



National Research
Council of Italy



Soil Biological Communities and Aboveground Resilience

MEETING PROGRAMME

COST Action FP1305 BioLink:
Linking belowground biodiversity and ecosystem function in
European forests

3rd Annual Meeting

Rome, 17-19 November 2015





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*Soil Biological Communities and Aboveground Resilience
The 3rd annual meeting of FP1305 Biolink Cost Action
Rome, 17-19 November 2015*

Organizing and Scientific Committee:

- Mauro Gamboni **CNR-DiSBA**, National Research Council of Italy, Department of Biology, Agriculture and Food Sciences
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- Anna Barra Caracciolo **CNR-IRSA**, National Research Council of Italy, Water Research Institute, **Rome, Italy**
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Practical Information

MEETINGS:

First day, Tuesday, 17 November 2015

Registration, Welcome, Workshop and Refreshment: Starting: 4:00 pm

Where: Società Geografica Italiana (Italian Geographical Society), via della Navicella 12, Rome (near the Colosseum, see Map)

Expected to end: 8:30 pm

Second day, Wednesday, 18 November 2015

Registration, Plenary sessions, WG Biolink meetings

Starting: 9:00 am

Where: CNR Headquarter (see Map)

Expected to end: 6:00 pm

Dinner (offered by Biolink) Starting: 7.30 pm

Where: Royal Art Café Restaurant in the City Center near Colosseum, Piazza del Colosseo, 1.

Third day, Thursday, 19 November 2015

Registration, Plenary sessions, WG Biolink meetings, Closing Event

Starting: 9:30 am

Where: CNR Headquarters (see Map)

End of Meeting: 6.00 pm

6.00 pm-8.00 pm Optional Programme Visit of Rome: "Squares & Fountains".



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Meeting programme

Day 1, 17th November (Tuesday)

Italian Geographical Society, Villa Celimontana, via della Navicella 12, Rome

- 16:00-18:30 Registration
- 17:00-17:15 Opening Ceremony and Meeting Introduction by **Anna Benedetti**, Head of Research Centre for the Soil-Plant System, CREA-RPS, Italy
Soil Global partnership
- 17:15-17:30 Welcome speech by **Pierfrancesco Sacco**, Italian Ambassador to FAO, leader of Italy's permanent Delegation at the Organizations of the United Nations
- 17:30-18:15 Main Lecture by **Stefano Grego**, World Agricultural Heritage Foundation (WAHF), Rome; University of Tuscia Viterbo, Italy
Transdisciplinary Approaches for Building a New Sustainable and Resilient Agroecosystem
- 18.15-18:30 Discussion
- 18:30-20:00 Refreshments

Day 2, 18th November (Wednesday)

CNR, Piazzale Aldo Moro 7, Aula Convegni

- 09:00-09:30 Welcome
Mauro Gamboni, Head of the Sustainable Agriculture Project, Biology, Agriculture and Food Sciences Dept., CNR, IT, Biolink WG3 Coordinator
Francesco Loreto, Head of Biology, Agriculture and Food Sciences Dept., CNR, IT
Massimo Iannetta, Head of Biotechnologies and Agro-Industry Division, ENEA, IT
Stefano Bisoffi, Scientific Director of the Council for Agricultural Research and Analysis of Agricultural Economics, CREA, IT
- 09:30-11:00 Plenary Session, Part 1**
Chairs: *Douglas Godbold*, Institute of Forest Ecology, Forest and Soil Sciences Dept., Natural Resources and Life Sciences Univ.- BOKU, Vienna, AT, Biolink WG1 Coordinator
Aurelio Ciancio, CNR, Institute of Sustainable Plant Protection (CNR-IPSP), Bari, IT
- 09:30-09:55 **Brian S. Griffiths**, SRUC, Crop and Soil Systems Research Group, Edinburgh EH9 3JG, UK
An overview of the resilience of soil microbial processes and the interactions with above-ground processes



