



**Dear PLANTMETALS members, we would like to invite you to our 2024 Annual Meeting in Ljubljana.**

As usual, the meeting will include invited lectures, talks from submitted abstracts, a poster session (with best poster awards) and the MC Meeting. There will be ample opportunities for discussion during the coffee breaks, shared mealtimes, and the two planned dinners.

In addition, we have included an excursion to a UNESCO Heritage Site of a historic mercury mine and the effects of this mining on the surrounding vegetation.

Online registration: <https://forms.gle/18i8ppkhrAeTJVS96>

For more information about the 2024 Annual Meeting, rules for posters and abstracts, please check the PLANTMETALS events page at [www.plantmetals.eu/plantmetals-events.html](http://www.plantmetals.eu/plantmetals-events.html)

Organizing team:

Paula Pongrac (main local organiser) and team,  
Biotechnical Faculty, University of Ljubljana, Slovenia.  
Hendrik Küpper, Robert Dulfer,  
Biology Centre CAS, České Budějovice, Czech Republic.  
Nathalie Verbruggen, Université libre de Bruxelles, Belgium.

Service provider: Slovenian Society of Plant Biology


# Programme

Tuesday, 17<sup>th</sup> September

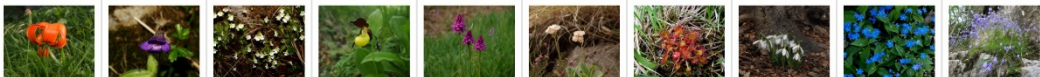
15:00-16:30		Registration, poster mounting, welcome coffee	
16:30-16:45		Opening address by PLANTMETALS Action Chair and the LOC	
16:45-18:45	16:45-17:45	Session 1 (WG 1 1/2)	Plenary lecture: Catherine Curie: A new role for the Mn transporter NRAMP2 in the seed including novel analytical and imaging tools to decipher metal homeostasis
	17:45-18:00		Contributed talk 1: Seckin Eroglu: Iron accumulates in seed endosperm to trigger seed coat rupture
	18:00-18:15		Contributed talk 2: Sebastien Thomine: Regulation of intracellular free zinc concentration in Arabidopsis thaliana
	18:15-18:30		Contributed talk 3: Marie-Pierre Isaure: Various strategies developed by Arabidopsis halleri to cope with Cd toxicity
	18:30-18:45		Contributed talk 4: Sina Fischer: Ionomics Phenotypes in neo-tetraploids
19:30-23:00		<b>Get-together dinner: Gostilna Čad (Cesta na Rožnik 18, 1000 Ljubljana) , included in the registration payment. Location: <a href="https://hotel-cad.si/en/restaurant/">https://hotel-cad.si/en/restaurant/</a>)</b>	

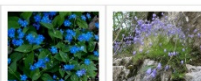
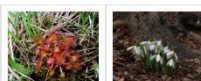
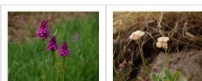
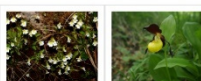
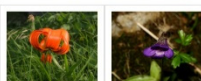




08:30-10:00	08:45-09:15	Session 2 (WG 2)	Invited lecture 1: Hendrik Küpper: Biochemical and physiological evidence for a beneficial role of chromium in plants
	09:15-09:30		Contributed talk 5: Marie-Theres Hauser: Effects of Nickel on pectinmethylesterase (PME)/ pectinmethylesterase inhibitor (PMEI) expression and activity in Arabidopsis thaliana
	09:30-09:45		Contributed talk 6: Fernando Antônio Gomes Brito: Cadmium (Cd) and Zinc (Zn) Isotope Fractionation in a Plant Metallothionein
	09:45-10:00		Contributed talk 7: Jonathan Przybyla-Toscano: Adaptation of the membrane- and cell wall-associated proteome of Arabidopsis thaliana roots in response to uranium stress
10:00-10:30		Coffee break	
10:30-12:00	10:30-11:00	Session 3 (WG 4)	Invited lecture 2: Matthias Wiggerhauser: Cadmium, Zinc, and Copper leaching rates determined in large monolith lysimeters
	11:00-11:30		Invited lecture 3: Hester Blommaert: The pathways of cadmium in cacao: in light of a synchrotron source
	11:30-11:45		Contributed talk 8: Michel Mench: Phytomanagement of metal(loid)-contaminated soils with biomass sorghum: successes and failures
	11:45-12:00		Contributed talk 9: Gianluigi Giannelli: The multi-stress resistant PVr_9 bacterial strain mitigates Na <sup>+</sup> ions toxicity in Arabidopsis and tomato and improves tomato fruit nutritional characteristics
	12:00-12:15		Contributed talk 10: Aida Bani: Agromining as an agricultural alternative in the serpentine soils of the Albania
	12:15-12:30		Contributed talk 11: Valerie Bert: Characterization of Arabidopsis halleri and Urtica dioica Responses to Zn and Cd: Soil management Practices to Help Biofortification?
12:30-14:00		Lunch break	
14:00-17:30		Management Committee Meeting & Coffee break	
19:00-23:00		<p>Conference dinner: Allegria (Nazorjeva ulica 8, 1000 Ljubljana) self-paid, 40 € without beverages, to be paid on-site at the registration desk.</p> 	

