

Agenda

GOBAL SYMPOSIUM ON SOIL BIODING.















Co-organized by

FAO

Food and Agriculture Organization of the United Nations

GSP

Global Soil Partnership

ITPS

Intergovernmental Technical Panel on Soils

CBD

Convention on Biological Diversity

GSBI

Global Soil Biodiversity Initiative

SPI UNCCD

Science-Policy Interface of the United Nations Convention to Combat Desertification

The times indicated are local times for Rome, Italy. Rome time is in the Central European Summer Time Zone (CEST).

Summary agenda

19 APRIL / DAY 1

13.00 -14.15	High Level Opening Session
14.15-15.45	Keynote Speakers Setting the scene for the GSOBI21
15.45-16.00	Launch of the Poster Exhibition and Contest Launch of the collection of children's books on soil biodiversity

20 APRIL / DAY 2

13.00-14.00	Private sector actions on soil biodiversity/ soil health
	Parallel sessions
	Theme 1 - State of knowledge on soil biodiversity
	Theme 1 - State of knowledge on soil biodiversity
14.00-16.00	Theme 2 - Soil biodiversity in action
	Theme 2 - Soil biodiversity in action
	Theme 3 - Soil biodiversity shaping the future of food systems
	Theme 3 - Soil biodiversity shaping the future of food systems

21 APRIL / DAY **3**

	13.00 -14.00	Status of global soil biodiversity
		Parallel sessions
		Theme 1 - State of knowledge on soil biodiversity
		Theme 1 - State of knowledge on soil biodiversity
١	14.00-16.00	Theme 1 & 2 - State of knowledge on soil biodiversity & Soil biodiversity in action
		Theme 2 - Soil biodiversity in action
		Theme 3 - Soil biodiversity shaping the future of food systems
		Theme 3 - Soil biodiversity shaping the future of food systems

22 APRIL / DAY 4

13.00 -14.00	Soil biodiversity in the global agenda
14.00-15.00	Main Session Outcomes and Key Findings
15.00-15-30	Closure of the Symposium

KEYNOTE SPEAKERS Setting the scene for GSOBI21 Setting the scene Ms Rosa Poch, ITPS chair Soil biodiversity: where are we and how it can help in addressing the global challenges? Ms Diana Wall, Global Soil Biodiversity Initiative, USA Soil borne diseases and ecological intensification Mr Wim Van der Putten, Netherlands Institute of Ecology, the Netherlands Soil biodiversity, nutrition and human health Ms Daphne Miller, University of California, USA Soil biodiversity and crop production: challenges and gaps Mr Jérôme E. Tondoh, Nangui Abrogoua University, Côte d'Ivoire Ecosystem restoration starting from the ground: is it really feasible? Mr Felipe Pasini, Agenda Gotsch, Brazil Quiz on Soil Biodiversity Launch of the poster exhibition and contest Launch of the collection of children's books on soil biodiversity		Monday 19 April	
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Moderator Ms Yasmina Bouziane, FAC KEYNOTE SPEAKERS Setting the scene for GSOBI21 Setting the scene Ms Rosa Poch, ITPS chair Soil biodiversity: where are we and how it can help in addressing the global challenges? Ms Diana Wall, Global Soil Biodiversity Initiative, USA Soil borne diseases and ecological intensification Mr Wim Van der Putten, Netherlands Institute of Ecology, the Netherlands Soil biodiversity, nutrition and human health Ms Daphne Miller, University of California, USA Soil biodiversity and crop production: challenges and gaps Mr Jérôme E. Tondoh, Nangui Abrogoua University, Côte d'Ivoire Ecosystem restoration starting from the ground: is it really feasible? Mr Felipe Pasini, Agenda Gotsch, Brazil Quiz on Soil Biodiversity Launch of the poster exhibition and contest Launch of the collection of children's books on soil biodiversity		The full list of panelists will be announced in future versions of the agenda.	
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Soil biodiversity and crop production: challenges and gaps Mr Jérôme E. Tondoh, Nangui Abrogoua University, Côte d'Ivoire Ecosystem restoration starting from the ground: is it really feasible? Mr Felipe Pasini, Agenda Gotsch, Brazil Quiz on Soil Biodiversity Launch of the poster exhibition and contest Launch of the collection of children's books on soil biodiversity	15.45	Soil biodiversity, nutrition and human health	Bouziane, FAO
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Launch of the poster exhibition and contest 15.45 - 16.00 Launch of the collection of children's books on soil biodiversity			
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16.00 Launch of the collection of children's books on soil biodiversity		Launch of the poster exhibition and contest	
		Launch of the collection of children's books on soil biodiv	ersity
by Instable to Reges Suitchez, 1035	10.00	by Ms Laura Berta Reyes Sanchez , IUSS	