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- 09:55-10:20 **Erica Lumini**, CNR-Institute for Sustainable Plant Protection (CNR-IPSP), Turin, IT
Unravelling Soil Fungal Communities from Different Land-Use Backgrounds
- 10:20-10:40 **Beat Frey**, Swiss Federal Research Institute WSL, Birmensdorf, CH
Resistance and resilience of the forest soil microbiome to logging-associated compaction
- 10:40-11:00 **Luis G. García-Montero**, Forest Engineering Dept., E.T.S.I. Montes, Technical University of Madrid (UPM), Madrid, ES
Could mycorrhizae perform “ecosystem engineering” on the host plants? Basis on rhizoculture of agroforestry systems to improve their resilience
- 11:00-11:30 Coffee break**
- 11:30-13:00 Plenary Session, Part 2**
Chairs: *Johannes Rousk*, Lund Univ., Biology Dept., MEMEG, LUND, SE, Biolink WG2 Coordinator
Anna Barra Caracciolo, CNR, Water Research Institute (CNR-IRSA) Rome IT
- 11:30-11:55 **Jose Julio Ortega-Calvo**, Instituto de Recursos Naturales y Agrobiología de Sevilla, CSIC, Sevilla, ES
Microbial and plant influences on bioavailability of hydrophobic organic pollutants in soil
- 11:55-12:20 **Andrey Yurkov**, Leibniz-Institute DSMZ - German Collection of Microorganisms and Cell Cultures, Braunschweig, DE
Diversity, distribution and functions of yeasts in soils
- 12:20-12:40 **Petr Baldrian**, Laboratory of Environmental Microbiology, Institute of Microbiology of the ASCR, Prague, CZ
Tracing the activity of individual microbial taxa in forest soils
- 12:40-13:00 **Luis Merino-Martín**, INRA, UMR AMAP, Montpellier, France and Centre for Ecology & Hydrology, Crowmarsh Gifford, Wallingford, Oxfordshire, UK
Understanding the factors driving soil aggregate stability: the role of plant-soil-root-microbe interactions
- 13:00-14:00 Lunch**
- 14:00-16:30 WG Meetings, Part 1:**
(RESERVED ONLY TO BIOLINK COST MEMBERS)
WG1: Aula Convegna
WG2: Aula Golgi
WG3: Aula Silvestri
WG4: Aula Giacomello
- 16:30-17:00 Coffee Break**
- 17:00-18:00 MC Meeting: Aula Convegna**
- 19:30-22:00 Conference dinner, *Royal Art Café Restaurant*, Piazza del Colosseo, 1.



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Day 3, 19th November (Thursday)

CNR, Piazzale Aldo Moro 7, Aula Convegni

- 08:30-09:20** **Guided tour of selected e-Posters**
Chair: *Alessandra Lagomarsino*, CREA-ABP, Agrobiology and Pedology Research Centre, Florence, IT (see list in the following pages)
- 09:30-11:00** **Plenary Session, Part 3**
Chairs: *Gabrielle Deckmyn*, Antwerpen Univ., Antwerpen, BE, Biolink WG2 Coordinator
Annamaria Bevivino, ENEA Casaccia Research Center, Rome, IT
- 09:30-09:55 **Mark Tibbett**, School of Agriculture, Policy and Development, Reading Univ., Reading, UK
Microbial functional diversity in restored biodiverse forest soil
- 09:55-10:20 **Jorge Curiel Yuste**, Museo Nacional de Ciencias Naturales, CSIC, Madrid, ES
Forest fragmentation and drought as engines of change of the plant-soil-microbial ecological interactions in the Mediterranean basin
- 10:20-10:40 **Mona N. Högberg**, Forest Ecology and Management Dept., Swedish Agricultural Sciences, Umeå Univ., SE
How does soil microbial community composition and nitrogen supply change with ecosystem age in primary boreal forests?
- 10:40-11:00 **Relena R. Ribbons**, Forest and Conservation Sciences Dept., Faculty of Forestry, British Columbia Univ., Vancouver, Canada; School of Environment, Natural Resources and Geography, Bangor Univ., Wales, UK; Geosciences and Natural Resource Management Dept., Copenhagen Univ., DK
Microbial communities, functional genes and nitrogen cycling processes in forest floors under four tree species
- 11:00-11:30** **Coffee break (including e-Poster Session)**
- 11:30-13:20** **Plenary Session, Part 4**
Chairs: *Olaf Schmidt*, University College Dublin, School of Agriculture and Food Science, Dublin, IE
Paola Grenni, CNR, Water Research Institute (CNR-IRSA) Rome IT
- 11:30-11:55 **Hans Göransson**, Forest ecology, Natural resources and life sciences Univ., Vienna, AT
Effects of geometrid moth attacks on belowground processes in sub-arctic birch forests
- 11:55-12:20 **Franco Nigro**, Università degli studi Aldo Moro, Dipartimento di Scienze del suolo, della pianta e degli alimenti (Di.S.S.P.A.) Bari, IT
Does the soil microbial community affect the endophytes diversity into the xylem and the resilience to vascular wilt diseases? The olive tree as a case study.



