Metadata guide

Experimentation

Experiment name	Condition	Treatment	Plant	Reference
Exp1_Arabreed_2018	Common garden	Control	Flowering	Unpublished
		Herbivory		
		Water stress		
		Water stress / Herbivory		
Exp2_Arabreed_2019	Common garden	Control	Flowering	Unpublished
		Herbivory		
		Water stress		
		Water stress / Herbivory		
Exp3_Arabreed_2018	Growth chamber	Control	Flowering	Unpublished
Exp4_2017	Growth chamber	Control	Vegetative	Unpublished
Exp5_2018	Greenhouse	Control	Bolting	Unpublished
Exp6_2015	Greenhouse	Control	Bolting	Vasseur et al., Annals of Botany 2018 (https://doi.org/10.1093/aob/mcy165)
		Herbivory	Flowering	
Exp7_2019	Greenhouse	Control	Vegetative	Estarague et al., Annals of Botany 2022 (https://doi.org/10.1093/aob/mcab149)
		HighTemperature		
		LowTemperature		
		WaterStress/HighTemperature		
		WaterStress/LowTemperature		
Exp8_2017	Greenhouse	Control	Bolting	Sartori et al., Functional Ecology 2022 (https://doi.org/10.1111/1365-2435.14029)
			Flowering	
Exp9_2017	Wild	NA	Bolting	Unpublished

Treatment

Treatment	Definition
Control	Plants grown without any specific treatment
Herbivory	Plants grown in presence of herbivory animals (snails for example)
High Temperature	Plants grown at a temperature of 15°C at night and 35°C during the day
Low Temperature	Plants grown at a temperature of -6°C at night and 15°C during the day
WaterStress	Plants grown with water deficit
WaterStress / Herbivory	Combination of water deficit and presence of herbivory
WaterStress / High Temperature	Combination of water deficit and high temperature condition
WaterStress / Low Temperature	Combination of water deficit and low temperature condition

Natural accessions

We call natural accessions the individuals with an unknown or unidentified genotype.

Trait names

Category	Abbreviation	Complete name	Definition	Thesaurus reference
Functional traits	LDMC	Leaf dry matter content	The ratio of the dry mass of a leaf to its water saturated fresh mass	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Leaf_dry_matter_content
	SLA	Specific leaf area	The ratio of the area of a leaf to its dry mass	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Specific_leaf_area
	LNC	Leaf nitrogen content	The ratio of the quantity of nitrogen in the leaf per respective unit dry mass	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Leaf_nitrogen_content_per_leaf_dry_mass
	Thickness	Leaf thickness	The thickness of a leaf	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Leaf_thickness
	RWC	Leaf relative water content	The ratio of the difference between leaf fresh mass and leaf dry mass to the difference between leaf water saturated fresh mass and leaf dry mass	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Leaf_relative_water_content
	LCC	Leaf carbon content	The ratio of the quantity of carbon in the leaf per respective unit dry mass	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Leaf_carbon_content_per_leaf_dry_mass
	$\delta^{13}C$ / Delta13C	Delta ^{13}C	Leaf isotopic ratio of carbon	-
	$\delta^{15}N$ / Delta15N	Delta ^{15}N	Leaf isotopic ratio of nitrogen	-
	Plant lifespan	Plant life span	The life span of a whole plant	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Plant_life_span
	Plant growth rate	Plant relative growth rate	The absolute growth rate of a whole plant, expressed relative to a measure of the whole plant	https://top-thesaurus.org/annotationInfo?viz=1&&trait=Plant_relative_growth_rate

	CSR_c	C score	Competitive ecological strategy score	-
	CSR_s	S score	Stress-tolerance ecological strategy score	-
	CSR_r	R score	Ruderal ecological strategy score	-
Hormones	SA	Salicylic acid	Involved in pathogens resistance	-
	JA	Jasmonic acid	Involved in regulation of cellular defense and development	-
	IAA	Auxin (Indole-3-acetic acid)	Involved in regulation of growth and developmental processes	-
	ABA	Abscisic acid	Involved in plant developmental processes and response to environmental stresses	-
	CMLX	Camalexin	Involved in fungi resistance	-