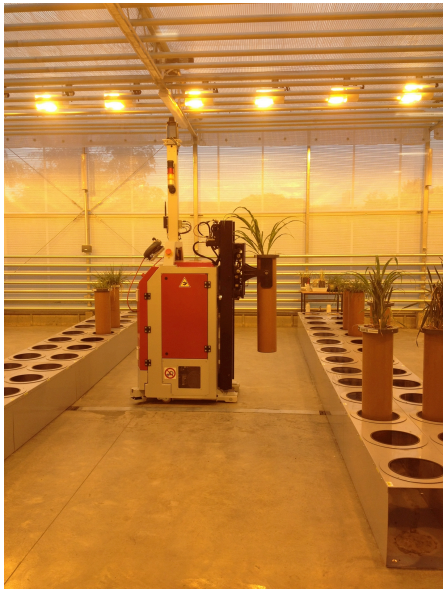
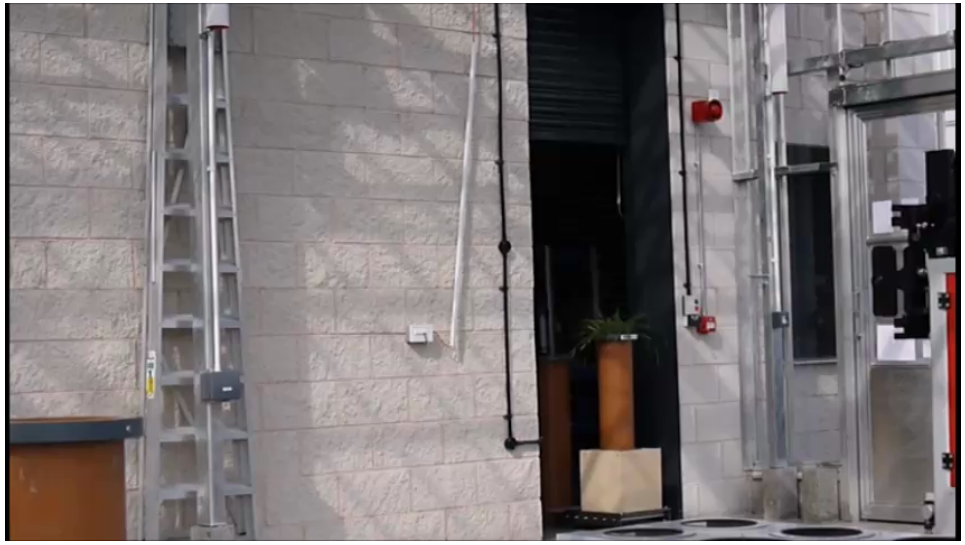
The Hounsfield Facility for Rhizosphere Research

SEVENTH FRAMEWORK PROGRAMME
bbsrc biotechnology and biological sciences research council
European Research Council erc
THE WOLFSON FOUNDATION

The Hounsfield Facility

- £3.5M of investment
- 3 scanners
- Scans from 0.5 µm to 5 mm resolution
- Samples up to 25 cm diameter & 1 m length
- Automated sampling system enabling 4-D visualisation
- Automated root identification via RooTrak
- 3D structural descriptions of root architectures are extracted and stored in RSML (Lobet, Pound et al) format





