



M3P : the "Montpellier Plant Phenotyping Platforms "

Claude Welcker, Llorenç Cabrera Bosquet, Antonin Grau, Francois F. Tardieu, Vincent Negre, Nicolas Brichet, Benoit Suard, Jonathan Mineau, Myriam Dauzat, Christine C. Granier, et al.

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Interactive exhibit

M3P : the "Montpellier Plant Phenotyping Platforms "

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The research group **LEPSE**, ranked among the top 5% research group in ecophysiology worldwide in 2014 by a panel of experts is developing high throughput phenotyping platforms for more than 15 years. Three complementary platforms, embarking 500 to 1700 plants simultaneously, aim to analyze and model genetic variability of plant responses to environmental stresses and climate change (mainly drought and elevated temperature). These platforms host large collections of genotypes of the same species, evaluate their tolerance and obtain relevant parameters that will be injected into predicting models allowing the selection and the breeding of future, tolerant and more efficient varieties.

These platforms are gathered into "**Montpellier Plant Phenotyping Platforms**" (M3P), that is a full member of the "Investment for the future" initiative PHENOME. The platforms hosts ~ 50% of external access in the frame of national and international projects on a variety of species (maize, wheat, grapevine, apple tree, sorghum, millet, rice, *A. Thaliana*).