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- 12:20-12:40 **Jérôme Cortet**, CEFE UMR 5175, CNRS, Université Paul-Valéry Montpellier, EPHE, Bat Fabre, Montpellier Cedex, FR
The use of traits for soil invertebrates: state of the art and perspectives
- 12:40-13:00 **Oskar Franklin**, IIASA, International Institute for Applied Systems Analysis, Laxenburg, AT
Modeling plant – soil interactions in an ectomycorrhizal forest
- 13:00-13:20 **Carla Cruz-Paredes**, Terrestrial Ecology Section, University of Copenhagen, DK
Using bacterial and fungal responses to evaluate the mechanisms by which ash application impact forest soils
- 13:20-14:20 Lunch**
- 14:20-15:00 e-Poster Session**
- 15:00-16:45 WG Meetings, Part 2**
(RESERVED ONLY TO BIOLINK COST MEMBERS)
WG1: Aula Convegni;
WG2: Aula Golgi;
WG3: Aula Silvestri;
WG4: Aula Giacomello
- 16:45-17:15 Coffee break with all the WG participants and brief relations by WG leaders**
(Aula Convegni)
- 17:15-18:00 Closing Remarks and meeting end** (Aula Convegni)
- 18:00-20:30 Optional Programme, Visit of Rome: "Squares & Fountains"



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POSTER SESSION

A new and innovative “e-Poster” technology will be used for the first time at CNR in the 3rd Biolink Meeting!

An electronic poster (e-Poster) consists of **4 slides in pdf format** which will be displayed on a user friendly multi-media touch screen



Digital library room at CNR headquarter.

Poster sessions (CNR headquarter, Digital Library room): 19th November

- Selected e-Posters (POSTER CODES: from 1-eP to 10-eP)

08:30-09:20 guided tour of the selected e-Posters. Presenting Authors have 5 minutes for a brief presentation.

- All e-Posters (POSTER CODES: from 1-eP to 33-eP) will be displayed:

11:00-11:30 during coffee break

13:20-14:20 during lunch time

14:20-15:00 e-Poster Session

At least one Author is invited to be in front of his/her Poster.

See the code and the corresponding screen number of the e-Posters.



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LIST of e-Posters and their CODES

Poster Session 1
Guided tour of selected e-Posters

19th November

08:30-09:20

e-Poster CODE

Screen 1	1-eP
Screen 2	2-eP
Screen 3	3-eP
Screen 4	4-eP
Screen 5	5-eP
Screen 6	6-eP
Screen 7	7-eP
Screen 8	8-eP
Screen 9	9-eP
Screen 10	10-eP