Private sector actions on soil biodiversity/ soil health

Towards living soils

Mr Philippe Schaus, Moët Hennessy

Sustainable eco-friendly fertilizers for conservation of soil diversity

Mr Andrey Guryev, Phosagro

Project ACORN: Stimulating smallholder agroforestry at scale

Ms Martine Jansen, RABOBANK

Synecoculture and Human Augmentation of Ecosystems: project overview

Mr Masatoshi Funabashi, Sony CSL

Moderator:

Mr Alexander Jones, FAO

Parallel session 1

13.00 -

14.00

14.00 -

15.00

15.00 -

16.00

Theme 1 - State of knowledge on soil biodiversity

Moderator: Ms Lydia Mumbi Chabala, ITPS

Soil bioanalysis: a simple and effective tool to access and interpret soil health

Ms lêda de Carvalho Mendes, EMBRAPA Cerrados, Brazil

Uncovering linkages between soil fauna and ecosystem function using factor analysis and structural equation modelling

Ms Ashley B. Jernigan, Cornell AgriTech, USA

Monitoring Soil Biological Quality in the Veneto region

Ms Francesca Pocaterra, ARPAV, Italy

The biodiversity of soil microfungi in Colombia

Ms Nicola Lidia, University of Pavia, Italy

Theme 1 - State of knowledge on soil biodiversity

Moderator: Ms Lydia Mumbi Chabala, ITPS

Drivers of Short-to-Medium Term Litter Decomposition across Biomes

Ms Ika Djukic, Swiss Federal Institute for Forest, Snow and Landscape Research (WSL), Switzerland

Litter decomposition and organic matter turnover by soil fauna in a sustainably managed olive grove

Mr Adriano Sofo, Università degli Studi della Basilicata, Italy

Developing a systematic sampling method for earthworms in and around deadwood

Mr Frank Ashwood, Forest Research, United Kingdom

Soil biodiversity and physico-hydraulic function: How earthworm and plant root interaction contribute to ecosystem services?

Mr Jamal Hallam, National Institute for Agricultural Research (INRA)-CRRA-Agadir, Morocco

Taranc	
	Theme 1 - State of knowledge on soil biodiversity Moderator: Mr Jun Murase, ITPS
	Soil Biodiversity from Sciences to Action – Feedback from two decades of soil bio-indicators development as agricultural soil management tool
	Ms Nolwenn Bougon, OFB, France
44.00	Using environmental DNA to assess global soil biodiversity and build a soil quality bioindicator
14.00 - 15.00	Ms Eva Bellemain, ARGALY, France
3	Integrating Microbiological Quality Indicators and Soil Properties through Score Functions to Assess Land Use Changes in Colombian Andisols
	Mr Raul Aranguren, Universidad de Antioquia, Medellín, Colombia
	Bioturbations as quality indicators of Typic Argiudolls in the Southeast of Buenos Aires, Argentina. A micromorphological approach
	Ms Rosa M. Poch, Universitat de Lleida, Spain
	Ms Rosa M. Poch, Universitat de Lleida, Spain Theme 1 - State of knowledge on soil biodiversity Moderator: Mr Jun Murase, ITPS
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15.00 - 16.00	Theme 1 - State of knowledge on soil biodiversity Moderator: Mr Jun Murase, ITPS Soil Macrofauna Biodiversity in Paraserianthes falcataria and Morus alba Plant Agroforestry in Bali Island
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Parallel session 3