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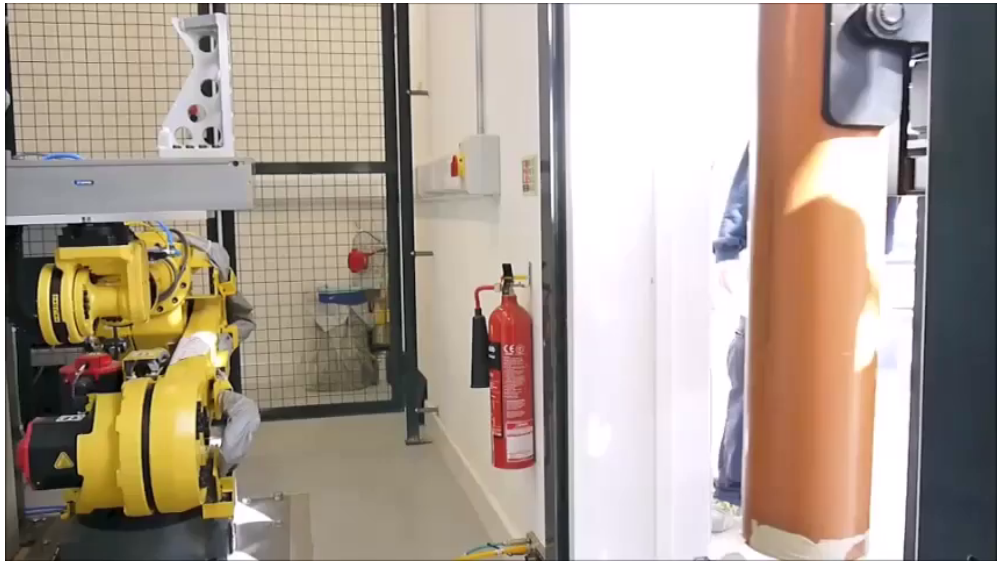
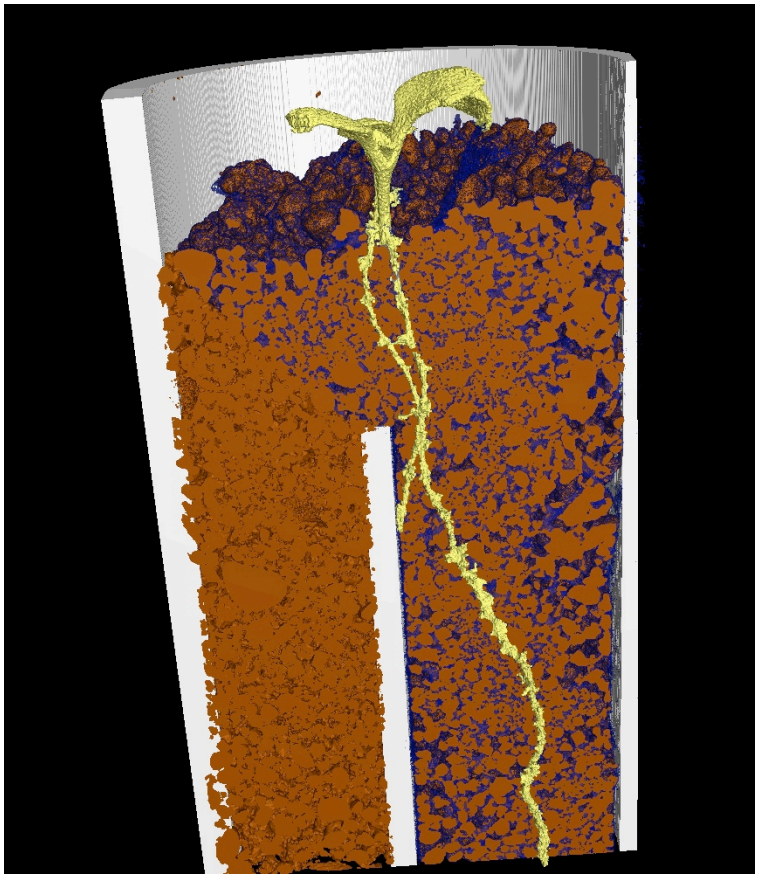
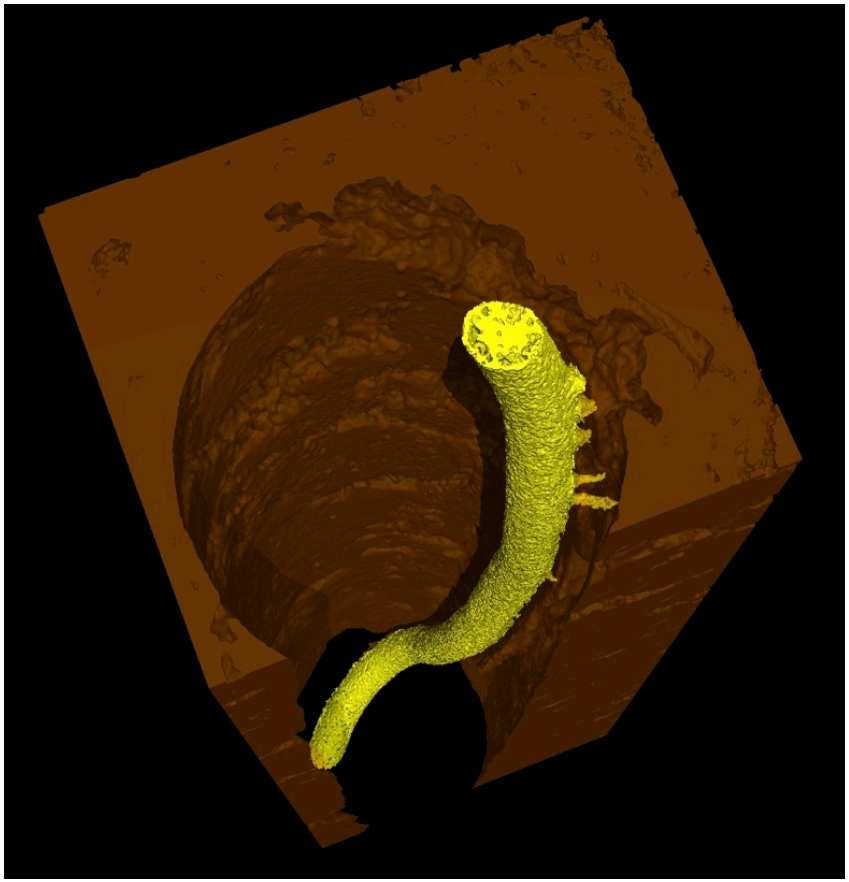


