

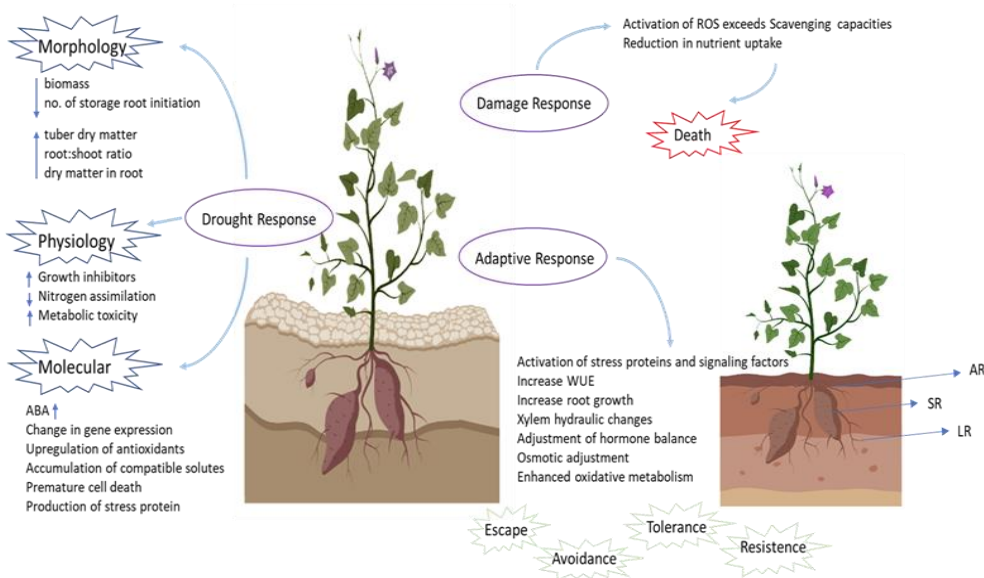


Shweta Singh

Root to Resilience: opportunities of Sweet Potato addressing climate change in Europe

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Background:



Hypothesis:

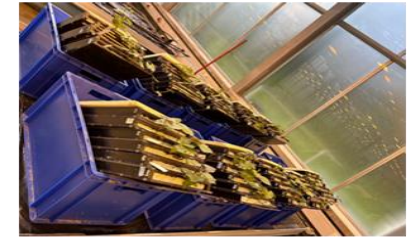
"In sweet potato varieties, the naturally varying root systems characterized by specific morphological, anatomical, and genetic traits, influence the plant's drought resilience and overall yield."



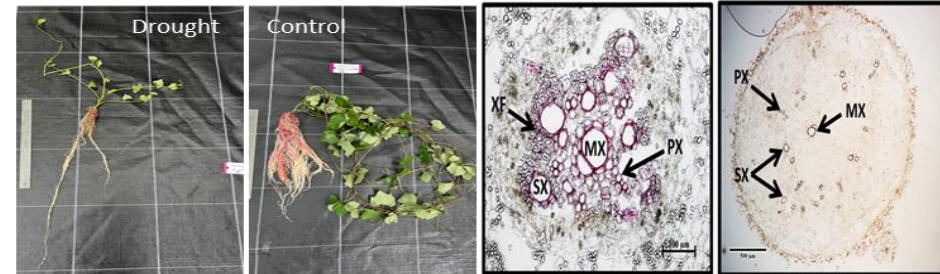
Approach:



Pot Experiments

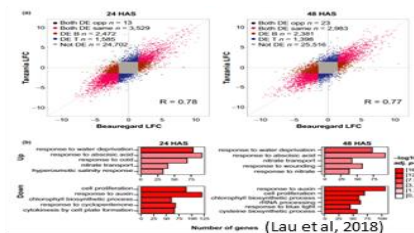


Rhizotron Experiments

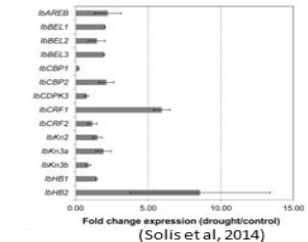


Root Phenotyping

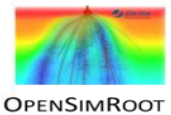
Anatomy and histochemical analysis



Identification of drought responsive genes using RNA seq



Gene Expression studies using qRT-PCR



OPENSIMROOT