9th Plant Nitric oxide International Meeting (PNO9), New Delhi, 2024

Program Schedule

	Day 1 (28 th February, Wednesday)				
Inaugurat	Inauguration of 9 th Plant Nitric oxide International Meeting (PNO9)- 2024				
CET (European time)	IST (Indian time)	Details			
9:30-9:35	14-00-14:05	Welcome Address by Dr. Jagadis Gupta Kapuganti , Organizer, PNO9-2024.			
9:35-9:45	14:05-14:15	Address by Dr. Subhra Chakraborty , Director, NIPGR. New Delhi			
9:45-9:50	14:15-14:20	Address by Prof. Christine H Foyer, University of Birmingham, UK.			
9:50-10:00	14:20-14:30	Address by Prof. A.S. Raghavendra & Prof. Renu Deswal			

	Session 1			
	Chairs: Prof. Joerg Durner & Prof. A.S. Raghavendra			
		Key Note Talk		
10:00-	14:30-	Prof. Gary J Loake : S-nitrosylation of a cytoplasmic receptor-		
10:30	15:00	like kinase regulates plant immunity		
		Lead talks		
10:30-	15:00-	John T. Hancock: Does nitric oxide use protein cavities?		
10:50	15:20	·		
10:50-	15:20-	Lorena Aranda-Caño: Modulation of the nitro-alkylated		
11:10	15:40	proteome by nitro-fatty acids during development and abiotic		
		stress in plants.		
11:10-	15:40-	Ginevra M. E. Peppi: Uncovering molecular and regulatory		
11:30	16:00	mechanisms underlying GSNO degradation by aldo-keto		
		reductase from <i>Arabidopsis thaliana</i> .		
11:30-	16:00-	Special issue announcement by Prof. David Wendehenne.		
11:35	16:05	·		

	Session 2			
	Chairs: Prof. Francisco J Corpas & Dr. Girigowda Manjunatha			
		Lead Talks		
11:35-	16:05-	Farida Minibayeva: Role of nitric oxide in autophagy in		
11:55	16:25	plants.		
11:55-	16:25-	Lekshmy Sathee: Elevated CO ₂ exacerbates nitric oxide		
12:15	16:45	production and modulates nitrogen metabolism in bread wheat.		
12:15-	16:45-	Ádám Solti: Nitric oxide accumulates under iron deficiency in		
12:35	17:05	chloroplasts.		
12:35-	17:05-	Ankita Sehrawat: S-nitrosoproteome analysis in Brassica		
12:55	17:25	juncea from apoplast to nucleus during cold stress		
12:55-	17:25-	Break		
14:00	18:30	DIECK		

	Session 3			
	Chairs: Prof. Juan B Barroso & Prof. Renu Deswal			
	Lead Talks			
14:00-	18:30-	Dandan Huang: Nitric Oxide maintained mitochondrial function		
14:20	18:50	in peach fruit during cold storage.		
14:20-	18:50-	Sunita Kataria: Involvement of nitrate reductase-dependent		
14:40	19:10	nitric oxide production in magnetopriming-induced salt		
		tolerance in soybean.		
14:40-	19:10-	Loriana Demecsová: Nitric oxide sustains root surface redox		
15:00	19:30	activity and growth under hypoxic conditions in barley root tip.		

	Session 4: Flash Talks			
CI	Chairs: Prof. Christian Lindermayr & Dr. Zsuzsanna Kolbert			
Tir	me			
CET	IST	Presenter	Title	
(European)	(Indian)			
15:00-	19:30-	Neidiquele M.	Revealing the influence of nitric	
15:05	19:35	Silveira	oxide signaling on drought tolerance	
			mechanisms in 'Rangpur' lime.	
15:05-	19:35-	Fernández MB	Role of NO in modulating UV-B	
15:10	19:40		stress responses in the	
			cyanobacterium Synechococcus	
			PCC 7335.	
15:10-	19:40-	Dóra Kondak	Nanotechnological Interventions:	
15:15	19:45		Exploring the Impact of Nano-Nitric	
			Oxide Donors in <i>Brassica napus</i>	
15:15-	19:45-	Priyanka Jain	Identification of Nitric Oxide	
15:20	19:50	,	Responsive Genes in Rice Upon	
			Fungal Infection	
15:20-	19:50-	Patrícia Juliana	Impacts of GSNOR manipulation on	
15:25	19:55	Lopes Oliveira	tomato heat stress responses.	

