

A genome wide association study for the identification of loci involved in salt tolerance in temperate rice

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About 300 temperate japonica rice accessions have been evaluated for salt tolerance. They were grown in greenhouse in pots filled with paddy soil in which conductivity was maintained at 4 dS m⁻¹ by adding NaCl solutions. Different parameters were evaluated: i) germination rate in saline and non-saline soil; ii) plant growth curves and leaf damages evaluation monitored at different phenological stages by semi-automated photo cameras, sensor for chlorophyll index and mobile apps for leaf area index; iii) temperatures, using long-wave infrared cameras; iv) spikelet sterility. The association between phenotypic and GBS data of the accessions will be presented.

Best Regards,

Gian Attilio Sacchi