Theme 2 - Soil biodiversity in action Moderator: Ms Costanza Calzolari, ITPS Soil Biodiversity: Why Should We Care? Ms Briones M.J.I., Universidad de Vigo, Spain 14.00 -Soil biodiversity in action at ecosystem level 15.00 Mr Flavio Fornasier, CREA VE, Italy Soil biodiversity for agricultural production and environmental integrity Mr Franz Bender, Research Division Agroecology and Environment Agroscope, Switzerland Participatory Learning Action is Important for Community Action to improve soil-biodiversity Mr Jayesh Joshi, VAAGDHARA, India Theme 2 - Soil biodiversity in action Moderator: Ms Costanza Calzolari, ITPS A Coordinated Research Enterprise on Agricultural Soil Microbiomes and Soil Ecosystems across USDA Research Locations Mr David B. Knaebel, USDA – Agricultural Research Service, USA 15.00 -Understanding impact of soil biology on crops: the key to sustainability of farming systems 16.00 Mr Gerard Rass, APAD-GCAN, France, and Ms Marie-Thérèse Gaessler, Gässler SARL, France Soil functioning relates to land use in a sustainably managed agro-sylvo-pastoral ecosystem Ms Sofia R. Costa, University of Minho, Portugal Productivity, Efficiency and Resilience of Soil Systems Emerge from Self-Organizing Processes Mediated by Management Mr Andrew L. Neal, Rothamsted Research, United Kingdom

Parallel session 4

Theme 2 - Soil biodiversity in action Moderator: Mr Peter de Ruiter, ITPS Termites promote resource patchiness in Asia and constitute a model for achieving the sustainable development goals Mr Pascal Jouquet, CNRS, IRD, INRA, France 14.00 Re-carbonization of soils with intensive agricultural use with the presence of pine forests and provision of fungal ecosystem services (suilus luteus and suilus granulatus). Chilean experiences 15.00 Mr Samuel Francke Campaña, CONAF, Chile Good agricultural practices help to restore sustainable biodiversity Ms Beata Houšková, NPPC-VÚPOP, Slovakia Intercrop management as a tool to increase soil fungal diversity on rainfed almond cultivations Mr Raúl Ortega, University of Almería, Spain Theme 2 - Soil biodiversity in action Moderator: Mr Peter de Ruiter, ITPS Recovery of soils biodiversity on reclaimed drilling pads of oil-gas wells in East Ukraine Ms Oksana Naidonova, National Scientific Center "Institute for Soil Science and Agrochemistry Research named after O.N. Sokolovsky", 15.00 -Urban soil biodiversity: A multi-city comparison 16.00 Ms Katalin Szlavecz, Johns Hopkins University, USA Arbuscular mycorrhizal fungal abundance in dry Afromontane forests in northern Ethiopia Ermias Betemariam, ICRAF, Ethiopia Diversity in soil fauna: a good tool for soil quality monitoring Cristina Menta, Università degli Studi di Parma, Italy

I	Parallel session 5			
		Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Mr Edmundo Barrios, FAO		
		Minimal Herbicide-Based Conservation Tillage Enhances Soil Macro fauna Abundance and Distribution in Uganda		
I		Mr Patrick Musinguzi, Makerere University, Uganda		
ı	14.00 - 15.00	Perceptions on soil macrofauna in the agricultural field		
ı	15.00	Ms Marie L.C. Bartz, Universidade de Coimbra, Portugal		
ı		Biodiversity in hay meadows: effects of intensive agriculture on epigeic macro-invertebrates		
l		Ms Julia Plunger, Eurac Research, Institute for Alpine Environment, Italy		
ı		Soil Organic Carbon and enzymatic activity under Conservation Agriculture in Moroccan Dry land		
		Mr Rachid Moussadek, ICARDA/INRA, Morocco		
		Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Mr Edmundo Barrios, FAO		
1		Repeated Applications of Organic Amendments Promote Beneficial Microbiota, improve Soil Fertility		
l		Mr Mohamed Idbella, Faculty of Agriculture, Federico II university of Naples, Italy		
ı		Microbial biodiversity in the field is related to fruit and vegetable health and linked to postharvest quality		
l	15.00 -	Mr Peter Kusstatscher, Institute of Environmental Biotechnology, Austria		
	16.00	Effect of free living nematodes and their associated microbial community on conservation biological control, utilizing soil predatory mites		
I		Mr Eric Palevsky, Agricultural Research Organization, Ramat Yishay, Israel		

Microbial resources for Mozambican agriculture: use of arbuscular mycorrhizal fungi as a sustainable alternative

to chemical input in cotton production

 $\textbf{Ms \'iris Victorino}, \, \textbf{Eduardo Mondlane University, Mozambique}$

Parallel session 6

Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Mr Luca Montanarella, European Commission

Soil biodiversity management for food security

Ms Veronica Andrea El Mujtar, CONICET, Argentina

14.00 -15.00 From soil to table: Agroforestry Systems as an alternative to regenerative agriculture

Ms Karina Gonçalves David, Rede Ecovida, AOPA - Associação para o Desenvolvimento da Agroecologia, Brazil

Enabling barley production in arid soils by only exploiting the indigenous microbial biodiversity

Ms Anna Rosa Sprocati, ENEA-Casaccia, Italy

Additional presentations will be added in future versions of the agenda.

Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Mr Luca Montanarella, European Commission

Rhizosphere ecological interactions for improved plant health and nutrition in sustainable agricultural production

Ms Cristina Lazcano, University of California Davis, USA

15.00 -16.00 Symbiotic Relationships and Effectiveness of Soybean Rhizobia in Soils of the Nigerian Savanna

Mr Anthony Ozoemenam Uzoma, Federal University of Technology, Minna, Nigeria

Exploring the potential of three Rhizobium strains from Peruvian soils as biofertilizers for the common bean (Phaseolus vulgaris)

Ms Yohana Aguilar-Cuba, Universidad Nacional Agraria La Molina, Lima, Perú

Influence of soil type on the biodegradation of pesticides by rhizobacteria: case of Glyphosate and paraquat

Mr Mohamed Maldani, UMI, Morocco

	Wednesday 21 April	
	Status of global soil biodiversity	
	State of knowledge of soil biodiversity: challenges and potentialities Ms Rosa Cuevas, FAO/GSP	
	Reflections on the interaction between above ground and below ground biodiversity as a way to enhance sustainability and resilience of agroecosystem	
13.00 -	<i>Mr Carlo Fadda</i> , Alliance Biodiversity International & CIAT	Moderator
14-00	About the importance of the soil microbiome for a healthy planet. What does agriculture have to do with it?	Ms Monica
	Mr Dylan Warren Raffa, FAO	Farfan, GSB
	Towards a large scale assessment of soil biodiversity Mr Alberto Orgiazzi, Joint Research Centre, European Commission	
	Spatial distribution of soil faunal diversity: where ecology meets biogeography Mr Andrey S. Zaystez, Russian Academy of Sciences, Russian Federation	
Parallel	session 1	
	Comparative microbiology evaluation of bacterial biodiversity in rhizospheres of vegetative cospecies of Australia (Eucaliyptus), native to Chile (Quillay) and "badland" soils of Chile	over of exotic
	Mr Samuel Francke Campaña, University of Santiago, Chile	
14.00 -	Soil Protozoa diversity at coal post-mining area at different age of reclamation	
15.00	Ms Tati Suryati Syamsudin, Institut Teknologi Bandung, Indonesia	
	Unexpected microbial functions in agricultural soil decontamination from PCB by SMS Spent I Substrate (SMS)	Mushroom
	Ms Simona Di Gregorio, University of Pisa, Italy	
	Diversity and abundance of the entomopathogenic fungi Metarhizium spp. at high sampling re Swiss permanent grassland	esolution in typica
	Ms María Fernández-Bravo, Agroscope, Switzerland	
	Theme 1 - State of knowledge on soil biodiversity Moderator: Ms Lucía Helena Cunha dos Anjos, ITPS	
	Assessment of agroecological conditions of terrain and its soil cover using remote sensing data	3
	Ms Natalia Balova, Russian Academy of Sciences Moscow, Russia	
15.00 -	Ciliated protists as indicators of soil health: Three case studies from Italy	
16.00	Ms Antonietta La Terza, University of Camerino, Italy	
	Evaluation of soil health after digestate application using QBS-ar and Solvita®	
	Ms Maria Chiara Rosace, Harper Adams University, United Kingdom	
	Biofunctool®, a multifunctional approach of soil health related to soil biota activities	

