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M-1.1-2	A refined protocol for wheat and barley root phenotyping	Bartolo Giuseppe Dimattia[1]; Giuseppe Sangiorgi[1]; Daniele Rabboni[1]; Silvio Pierbattista[1]; Marco Maccaferri[1]; Alberto Tassinari[1]; Marco Bittelli[1]; Francesco Camerlengo[1]; Maria Hernandez-Soriano[2]; Roberto Tuberosa[1]; Salvi Silvio[1]	[1] University of Bologna; [2] John Innes Centre	Monday
M-1.1-3	Uncovering Plant Belowground Secrets: Enzymatic Activities in the Rhizosphere and on the Root of Quercus cerris L. in Urban Soil	Anna Gillini[1]; Nataliya Bilyera[2]; Dalila Trupiano[1]; Iryna Loginova[2]; Michaela Anna Dippold[2]; Gabriella Stefania Scippa[1]	[1] University of Molise; [2] University of Tuebingen, Geo-Biosphere Interactions	Monday
M-1.1-4	The influence of engineered biochar on root growth of annual and perennial crops from a physicochemical and morphophysiological perspective	Taza Gul	Aarhus University	Monday
M-1.1-5	Controlled Traffic Farming increased vegetable root intensity on a sandy loam	Margita Hefner[1]; Hanne Lakkenborg Kristensen[2]	[1] Organic Agricultural Sciences, University of Kassel; [2] Aarhus University	Monday
M-1.1-6	Rhizotrons for WISH-ROOTS- foraging root traits for healthier soils.	Josefine Kant; Tanja Ehrlich; Kerstin A Nagel; Borjana Arsova	Forschungszentrum Juelich	Monday
M-1.1-7	Soil structure and texture have an important impact on root morphology	Maxime Phalempin; Eva Lippold; Dr Steffen Schlüter; Doris Vetterlein	Helmholtz Centre for Environmental Research - UFZ	Monday
M-1.1-8	Effect of mucilage on mechanical properties in the rhizosphere as a function of water content	Ulla Rosskopf[1]; Daniel Uteau; Stephan Peth[1]	[1] Leibniz Universität Hannover	Monday
M-1.1-10	Mesh-based computational 3D model extraction of root architectures for cereal root phenotyping	Luis Torres-Cisneros[1]; Thomas Lang[1]; Mareike Weule[1]; Stefan Gerth	[1] Fraunhofer IIS, EZRT	Monday

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M-1.1-12	Restricted root growth caused by traffic induced soil compaction – a field study in wheat and maize	Elron Wiedermann MSc[1]; Laura Reinelt[1]; Lennart Rolfes[2]; Axel Don[1]	[1] Thünen-Institute of Climate-Smart Agriculture; [2] Thünen-Institute of Agricultural Technology	Monday
M-1.2-1	Syndrome “basses richesses” disease induced sectorial distribution of photoassimilates in sugar beet revealed by combined MRI-PET	Kwabena Agyei[1]; Justus Detring[2]; Ralf Metzner[1]; Gregor Huber[1]; Daniel Pflugfelder[1]; Omid Eini[2]; Mark Varrelmann[2]; Anne-Katrin Mahlein[2]; Robert Koller[1]	[1] Forschungszentrum Jülich GmbH; [2] Institute of Sugar Beet Research	Monday
M-1.2-2	RootXplorer: a deep learning-based 3D pipeline for high-throughput quantification of root system penetrability in multiple plant species.	Elohim Bello Bello; Suyash B. Patil; Ashish B. Rajurkar; Lin Wang; Shree Pariyar; Lucas Funaro; Elizabeth Berrigan; Kimberly Echegoyen; Samantha Bellier-Igasaki; Wolfgang Busch	Salk Institute for Biological Studies	Monday
M-1.2-3	Fate of carbon rhizodeposition across soil organic matter fractions in an improved ley with grasses, forbes and legumes	Ferdinando Binacchi; Carsten W. Mueller; Florian Wichern; Dorte Bodin Dresbøll; Frederik van der Bom		Monday
M-1.2-4	Root Segmentation Reimagined: Exploring Image Analysis for Root Biomass Phenotyping	Kyriaki Boulata; Olga Popovic; Kristian Thorup-Kristensen	University of Copenhagen	Monday

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M-1.2-6	Elucidating the interactions between belowground C allocation and iron cycling in the rice rhizosphere and implications for CH4 emissions	Alexine Ehlinger; Davide Patono; Luisella Celi; Prof Daniel Said Pullicino; Prof Daniel Said Pullicino	University of Torino	Monday
M-1.2-8	Enhancing root derived carbon input to soil by genotype selection: a case study for wheat varieties using a stable isotope approach.	Celia Fernández-Balado[1]; Tim Juchli[2]; Monika Toleikiene[3]; Juliane Hirte[2]; Jochen Mayer[2]; José Antonio González-Pérez[4]; Rebecca Hood-Nowotny[1]	[1] University of Life Sciences Vienna; [2] Agroscope; [3] Lithuanian Research Center for Agriculture and Forestry; [4] CSIC	Monday
M-1.2-9	Using aboveground proxies for root phenotyping in field experiments	Fatou Gning ; Kristian Thorup-Kristensen	University of Copenhagen	Monday
M-1.2-10	Seasonal variation in fine root respiration in Japan Alps: how do subalpine-trees use non-structural carbohydrates for root respiration?	Yuki Hashimoto; Taiga Masumoto; Takumi Ito; Koichi Takahashi; Naoki Makita	Shinshu University	Monday
M-1.2-11	Increasing root-derived soil carbon input to agricultural soils by variety selection of winter wheat	Henrike Heinemann[1]; Felix Seidel[1]; Axel Don[1]; Juliane Hirte[2]	[1] Thuenen Institute of Climate-Smart Agriculture; [2] Agroscope Switzerland	Monday