<b>08:30-10:00</b>	08:30-09:00	<b>Session 4 (WG 3 1/2)</b>	Invited lecture 4: Tomica Mišljenović: Revealing Tl hyperaccumulation in the flora of the abandoned Allchar mine: New findings and future perspectives
	09:00-09:15		Contributed talk 12: Stéphane Ravanel: Cellular and molecular responses of the metal-tolerant green microalga Coelastrella to uranium
	09:15-09:30		Contributed talk 13: Paco Romero: Physiological, biochemical and molecular approaches to understand the copper deficiency response in tomato
	09:30-09:45		Contributed talk 14: Petra Maskova: Horseradish, a panacea for arsenic contamination in temperate zone?
	09:45-10:00		Contributed talk 15: Emre Aksoy: Development of Soybean Lines with High Iron and Low Phytate Content via Gene Editing
<b>10:00-10:30</b>		<b>Coffee break</b>	
<b>10:30-12:00</b>	10:30-10:40	<b>STSM reporting</b>	Overview (can be extended if needed, depending on the number of STSMs reports)
	10:40-10:50		STSM1
	10:50-11:00		STSM2
	11:00-11:10		STSM3
	11:10-11:20		STSM4
	11:20-11:30		STSM5
	11:30-11:40		STSM6
	11:40-11:50		STSM7
	11:50-12:00		STSM8
<b>12:00-13:30</b>		<b>Lunch break</b>	
<b>13:30-15:05</b>	13:30-14:00	<b>Session 5 (WG 3 2/2)</b>	Invited lecture 5: Marjana Regvar: Resolving structure-related trace element and molecular composition of Tartary buckwheat grain
	14:15-14:30		Contributed talk 16: Josip Jurkovic: Norway spruce (Picea Abies) needles as indicator for heavy metals pollution of Sarajevo
	14:30-14:45		Contributed talk 17: Pietro Peroni: Effect of root biostimulants on root growth and metal(loid)s uptake in Miscanthus x giganteus
	14:45-15:00		Contributed talk 18: Hagai Yasour: Involvement of trace metal nutrition in plant physiology process and abiotic stress responses
<b>15:00-18:00</b>		<b>Poster session &amp; Coffe break</b>	

08:30-10:00	08:30-09:00	Invited lecture 6: Oscar Siemianowski: How do plants manage their microelements? Untangling the Zn Transport Mechanisms Between Lateral Roots	
	09:00-09:15	Contributed talk 19: Jessie Shadbolt: Good copper, bad copper: Characterising the physiological implications of contrasting alleles of HvHMA5	
	09:15-09:30	Session 6 (WG 1 2/2)	Contributed talk 20: Filis Morina: Micronutrients at the frontline of plant defence responses
	09:30-09:45		Contributed talk 21: Filip Poščić: Iron-mediated mitigation of hexavalent chromium toxicity in Brassica juncea and Raphanus sativus
	09:45-10:00		Contributed talk 22: Katarina Vogel-Mikuš: Mercury ligand environment in the food chain as affected by Se biofortification of plants
10:00-10:30	Coffee break		
10:30-12:30	10:30-11:30	Planning the future of the PLANTMETALS as a society	
	11:30-12:00	Poster removal, wrap-up	
12:00-13:15		Lunch break	
13:30-20:00	<b>Botanical Excursion: Visit the Idria valley and Hg mine</b> <a href="https://www.geopark-idrija.si/en/natural-heritage/plants/">https://www.geopark-idrija.si/en/natural-heritage/plants/</a>		
	<p>The important European and international scientists who came to Idria because of the mine did not only explore its geology, but also its botany. They laid the foundations of natural science in Slovenia. Knowledge of flora has a long tradition in the Idria environment, which began with the arrival of the first botanist in Slovenia in the 16th century, <b>P. A. Mattioli</b>. He was followed by doctor and naturalist <b>G. A. Scopoli</b>, who discovered and described several previously unknown species, including the <b>henbane bell</b>, <i>Scopolia carniolica</i>, named after him. <b>B. Hacquet</b> worked in Idria as the mine doctor. Two plants are named after him: <i>Hacquetia epipactis</i> and <i>Pedicularis hacquetii</i>. <b>F. Hladnik</b>, born in Idria, is known as the founder of the Ljubljana Botanical Garden. Dedicating his life to researching the flora of the Carniolan region, he discovered a plant on the Trnovo Forest area that was later named <i>Hladnikia pastinacifolia</i>. In his memory, the left side of the Rake walking path was named Hladnik Botanical Ledge as many famous plants flower here in the spring. <b>H. Freyer</b> was born to a famous Idria-based pharmacist Karl Freyer. He spent a lot of his time to studying botany in the Idria region and was the first to describe <i>Daphne blagayana</i>, a flower even Frederick Augustus II of Saxony came to see.</p> <p>Famous in Idria and its vicinity is also <i>Primula x venusta</i> that is a hybrid between <i>Primula auricula</i> and <i>Primula carniolica</i>. In the Upper Idria area, there grow several species of <b>orchids</b> (Orchidaceae). Also special are Alpine plants such as the <b>alpine snowbell</b>, the <b>flower of the sweet-lady</b>, <i>Rhodothamnus chamaecistus</i>, and the <b>Bertoloni columbine</b>.</p> <p>As a homage to the pioneering researchers of nature, <b>Scopoli's Memorial Garden</b> is planted in Idria – at the entry point to the Rake Walking Path.</p>		
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## Location:

