

Poster 1. **Ladislav Bakay, Ján Kollár, Miroslava Kačániová, Tomáš Knotek (Slovakian Agricultural University)** Occurrence of stem burls on london plane tree linked to root problems - 5 case studies from Slovakia

Poster 2. **Maxi Bergmann, Awaz Mohamed, Jens Dyckmans, Boaz Hilman, Ina C. Meier (University of Hamburg)** Surplus C discharge by alternative root respiration responds to altered water levels in alluvial forests

Poster 3. **Ewa Błońska, Adam Górski, Jarosław Lasota (University of Agriculture in Krakow)** Effects of simulated drought on C/N/P stoichiometry and lignin decomposition dynamics in the deadwood–soil system temperate forests

Poster 4. **Jhonathan Ephrath, Xinze Xu, Ofer Ben-Tovim, Faina Khoroshevsky, Simon Barak, Naftali Lazarovitch (Ben-Gurion University of the Negev)** In situ Non-Destructive Imaging of Roots from GFP-Expressing Plants Using a Novel Fluorescence Minirhizotron with Automated Intensity Measurement and CNN-based TRL Estimation

Poster 5. **Simone Gelsinari, Federico Preti, Sally Thompson, Daniele Penna (UniFI - Università di Firenze)** Unseen Conduits: Inferring Woody Root Function and Hydraulic Redistribution in a Groundwater-Dependent Woodland via Sap Flow Monitoring

Poster 6. **Jarosław Lasota, Ewa Błońska, Jakub Krzaczkowski, Marżena Kaźmierczak, Anna Ilek (University of Agriculture in Krakow)** Assessing effects of tree root architectures on soil properties in uniform habitat conditions

Poster 7. **Chiara Pezzuto, Alberto Danieli, Alex Ceriani, Peter Beatrice, Gabriella Sferra, Tsvetana Masante, Gabriella Stefania Scippa, Dalila Trupiano, Antonio Montagnoli (University of Molise)** Root functional traits driving the response of *Populus nigra* L. to combined heat and drought stress

Poster 8. **Srijna Saxena, Alexandra Weigelt, Karl Andraczek (Leipzig University)** Fine root traits and their plasticity mediate drought resistance and tolerance in herbaceous plant species

Poster 9. **Liang Sun, Alexia Stokes, Kang Ji, Catherine Roumet, Florian Fort, Juan Zuo, Zhun Mao (Université de Montpellier)** Yielding is common in tensile-tested roots of herbaceous species: variation in yield strength and a candidate biomechanical indicator of root safety

Poster 10. **Ján Kováč, Hana Húdoková, Alena Sliacka Konôpková, Veronika Uhrinová, Jaroslav Ďurkovič (Technical University in Zvolen)** Anatomy of Suberin Deposition Patterns in Fine Root Dormancy and Dieback

Poster 11. **Katrin Pietig, Guntars O. Martinson, Erik A. Günther, Sandesh KC, Christian Ammer, Felix Heitkamp (Northwest German Forest Research Institute)**

Functional traits and decomposition dynamics of fine roots across four young and mature temperate forest species

Poster 12. **Alexandra Correia, Alexandra Nunes, António Galla, Joana Martins (INIAV - Instituto Nacional de Investigação Agrária e Veterinária, I.P.)** From Facilitation to Competition: Seasonal Shifts in Belowground Interactions Between Cork Oak and Stone Pine

Poster 13. **Douglas L. Godbold, Daria Ovsiannikova, Peter Beatrice, Alex Ceriani, Moldir Zhumagulova, Zhaniya Baimurza, Kuralai Mussayeva, Raushan Ramazanova, Antonio Montagnoli, Boris Rewald, Burenjargal Otgonsuren (Mendel University in Brno)** Ectomycorrhizas and root biomass of *Picea schrenkiana* in the Tian Shan mountains of Kazakhstan (EuAsiaN-ROOT).