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M-1.2-13	The influence of iron plaque and root traits on organic carbon cycling in the rice root detritusphere	Sara Martinengo; Maria Sofia Lasagna; Alexine Ehlinger; Maria Martin; Luisella Celi; Daniel Said Pullicino	University of Torino	Monday
M-1.2-14	How does a combination of root-contrasted phenotypes of wheat affect C and N fluxes in the soil-plant system?	Christian Poll[1]; Adrian Lattacher[1]; Giulia Tosca[1]; Samuel Le Gall[2]; Holger Pagel[2]; Moritz Harings[2]; Youri Rothfuss[2]; Ellen Kandeler[1]	[1] University of Hohenheim; [2] Forschungszentrum Jülich GmbH	Monday
M-1.2-15	How does a 20% reduction in nitrogen fertilisation affect crop roots?	Laura Reinelt; Felix Seidel; Axel Don	Thünen Institute of Climate-Smart Agriculture	Monday
M-1.2-16	Coupling scales in process-based soil organic carbon modeling including dynamic aggregation	Nadja Ray[1]; Simon Zech; Alexander Prechtel	[1] Katholische Universität Eichstätt-Ingolstadt	Monday
M-1.2-17	Tree growth is better explained by absorptive fine root traits than transport root	Anvar Sanaei	Leipzig University	Monday
M-1.2-18	Total carbon and nitrogen exudation of barley, faba bean, potato and sweet potato-cultivars grown in different European soils	DI Henning Schwalm[1]; Carmen Escudero-Martinez[2]; Molly Brown[3]; Lawrie Brown[3]; David Roberts[3]; Susan Mitchell[3]; Ignacio Lozano Romero[4]; Natacha Bodenhausen[4]; Davide Bulgarelli[2]; Tim George[3]; Eva Oburger[1]	[1] University of Natural Resources and Life Sciences - BOKU Vienna; [2] University of Dundee; [3] James Hutton Institute; [4] FiBL Switzerland	Monday
M-1.2-19	Intercropping alters root exudation and hence phosphorus mobilization of the main crop maize	Ulrike Schwerdtner[1]; Marie Spohn[2]	[1] Bayreuth Center of Ecology and Environmental Research (BayCEER), University of Bayreuth; [2] Swedish University of Agricultural Sciences (SLU)	Monday

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M-1.3-1	Root mucilage enhances plant water use under combined soil and atmospheric drought	Asegidew Akale; Tina Köhler; Mohanned Abdalla; Mutez Ahmed	Technical University of Munich	Monday
M-1.3-2	Effect of breeding on root hydraulic properties of wheat and its impact on root water uptake: insights from a field experiment and modelling	Juan C Baca Cabrera[1]; Jan Vanderborght[1]; Dominik Behrend[2]; Thomas Gaiser[2]; Guillaume Lobet[1]	[1] IBG 3, Forschungszentrum Jülich GmbH; [2] INRES, University of Bonn	Monday
M-1.3-3	The variation in rice lateral root formation and its influence on water uptake	Helena Bochmann[1]; Dagmar van Dusschoten[1]; Uwe Rascher[1]; Amelia Henry[2]; Josefine Kant[1]; Johannes Auke Postma[1]	[1] Forschungszentrum Juelich/IBG-2; [2] International Rice Research Institute	Monday
M-1.3-4	The Impact of Arbuscular Mycorrhiza Fungi on Root-Soil Contact and Soil-Plant Hydraulics under Drought	Henri Braunmiller; Nicolai Koebernick; Mohanned Abdalla; Mutez Ali Ahmed	Technical University Munich	Monday
M-1.3-5	Identifying Root Traits to improve Climate Change Resilience in Potatoes	Molly Brown; Lawrie Brown; Clemence Daubin; Max Whisson; David Roberts; Susan Mitchell[1]; Brian Harrower; Tim George[1]	[1] The James Hutton Institute	Monday
M-1.3-6	A holistic approach of high-throughput non-destructive assessment of plant roots	Joelle Claussen; Eva Hufnagel; Mareike Weule; Luis Torres-Cisneros; Stefan Gerth	Fraunhofer Institute for Integrated Circuits IIS	Monday
M-1.3-7	Douglas-fir and western redcedar family tolerance to soil moisture extremes in greenhouse studies: survival, growth, and phenotypic adaptation.	Mike Cruickshank[1]; Cosmin Filipescu[2]	[1] Canadian Forest Service; [2] Natural Resources Canada	Monday

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M-1.3-9	How does root take up water from dried soil in maize plants?	Lei Ding	Earth and life institute, UCLouvain	Monday
M-1.3-10	Root-root interactions and deep water uptake in clover-grass intercropping	Dorte Bodin Dresbøll; Tomke Susanne Wacker; Viktor Gjerløv Hertz; Nawa Raj Dhamala	University of Copenhagen	Monday
M-1.3-11	Characterizing root system architecture traits for drought tolerance in grapevine rootstocks	Sam Dudley[1]; Isaac K. Uyehara[2]; Andrew McElrone[3]; Megan K. Bartlett[1]	[1] University of California Davis; [2] Center for the Advanced Study of Collective Behavior; [3] USDA - Agricultural Research Service	Monday
M-1.3-12	Root hairs enhanced rhizosheath formation of three cereal species but only affected shoot water relations of rice grown in drying soil.	Vasileios Giannakopoulos[1]; Jing Chen[2]; Ryan Edge[1]; Frank Hochholdinger[3]; Shin Taketa[4]; Jianchang Yang[2]; Ian Dodd[1]	[1] Lancaster University; [2] Yangzhou University; [3] University Bonn, Campus Klein-Altendorf; [4] Okayama University,	Monday
M-1.3-13	A whole plant scan: assessing the above and below-ground effects of waterlogging in European heritage barley	Joey Henchy; Saoirse Tracy; Sonia Negrão	University College Dublin	Monday
M-1.3-14	Sweet potato carbon allocation and storage roots formation in response to nitrogen depletion and drought	David Sampson Issaka; Gopika Shibu; Shimon Rachmilevitch	Ben-Gurion University of the Negev	Monday
M-1.3-15	Development of a standardized protocol for phenotyping of genotypic variation in sunflower root traits in response to drought stress	Laura Verena Junker-Frohn[1]; Henning Lenz[1]; Anna Galinski[1]; Boško Dedić[2]; Nemanja Ćuk[2]; Dragana Miladinović[2]; Kerstin Nagel[1]	[1] Forschungszentrum Jülich GmbH; [2] Institute of Field and Vegetable Crops Novi Sad	Monday