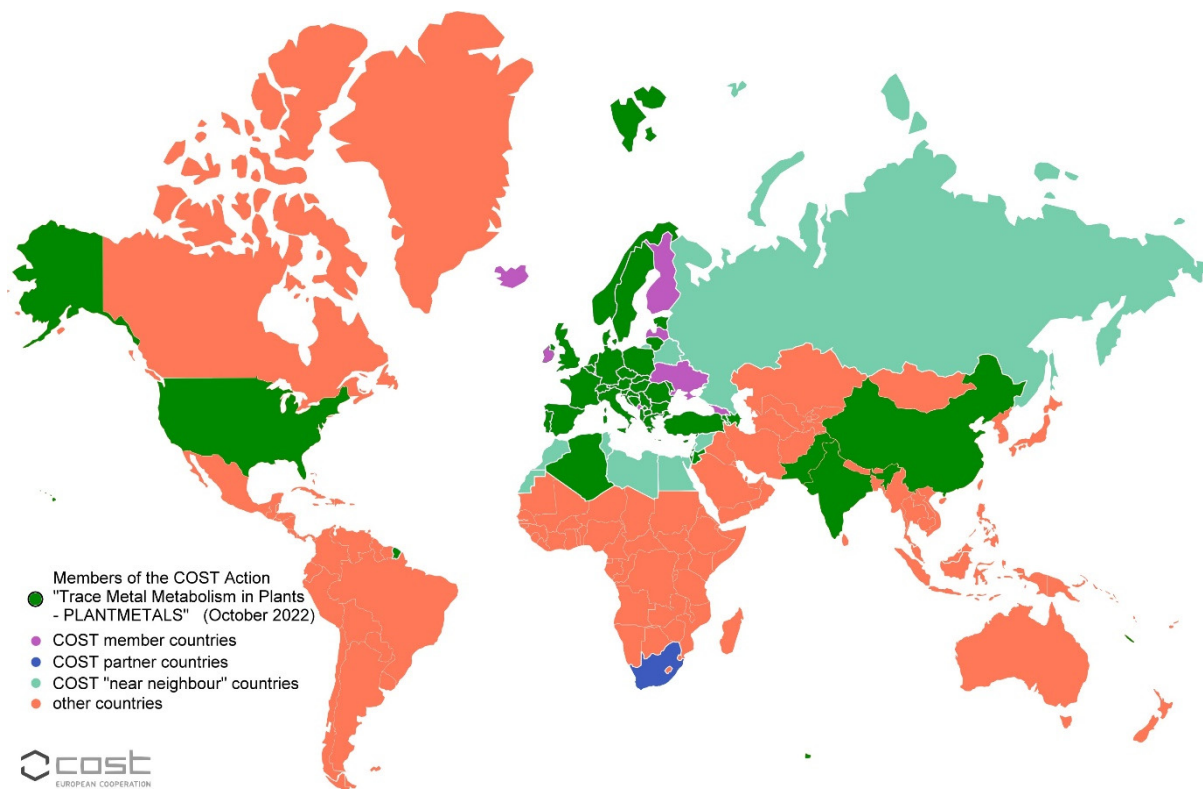
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Organised in liaison with the Slovenia Society of Plant Biology



Slovensko društvo za biologijo rastlin  
*Slovenian Society of Plant Biology*



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# Metals, Plants and People