	Theme 1 - State of knowledge on soil biodiversity Moderator: Mr Yi Peng, FAO/GSP
	Use the Metabolic Fingerprint in Microbial Communities to Evaluate the Anthropogenic Impact on Soils
	Ms Rosalina Gonzalez, La Salle University, Bogota, Colombia
14.00 -	Next generation biomonitoring to assess key species and soil parameters determining the biodiversity in agricultural soils
15.00	Mr Luigimaria Borruso, Free University of Bozen/Bolzano, Italy
	Knowledge of biodiversity and ecosystem services of South American mycorrhiza through research networking
	Mr César Marín, Universidad de O'Higgins, Chile
	Diversity and Biotechnological Potential of Arbuscular Mycorrhizal Fungi on Cerrado, Amazônia and Pantanal Biomes of Mato Grosso State- Brazil
	Ms Martha Viviana Torres Cely, Federal University of Mato Grosso - Campus Sinop, Brazil
	Theme 1 - State of knowledge on soil biodiversity Moderator: Mr Yi Peng, FAO/GSP
	Patterns of Soil Biodiversity Communities in Urban Microfarm
	Ms Sophie Joimel, INRA, France
	Plant productivity enhancement in a simulated Amazonian Dark Earth (Terra Preta Nova)
15.00 -	Mr George G. Brown, Federal University of Paraná, Curitiba, Brazil
16.00	Evaluation of PGP bacteria against Rhizoctonia solani in Solanum tuberosum plants under greenhouse conditions
	Ms Lizbeth Mamani-Rojas, Universidad Nacional Agraria La Molina, Peru
	Ms Lizbeth Mamani-Rojas, Universidad Nacional Agraria La Molina, Peru Underestimated biodiversity of edaphic prokaryotic metacommunity in the Western Amazon: risks may be higher

Parallel session 3

Theme 1 - State of knowledge on soil biodiversity

Moderator: Mr Yusuf Yigini, FAO/GSP

Mapping soil biodiversity research: a network analysis approach

Mr Giovanni Di Matteo, CREA, Italy

A soil biodiversity survey coupled with the National Soil Quality Monitoring Network?

15.00 Ms Camille Imbert, INRAE, France

EUdaphobase – European Soil-Biology Data Warehouse for Soil Protection

Mr David J. Russell, Senckenberg Museum of Natural History Görlitz, Germany

The Italian skill network of Soil Biological Quality assessed by microarthropods' community

Mr Lorenzo D'Avino, CREA, Italy

Theme 2 - Soil biodiversity in action Moderator: Mr Yusuf Yigini, FAO/GSP

How the biological activity of Oligochaeta shape soil aggregation and influence the soil functions

Mr Eduardo Carvalho da Silva Neto, Soils Department - Federal Rural University of Rio de Janeiro, Brazil

Cultural ecosystem services of soil biota and possibilities of their use

15.00 -16.00

14.00

Ms Jurga Motiejūnaitė, Nature Research Centre, Lithuania

Soil biodiversity teems with life but faces pollution. Are we acting correctly in agro-ecosystems

Ms Caucci Serena, United Nations University, UNU-FLORES, Germany

Use of Biochar-Lupinus- Bradyrhizobium as an alternative to improve the vegetation cover of High Andean soils contaminated by heavy metals

Ms Nataly Taco-Taype, Universidad Nacional Agraria La Molina, Perύ

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	Theme 2 - Soil biodiversity in action Moderator: Mr Arwyn Jones, European Commission
	Restoring the soil while preserving functions: a winning approach by exploiting microbial biodiversity
	Ms Giada Migliore, SSPT-PROTER-BIOGEOC, Italy
	Recent Successes and Persistent Challenges in Restoration of Degraded Dryland Soils
14.00 - 15.00	Ms Nichole N. Barger, University of Colorado, USA
	Mass multiplication of native soil mesofauna for re-introduction in the degraded agro-ecosystems
	Mr N.G. Kumar, University of Agricultural Sciences, Bengaluru, India
	Recovering soil ecosystem services and functions at a burned native forest in the mediterranean zone of central Chile by the use of organic amendments
	Ms Claudia Rojas, Institute of Agri-Food, Animal and Environmental Sciences (ICA3), Universidad de O'Higgins. Chile
	Theme 2 - Soil biodiversity in action Moderator: Mr Arwyn Jones, European Commission
	Soil Macrofauna and Mesofauna Diversity in rehabilitated mine tailings
	Ms Sara Pelaez, University of Limerick, Ireland
15.00 -	Recovery of microbiological status with organic amendments on soils affected by mining activity in a decadal temporal scale
16.00	Mr Raúl Ortega, University of Almeria, Spain
	How much soil diversity is restored after a cattle ranching pasture is abandoned for its natural regeneration in the Amazon region?
	Mr Daniel Castro, Instituto Amazónico de Investigaciones Científicas SINCHI, Colombia

Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Ms Rosa M. Poch, ITPS Biofertilizer applications in India: Current status and future prospects Mr Ashok K Patra, ICAR-Indian Institute of Soil Science, India	
Mr Achaly V Patra ICAD Indian Institute of Sail Science India	
MI ASTOR R Patra, ICAR-Indian institute of Soil Science, India	
What dead wood microbiota contributes to soil biodiversity?	
14.00 - Ms Mäkipää Raisa, Natural Resources Institute Finland, FInland	
Earthworms and microbial diversity under conventional and organic farms. Interaction with actual and inhe pesticides	rited
Ms Esperanza Huerta Lwanga, Wageningen University, Netherlands	
Construction of a nif- mutant strain from a psychrotolerant soil bacterium to evaluate the contribution of the biological nitrogen fixation in crop plants	ie
Mr Danilo Augusto Silvestre, Federal Rural University of Rio de Janeiro, Brazil	
Theme 3 - Soil biodiversity shaping the future of food systems Moderator: Ms Rosa M. Poch, ITPS	
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Parallel session 6

Theme 3 - Soil biodiversity shaping the future of food systems

Moderator: Ms Maria Konyushkova, FAO/GSP

Conversion of native grasslands to food and fiber systems impact soil fauna community in Brazilian Pampa

Ms Bruna R. Winck, Universidade Federal do Rio Grande do Sul, Brazil

Transformation of the soil microbial community of the ordinary chernozem in irrigation

14.00 -15.00

15.00 -16.00 **Ms Ludmila Vorotyntseva,** National Scientific Center "Institute for Soil Science and Agrochemistry Research named after O.N. Sokolovsky", Ukraine

Aromatic plants in vineyards: Mixed intercropping as a chance for promoting soil biodiversity and increasing economic revenues?

Mr Felix Dittrich & Sören Thiele-Bruhn, Trier University, Germany

Application of bacterial biostimulants in productive landscapes of Allium cepa L.

Ms Marika Pellegrini, AGIRE Soc., Italy

Theme 3 - Soil biodiversity shaping the future of food systems

Moderator: Ms Maria Konyushkova, FAO/GSP

Prospection, identification and antagonistic activity of native strains of beneficial microorganisms for the biological control of rice pathogens in Panama

Mr Rito Herrera, Universidad de Panamá, Panama

Increased soil-enzyme activity at reduced tillage and cover crops after one year of application among organic

farming conditions

Ms Eszter Tóth, Szent István University, Hungary

A new integrate land degradation assessment approach considering soil biodiversity, humus forms and vegetation

Mr Francesco Bigaran, Centro Studi per la Biodiversità del GMEM-AMB, Italy

Response of Soil Biological Indicators under Long-Term Wheat Production Management Practices in a Semi-Arid Climate

Ms Elmarie Kotzé, University of the Free State, Bloemfontein, South Africa



Thursday 22 April

13.00 - 14.10	Soil biodiversity in the global agenda Soil health and biodiversity in relation to UN SDGs Mr Rattan Lal, SPI-UNCCD Mainstreaming biodiversity across agricultural sectors Ms Irene Hoffman, FAO Soil biodiversity and antimicrobial resistance Ms Gunilla Eklund, Swedish Ministry of Enterprise and Innovation Soil Biodiversity: its potential for crop nutrition and disease management Ms Martha Bolaños, ITPS Bioremediation of polluted soils: status and challenges Mr Andrea Ceci, Sapienza University of Rome Artistic perspective by Suzette Bousema: Superorganism, the hidden mycorrhizal fungal network	Moderator Ms Natalia Rodriguez- Eugenio FAO/GSP
14.10 - 15.00	MAIN SESSION OUTCOMES AND KEY FINDINGS Theme 1: State of Knowledge on Soil Biodiversity Mr George Brown, EMBRAPA, Brazil Theme 2: Soil Biodiversity in Action Ms Zoe Lindo, UWO, Canada Theme 3: Soil Biodiversity shaping the future of food systems Ms Rosa Poch, ITPS	Moderator Ms Caridad Canales, CBD
15.00 - 15.30	CLOSURE OF THE SYMPOSIUM Election of the best GSOBI posters Conclusions of the Symposium and the way forward Mr Eduardo Mansur, FAO Closing remarks Ms Maria Helena Semedo, FAO	Moderator Ms Natalia Rodriguez- Eugenio, FAO/GSP

| Earthworm diversity and soil-related processes in disturbed Caspian forest

Yahya Kooch, Tarbiat Modares University, Iran

| Soils of Georgia Highlands and their Biodiversity

Mzia Kokhia, Ilia State University, Georgia

| Modelling decomposition and microbial processes under waterlogging

Bente Foereid, Norwegian Institute of Bioeconomy Research, Norway

| Ecotoxicological evaluation of lead in distinct soil classes based on acute bioassays with earthworms