15:25- 15:30	19:55- 20:00	Josepheena Joseph	Mitochondrial alternative oxidase pathway helps in nitro oxidative stress tolerance in germinating chickpea.
15:30- 15:35	20:00- 20:05	Joanna Gajewska	Host-derived nitrosative stress activates <i>Phytophthora infestans</i> HDAC3.
15:35- 15:40	20:05- 20:10	P. Bharath	Cytosolic alkalinization of guard cell pH facilitates the increase in nitric oxide levels and stomatal closure in <i>Arabidopsis thaliana</i>
15:40- 15:45	20:10- 20:15	Ruirui Wang	Effects of red light, far red light and NO on embryo germination of Sorbus pohuashanensis
15:45- 15:50	20:15- 20:20	Anastasia Mazina	S-nitrosylation of proteins during stress-induced autophagy in wheat triticum aestivum
15:50- 15:55	20:20- 20:25	Eduardo Gómez- Copoví	Role of nitric oxide on trans- resveratrol production in grapevine cells elicited with cyclodextrins and methyl jasmonate
15:55- 16:00	20:25- 20:30	Yaiphabi Sougrakpam	Low abundant myrosinases S- nitrosation suggest myrosinases involvement in nitic oxide signalling in <i>Brassica juncea</i> .
16:00- 16:05	20:30- 20:35	Rekha	PHYTOGLOBIN - Boon or Bane during <i>Botrytis</i> fungus infection in Arabidopsis and Tomato
16:05- 16:10	20:35- 20:40	María A Muñoz- Vargas	Leucine aminopeptidase (LAP) activity from sweet pepper fruits is modulated during ripening and by NO and reducing events
16:10- 16:15	20:40- 20:45	Vijay Pratap Singh	The function of peroxynitrite in rice roots under waterlogging stress

Session 5: Flash Talks Chairs: Prof. José Manuel Palma & Prof. Francisco J Corpas			
	Time		
CET (European)	IST (Indian)	Presenter	Title
16:15- 16:20	20:45- 20:50	Garima Balyan	Mechanisms derived from titanium dioxide nanoparticles and nitric oxide interaction to alleviate salinity stress in wheat seedlings

16:20- 16:25	20:50- 20:55	Nidhi Kandhol	The Essential Role of Nitric Oxide in Zinc-induced cadmium stress resistance in rice roots
16:25- 16:30	20:55- 21:00	Kaiser Iqbal Wani	Nitric Oxide Regulates Antioxidant Machinery, Enhances PSII Efficiency, Improves Chloroplast Ultrastructure, and Promotes Artemisinin Biosynthesis in Artemisia annua Under Cadmium Stress
16:30- 16:35	21:00- 21:05	Asif Hussain Hajam	Exogenous application of nitric oxide alleviates arsenic-induced toxicity and enhances antioxidant defense mechanisms in Ocimum basilicum
16:35- 16:40	21:05- 21:10	Sheen Khan	Nitric oxide boosts photosynthetic nitrogen and sulfur-use efficiency and the ascorbate-glutathione cycle to mitigate high-temperature stress in rice plants
16:40- 16:45	21:10- 21:15	Giovanna Camargo do Carmo	Effect of nitric oxide-releasing nanoparticles on the growth and physiology of Cecropia pachystachya Trécul seedlings subjected to moderate water deficit
16:45- 16:50	21:15- 21:20	Abhaypratap Vishwakarma	A discrete strategy of AOX during hypoxia to increase nitric oxide and ATP synthesis
16:50- 16:55	21:20- 21:25	Hugo R. Guariz	S-nitrosoglutathione-loaded chitosan nanoparticles improve the physiological performance and reduce the mortality of neotropical tree seedlings after transplanting to the field
16:55- 17:00	21:25- 21:30	Anjali Pande	Chitosan-GSNO nanoparticles: a positive modulator of drought stress tolerance in soybean
17:00- 17:05	21:30- 21:35	Rosa M. Rivero	Unraveling the interplay between Melatonin and Nitric Oxide during the PSII/PSI gene dynamics under single and combined abiotic stresses