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M-1.3-17	Impact of the root hairs and soil texture in maize plant water relation under field conditions	Osman Mustafa Ahmed Osman[1]; Florian Stoll[2]; Asegidew Akale[3]; Andrea Carminati[2]; Mathieu Javaux[4]; Mutez Ahmed[3]; Jan Vanderborght[1]	[1] Forschungszentrum Juelich GmbH; [2] ETH Zürich; [3] TUM School of Life Sciences; [4] Université Catholique de Louvain-la-Neuve, Belgium	Monday
M-1.3-18	Intra- and interspecific root trait variation of four temperate forest tree species examined by excavation to 4 m depth	Katrin Pietig; Martyna Kotowska; Heinz Coners; Christoph Leuschner	Albrecht-von-Haller Institute for Plant Sciences, Georg-August-University Goettingen	Monday
M-1.3-19	Robust potato varieties for stable yield performance in changing climates: exploring the role of deep root system	Olga Popovic[1]; Kristian Thorup-Kristensen[2]	[1] Copenhagen University, Faculty of Science; [2] Copenhagen University	Monday
M-1.3-20	Natural variation in a nitrate tranceptor homolog NPF2.12 modulates root growth and nitrogen use efficiency in wheat and barley	Md. Nurealam Siddiqui[1,2], Jens Léon[1;] Agim Ballvora[1]	[1]University of Bonn, Germany; [2] Bangabandhu Sheikh Mujibur Rahman Agricultural University, Bangladesh	Monday
M-1.3-21	Seeing Unseen: Unveiling Novel Latent Insights in Image Data Through Algorithmic Root Traits (ART)	Mirza Shoaib	La Trobe University	Monday
M-1.3-22	Fine mapping and positional cloning of a major root system architecture QTL in maize	Alberto Tassinari[1]; Cristian Forestan[1]; Li Kai[1]; Silvia Giuliani[1]; Giuseppe Sangiorgi[1]; Claude Urbany[2]; Thomas Presterl[2]; Milena Ouzunova[2]; Pierangelo Landi[1]; Roberto Tuberosa[1]; Silvio Salvi[1]	[1] University of Bologna ; [2] KWS-KGaA, DEEI	Monday

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M-1.3-24	Root water uptake and plant transpiration dynamics are significantly distinctive	Dagmar van Dusschoten; Daniel Pflugfelder; Johannes Kochs	Forschungszentrum Juelich	Monday
M-1.3-25	Depth profiles of soil moisture and root length density governed by land use	Mengqi Wu; Tobias Klauder; Martin Schädler; Steffen Schlüter; Mika Tarkka; Doris Vetterlein	Helmholtz-Centre for Environmental Research - UFZ, Halle, Germany	Monday
M-1.3-26	Evaluation of Novel Soil Surfactants to Mitigate Drought Stress and Influence Beneficial Root Function of Creeping Bentgrass	Xunzhong Zhang[1]; Cale Bigelow[2]; Michael Fidanza[3]; Stan Kostka[4]; Nick Gadd[4]	[1] Virginia Polytechnic Institute and State University; [2] Purdue University; [3] Pennsylvania State University; [4] RhizoSolutions	Monday
Do-1.4-1	Arbuscular mycorrhizal fungus, Glomus mossae AOB2, improves maize plant growth	Olubukola Oluranti Babalola[1]; Oluwaseun Adeyinka Fasusi[2]; Adenike Eunice Amoo[3]; Ayansina Segun Ayangbenro[4]	[1] North-West University; [2] Kings University; [3] Edge Hill University; [4] North-west University	Thursday
Do-1.4-2	Effect of N released from root nodules of hairy vetch on N absorption of wheat in mixed cropping	Hiroyuki Daimon; Kan Tamaki; Nao Murata; Ayami Fujita; Daisuke Yoshimura; Takuji Seo; Toru Kira	Ryukoku University	Thursday
Do-1.4-3	Unravelling the barley genetic control of its associated microbiota	Carmen Escudero Martinez[1]; Henning Schwalm[2]; Molly Brown[3]; Lawrie Brown[3]; David Roberts[3]; Eva Oburger; Davide Bulgarelli[1]; Tim George[3]	[1] University of Dundee; [2] BOKU, University of Natural Resources and Life Sciences Vienna; [3] The James Hutton Institute	Thursday
Do-1.4-4	Assemblage and function of rhizosphere microbiome under drought stress during heterosis manifestation in maize	Ling Gu[1]; Xiaoming He[2]; Peng Yu[1]; Frank Hochholdinger[3]	[1] University of Bonn, Germany	Thursday

