Conference Programme

Please note that all timelines are given in Central European Time (CEST, UTC+02:00)

Wednesday 9th July 2025

13:00-13:10	Urszula Krasuska	**Start of the conference and welcome of the guests**
13:10-13:20	Urszula Krasuska	**Presentation about Warsaw and Warsaw University of Life Sciences (SGGW)**
Chair: Urszula Krasuska		
13:20-13:50	John Hancock	History of "The NO Club" or how did we get to PNO10?
13:50-14:30	Francisco J Corpas	Plant NO enzymatic production: An updated view
14:30-14:50	Break	
Reactive nitrogen species and metabolism Part I Chairs: Zsuzsanna Kolbert Ördögné and Alexandre Boscari		
14:50-15:30	Christian Lindermayr	Function of *S*-nitrosoglutathione reductase in adaptation to a changing environment
15:30-15:50	Ignacio Bienaime-Estevez	Redox regulation of the Primary Nitrate Response in plants
15:50-16:10	Priyanka Babuta	Recent advancements in the detection of reactive oxygen/nitrogen species in plant biology
16:10-16:30	Maria Meloni	Molecular and structural basis for nitrosoglutathione-dependent redox regulation of triosephosphate isomerase from *Chlamydomonas reinhardtii*
16:30-16:50	Agnieszka Wal	NO regulates the uptake of N and P in the pitcher trap of *Nepenthes x ventrata*

Please note that all timelines are given in Central European Time (CEST, UTC+02:00)

Thursday 10th July 2025

Reactive nitrogen species and metabolism Part II Chairs: Agnieszka Gniazdowska-Piekarska and Francisco J Corpas		
9:00-9:40	John T Hancock	The interactions of nitric oxide with intracellular redox status and the influence of molecular hydrogen
9:40-10:00	Lorena Aranda-Caño	Signalling and biodistribution of nitro-fatty acids in plant cells
10:00-10:20	Jorge Taboada	Polyamine oxidase (PAO) genes expression is differentially modulated by NO and melatonin in sweet and hot pepper (*Capsicum annuum* L.) fruits
10:20-10:40	Maciej Piekarniak	The impact of hydrogen cyanide on RNS content in apple (*Malus domestica* Borkh.) embryonic axes during seed dormancy alleviation
10:40-11:00	**Break**	
Reactive nitrogen species in abiotic stress Part I Chairs: John T Hancock and Marek Petřivalský		
11:00-11:40	Kapuganti Jagadis Gupta	The role of phytoglobin-nitric oxide cycle in low oxygen stress tolerance and nitrogen use efficiency
11:40-12:00	Shuhua Zhu	Effect of taurine treatment on nitric oxide metabolism of fresh-cut peaches
12:00-12:20	Soumya Mukherjee	NO, H_2S, and H_2O_2 crosstalk in abiotic stress: Cue to long-distance signaling
12:20-12:40	Ginevra M E Peppi	Structural and functional dissection of catalytic and redox properties of AKR4C isoforms from *Arabidopsis thaliana*
12:40-13:00	Diego Piacentini	The role of *Arabidopsis* CATALASE2 in root development involves NO and is hidden by cadmium treatment
13:00-13:20	**Break**	
13:20-14:20	**Poster Session**	
14:20-15:00	**Lunch Break**	

Please note that all timelines are given in Central European Time (CET, UTC+02:00)

Thursday 10th July 2025

Reactive nitrogen species in abiotic stress Part II Chairs: Magdalena Arasimowicz-Jelonek and Christian Lindermayr		
15:00-15:20	Rafael C da Silva	Nitric oxide-releasing chitosan nanoparticles improve water deficit tolerance in *Araucaria angustifolia* (Bertol.) Kuntze (Araucariaceae) seedlings
15:20-15:40	Patricia J Lopes-Oliveira	Influence of SlGSNOR manipulation on tomato responses to long-term moderately high temperature
15:40-16:00	Iara Deluca	Ultraviolet-B radiation induces NO accumulation and reduces biofilm formation in the cyanobacterium *Synechococcus* PCC 7335 *via* a NOS- and NR-independent mechanism
Reactive nitrogen species in biotic stress Part I Chairs: Christian Lindermayr and Magdalena Arasimowicz-Jelonek		
16:00-16:40	Marek Petrivalsky	Decoding nitric oxide signals: The *S*-denitrosation machinery in plants
16:40-17:00	Justyna Nawrocka	Nitric oxide signaling in management of tomato plant response to grey mold disease caused by *Botrytis cinerea*
17:00-17:20	Jakub Graska	The effects of soil salinity and the mite *Aceria tosichella* infestation on nitric oxide metabolism in barley

Please note that all timelines are given in Central European Time (CEST, UTC+02:00)

Friday 11th July 2025

Reactive nitrogen species in growth and development Part I Chairs: Jagadis Gupta Kapuganti and José Manuel Palma		
9:00-9:40	Alexandre Boscari	Nitric oxide homeostasis during legume–rhizobium symbiosis: balancing signaling, metabolism, and stress adaptation
9:40-10:00	Cylia Salima Oulebsir	Decoding the role of nitric oxide in pollen development
10:00-10:20	Miriam Molina-Escobar	Regulation by NO and ripening of genes involved in carotenoid biosynthesis in sweet pepper (*Capsicum annuum* L.) fruits
10:20-10:40	Marcin Tyminski	Nitric oxide impacts the proteome in embryonic axes of artificially aged apple (*Malus domestica* Borkh.) seeds
10:40-11:00	**Break**	
Reactive nitrogen species in growth and development Part II Chairs: Juan Barroso and John Hancock		
11:00-11:40	Zsuzsanna Kolbert Ördögné	Plant naNObiology: Nitric oxide in plant-nanoparticle interactions
11:40-12:00	Talita S Amador	Seed treatment with nitric oxide-releasing nanoparticles as a sustainable strategy to improve soybean growth and development: From the laboratory to the field
12:00-12:20	João Pedro C Pereira	Seed priming with nitric oxide-releasing nanoparticles as a strategy to enhance maize performance under field conditions
12:20-12:40	José López-Bucio	A quorum-sensing mutant of *Pseudomonas aeruginosa* promotes plant growth *via* nitrate reduction and transport and nitric oxide accumulation in roots
12:40-12:45	**Announcement of PNO11**	
12:45-13:15	**Poster session (additional)**	
13:15-13:45	**Scientific Committee meeting**	
13:45-14:00	**Conference Conclusion and Presentation of Awards**	