Poster Session 2
All Posters

19th November

11:00-11:30 Coffee break
13:20-14:20 Lunch
14:20-15:00 e-Poster session

e-Poster CODE

Screen 1	1-eP	2-eP	3-eP
Screen 2	4-eP	5-eP	6-eP
Screen 3	7-eP	8-eP	9-eP
Screen 4	10-eP	11-eP	12-eP
Screen 5	13-eP	14-eP	15-eP
Screen 6	16-eP	17-eP	18-eP
Screen 7	19-eP	20-eP	21-eP
Screen 8	22-eP	23-eP	24-eP
Screen 9	25-eP	26-eP	27-eP
Screen 10	28-eP	29-eP	30-eP
Screen 11	31-eP	32-eP	33-eP

e-POSTERS

**Selected e-Posters for the guided tour, 19 Nov, 8:30-9:20
(in Alphabetic order)**

Selected e-Posters for Guided tour, 19th November 08:30-09:20 (in Alphabetic order)			
CODE	Authors In bold: presenting author	Institutional affiliation	Title
1-eP	Ahmed Iftekhar U. , Yonten Dorji, Norbu Wangdi, Georg Gurtzer, Douglas Godbold iftekhar_ahmed@boku.ac.at	Institute of Forest Ecology, Universität für Bodenkultur (BOKU), Vienna, Austria	Impacts of water stress on fine root dynamics and soil C storage in altitudinal forests of Himalayan Bhutan
2-eP	Assefa Dessie¹ , Boris Rewald ¹ , Hans Goranson ¹ , Abriham Abiyu ² , Douglas Godbold ¹ dessieqenet@gmail.com	1 Institute of Forest Ecology, Department of Forest and Soil Sciences, University of Natural Resources and Life Science, Austria 2 Amhara Agricultural Research Institute, Bahir Dar, Ethiopia	Fine root biomass and production in characteristic land use types of the Ethiopian highland
3-eP	Balestrini Raffaella¹ , Alessandra Salvioli ² , Mara Novero ² , Giovanni Gabelli ² , Samuele Voyron ² , Matteo Chialva ² , Alessandra Dal Molin ³ , Fabio Marroni ⁴ , Paola Bonfante ² raffaella.balestrini@ipsp.cnr.it	1 Istituto per la Protezione Sostenibile delle Piante, CNR, Torino, Italy 2 Dipartimento di Scienze della Vita e Biologia dei Sistemi, UniTO, Torino, Italy 3 Dipartimento di Biotecnologie, UniVR, Verona, Italy 4 Istituto di Genomica Applicata (IGA), Udine, Italy	Effects of a single microbe versus a complex microbial inoculum on grapevine roots
4-eP	Coggan Aisha¹ , Alex Dumbrell ¹ , Elena Vanguelova ² , Corinne Whitby ¹ acogga@essex.ac.uk	¹ School of Biological Sciences, University of Essex, Wivenhoe Park, Colchester, UK ² Forest Research, Alice Holt Lodge, Farnham, Surrey, UK	Spatial and Temporal Dynamics of Methane Oxidation across Two Contrasting Forest Chronosequences
5-eP	Finžgar Domen¹ , Marko Bajc ¹ , Matej Rupel ¹ , Miha Humar ² , Hojka Kraigher ¹ domen.finzgar@gozdis.si	1 Slovenian Forestry Institute, Ljubljana, Slovenia. 2 Biotechnical Faculty, Wood Science and Technology Dept., Ljubljana, Slovenia	The Role of Fungi in the Decay of Coarse Woody Debris of European beech (<i>Fagus sylvatica</i> L.) in the Secondary Virgin Forest Rajhenavski Rog
6-eP	Kjøller Rasmus¹ , Carla Cruz Paredes ¹ , Karina Clemmensen ² rasmusk@bio.ku.dk	1 Terrestrial Ecology Section, University of Copenhagen, Denmark 2 Forest Mycology and Plant Pathology, SLU, Sweden	Effects of wood ash and liming on ectomycorrhizal fungal abundance, diversity and community composition – review and meta-analysis
7-eP	Ostonen Ivika , Marika Truu, Katrin Rosenvald, Kaarin Parts, Leho Tedersoo, Jens-Konrad Preem, Krista Lõhmus, Jaak Truu ivika.ostonen@ut.ee	Institute of Ecology and Earth Sciences, University of Tartu, ESTONIA	Complementary shifts of roots, mycorrhizal networks and rhizobiome drive ecosystem adaptation in changing climate.

