for the three triticale populations with each dot representing a BLUE calculated across all experiments. WKS was calculated for a blue-level-limit of 150. Lm1, Lm2 and Lm3 illustrate linear regressions for the model $AUDPC \sim WKS$, with respective adjusted R-square of 0.61 ($p < 0.0001$), 0.56 ($p < 0.0001$), 0.37 ($p < 0.0001$), for the T, AG and E populations.