Mariana Vezzone, Federal Fluminense University, Brazil

| Biodiversity of arbuscular mycorrhizae and chemical properties in soils of the Colombian coffee zone

Martha Marina Bolaños-Benavides, AGROSAVIA, Colombia

| A large database on functional traits for soil ecologists: BETSI

Sophie Joimel, INRA, France

| Soil survey within the Biodiversity Monitoring South Tyrol

Julia Plunger, Eurac Research, Institute for Alpine Environment, Italy

| Automatic detection of (micro)arthropods in soils

Norbert Flórián, Centre for Agricultural Research, Hungary

| Ant and termite diversity of the Colombian Amazon soils

Clara Peña-Venegas, Instituto Amazónico de Investigaciones Científicas SINCHI, Colombia

| Microbial diversity in forest soil from Vitosha mountain

Emiliya Velizarova, University of Forestry, Bulgaria

| Fungal community assembly in soils of different crops farming in the Puna (North Argentina)

Erica Lumini, MICODIF, Argentina

| Slope on soil organic carbon in domazlice district in Czech Republic

Shahin Nozari, Faculty of Agrobiology, Food, and Natural Resource, Czech Republic

| Soil biotic component indicators in Lombardy agro-ecosystems

Mauro Piazzi, TIMESIS Srl, Italy

| Microscopic "canaries in the coal mine" – environmental sequencing of microbial communities uncovers how changes in climate and land cover affect soil biodiversity and functionality

József Geml, Eszterházy Károly University, Hungary

| Earthworm biodiversity from Hyrcanian forests: natural vs. agricultural

Maria J. I. Briones, Universidad de Vigo, Spain

| Biotechnological prospecting studies on microbial strains isolated from different natural biotopes in order to obtain biologically active substances and biomaterials

Caterina Tomulescu, National Institute for Chemical-Pharmaceutical Research & Development, ICCF, Roumania

| QBS-ar in soil biodiversity monitoring: the experience of Emilia-Romagna Region

Francesca Staffilani, Servizio Geologico, Sismico e dei Suoli, Direzione Generale Cura del Territorio e dell'Ambiente, Regione Emilia-Romagna, Italy

| Biodiversity in a soil sequence under different use in an area in the interior of the Valencian Community

Desamparados Soriano Soto, Universitat Politècnica de València, Spain

| Kinetic Diversity Indices for the Characterization of Topsoil Formation in Natural and Augmented Ecosystems

Masatoshi Funabashi, Sony Computer Science Laboratories, Japan

| Soil biotic component indicators in Lombardy agro-ecosystems

Mauro Piazzi, TIMESIS Srl, Italy

| Comparison between soil biodiversity at Rio da Garça (degraded watershed) and Ribeirão Arrependido (preserved watershed)

Oswaldo Julio Vischi Filho, UNICAMP, Brazil

Poster session - Theme 2

| Progress in agro-environmental policy for the protection of soil biodiversity in Cuba

José M. Febles González, University of Havana, Cuba

| Communicating the importance of soils to human health: New options and opportunities

Eric C. Brevik, Dickinson State University, USA

| Marine Soil Biodiversity as a Key Factor for Ecosystemic Health

Toso Yann

| Effect of Fairy Ring fungi on topsoil micromorphology in Pyrenean grasslands

Lourdes M. Salazar, University of Lleida, Spain

| Utilisation of grassland vegetation is favourable to the development of earthworm communities

Kevin Hoeffner, INRAE, France

| Effect of warming-induced shrub encroachment on soil fungal communities in Western Greenland

Canini Fabiana, University of Tuscia, Italy

| The change in biological activity is a good indicator of soil organic matter change

Zsolt Kotroczó, Hungary Department of Soil Science and Water Management, Hungary

| The issue of soil pollution solved using organic farming #2: tried-out research of soil biodiversity

Pathawit Chongsermsirisakul & Siripen Iamurai, Chulalongkorn University, Bangkok and Panyapiwat Institute of Management, Nonthaburi, Thailand

| How much the Soil Biodiversity is known in Mexico?