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8-eP	Pennanen Taina , Sannakajsa M Velmala, Tiina Rajala taina.pennanen@luke.fi	Natural Resources Institute Finland (Luke), Bio-based Business and Industry, Vantaa, Finland	Atheliacea fungi are potential keystone species building up the belowground growth of Norway spruce
9-eP	Pietras Marcin mpietras@man.poznan.pl	Faculty of Biology, University of Gdańsk, Gdańsk, Poland	Clathrus archeri, Suillus lakei and Boletellus projectellus as a model organisms in fungal invasion studies
10-eP	Złoch Michał ¹ , Dominika Thiem ¹ , Sonia Szymańska ¹ , Renata Gadzała-Kopciuch ² , Katarzyna Hrynkiewicz ¹ hrynk@umk.pl	1 Department of Microbiology, Faculty of Biology and Earth Sciences, Nicolaus Copernicus University, Toruń, Poland 2 Chair of Environmental Chemistry and Bioanalytics, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland	Synthesis of siderophores by <i>Streptomyces</i> sp. strains under cadmium stress

Other Posters, 19th November 11:00-11:30, Coffee break 13:20-14:20, Lunch 14:20-15:00, e-Poster Session (in Alphabetic order)			
CODE	Authors In bold: presenting author	Institutional affiliation	Title
11-eP	Álvarez Lafuente Amaya ¹ , Luis F. Benito-Matías ¹ , Beatriz Cuenca ² , Luis Ocaña ² lusfbm@gmail.com	1 CNRGF "El Serranillo" Ministerio de Agricultura, Alimentación y Medio Ambiente. Guadalajara. (SPAIN) 2 TRAGSA. Dpto de Mejora Agroforestal. Maceda, Ourense (SPAIN)	Effect of mycorrhization and pH substrate on nursery growth of <i>Castanea</i> hybrids.
12-eP	Aučina Algis ¹ , Maria Rudawska ² , Tomasz Leski ² , Marta Kowalska ² , Audrius Skridaila ¹ , Darius Ryliškis ¹ algis.aucina@qf.vu.lt	1 Botanical Garden of Vilnius University, Lithuania 2 Institute of Dendrology, Polish Academy of Sciences, Kórnik, Poland	Field performance and ECM community structure of Scots pine (<i>Pinus sylvestris</i> L.) seedlings 5 years after pine forest litter addition
13-eP	Ancona Valeria ¹ , Paola Grenni ² , Anna Barra Caracciolo ² , Martina Di Lenola ² , Claudia Campanale ¹ , Vito Felice Uricchio ¹ , Angelo Massacci ³ barracaracciolo@irsa.cnr.it	1 CNR-Istituto di Ricerca Sulle Acque, Bari, Italy 2 CNR-Istituto di Ricerca Sulle Acque, Monterotondo (RM), Italy 3 CNR- Istituto di Biologia Agroambientale e Forestale, Monterotondo (RM), Italy	Poplar-microorganism interactions in recovering a multi-contaminated area in Southern Italy
14-eP	Barra Caracciolo Anna, Martina Di Lenola, Ludovica Saccà, Paola Grenni grenni@irsa.cnr.it	CNR-Istituto di Ricerca sulle Acque (CNR-IRSA) Monterotondo, Rome, Italy	Ecosystem services provided by microbial communities in belowground soil
15-eP	Colagiero M., I. Pentimone, L. C. Rosso, A. Ciancio aurelio.ciancio@ipsp.cnr.it MC Member, Italy	Istituto per la Protezione Sostenibile delle Piante, CNR, Bari, Italy	A metagenomic study on the effect of plant cover on soil bacterial diversity



