

XIX Congress of European Mycologists Perugia (Italy) 4th-8th 2023

Sunday, September 3th, 2023

			Location: Hotel Giò Wine and Jazz Area
			Pre-Congress Meeting
		10:00-17:00	Red listing of Mediterranean fungal species. Workshop by IUCN SSC Fungal Conservation Committee Leader: Gregory M. Mueller , Chicago Botanic Garden Chair, IUCN SSC Fungal Conservation Committee
		18:00	Informal welcome reception

Monday, September 4th, 2023

		08:15	Registration opening
		9:00-10:00	Congress Opening. Official greetings
		10:00-10:45	Keynote lecture: The evolution of phytopathogenic fungi Speaker: Pedro Crous , Westerdijk Fungal Biodiversity Institute, Utrecht, Netherlands
		10:45-11:00	Discussion
		11:00-11:20	Coffee break
		11:20-13:30	Session FUNGAL DIVERSITY & INTERACTIONS 1 Leaders: Pietro Buzzini , Gianluigi Cardinali , University of Perugia
11:20	Buzzini Pietro	Open lecture	Polar and non-polar cold habitats: an ecological niche harboring extremophilic fungal diversity
11:40	Buratti Simone	Oral presentation	What lies beneath the logs: a collection of polyporoid and corticioid strains of central and northern Spain.
11:55	Capra Vittorio	Oral presentation	Exploring the Fungal Biodiversity Richness in the Root System of Lavender
12:10	Filippova Nina	Oral presentation	The diversity of larger fungi in peatlands: ten years of plot-based monitoring complemented by barcoding and metabarcoding
12:25	Hagh-Doust Niloufar	Oral presentation	Evaluation of global diversity of leaf-associated fungi
12:40	Logar Robert	Oral presentation	Combination of hosts and geographic origin affect the differentiation in <i>Fomes fomentarius</i> species complex
12:55	Siedlecki Igor	Oral presentation	Ants' infrabuccal pocket as a source of fungal novelties – a discovery of <i>Formicomycetes</i> gen. nov. (<i>Chaetothyriales</i>) from <i>Formica polyctena</i> ants
		13:30-14:30	Lunch
	Parallel Session	14:30-16:40	Parallel Session FUNGAL DIVERSITY & INTERACTIONS 2 Leaders: Claudia Perini , University of Siena, Italy; Maria Rudawska , Polish Academy of Sciences, Poland
14:30	Claudia Perini	Open Lecture	Community composition of wood-inhabiting fungi in Mediterranean deciduous oak woods
14:50	Coleine Claudia	Oral presentation	Untangling diversity and adaptation of rock-inhabiting fungi in drylands
15:05	Nicola Lidia	Oral presentation	A comprehensive multi-method study of the fungal taxonomic and biological diversity in a model montane area
15:20	Pawłowska Julia	Oral presentation	No fungus is an island: how endophytic bacteria may affect enzymatic capacities of their hosts?
15:35	Williams Geoffrey	Oral presentation	Fungi associated with ambrosia beetles in southern beech forests of Patagonia, Argentina
15:50	Wrzosek Marta	Oral presentation	<i>Solidago canadensis</i> and fungi. How plant invasion influence mycocoenoses
16:05	Breyer Eva	Oral presentation	Oceanic fungal diversity and biomass distribution in the Atlantic Ocean
16:20	Tomasz Leski	Oral Presentation	Diversity of soil fungi in different beech forest communities of the Wolin National Park (Poland)
	Parallel Session	14:30-16:40	Parallel Session FUNGAL OMICS Leaders: Torda Varga , Comparative Fungal Biology, Royal Botanic Gardens, Kew, London, UK; Laura Zucconi , Tuscia University, Viterbo, Italy
14:30	Varga Torda	Open lecture	How does phylogenomics help us to understand fruiting body evolution?
14:50	Baltar Federico	Oral presentation	Global contribution of pelagic fungi to organic matter degradation in the ocean
15:05	Goppa Lorenzo	Oral presentation	Unrevealing the Hidden Secrets of <i>Hericium erinaceus</i> Mycelium and Sporophore through Comparative Proteomics
15:20	Selbmann Laura	Oral presentation	A class-wide genomic tendency throughout specific extremes in Black Fungi
15:35	Dulia Olesia	Oral presentation	Unraveling the complexity of antibiotic-related genetic machinery in pan-European soil metagenomes
15:50	Mikryukov Vladimir	Oral presentation	Metabarcoding with confidence: Leveraging PacBio full-length ITS sequences with NextITS and PipeCraft2 pipelines
16:05	Ceci Andrea	Oral presentation	Mycoremediation in agricultural soils heavily contaminated by hexachlorocyclohexane (HCH) isomers: insights from the HCH-degrading <i>Penicillium griseofulvum</i> MUT5854
16:20	Susanne Gløersen	Oral presentation	The Future is Fungi Award
		16:40-17:00	Coffee break
		17:00-19:00	Workshop: FUNGAL DATA MANAGEMENT & OPEN SCIENCE Leaders: Meyer Wieland , director of Fungal Biodiversity Institute, President of IMA; Urmás Kõljalg , Tartu University, Estonia; Gianluigi Cardinali , Perugia University, Italy; Dmitry Schigel , GBIF, Denmark
17:00	Meyer Wieland	Introductory lecture	Open access data as source for discovery
	Urmás Kõljalg	topic 1	Data management in UNITE
	Francesca Floccia	topic 2	The NDM Italian Project
	Dmitry Schigel	topic 3	eDNA metabarcoding data in GBIF.org
	Conti Angela	topic 4	Who's there? Retrieving genetic markers from public databases to improve fungal species delimitation and identification
	Robert Vincent	topic 5	Data or species?
	Cardinali Gianluigi	Topic 6	From data mining to data meaning in fungal evolution of diversity
			Discussion

