



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

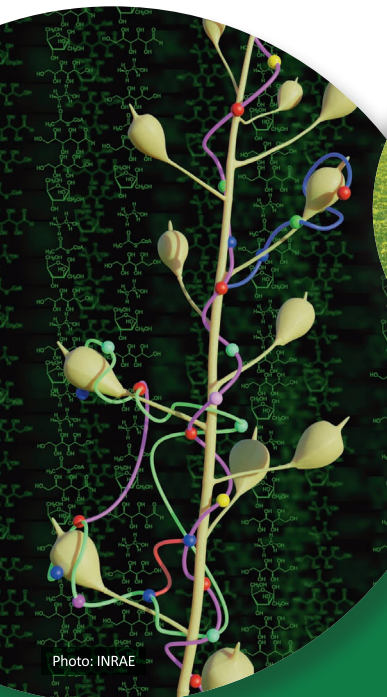


Photo: INRAE



Photo: INRAE



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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



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



UNTWIST partners



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