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16-eP	Dalmastri Claudia , Annamaria Bevivino annamaria.bevivino@enea.it MC Member, Italy	Department for Sustainability of Production and Territorial Systems, Biotechnologies and Agro-Industry Division, ENEA Casaccia Research Center, Rome, Italy	Eco-physiological diversity of soil bacteria communities in relation to tillage system and nitrogen fertilizer
17-eP	Devetaković Jovana ¹ , Leszek Karliński ² , Marcin Pietras ² , Tomasz Leski ² , Maria Rudawska ² jovana.devetakovic@sfb.bg.ac.rs	1 Department for Seed science, nursery production and afforestation, Faculty of Forstry-University of Belgrade, Serbia 2 Laboratory of Symbiotic Associations, Institute of Dendrology of the Polish Academy of Sciences, Kórnik, Poland	Mycorrhizal status of European white elm from Veliko Ratno Ostrvo Island, Belgrade (Serbia)
18-eP	Di Lenola Martina ¹ , Grenni Paola ¹ , Diogo Neves Proença ² , Paula V. Morais ^{2,3} , Anna Barra Caracciolo ¹ barracaracciolo@irsa.cnr.it MC Member, Italy	1 CNR-Istituto di Ricerca sulle Acque (CNR-IRSA), Monterotondo, Rome, Italy 2 CEMUC, University of Coimbra, Coimbra, Portugal 3 Department of Life Sciences, University of Coimbra, Coimbra, Portugal	Complementary approaches for studying the microbial biodiversity of soil
19-eP	Dirks Inga ¹ , Julia Köhler ² , Hila Gil ¹ , Shimon Rachmilevitch ¹ , Ina C. Meier ² inga.dirks@gmail.com	1 French Associates Institute for Agriculture and Biotechnology of Drylands, The Jacob Blaustein Institutes for Desert Research, Ben-Gurion University of the Negev, Ben-Gurion, Israel 2 Plant Ecology, Albrecht von Haller Institute for Plant Sciences, University of Göttingen, Germany	The P nutrition of Palestine oak under global change
20-eP	Horvat Martina, Goran Palijan gpalijan@biologija.unios.hr MC member, Croatia	University of J. J. Strossmayer in Osijek, Department of Biology, Sub Department of Quantitative Ecology, Osijek, Croatia	Microbial dehydrogenase activity under different types of soil and plant cover
21-eP	Kačergius Audrius ¹ , Jonas Kasparavičius ² , Reda Iršėnaitė ² , Gražina Adamonytė ² , Jurga Motiejūnaitė ² , Ričardas Taraškevičius ² jurqa.motiejunaite@botanika.lt MC member, Lithuania	1 Vokė Branch of Lithuanian Research Centre for Agriculture and Forestry, Vilnius, Lithuania 2 Nature Research Centre, Vilnius, Lithuania	Edge effect of expanding Great Cormorant colony on forest mycorrhizal fungi
22-eP	Lagomarsino Alessandra ¹ , Chiavetta Ugo ² , De Meo Isabella ¹ , Cantiani Paolo ² , Paletto Alessandro ³ , Radoglou Kalliopi ⁴ alessandra.lagomarsino@entecra.it MC member, Italy	1 Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, research centre for agrobiolgy and pedology (CREA-ABP), Firenze, Italy 2 Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Forestry Research Centre (CREA-SEL), Arezzo, Italy 3 Consiglio per la ricerca in agricoltura e l'analisi dell'economia agraria, Research Unit For Forest Planning And Monitoring (CREA-MPF), Trento, Italy 4 Democritus University of Thrace, Dept. of forestry and management of environment and natural resources (DUTH), Orestiada, Greece	Recovery of degraded coniferous forests for environmental sustainability restoration and climate change Mitigation – the LIFE-ForResMit project
23-eP	Lazarević Jelena ena.lazarevic@gmail.com MC Substitute, Montenegro	Biotechnical Faculty, University of Montenegro, Podgorica, Montenegro	Application of autochthonous fungi and forest soil for seedling mycorrhization – trials in Montenegro