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Do-1.4-6	Responses and growth-promoting functions of maize root microbiome to soil salt stress	Xiaofang Huang	University of Bonn	Thursday
Do-1.4-7	Live imaging of root cells and organelles during microbe interactions	Amelia Keynton[1]; Jacob Calabria[1]; Vicky J. Waymouth[1]; Douglas R. Brumley[1]; Berit Ebert[2]; Michelle Watt[1]	[1] The University of Melbourne; [2] Ruhr University Bochum	Thursday
Do-1.4-8	Chinese cabbage Growth enhanced by Bacillus and low fertigation input is related to the enrichment of Lechevalieria in rhizosphere	Shi-Dong Li; Shi-Chang Zhang; Yu-Lu Zhang; Xiao-Jing Guo; Rong-Jun Guo		Thursday
Do-1.4-9	Managing plant-soil-microbiome interactions for grassland Nitrogen efficiency through plant diversity and biostimulants	Katie Martin[1]; Fiona Brennan[2]; Olaf Schmidt[1]; Saoirse Tracy[1]	[1] University College Dublin; [2] Teagasc, Environmental Research Centre	Thursday
Do-1.4-10	Quantfying the role of the hyphosphere microbiome in mycorrhizal potatoes	Susan Mitchell[1]; Hazel Surtees; David Roberts; Molly Brown; Lawrie Brown; Tim George[1]	[1] The James Hutton Institute	Thursday
Do-1.4-11	Hidden guardian revelations: the mysterious role of root-cap in biotic interaction	Abin Panackal George[1]; Krishna Kodappully Das[1]; Subiya Haque; Eswarayya Ramireddy	[1] Indian institute of science education and research Tirupati	Thursday
Do-1.4-12	Drought tolerant synthetic bacterial community from barley and wheat rhizosphere	Linda Rigerte[1]; Thomas Reitz; Anna Heintz-Buschart; Mika T. Tarkka	[1] UFZ Helmholtz Centre for Environmental Research	Thursday
Do-1.4-13	The relationship between volatile organic compounds and apple replant disease	Anne-Sophie Wachter[1]; Doris Vetterlein[1]; Alain Tissier[2]; Esther Armah Harding	[1] UFZ - Helmholtz Zentrum für Umweltforschung; [2] IPB Halle	Thursday

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Do-1.4-15	Ammonia-oxidizing bacteria rather than ammonia-oxidizing archaea dominate nitrification in a nitrogen-fertilized calcareous soil	Wenxin Zou[1]; Ming Lang[2]; Peng Yu[1]; Xinping Chen[2]	[1] University of Bonn; [2] Southwest University	Thursday
Di-1.5-1	Effect of available soil volume on root system architecture, plasticity and above ground growth in a pot experiment with barley	Luca Giovannini[2]; Fabiano Sillo[2]; Carla Díaz Tielas[3]; Jessica Clayton[1]; Raffaella Balestrini[2]; Adela Sánchez-Moreiras[3]; Doris Vetterlein[1]	[1] Helmholtz Centre for Environmental Research GmbH - UFZ; [2] National Research Council of Italy (CNR); [3] Universidade de Vigo	Tuesday
Di-1.5-2	Effect of combined submergence and cold stress on seedling establishment in direct seeded rice	Maurene Bombay[1]; Maribel Dionisio-Sese[2]; Evangelina Salcedo-Ella[3]; Abdelbagi Ismail[3]	[1] Forschungszentrum Jülich; [2] University of the Philippines-Los Baños; [3] International Rice Research Institute	Tuesday
Di-1.5-3	Functional Architecture of Fine Roots – A Tool for Adaptation in Changing Environment	Victoria Boycheva; Ivika Ostonen[1]	[1] University of Tartu	Tuesday
Di-1.5-4	Dual banded phosphorus: Plants digging deeper for phosphorus use efficiency	Olivia Brunton[1]; Jeffrey McCormick[2]; Rebecca Haling[3]; Jason Condon[2]; Stephanie Watts-Fawkes[4]	[1] CSIRO Charles Sturt University ; [2] Charles Sturt University; [3] CSIRO; [4] University of Adelaide	Tuesday
Di-1.5-5	Enhancing Fertigation Optimization Through Root Traits Phenotyping for Increased Productivity	Naftali Lazarovitch; Sharon Chemweno; Ephrath Jhonathan E	Ben Gurion University of the Negev	Tuesday
Di-1.5-6	Evaluation of the root traits in sugarcane legume intercropping under contrasting nitrogen and water availability in a tropical island.	Léa Chevalier[1]; Antoine Versini[2]; Pauline Viaud[3]; Sophie Graillot[4]; Christophe Jourdan[5]; Mathias Christina[3]	[1] eRcane; [2] cirad; [3] CIRAD, UPR AIDA, Montpellier, France; [4] SupAgro Montpellier; [5] CIRAD, UMR Eco&Sols	Tuesday

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Di-1.5-8	The effect of root hairs and soil substrate on the development of above ground vs below ground traits in maize in a 5-year field experiment	Jessica Clayton; Susanne Schreiter; Anne-Sophie Wachter M.Sc.; Eric Braatz; Doris Vetterlein	Helmholtz - Centre for Environmental Research - UFZ	Tuesday
Di-1.5-9	Cultivar differences in root system development and function of forage legumes	Nawa Raj Dhamala; Tomke Susanne Wacker; Viktor Gjerløv Hertz; Dorte Bodin Dresbøll	University of Copenhagen	Tuesday
Di-1.5-10	Studying the root responses of faba bean and barley cultivars to abiotic stresses related to climate change	Carla Díaz-Tielas[1]; Eva González García[1]; Sara González-Orenga[2]; Yedra Vieites-Álvarez[1]; Adela M Sánchez-Moreiras[1]	[1] Universidade de Vigo (IAA); [2] Universidade de Vigo / Universitat Politècnica de València	Tuesday
Di-1.5-11	Assessing Winter Cold Sensitivity and Growth Dynamics in Roots of European Broadleaf Tree Species in Response to Changing Winter Climate	Jana Hoppe[1]; Christoph Leuschner[1]; Lena Muffler-Weigel[2]; Robert Weigel[2]	[1] Georg-August-Universität Göttingen - Albrecht-von-Haller-Institute for Plant Sciences; [2] University of Bayreuth	Tuesday
Di-1.5-12	Variations in root anatomical traits along soil depth under coniferous trees: development of protoxylem groups within the fine root system	Sayaka Hosoi; Chika Asakura; Rin Sakashita; Taiga Masumoto; Naoki Makita	Shinshu University	Tuesday
Di-1.5-13	Automated analysis of maize root growth development using X-ray technology	Eva Hufnagel[1]; Joelle Claussen[1]; Jorge del Cueto[2]; Mareike Weule[1]; Stefan Gerth[1]; Christian Hermans[2]	[1] Fraunhofer Institute for Integrated Circuits IIS; [2] Université libre de Bruxelles	Tuesday
Di-1.5-14	Control of the root gravitropic set-point angle in barley	Gwendolyn K. Kirschner; Tracy A. Valentine; Timothy S. George	The James Hutton Institute	Tuesday