Poster 14. **Federico De Angelis, Veronica Giorgi, Letizia Olivieri, Enrico Maria Lodolini, Davide Neri (Polytechnic University of Marche)** Preliminary assessment of localized zeolite and chabazite layers on root growth dynamics and plant performance in kiwifruit rhizotrons

Poster 15 **Keisuke Yanagi, Hidetoshi Ikeno, Yuto Tanaka, Souta Nakano, Chikage Todo, Toko Tanikawa, Keitaro Yamase, Mizue Ohashi, Masako Dannoura, Yasuhiro Hirano (Nagoya University)** Performance evaluation and limitations of YOLO11 based automatic root detection from GPR images of *Pinus thunbergii* in coastal forests

Poster 16 **Enkhchimeg Tsedensodnom, Donato Chiatante, Ser-Oddamba Byambadorj, Antonio Montagnoli, Narantugs Dulamsuren, Dolgorjav Dorj, Jargalsuren Uugan, Ganzorig Myagmar, Otgonsaikhan Byambasuren, Batkhoo Nyam-Osor (National University of Mongolia)** Fine Root Development and Seasonal Variation in *Populus sibirica* Tausch and *Ulmus pumila* L. in the Dry Steppe Region of Mongolia

Poster 17 **Batkhoo Nyam-Osor, Donato Chiatante, Ser-Oddamba Byambadorj, John A. Stanturf, Gabriella S. Scippa, Fabio Divino, Antonio Montagnoli, Enkhchimeg Tsedensodnom (National University of Mongolia)** A dendrometric approach for monitoring the growth and development patterns of both above- and belowground tree organs

Poster 18 **Filipe Costa e Silva, Clara Pinto, Alexandra Correia, Luís Fontes, João Pantaleão Cruz, Teresa Soares David (Universidade de Lisboa)** When Leaves Lead Roots: Above–Belowground Trade-offs in Eucalyptus Drought Response

Poster 19 **Friderike Beyer, Janna Wambsganss, Matthias Arend, Mladen Ognjenovic, Dominik Seidel, Martin Greve (University of Göttingen)** From Soil to Crown: Linking Fine-Root Morphology and Mycorrhizal Associations to Tree Crown Vitality

Poster 20 *Peter Beatrice, Alessio Miali, María Medina, Rubén Martín-Blázquez, Bruno Lasserre, Pasi Raunonen, Antonio Castellano-Hinojosa, Rafael Rubio de Casas, Antonio Montagnoli, Alexandro B. Leverkus (University of Insubria)* A coordinated multi-site approach to assess below-ground characteristics of seeding versus planting in climate-smart oak restoration sites

Poster 21 *Viktoriya Boycheva, Ivika Ostonen (University of Tartu)* Rooting Deep: relationship between fine root vertical distribution and SOC in Forest Ecosystems

Poster 22 *Kanazawa Hime, Taiga Masumoto, Yosuke Matsuda, Naoki Makita (Shinshu University)* Do protoxylem groups in fine-root systems explain the link between root anatomy and arbuscular mycorrhizal infection in *Chamaecyparis obtusa*?

Poster 23 *Linda Kochniss, Christina Marburger, Awaz Mohamed, Johanna Pausch, Ina Christin Meier (University of Hamburg)* Influence of tree species diversity and mycorrhizal type on the carbon transfer from fungal hyphae to forest soil

Poster 24 *Hana Koitabashi, Keitaro Yamase, Yasuhiro Hirano, Toko Tanikawa, Hidetoshi Ikeno, Chikage Todo, Masako Dannoura, Mizue Ohashi (University of Hyogo)* Characteristic of Clutter Occurrence in Root Detection using Ground-Penetrating Radar: Comparison of Mountain and coastal forests in Japan

Poster 25 *Tanja Mrak, Janez Kermavnar, Nataša Šibanc, Lado Kutnar, Petr Baldrian, Vendula Brabcová, Tijana Martinović, Martina Štursová (Slovenian Forestry Institute)* Belowground structure and function a decade after silvicultural treatment in Dinaric fir-beech forests

Poster 26 *William L. King, Benjamin D. Hafner, Jacob Scharfetter, Gillian Gomer, Andrea Pinochet, Terrence H. Bell, Marc Goebel, Taryn L. Bauerle (Cornell University)* Manipulating microbiomes to improve plant resilience to drought stress

Poster 27 *William L. King, Caylon F Yates, Lily Cao, Sean O'Rourke-Ibach, Suzanne M Fleishman, Sarah C Richards, Michela Centinari, Benjamin D. Hafner, Marc Goebel, Taryn Bauerle, Young-Mo Kim, Carrie D. Nicora, Christopher R Anderton, David M Eissenstat, Terrence H Bell (The Pennsylvania State University)* Delving deep: Leveraging multi-omics to unravel microbial associations with fine roots