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24-eP	<p>Marik Tamás¹, András Szekeres¹, Lea Atanasova², Irina S. Druzhinina², Maria A. Andersson³, Mirja Salkinoja-Salonen³, Balázs Leitgeb⁴, Csaba Vágvölgyi¹, László Kredics¹ kredics@bio.u-szeged.hu MC Member, Hungary</p>	<p>1 Department of Microbiology, Faculty of Science and Informatics, University of Szeged, Hungary 2 Area Gene Technology and Applied Biochemistry, Institute of Chemical Engineering, Vienna University of Technology, Wien, Austria 3 Department of Food and Environmental Science, University of Helsinki, Finland 4 Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged, Hungary</p>	<p>New bioactive trichobrachin-like peptaibols detected in natural forest habitat-derived isolates from the Longibrachiatum section of the filamentous fungal genus Trichoderma</p>
25-eP	<p>Martinović Tijana^{1,3}, Marko Bajc¹, Nejc Thaler², Miha Humar², Hojka Kraigher¹, Barbara Kraigher³ tijana.martinovic@gozdis.si</p>	<p>1 Department of Forest Physiology and Genetics, Slovenian Forestry Institute, Ljubljana, Slovenia 2 Department of Wood Science and Technology, Biotechnical Faculty, University of Ljubljana, Slovenia 3 Chair of Microbiology, Department of Food Science and Technology, Biotechnical Faculty, University of Ljubljana, Slovenia</p>	<p>Analysis of microbial communities in environmental samples: from DGGE to Illumina MiSeq</p>
26-eP	<p>Mathias Mayer¹, Bradley Matthews¹, Hans Göransson¹, Boris Rewald¹, Klaus Katzensteiner¹, Harald Berger², Markus Gorfer², Douglas Godbold¹ mathias.mayer@boku.ac.at</p>	<p>1 Institute of Forest Ecology, Department of Forest and Soil Sciences, University of Natural Resources and Life Sciences – BOKU, Vienna, Austria 2 Fungal Genetics and Genomics Unit - Health & Environment Department - Austrian Institute of Technology GmbH - AIT, Tulln, Austria</p>	<p>From the forester's tool box: Using forest manipulation to separate the factors driving soil carbon dynamics</p>
27-eP	<p>Mrak Tanja, Jožica Gričar, Hojka Kraigher tanja.mrak@gozdis.si</p>	<p>Slovenian Forestry Institute, Ljubljana, Slovenia</p>	<p>Towards the fine root identification key of common tree species – progress after one year</p>
28-eP	<p>Piñuela Yasmine^{1,2}, Tine Grebenc², Hojka Kraigher² yasmin.pinuela@hotmail.com</p>	<p>1 Technical University of Madrid (UPM), Campus Ciudad Universitaria, Madrid, Spain 2 Slovenian Forestry Institute, Ljubljana, Slovenia</p>	<p>Potential role of pedofauna on seeding inoculation with ectomycorrhizal fungi</p>



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29-eP	Proença Diogo Neves¹ , Paula V. Morais ^{1,2} diogo.proenca@gmail.com	1 CEMUC, University of Coimbra, Coimbra, Portugal 2 Department of Life Sciences, University of Coimbra, Coimbra, Portugal	Link between Bursaphelenchus xylophilus-associated bacteria and endophytic microbial community of Pinus with Pine Wilt Disease
30-eP	Rosinger Christoph , Göransson Hans, Douglas Godbold christoph.rosinger@boku.ac.at	Institute of Forest Ecology, Department of Forest- and Soil Sciences, University of Natural Resources and Life Sciences, Vienna, Austria	Meta-analysis of ectomycorrhizal diversity in beech (<i>Fagus sylvatica</i> L.) dominated stands in Europe
31-eP	Rousk Johannes johannes.rousk@biol.lu.se MC member, Sweden WG2 Coordinator	Microbial Ecology, Department of Biology, Lund University, Sweden	Microbial control of biogeochemistry during drying-rewetting: the legacy of drought
32-eP	Ruano-Rosa David, Antonio Valverde-Corredor, Carmen Gómez-Lama Cabanás, Rafael Sesmero, Jesús Mercado-Blanco jesus.mercado@ias.csic.es MC Member, Spain	Departamento de Protección de Cultivos, Instituto Agricultura Sostenible (CSIC), Córdoba, Spain	What lies beneath: root-associated bacteria to improve the growth and health of olive (<i>Olea europaea</i> L.)
33-eP	Wang Lixia , Douglas Godbold lixia.wang@boku.ac.at	Institute of Forest Ecology, Universität für Bodenkultur (BOKU), Vienna, Austria	Soil nitrogen mineralization profiles at the tree line