Root Adaptive Responses to Abiotic Stress

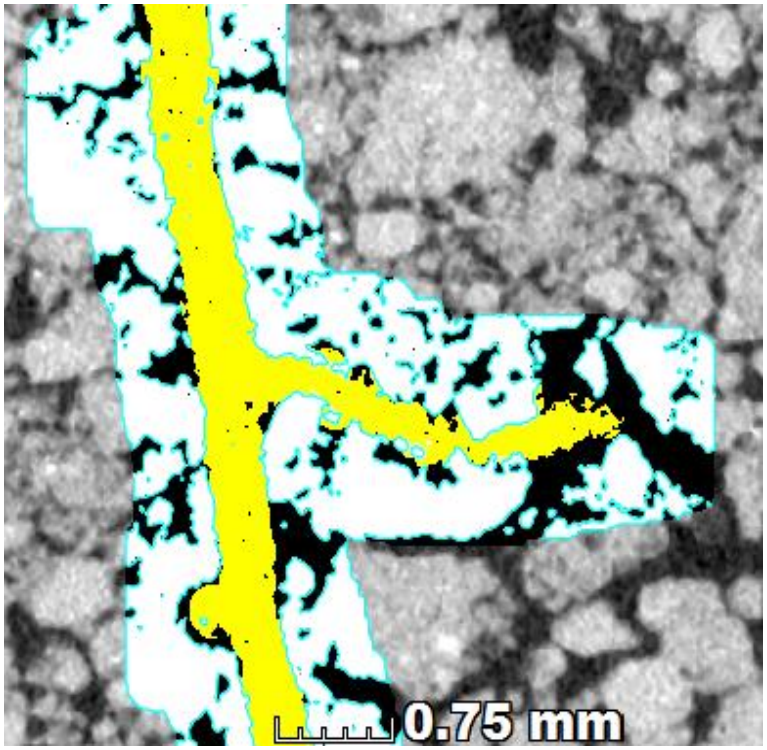


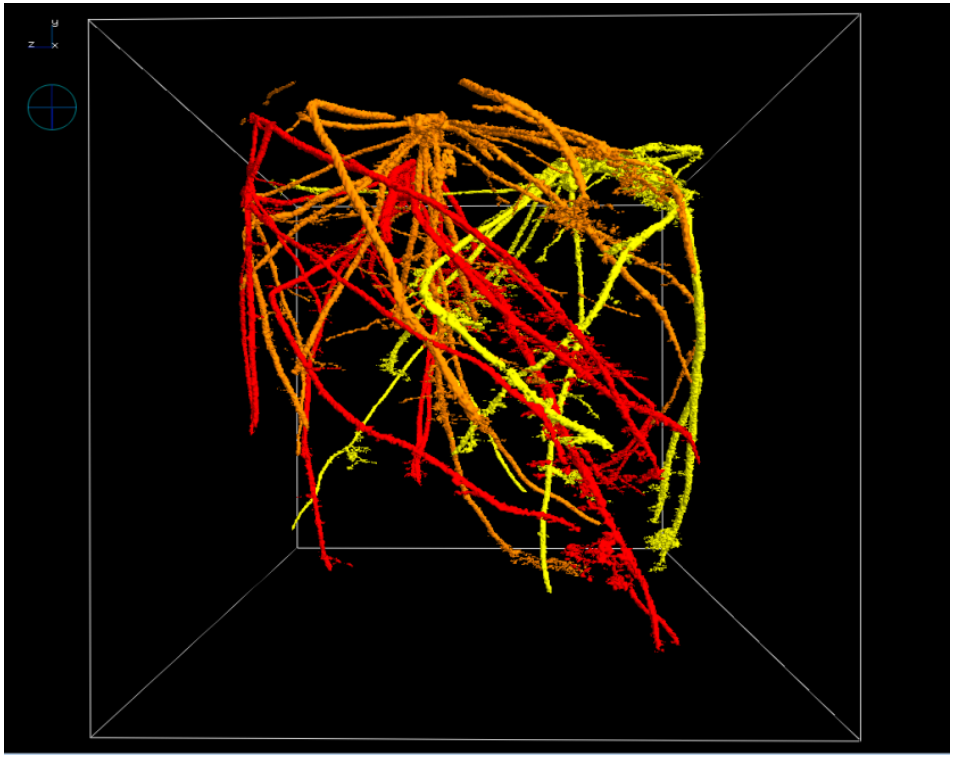
Hydrotropism



Hydropatterning

Probing Root-Environment Interactions





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