Tuesday, September 5th, 2023

		08:30-09:30	Poster session
		9:30-10:15	Keynote lecture: Fungal communities in trees: development in space and time Speaker: Lynne Boddy , Cardiff University, Wales, UK
		10:15-10:30	Discussion
		10:30-10:50	Coffee break
		10:50-13:00	Session FUNGI IN CHANGING ECOSYSTEMS Leaders: Simone Di Piazza , Genoa University, Italy; Izabela Kalucka University of Lodz, Poland
10:50	Simone Di Piazza	Open lecture	Fungal-assisted remediation to mitigate environmental over-exploitation
11:10	Canini Fabiana	Oral presentation	Soil fungi as a tool to contrast the diffusion of invasive vegetation species in coastal sand dunes
11:25	Masaphy Segula	Oral presentation	Effect of ecosystem changes on proliferation of tow ecotypes of Morels (<i>Morchella</i> spp.)
11:40	Oliveira Paulo	Oral presentation	Predictability of Fruiting as a Function of Growing Degree-Days
11:55	Marta Kujawska	Oral presentation	Soil fungal communities of <i>Ulmus laevis</i> grown at forest and non-forest habitats
12:10	Varese Giovanna Cristina	Oral presentation	The fungal plastisphere in marine and terrestrial environments: combining culture-dependent and culture-independent approaches
12:25	Ważny Rafał	Oral presentation	Endophytic and soil fungi in ecosystems polluted with toxic metals
12:40	Zucconi Laura	Oral presentation	Soil fungal communities in threatened polar and alpine environments
		13:00-14:30	Lunch
		14:30-16:40	Parallel Session FUNGAL CONSERVATION with report from the Pre-Congress meeting Leaders: Anders Dahlberg , Swedish University of Agricultural Science, Sweden; Anna Maria Persiani , Sapienza University of Rome, Italy
14:30	Dahlberg Anders	Open lecture	REPORT from the Workshop
14:50	Mueller Gregory	Oral presentation	Where are we in assessing the conservation status of European fungal species?
15:05	Daniele Inita	Oral presentation	New red data list of Latvian Fungi (<i>Agaricales</i> s.l.) based on IUCN criteria
15:20	Copot Ovidiu	Oral presentation	Potential importance of the environmental DNA for improving fungal Red Listing
15:35	Vasutova Martina	Oral presentation	How do fungal communities restore in formerly extracted raised bogs
15:50	Krisai-Greilhuber Irmgard	Oral presentation	Bullshit fungi – fimicolous fungal biodiversity hot spots on Heck cattle dung in Vienna
16:05	Wainhouse Matthew	Oral presentation	Fungal conservation: Inoculation of heart-rot in living trees – establishing heart-rot fungi
		14:30-16:40	Parallel Session EMERGING PATHOGENIC FUNGI Leaders: Matteo Garbelotto , University of California, Berkeley; Mirco Iotti , University of l'Aquila, Italy
14:30	Garbelotto Matteo	Open lecture	Latent pathogens triggered by climate change are causing novel large-scale tree decline and mortality in California