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Di-1.5-15	Family ties – root-root communications within the Solanaceae	Aye Nyein Ko[1]; Milena Oliveira[1]; Shikha Verma[1]; Omer Falik[2]; Shimon Rachmilevitch[1]	[1] The French Associates Institute for Agriculture and Biotechnology of Drylands, Ben-Gurion University of the Negev, Israel; [2] Achva Academic College, Israel	Tuesday
Di-1.5-16	Do maize (*Zea mays L.*) root trait adaptations to soil water limitations affect plant water use and yield stability under field conditions?	Tina Koehler[1]; Yunhee Kim[1]; Shu-Yin Tung[2]; Hannah Schneider[3]; Franziska Steiner[1]; Nicolas Tyborski[4]; Andreas J. Wild[4]; Johanna Pausch[4]; Mutez A. Ahmed[1]	[1] Technical University Munich; [2] Bavarian State Research Center for Agriculture (LfL); [3] Leibniz Institute for Plant Genetics and Crop Plant Research (IPK); [4] University Bayreuth	Tuesday
Di-1.5-17	Dynamics of fine root morphology of European beech (Fagus sylvatica) in sandy soils with different moisture regimes	Alexandra Koller; Goddert von Oheimb	Dresden University of Technology	Tuesday
Di-1.5-18	Transcriptomic Profiling Reveals Early Woody Root Responses to Mechanical Stress	Mohamed Kouhen	University of Molise	Tuesday
Di-1.5-19	Comparative Analysis of Suberin Lamellae Formation and Nutrient Uptake in Maize Roots under Potassium Deficiency: Soil vs. Hydroponic Growth Conditions	Tino Kreszies	University Göttingen	Tuesday
Di-1.5-20	Genetic variation of switchgrass root morphology plasticity across the continental U.S.	Bennet Krueger[1]; Joel Reyes-Cabrera[2]; Li Zhang; Weile Chen[3]; Jason Bonnette[4]; David Lowry[5]; John Reilley[6]; Rob Mitchell[7]; Francis Roquette[8]; Yanqi Wu[9]; Phillip Fay[7]; Thomas Juenger[3]; Felix Fritschi[1]	[1] University of Missouri - Columbia; [2] Texas A&M University ; [3] University of Texas at Austin; [4] University of Texas, Austin; [5] Michigan State University; [6] USDA Natural Resources Conservation Service; [7] USDA - Agricultural Research Service; [8] Texas A&M University and Texas AgriLife Research; [9] Oklahoma State University	Tuesday

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Di-1.5-21	Root resilience in sulphur-deficient conditions: exploring the role of pectin-modifying enzymes in Arabidopsis root	Monika Kubalová; Matyáš Fendrych	Charles University in Prague	Tuesday
Di-1.5-22	The role of plant diversity and plant and soil history on leaf and fine root defence traits.	Bassi Leonardo	Leipzig University	Tuesday
Di-1.5-23	Hypoxia-triggered endocytosis of PIN2 auxin efflux carrier control root bending in Arabidopsis	Anindya Majumder; Emese Eysholdt-Derzsó; Jennifer Selinski	Universität zu Kiel	Tuesday
Di-1.5-24	Breeding adaptive barley varieties with improved root systems through functional root phenotyping under drought stress	Babak Malekian[1]; Katarzyna Retzer	[1] BOKU, University of Natural Resources and Life Sciences Vienna	Tuesday
Di-1.5-25	Towards the genetic basis of cluster roots development in lupins	Hélène Pidon[1]; Bárbara Hufnagel[2]; Laurence Marquès[3]; Fanchon Divol[4]; Esther Izquierdo[1]; Benjamin Péret[4]	[1] INRAE - UMR IPSiM; [2] CIRAD - UMR AGAP; [3] University of Montpellier - UMR IPSiM; [4] CNRS - UMR IPSiM	Tuesday
Di-1.5-26	Impact of combined sulphur deficiency and drought stress on pea root system architecture, water and nutrient uptake.	Pratikshya Joshi[1]; Christian Jeudy[1]; Sylvie Girodet[1]; Delphine Aime[1]; Fanny Leroy[2]; Aude Tixier[1]; Karine Gallardo[1]; Marion Prudent[1]	[1] INRAE; [2] Normandie Université, Unicaen	Tuesday
Di-1.5-27	GWAS reveal candidate genes affecting root architectural traits and Phosphorus uptake under different phosphorous conditions in wheat	Vijay Rajamanickam[1]; Renu Pandey[1]; Amitha Mithra Sevanthi[2]; Krishnapriya Vengavasi[3]; Stéphanie M. Swarbreck[4]; Viswanathan Chinnusamy[1]; Viswanathan Chinnusamy[1]; Nisha Singh[5]; Tally Wright[6]	[1] ICAR-Indian Agricultural Research Institute; [2] ICAR-National Institute for Plant Biotechnology; [3] ICAR-Sugarcane Breeding Institute ; [4] National Institute of Agricultural Botony; [5] Gujarat Biotechnology University; [6] National Institute of Agricultural Botany	Tuesday

