

Resource Summary Report

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WinRHIZO

RRID:SCR_017120

Type: Tool

Proper Citation

WinRHIZO (RRID:SCR_017120)

Resource Information

URL: http://regent.qc.ca/assets/winrhizo_software.html

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Description: Software toolbox for image analysis by Regent Instruments Inc. Used for root measurement in different forms like morphology, topology, architecture and color analyses. Automatically or interactively analyses washed roots.

Resource Type: data processing software, image analysis software, software application, software resource

Keywords: image, analysis, root, measurement, plant, morphology, topology, color, Regent Instruments Inc.

Availability: Available for purchase

Resource Name: WinRHIZO

Resource ID: SCR_017120

Record Creation Time: 20220129T080333+0000

Record Last Update: 20260919T195607+0000

Ratings and Alerts

No rating or validation information has been found for WinRHIZO.

No alerts have been found for WinRHIZO.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Zhang H, et al. (2026) Tillage management practices in combination of plant growth regulators to improve root growth, lodging characteristics and maize productivity under semi-arid regions. *Scientific reports*, 16(1), 1809.

Ochar K, et al. (2026) Quantitative analysis of root system architecture and fresh weight biomass traits highlight phenotypic variation in radish (*Raphanus sativus* L.) germplasm. *Scientific reports*, 16(1).

Lamlom SF, et al. (2026) Integrating morphophysiological traits with salt-responsive gene expression uncovers cultivar-specific tolerance mechanisms in faba beans facing NaCl stress. *Scientific reports*, 16(1).

Euler MF, et al. (2026) *Heterodera schachtii* enolase does not elicit canonical immune responses in *Arabidopsis thaliana*. *Scientific reports*, 16(1).

Das A, et al. (2025) Genome-wide association study reveals putative candidate genes in cucumber (*Cucumis sativus* L.) associated with shoot and root system architecture traits under water stress conditions. *BMC plant biology*, 25(1), 1260.

Li Y, et al. (2025) Differential effects of exogenous VOCs on the growth and stress responses of *Cunninghamia lanceolata* seedlings under low phosphorus. *BMC plant biology*, 25(1), 299.

Wang SW, et al. (2025) RGF Gene Family Analysis and Functional Evidence for RGF8-Mediated Salt Stress Tolerance in Brassica Species. *Biology*, 14(3).

Sacharow J, et al. (2024) *Acanthamoeba castellanii* alone is not a growth promoter for *Hordeum vulgare*. *Access microbiology*, 6(8).

Islam MS, et al. (2024) Identification of Quantitative Trait Loci Controlling Root Morphological Traits in an Interspecific Soybean Population Using 2D Imagery Data. *International journal of molecular sciences*, 25(9).

Hufnagel B, et al. (2024) Multi-trait association mapping for phosphorous efficiency reveals flexible root architectures in sorghum. *BMC plant biology*, 24(1), 562.

Singh V, et al. (2021) Genotypic Variability in Architectural Development of Mungbean (*Vigna radiata* L.) Root Systems and Physiological Relationships With Shoot Growth Dynamics. *Frontiers in plant science*, 12, 725915.

Scudeletti D, et al. (2021) *Trichoderma asperellum* Inoculation as a Tool for Attenuating Drought Stress in Sugarcane. *Frontiers in plant science*, 12, 645542.

Griffiths M, et al. (2021) A multiple ion-uptake phenotyping platform reveals shared mechanisms affecting nutrient uptake by roots. *Plant physiology*, 185(3), 781.

Duan B, et al. (2021) 1-Aminocyclopropane-1-Carboxylate Deaminase-Producing Plant Growth-Promoting Rhizobacteria Improve Drought Stress Tolerance in Grapevine (*Vitis vinifera* L.). *Frontiers in plant science*, 12, 706990.

Jochum MD, et al. (2019) Bioprospecting Plant Growth-Promoting Rhizobacteria That Mitigate Drought Stress in Grasses. *Frontiers in microbiology*, 10, 2106.

Lu J, et al. (2018) Phenotypic changes and DNA methylation status in cryopreserved seeds of rye (*Secale cereale* L.). *Cryobiology*, 82, 8.