15:05	Prospero Simone	Oral presentation	Emerging ink disease of sweet chestnut in southern Switzerland
15:35	Girometta Carolina Elena	oral presentation	Emergence of the wood-decay pathogen <i>Fomitiporia mediterranea</i> in Pavia province (North Italy)
15:50	Stošić Stefan	Oral presentation	<i>Talaromyces</i> spp. - the postharvest fruit pathogens in Serbia
16:05	Gonthier Paolo	Oral presentation	The threat posed by the invasive fungal pathogen of pines <i>Heterobasidion irregulare</i> in Europe:
		16:40-17:00	Coffee break
		17:00-18:30	ECCF Open Discussion Forum Leader: Susana C. Gonçalves , chair of the European Council for the Conservation of Fungi (ECCF)
		20:00-23:00	Congress Social Dinner
Wednesday, September 6th, 2023			
		09:00-18:30	Parallel Excursions: 1) Sacred Wood of Monteluco (Spoleto) with collecting fungi, with local mycological association. 2) Visit the Umbrian truffle ground in the Tiber Valley
Thursday, September 7th, 2023			
		8:30-9:30	Poster session
		9:30-10:15	Keynote lecture: Current perspectives, progress, evidence and challenges on medicinal mushrooms in Europe...(consistent with the session?) Speaker: Giuseppe Venturella , Palermo University, Italy
		10:15-10:30	Discussion
		10:30-10:50	Coffee break
		10:50-13:00	Session MEDICINAL MUSHROOMS Leaders: Marin Berovic , Ljubljana University, Slovenia; Elena Savino , University of Pavia, Italy
10:50	Marin Berovic	Open Lecture	Comprehensive Technologies for Large Scale Medicinal Mushroom Biomass Cultivation
11:10	Cirlincione Fortunato	oral presentation	Preliminary investigation on antioxidant, antibacterial and antiproliferative activities on <i>Pleurotus eryngii</i> var. <i>thapsiae</i> , as potential source of bioactive compounds
11:25	Ferraro Valeria	oral presentation	Microwave-assisted extraction and medicinal mushrooms: an innovative and promising technique with significant applicative implications
11:40	Kütt Karin	oral presentation	Spread, rot damages in trees and growth rate of <i>Inonotus obliquus</i> in pure culture.
11:55	Mirabile Giulia	oral presentation	Antimicrobial activity of <i>Pisolithus arhizus</i> methanolic extract: preliminary results against some human pathogenic bacteria
12:10	Rossi Paola	oral presentation	<i>Hericium erinaceus</i> modulates gut microbiome-brain axis adapting gut microbiome composition and reducing neuroinflammation in frail aged mice
12:25	Lawrenova Viktoriia	oral presentation	Novel anticoagulant enzyme produced by <i>Aspergillus tabacinus</i>
12:40	De Mattheis Martina	oral presentation	Ethanol extracts of <i>Fomes inzegae</i> and <i>Laetiporus sulphureus</i> inhibits in vitro survival and migratory activity in hepatocarcinoma cells
		13:00-14:30	Lunch
		14:30-16:40	Session MYCOLOGY BY YOUNG SCIENTISTS Leader/co-leader: Gaia Cusumano , Giancarlo Angeles Flores , University of Perugia
14:30	Abramczyk Beniamin	Oral presentation	Mucoromycota-bacterial interactions in postindustrial soil
14:40	Ranocchi Bianca	Oral presentation	The effect of bacteria spp. to stimulate <i>Tuber melanosporum</i> root colonization and growth of young seedlings of <i>Quercus ilex</i> L.
14:50	Spinelli Veronica	Oral presentation	Fungi sniffing fungi: a working expansion of the Phenotype MicroArrays™ system to assess the effects of fungal volatile organic compounds between co-occurring species
15:00	Stojek Katarzyna	Oral presentation	Environmental factors affecting nutritional values of mushrooms
15:10	Emporiti Marta Elisabetta Eleono	Oral presentation	Fungus and plastic interaction: sub-micron X-ray microscopy provided novel results
15:20	Stoppiello Gerardo Antonio	Oral presentation	Lichen mycobionts and endemism are key drivers for bacterial diversity associated to the thalli
15:30	Biagioli Federico	Oral presentation	Climate drives diversity patterns of dominant microbial taxa in caves worldwide
15:40	Giovannini Roberto	Oral presentation	Recruiting microorganisms for soil restoration: bioremediation of a co-contaminated soil using fungal bioresources isolated from a decommissioned military site.