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Di-1.5-28	Genetic control of radicle attributes in a maize (Zea mays L.) double haploid population under simulated drought	Scolari Luca MariA[1,2], Bienert GP[2] and Gutjahr C[1,3]	[1] Plant Genetics, TUM School of Life Sciences; [2] Crop Physiology, TUM School of Life Sciences; [3] Root Biology and Symbiosis Max-Planck-Institute of Molecular Physiology, Germany	Tuesday
Di-1.5-29	Root development strongly affected the distribution of amino-N and an activity of the N-acquiring enzyme in the rhizosphere	Guoting Shen[1]; Andrey Guber; Evgenia Blagodatskaya	[1] UFZ Helmholtz Centre for Environmental Research	Tuesday
Di-1.5-30	Species-specific uptake of inorganic and organic nitrogen by fine root system in alpine forest	Ryunosuke Suwa; Takumi Ito; Hiroki Iwata; Naoki Makita	Shinshu University	Tuesday
Di-1.5-31	Genotypic Diversity in Sugarcane Root Phenes: Exploring the Saccharum Complex and Allied Genera under Drought and Waterlogging Stress	Krishnapriya Vengavasi[1]; Karpagam Elumalai; Raja Arunkumar; Gomathi Raju; Vasantha Srinivasavedantham; Chandran Kookal; M Nisha; R Gopi; B Mahendran; Anusha Shareef; Vinu Vazhakkannadi; Alagupalamuthirsolai Muthalagu	[1] Indian Council of Agricultural Research - Sugarcane Breeding Institute	Tuesday
Di-1.5-32	Phosphorus absorption kinetics and exudation strategies of roots developed by three lupin species to tackle P deficiency	Ruixin Wang[1]; Wasaki Jun[1]; Sachiko Funayama-Noguchi[2]; Zilin Xiong[1]; Christiana Staudinger[3]	[1] Hiroshima University; [2] The University of Tokyo; [3] University of Natural Resources and Life Sciences (BOKU) Vienna	Tuesday
Di-1.5-33	CO_2 Dynamics in the Rhizosphere of Aquatic and Terrestrial Littorella uniflora (L.) Lifeforms	Monica Wilson[1], Alina Frei[1], Nikola Lenzewski[1], Kai Jensen[1], Ketil Koop-Jakobsen[2]	[1]University of Hamburg, [2]The Ecosystems Center, Marine Biological Laboratory, USA	Tuesday
Di-1.5-34	Regulation of the root foraging response to low nitrogen in Arabidopsis thaliana by a MYB-like transcription factor	Lulu Wu; Ricardo F. H. Giehl; Nicolaus von Wirén	Leibniz Institute of Plant Genetics and Crop Plant Research (IPK)	Tuesday

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Di-1.5-35	The efficient nitrogen use in intercropping is accounted for partly by plasticity of crop roots	Hao Yang[1]; Hua-Sen Xu; Wei-Ping Zhang; Ye Su; Surigaoge Surigaoge; Hans Lambers; Long Li	[1] China Agricultural University (CAU)	Tuesday
Di-1.5-36	A newly evolved rice-specific gene JAUP1 regulates jasmonate biosynthesis and signaling to promote root development and multi-stress tolerance	Adnan Muzaffar[1,2], Yi-Shih Chen[2], Hsiang-Ting Lee[1,2], Cheng-Chieh Wu[3], Tuan-Hua David Ho[3,4] and Su-May Yu[1,2,4]	[1] Academia Sinica, and Graduate Institute of Life Science, National Defense Medical Center, [2/3]Academia Sinica, [4]National Chung Hsing University, Taiwan	Tuesday
Di-1.5-37	Roots in action: early respons-omics of tomato roots to low Fe availability depend on the applied N form	Arianna Lodovici[1], Nicola Tomasi1, Fabio Marroni[1], Biancamaria Senizza[2], Leilei Zhang[2], Mustapha Arkoun[3], Luigi Lucini2, Laura Zanin[1]	[1] University of Udine, Udine, Italy; [2] Università Cattolica del Sacro Cuore, Piacenza, Italy; [3] Centre Mondial d'Innovation of Roullier Group, Saint-Malo, France.	Tuesday
Di-1.5-38	Exploring the interplay of shoot-to-root hydraulic conductance in varying soil water contents and textures	Mohsen Zare[1]; Samantha Spinoso Sosa; Ruth Adamczewski; Benjamin Hafner	Technical University Munich, Germany	Tuesday
Di-1.5-39	Deciphering the epigenetic and molecular logic of WOX5 function in the root columella stem cell niche of Arabidopsis thaliana	Ning Zhang; Pamela Bitterli; Peter Oluoch; Ernst Aichinger; Edwin Groot; Marita Hermann; Thomas Laux	Universität Freiburg	Tuesday
Di-1.5-40	Deciphering the mechanism of root development in wheat triggered by dosage changes in monocot-specific genes (OPRIII)	Gilad Gabay	Ben-Gurion University of the Negev, Israel	Tuesday
Di-1.5-41	Root plasticity in RhizoChip microfluidics devices as soil analogs using time-series analysis with an extended RhizoVision Explorer	Larry York	Oak Ridge National Laboratory, USA	Tuesday