Day 2 (29 th February, Thursday)					
	Session 1				
	Chairs: F	Prof Gary Loake & Dr Jagadis Gupta Kapuganti			
CET (Europea n time)	(Europea (Indian Details				
		Key Note Talk			
9:00-9:30	13:30- 14:00	Jose F. Moran: A new oxidative pathway of nitric oxide production from oximes in plants.			
		Lead talks			
9:30-9:50	14:00- 14:20	Kapuganti Jagadis Gupta: Nitric oxide role in mitochondrial biogenesis in plants.			
9:50- 10:10	14:20- 14:40	Zoé Chaudron: Identification and functional characterization of S-nitrosated proteins during salt stress in <i>Klebsormidium nitens</i> .			
10:10- 10:30	14:40- 15:00	Ling Yang: Role of nitric oxide in stress-induced somatic embryogenesis in trees.			
10:30- 10:50	15:00- 15:20	Urszula Krasuska: An update to the model of "nitrosative door" in seed biology.			
10:50- 11:00	15:20- 15:30	Ecophysics			

	Session 2			
	Chairs: Prof. José Manuel Palma & Prof. David Wendehenne			
		Lead talks		
11:00-	15:30-	Prof Raghavendra: Nitric oxide is complemented by reactive		
11:20	15:50	oxygen species and calcium during stomatal closure and plant		
		defence against abiotic and biotic stress		
11:20-	15:50-	María José Iglesias: NO and ROS promote hypocotyl cell		
11:40	16:10	growth under shade in plants.		
11:40-	16:10-	Amedea B. Seabra: Nitric oxide-releasing polymeric		
1200	16:30	nanoparticles in plants recent progress, perspective and		
		challenges.		
12:00-	16:30-	Riddhi Datta: Unmasking the Hero: How the GSH-GSNO		
12:20	16:50	Module Defeats Iron Deficiency in Plants.		
12:20-	16:50-	Staszek P: Canavanine-induced decrease in NO synthesis		
12:40	17:10	alters cell cycle regulation.		
12:40-	17:10-	Inmaculada Sánchez-Vicente: Molecular regulation of		
13:00	17:30	bZIP67 by S-nitrosylation impacts on fatty acid storage during		
		seed development		
13:00-	17:30-			
14:00	18:30	Break		