Isabelle Barois, Instituto de Ecología A. C., Red de Ecología Funcional, Mexico

| In Vitro Screening for Highly Effective Strains of Azotobacter

Marisa Phiromtan De Bels, Loei Rajabhat University, Thailand

| Vermicompositing: An alternative and complimentary eco-friendly tool for sustainable waste management and soil fertility enhancement

Kadarkarai Murugan, Bharathiar University. India

| Thirty Years Of Different Amendment Practices: Effects On Microbial Soil Turnover

Gabriella Rossi, Council for Agricultural Research and Economics, Research Center for Agriculture and Environment, Italy

| Urban and peri-urban gardening promotes urban and soil biodiversity

Claudio Beni, Council for Agricultural Research and Economics, Research Center for Agriculture and Environment, Italy

| Assessment of the influence of urban soil use classes on soil biological quality and biodiversity of micro arthropods

Anita Maienza, Institute for BioEconomy, National Research Council, Italy

| Development of a multi-criteria evaluation of agroecological practices involving soil biodiversity, agronomic performance and farmer perception

Laetitia Bernard, IRD UMR Eco&sols, France

| Yatesbury House Farm is Growing Soil

Richard Gantlett, University of Reading, United Kingdom

Poster session - Theme 3

| Phosphate Solubilizing Bacteria and Arbuscular Mycorrhizal Fungi Differentially Benefit Barley and Enhance Phosphate Contents

Fatima Ezzahra Chouyia, Hassan II University, Morocco

| Metabolic activity of Pseudomonas sp isolated from agricultural soils

Antonio Rivera, Instituto de Ciencias de la Benemérita Universidad Autónoma de Puebla, Mexico

| Perennial Energy Crops and Organic Fertilization increase Soil Biological Activity and Soil Fertility on Sandy Substrate

Moritz Nabel, German Federal Agency for Nature Conservation, Germany

| Effect of different Inoculants in growth of Solanum tuberosum and the control of Rhizoctonia solani

Patricia Verástegui-Martínez, Universidad Nacional Agraria La Molina, Peru

| Diversity and distribution of mycorrhizal arbuscular fungi associated to Bambara groundnut (Vigna subterranea (L.) Verdcourt) in different agro-ecological zones in Benin

Leslie-Dolorès Raïssa BOSSOU, Laboratory of Soil Microbiology and Microbial Ecology, Benin

| Effects of conservative practices on soil ecosystem of Mediterranean high-density olive orchard

Elena Gagnarli, CREA, Italy

| The Interdependence of Soil Function and Soil Biological Diversity: Lessons from an 8-year Cover Crop Study in Semi-Arid Montana, USA

Catherine Zabinski, Montana State University, USA

| Long term impact of soil fauna conservation practices on the introduced mesofauna and soil chemical properties in rain fed agro ecosystem

Kumar, N.G, University of Agricultural Sciences GKVK, BENGALURU, India

| ZEOWINE ZEOlite and WINEry waste as innovative product for wine production

Davide Manzi, CNR-IRET, Italy

| Soil biodiversity in action: ecological intensification of soil processes for agrosystem services in the tropics

Eric Blanchart, IRD, UMR Eco&Sols, France

| Arbuscular mycorrhizal fungi mitigate drought impacts and improve nutrient status of Commiphora myrrha seedlings

Emiru Birhane, Mekelle University, Ethiopia

| Soil biodiversity enhancement in European agroecosystems to promote their stability and resilience by external inputs reduction and crop performance increase – SoildiverAgro

David Fernández-Calviño, University of Vigo, Spain

| Conservation of biodiversity through sustainable management of phytonematodes in plantain cultivated soils (Musa AAB SIMONDS)

Luis Gabriel Bautista-Montealegre, AGROSAVIA, Colombia

| Soil Biodiversity and Sustainable Vineyards: Hints From the Analysis of Microarthropod Communities

Aldo D'Alessandro, University of Camerino, Italy

| Bacterial community in melon/cowpea intercropping systems with reduced nitrogen application

Margarita Ros, CEBAS-CSIC, Spain

| Ecological intensification of Mediterranean vineyards: effects on soil conservation and economic viability

Pilar Andrés, CREAF, Spain

| Cultivation and Grazing Impact on Extracellular Enzyme Activity in Alberta Grasslands

Dauren Kaliaskar, University of Alberta, Canada





The Global Soil Partnership (GSP) is a globally recognized mechanism established in 2012. Our mission is to position soils in the Global Agenda through collective action. Our key objectives are to promote Sustainable Soil Management (SSM) and improve soil governance to guarantee healthy and productive soils, and support the provision of essential ecosystem services towards food security and improved nutrition, climate change adaptation and mitigation, and sustainable development.

Thanks to the financial support of