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Di-1.6-1	Maize is tailoring its rhizosphere properties to varying soil textures and moistures	Ruth Adamczewski[1]; Anders Kaestner[2]; Mohsen Zarebanadkouki[1]	[1] Technical University Munich, School of Life Science, Soil Biophysics and Environmental Systems ; [2] Paul-Scherrer-Institute, Switzerland	Tuesday
Di-1.6-2	Understanding the Rhizosheath: Opportunities for Manipulating the Soil Root Interface	Tim George [1]; Lawrie Brown	[1] The James Hutton Institute	Tuesday
Di-1.6-3	Rhizosphere organic matter composition of maize controlled by root traits and soil properties	Martina Gocke[1]; Andrea Scheibe[2]; Eva Lehndorff[2]	[1] University of Bonn, Institute of Crop Science and Resource Conservation (INRES), Soil Science and Soil Ecology; [2] University Bayreuth, Soil Ecology	Tuesday
Di-1.6-4	Visualizing and quantifying 33P uptake by maize plants grown in soil	Maire Holz[1]; Mohsen Zarebanadkouki; Eva Mundschenk; Valerie Pusch; Rainer Remus; Eva Oburger; Christiana Staudinger; Matthias Wissuwa	[1] Leibniz Center for Agricultural Landscape Research (ZALF	Tuesday
Di-1.6-5	Leave the slow behind! Ontogeny-driven fine root trait variation in the field	Adam Hrouda[1]; Timothy Harris[2]; Andrea Kučerová[2]; Jitka Klimešová CSc[2]	[1] Faculty of Science, Charles University in Prague; [2] Institute of Botany Czech Academy of Sciences	Tuesday
Di-1.6-7	Microbial community assembly within single aggregate in response to soil texture and density	Bei Liu; Christoph Tebbe; Eva Lippold; Maxime Phalempin; Doris Vetterlein		Tuesday
Di-1.6-8	Unraveling phosphorus mobilization in White Lupine: Exploring soil dynamics and Low-phosphorus responses at specific root locations	Ayane Kan[1], Hayato Maruyama[1], Nao Aoyama[1], Jun Wasaki[2], Yoshiko Tateishi[2], Toshihiro Watanabe[1], Takuro Shinano[1]	[1] Hokkaido Univ. Sapporo, Japan, [2]Hiroshima Univ. Higashi-Hiroshima, Japan	Tuesday
Di-1.6-9	Root system architecture mutants and genes in barley reveal new mechanisms of root growth and response to gravitropism	Silvio Salvi	University of Bologna, Italy	Tuesday

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Di-1.6-10	Temporal visualization of root morphology effects on carbon exudation via laser ablation-isotope ratio mass spectrometry	Anna-Lena Prommersberger; Andrea Scheibe[1]; Andrei Rodionov; Eva Lehndorff	[1] University Bayreuth	Tuesday
Di-1.6-11	Trait-based Modeling of Microbial Interactions and Carbon Turnover in Rhizosphere	Ahmet Sircan[1]; Thilo Streck[1]; Andrea Schnepf[2]; Holger Pagel[3]	[1] University of Hohenheim; [2] Forschungszentrum Jülich; [3] Forschungszentrum Jülich, / University of Bonn	Tuesday
Di-1.6-12	Spatiotemporal phosphorus deficiency responses in B73 wild-type maize (Zea mays L.) and its root-hairless (rth3) mutant	Ariel Tasca; Anna Kulbashna; Thomas D. Alcock; Gerd Patrick Bienert	Technical University of Munich	Tuesday
Di-1.6-13	Nutritional properties of cluster root forming woody plants grown in poor nutrient soils in western Japan.	Jun Wasaki; Takeshi Aihara; Tadashi Okamura; Hirotsuna Yamada; Hiromi Tsubota	Hiroshima University	Tuesday
Do-2.1-1	Studying plant-microbe interactions for improved plant abiotic resistance, in systems of progressive complexity	Stefan Sanow; Allene Macabuhay; Olha Kapitanska; Josefine Kant; Henning Lenz; Tanja Ehrlich; Jana Kelm; Maria Maria Hernandez-Soriano; Pitter Huesgen; Kersin Nagel; Ute Roessner; Michelle Watt; Borjana Arsova		Thursday
Do-2.1-2	Management of nitrogen fertilization and application of biostimulants as key factors to improve root growth	Heike Hahn; Katrin Kannenberg; Thomas Kreuter; Carola Schuster	SKW Stickstoffwerke Piesteritz GmbH	Thursday
Do-2.1-3	Bioinspired Rice Root Architecture: Unveiling Sustainable Solutions for Food Security	Vedika Joshi; Shri Ram Yadav	Indian Institute of Technology, Roorkee, India	Thursday

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Do-2.1-4	Linking Root System Traits from lab to field by Genomic Prediction as a cost - effective option for rice improvement under abiotic stress	Lukas Krusenbaum; Matthias Wissuwa	University of Bonn (INRES)	Thursday
Do-2.1-5	Elucidating rhizosphere processes in a short rotation forestry field experiment in a former Uranium mining area	Sarah Nettemann; Johanna Ziethe; Peter Wiemuth; Erika Kothe[2]; Thorsten Schäfer	Friedrich Schiller University Jena	Thursday
Do-2.1-6	Distribution and phylogeny of groundnut (*Arachis hypogaea L.*) nodulating microsymbionts from Ghana and South Africa.	Titus Ngmenzuma; Dapaare Felix Dakora	Tshwane University of Technology,Pretoria South Africa	Thursday
Do-2.1-7	Translating roots from rhizotron tubes to the field: assessing genotype variability of deep rooting across scales	Arnesta Odone	Copenhagen University	Thursday
Do-2.1-8	Evaluating the effect of the sampling solution volume and the suitability of the microbial activity inhibitor Micropur on root exudation	Uxue Otxandorena Ieregi; Michael Santangeli; David Aleksza; Eva Oburger	University of Natural Resources and Life Sciences, Vienna, Austria	Thursday
Do-2.1-9	Using simple microfluidics approaches for the investigation of root-microbe interactions	Daniel Patko[1]; Beatriz Meza Manzaneque MA[2]; Lionel Dupuy[3]; Lourdes Basabe-Desmonts[1]; Fernando Benito-Lopez[1]	[1] University of the Basque Country (UPV/EHU); [2] NEIKER-Tecnalia; [3] Neiker and Ikerbasque, Basque Foundation for Science, Spain	Thursday
Do-2.1-10	Is root exudation affected by root tissue type and location along the root?	Michael Santangeli; Flora Brumen; Alireza Golestanifard; Eva Oburger	BOKU, University of Natural Resources and Life Sciences Vienna	Thursday