Poster 28 *Ellen Svensson, Torgny Näsholm, Nils Henriksson (Swedish University of Agricultural Sciences)* Root morphological and anatomical responses to organic versus inorganic nitrogen in boreal tree species

Poster 29 *Ryunosuke Suwa, Yu Hirano, Naoki Makita (The University of Tokyo)* Rhizosphere modification vs. Root foraging: Distinct nutrient acquisition strategies of fine roots in ectomycorrhizal and ericoid mycorrhizal alpine woody plants

Poster 30 *Anna Frymark-Szymkowiak, Jolanta Tyburska-Woś (Kazimierz Wielki University)* The influence of urbanization on mycorrhizal colonization in yew (*Taxus baccata* L.) and elm (*Ulmus laevis* Pall.).

Poster 31 *Ilija Bićanin, Daria Ovsianikova, Tamara Vukanović, Burenjargal Otgonsuren, Martin Valtera, Pavlina Pancová Šimková, Douglas L. Godbold, Marian Schönauer, Boris Rewald (Mendel University in Brno)* Immediate Effects of Windstorm Disturbance on Root Traits and Ectomycorrhizal Communities in Central European Broadleaf Forests

Poster 32 *Burenjargal Otgonsuren, Enkhchimeg Tsedensodnom, Enkhjargal Enkhbat, Douglas Godbold, Antonio Montagnoli, Boris Rewald, Batkhuu Nyam-Osor, Georg Guggenberger, Olga Shibistova, Orgilbold Myangan, Sainchuluu Amarsanaa, Soyol-Erdene Tseren-Ochir, Sonomdagva Chonokhuu, Baigal-Amar Tuulaikhuu, Bayarmaa Khenchyakhav, Gerelbaatar Sukhbaatar, Saranzaya Gadiyana, Oyuntuya Sharavjamts, Chinzorig Radnaabazar 1, Khishigjargal Mookhor, Tuvshinbayar Danzan, Davaajav Dalkhsuren, Naranjargal Sukhragchaa, Ariunsuren Purevee, Martin Valtera, Marian Schönauer (Mongolian University of Life Sciences)* Fine Root Biomass Distribution and Depth Index Across Boreal Forest Species in Mongolia

Poster 33 *Erik Armin Günther, Katrin Pietig, Sandesh KC, Kerstin Pierick, Felix Heitkamp, Guntars O. Martinson, Christian Ammer (University of Göttingen)* Fine root mass shows species-specific vertical gradients in temperate managed forests

Poster 34 *Lucia Petrovičová, Jan Světlík, Soham Basu (Mendel University in Brno)* Cut Crowns, Stress Roots: Fine-Root Responses of Young Trees to Crown Reduction, Drought and Hydrogel Amendment

Poster 35 *Shersingh Joseph Tumber-Dávila, Junior Burks, Thomas Muratore (Dartmouth College)* Scaling woody root function: fine-root trait coordination, carbon allocation, and root system architecture under global change

Poster 36 *Willem Van Colen, Depraetere Dieter (Inagro vzw)* Long-term agroforestry research site in Flanders, Belgium, as a platform to study woody root-driven processes and their impact on ecosystem services and crop production under real farming conditions.

Poster 37 *Ana Caroline Miron Pereira, Daniela Yaffar, Tana E. Wood, Ina C. Meier (University of Hamburg)* Contrasting responses between arbuscular mycorrhizal and saprotrophic fungi to long-term experimental warming in a tropical wet forest

Poster 38 *Tseren-Ochir Soyol-Erdene, Zoljargal Tuvshin, Ulziibat Bilguun, Davaadorj Davaasuren, Gansaikhan Munkhjargal, Usukhjargal Dalaiikhuu, Oyunsanaa Byambasuren (National University of Mongolia)* Sustainable Green

Space Development in New Kharkhorum City: Soil Fertility, Irrigation Demand, and Environmental Assessment

Poster 39 *Dalaikhuu Usukhjargal, B.Bayarjargal, U.Uyanzul, Soyol-Erdene T.O* **(Botanical Garden and Research Institute of Mongolian Academy of Science)**

Integrated Approaches for Native Plant Restoration in Degraded Steppe and Gobi Ecosystems

Poster 40 *Ilani, T., J. Ephrath, M. Silberbush, P. Berliner* **((Ben-Gurion University of the Negev and Darom R&D, Besor Experimental station, Israel)** Nitrogen cycling and root dynamics in an agroforestry system