UNTWIST

Uncover and promote tolerance to temperature and water stress in *Camelina sativa*

UNTWIST concept

UNTWIST will use the resilient European oilseed crop camelina in a multidisciplinary approach to decipher the diverse heat and drought stress response mechanisms associated with genetic diversity and use this knowledge to establish predictive models for the tangible improvement of cropping systems.

UNTWIST mission

The UNTWIST project will provide a fundamental understanding of crop adaptation to drought and heat stress, underpinning efforts to increase yield stability in adverse and changing environments

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C-N metabolism
protein
resilient
plant
variable
transcriptomics
phenotyping
field trials
redox status
lysimeters
abiotic
enzymes
omics
metabolomics
change
stability
mechanisms
environmental
predictive modelling
diverse
stress
breeding
camelina
epigenomics
growing
agricultural
genomics
european
carbon isotope
growth
mechanistic modelling
farmers
quality
authorities
improve
strategies
genotypes
crop physiology
oilseed
extreme
antioxidants
response
weather
drought heat
exploited
sensitive
lipidomics
yield
climate change

UNTWIST partners

AIT Austrian Institute of Technology | INRAE science for people, life & earth | Rothamsted Research | Jülich Forschungszentrum

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