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Do-2.1-11	Back to the roots: Standardizing root length density terminology and units	Tomke Susanne Wacker[1]; Frederik van der Bom[1]; Benjamin M Delory[2]; Doris Vetterlein[3]; Andrew Leakey[4]; Johannes Auke Postma[5]; Sibghat Ullah[6]; Daniel Leitner[6]; Andrea Schnepf[6]; Dorte Bodin Dresbøll[1]	[1] University of Copenhagen; [2] Leuphana University of Lüneburg; [3] Helmholtz-Centre for Environmental Research – UFZ; [4] University of Illinois at Urbana-Champaign; [5] Forschungszentrum Juelich/IBG-2; [6] Forschungszentrum Juelich/IBG-3	Thursday
Do-2.2-1	In situ soil imaging, a tool for monitoring the hourly to monthly temporal dynamics of soil biota around the roots	Emma Belaud[1]; Christophe Jourdan[1]; Mickael Hedde[2]	[1] CIRAD, UMR Eco&Sols; [2] INRAE, UMR Eco&Sols, Montpellier, France	Thursday
Do-2.2-2	Modelling the spread of exudates around a growing root system under field conditions within one growing season	Magdalena Landl[1]; Michael Santangeli[2]; Mona Giraud[3]; Daniel Leitner[4]; Eva Oburger; Doris Vetterlein[5]; Andrea Schnepf[3]	[1] FZ Jülich; [2] Universität für Bodenkultur Wien; [3] Forschungszentrum Jülich IBG-3: Agrosphere; [4] Forschungszentrum Juelich/IBG-3; [5] UFZ Helmholtz Center for Environmental Research	Thursday
Do-2.2-3	Modeling the influence of soil and root properties on the spatial dispersal of carbon in the rhizosphere	Maximilian Rötzer[1]; Alexander Prechtel[2]; Nadja Ray[3]	[1] Universität Erlangen-Nürnberg ; [2] Universität Erlangen-Nürnberg; [3] Katholische Universität Eichstätt-Ingolstadt	Thursday
Do-2.2-4	Investigating relationships between 3D pore space morphology and soil gas diffusion based on data-driven spatial modeling	Benedikt Prifling[1], Matthias Weber[1], Nadja Ray[2], Maximilian Rötzer[3], Alexander Prechtel[3], Maxime Phalempin[4], Steffen Schlüter[4], Doris Vetterlein[4], Volker Schmidt[1]	[1] Ulm University, [2]Catholic University of Eichstätt-Ingolstadt, [3U]niversity of Erlangen–Nürnberg, [4]UFZ Halle	Thursday
Do-2.3-1	What methods to assess root architecture traits in the field? Phenotyping toolbox from Root2Res project	Katia Beauchene; Florent Chlebowski; Jean Pierre Cohan	ARVALIS	Thursday

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Do-2.3-3	Root Length Estimation: Automated MR Image Analysis with Convolutional Networks (CNN) without Segmentation	Jhonathan Ephrath[1]; Kaining Zhou; Faina Khoroshevsky[1]; Ofer Hadar[1]; Yael Eidan[1]; Naftali Lazarovitch[1]	[1] Ben-Gurion University of the Negev	Thursday
Do-2.3-4	Dual chamber rizotron with means for the control and assessment of root growth	Vicente Espinosa -Hernandez; Juan Espinosa-Gonzalez	Colegio de Postgraduados	Thursday
Do-2.3-5	Enhancing root studies by DNA barcoding: a first step for a species-specific identification of Quercus cerris by PCR primers development.	Daniele Fantozzi; Dalila Trupiano; Gabriella Stefania Scippa; Gabriella Sferra	University of Molise	Thursday
Do-2.3-6	Phenotypic and genetic diversity of root traits in recombinant barley inbred lines	Shiyan Jia[1]; Henning Lenz[1]; Benjamin Stich[2]; Kerstin A. Nagel[1]; Fabio Fiorani[1]	[1] IBG-2, Forschungszentrum Jülich; [2] Julius Kühn Institute (JKI) - Federal Research Centre for Cultivated Plants	Thursday
Do-2.3-7	Unearthing Plant Belowground Community Composition in Cover Crop Mixtures	Emma Rice[1]; Terrence Bell[2]; Liana Burghardt[1]; Jason Kaye[1]; Carolyn Lowry[1]	[1] Pennsylvania State University; [2] University of Toronto Scarborough	Thursday
Do-2.3-8	A systematic review dissecting fine and coarse root functional traits' studies to enhance urban forests monitoring and management	Daniele Fantozzi[1]; Antonio Montagnoli[2]; Dalila Trupiano[1]; Paolo Di Martino[1]; Gabriella Stefania Scippa[1]; Gustavo Agosto[2]; Donato Chiatante[2]; Gabriella Sferra[1]	[1] University of Molise; [2] University of Insubria	Thursday
Do-2.3-9	Tensile strength measurements of single roots from grasses and wildflowers for slope stabilisation	Monika Sobotik[1]; Margarita Himmelbauer[2]; Willibald Loiskandl[2]; Rosemarie Stangl[2]	[1] Pflanzensoziologisches Institut; [2] BOKU, University of Natural Resources and Life Sciences Vienna	Thursday

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Do-2.3-11	A newly evolved rice-specific gene JAUP1 regulates jasmonate biosynthesis and signaling to promote root development and multi-stress tolerance	Simmon Pree	BOKU Wien, Austria	Thursday
Do-2.4-1	Preferential Flow and Transport in the Root Zone of Agricultural Crops	Ishank Agarwal; Saumyen Guha; Richa Ojha	Indian Institute of Technology Kanpur	Thursday
Do-2.4-2	Fine root economic strategies and the link to plant N nutrition	Joana Bergmann; Simon Lewin; Steffen Kolb; Maire Holz	Leibniz Centre for Agricultural Landscape Research	Thursday
Do-2.4-3	Root traits, Fe plaque kinetics and P uptake by rice plants	Sara Martinengo; Michela Schiavon; Maria Martin; Luisella Celi; Daniel Said-Pullicino	University of Turin	Thursday
Do-2.5-1	Automatic tracking of root apex diameters and elongation rates using image analysis	Valentin Aillery; Eric Roy; Gaëtan Louarn	INRAE	Thursday
Do-2.5-2	How root traits predict plant-plant interactions in an Australian biodiversity hotspot?	Wing Man Siu	The University of Melbourne	Thursday