15:50	Nowak Maksymilian	Oral presentation	Biosurfactant production by representatives of Mucoromycotina and Mortierellomycotina
16:00	Wiktorowicz Dorota	Oral presentation	In search of the fungal plastic degraders
16:10	Gaia Cusumano	Oral presentation	Metabolomics as a tool to discriminate <i>Ganoderma lucidum</i> and <i>Ganoderma valesiacum</i> mycelium grown in liquid culture medium
16:20	Angeles Flores Giancarlo	Oral presentation	Exploring Macrofungal Diversity in Sacred Natural Sites of Umbria, Italy
			Discussion
		16.40-17.00	Coffee break
17:00-18:30	EMA General Assembly	17:00-18:30	EMA General Assembly
Friday, September 8th, 2023			
		8:30-9:30	Poster session
		9:30-10:15	Keynote lecture: Fungal materials Speaker: Han A.B Wösten , Utrecht University, Netherlands
		10:15-10:30	Discussion
		10:30-10:50	Coffee break
		10:50-13:00	Session FUNGI IN BIOECONOMY AND CIRCULAR ECONOMY Leaders: Ahmed M. Abdel-Azeem , Suez Canal University, Egypt; Giovanna Cristina Varese , Torino University, Italy
10:50	Ahmed M. Abdel-Azeem	open lecture	Circular Economy of الفطرية (Champignon, Fangasi) in Africa: Current Status and Future Prospects
11:10	Ferrero Davide	oral presentation	Mycoproteins of medicinal mushroom from submerged fermentation of agroindustrial byproducts
11:25	Landeta Catalina	oral presentation	Metabolomic analysis and evaluation of nutritional compounds of a new mycoprotein from artificial fungi consortia with seaweed-derived fungi and terrestrial filamentous fungi
11:40	Van Hamelsveld Sophie Joy	oral presentation	Changes in soil fungi associated with New Zealand mānuka (<i>Leptospermum scoparium</i>) irrigated with treated wastewater.
11:55	Balenzano Gaetano	oral presentation	Cultivation trials of medicinal mushrooms on crop residues for sustainability of wineries
12:10	Ostrowski Grzegorz	oral presentation	Isolation of the Mucoraceae from the dry-aged beef and their evaluation as potential biostarter for meat ageing
12:25	Irbe Ilze	oral presentation	Exploiting wood-destroying fungi for the fabrication of novel biomaterials: mycelium composites
12:40	Mirasole Cristiana	oral presentation	Brucker Italia S.r.l. Daltonics Division
		13:00-14:30	Lunch
		14.30-16:40	Session ADVANCEMENTS IN FUNGAL CULTIVATION: HARNESSING THE POWER OF FUNGI FOR SUSTAINABLE DEVELOPMENT Leaders: Federico Puliga , Bologna University, Italy; Elena Salerni , Siena University, Italy
14:30	Puliga Federico	Open lecture	Mushrooms cultivation: current status and future perspectives
14:50	Zuffi Veronica	Oral presentation	Anaerobic digestate: a promising growing substrate for full-scale cultivation of <i>Pleurotus ostreatus</i>
15:05	Kochanowski Michał	Oral Presentation	Are healthy protein-rich termite fungal crops promising as human food? Preliminary studies.
15:20	Salerni Elena	Oral Presentation	Combined impact of forest management and climate change on <i>Boletus edulis</i> productivity: may mycosilviculture mitigate the effects of climate extremes?
15:35	Graziosi Simone	Oral Presentation	First evidence of symbiotic relations between <i>Bradyrhizobium</i> spp. and <i>T. magnatum</i> mycelium
15:50	Mirco Iotti	Oral Presentation	What more is there to know about biology of morels (<i>Morchella</i> spp.) to improve their cultivation?
16:05	Rondolini Mara	Oral Presentation	Environmental study on different <i>Tuber magnatum</i> natural production areas
		16.40-17.00	Coffee break
		17:00-18:00	Closing Ceremony: Congress Awards, Announcement for the XX CEM
Saturday, September 9th, 2023			
		Post-Congress Meeting. Remote connection will be available via Teams	
		9:30-12:00	Mycological Groups & Societies in Europe: how can we cooperate? XIXCEM societies meeting INFO
			Meeting leaders: Izabela Kalucka – president of the European Mycological Association (EMA), Alessandra Zambonelli – president of the Italian Union of Mycology (UMI), Julia Pawlowska – president of the Polish Mycological Society (PTMyk), Solveig Tosi – coordinator of the Italian Botanical Society working group for mycology.