	Session 3: Flash Talks			
		ındre Boscari, San	jib Bal Samant & Jagannath Swain	
Time				
CET	IST	Presenter	Title	
(European)	(Indian)			
14:00-	18:30-	Correa-	Exploring new insights into the role of	
14:05	18:35	Aragunde,	nitric oxide synthase in nitrogen	
		Natalia	metabolism among photosynthetic organisms	
14:05-	18:35-	Ana Cristina	Study of the interaction of a free and	
14:10	18:40	Preisler	nanoencapsulated nitric oxide donor with soybean roots	
14:10-	18:40-	Gábor Fejes	The effect of plasma-activated water on	
14:15	18:45		wheat seedling development and the levels of <i>in planta</i> reactive oxygen and	
			nitrogen species	
14:15-	18:45-	Selahattin	Ecotype-Dependent Responses to	
14:20	18:50	Kondak	Nickel Oxide Nanoparticles in Ni	
			Hyperaccumulator Odontarrhena	
			lesbiaca: Unraveling the Impact Across	
			Cellular, Tissue, Organ, and Molecular	
44.00	40.50	Manial Distancial	Level.	
14:20-	18:50-	Maciej Piekarniak	Can HCN be converted to NO under	
14:25 14:25-	18:55 18:55-	Vuo 7hong	physiological conditions?	
14:25-	19:00	Yue Zhang	Mechanism of nitric oxide alleviating alkali-induced inhibition of embryo	
			germination in Sorbus pohuashanensis	
14:30-	19:00-	Aakanksha Wany	Trichoderma supplementation enhances	
14:35	19:05		defense responses under low nitrate nutrition in Arabidopsis	
14:35-	19:05-	Priyanka Babuta	Brassica juncea has multiple forms of S-	
14:40	19:10		nitrosoglutathione reductase (GSNOR) suggesting multiple roles	
14:40-	19:10-	Tamás Bodor	The effect of seed priming with plasma	
14:45	19:15		activated water on germination and RONS content of <i>Arabidopsis thaliana</i> L.	
14:45-	19:15-	Caihong Zhao	Concentration-based regulation of	
14:50	19:20	J	dormancy-emergence mechanisms in	
			Sorbus pohuashanensis embryos by	
			nitric oxide.	
14:50-	19:20-	Jorge Taboada	NO modulates in pepper fruits the gene	
14:55	19:25		expression of tryptamine 5-hydroxylase	
			(T5H), a gene involved in the serotonin	
			generation	
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14:55- 15:00	19:25- 19:30	S. Gómez- Jiménez	Nitric oxide sensing by TGA transcription factors is essential for the root stem cell niche preservation.
15:00- 15:05	19:30- 19:35	Salvador González-Gordo	Unraveling the dynamics of the ascorbate-glutathione cycle enzymes in pepper fruits during ripening and under a NO-enriched atmosphere.
15:05- 15:10	19:35- 19:40	Pooja Singh	Phytoglobin-NO cycle and AOX pathway play a role in anaerobic germination and growth of deepwater rice.
15:10- 15:15	19:40- 19:45	Laura Lopes Maldonado	Emergence and Initial Development of Seedlings of Atlantic Forest Tree Species in Response to Seed Priming with Nanoencapsulated Nitric Oxide Donor
15:15- 15:20	19:45- 19:50	Anik Sarkar	Status of nitric oxide during fungal disease development in plants.
15:20- 15:25	19:50- 19:55	Shruti Sharma	Understanding the putative role of Nitric Oxide in growth and development of <i>Dioscorea alata</i> tubers.
15:25- 15:30	19:55- 20:00	Neha Gupta	Unraveling the involvement of Nitric oxide synthase in mitigating oxidative burst in cyanobacterium <i>Aphanizomenon flos-aquae</i> 2012/KM1/D3
15:30- 15:35	20:00- 20:05	Sonika Pandey	Nitric oxide stimulates seed germination via regulating the respiration in chickpea.
15:35- 15:40	20:05- 20:10	Agnieszka Wal	RNS and ROS alterations in Nepenthes x ventrata

Session 4		
Chairs: Prof. A. S. Raghavendra		
Lead talks		
15:40-	20:10-	Patrick Treffon: Organomercury-based capture of S-nitrosated
16:00	20:30	proteins links protein quality control to fertility defects.
16:00-	20:30-	Concluding remarks by Prof. Gary Loake and Prof. Jorg Durner
16:10	20:40	Concluding remarks by Fior. Sary Loake and Fior. Sorg Durner
16:10-	20:40-	Announcement of winners of Flash talks (Will be announced by
16:20	20:50	Prof. Gary Loake and Prof. Francisco J Corpas.)
16:20-	20:50-	Vote of Thanks by Dr. Jagadis Gupta Kapuganti .
16:30	21:00	Vote of Thanks by Dr. Jagadis Gupta Kapuganti.