



PN⁸ 2021 SZEGED, HUNGARY

8TH PLANT NITRIC OXIDE INTERNATIONAL MEETING

Scientific program of the online 8th Plant Nitric Oxide International Meeting
(7th – 9th July, 2021)

Keep in mind that the time slots indicated in the preliminary program are listed in CEST (Central European Summer Time) / UTC/GMT +2 hours!

Poster presentations

Each poster will have its own *breakout room* within the main meeting of the session, where interested participants are free to enter and exit. We would like to ask the presenters to stay in the breakout room assigned to them at the given time, if possible.

Wednesday, July 7th

16:50 – 18:50 Poster session #1

16:50 – 17:50 Poster No. 1-10

17:50 – 18:50 Poster No. 11-20

1. Aranda-Caño, L: Biodistribution of nitro-fatty acids in plant cells
2. Arasimowicz-Jelonek, M: Pi-NOD as the main sensor of nitrosative stress protection in phytopathogen *Phytophthora infestans* (Mont.) de Bary
3. Begara-Morales, JC: Biosynthesis of S-nitrosoglutathione from nitro-fatty acids in plants
4. Chaki, M: Nitro-fatty acids modulate the antioxidant function of catalase and NADP-dehydrogenases
5. Corpas, FJ: Nitric oxide (NO) modulates the ascorbate peroxidase (APX) gene expression during the ripening of sweet pepper (*Capsicum annuum* L.) fruits
6. Czékus, Z: Ethylene- and light-dependent regulation of chitosan-induced defence responses in tomato plants
7. da Silva, RC: Nitrogen source and nitric oxide are related to root morphologic alterations of neotropical trees
8. Degrandi-Pezzi, L: Does nitrate control N₂-fixing symbiosis through the regulation of nitric oxide?
9. Drozda, A: Is NO regulation of potato gene expression related to *Phytophthora infestans* resistance epigenetic in nature?
10. Feigl, G: Exploring the nitro-oxidative responses of monocotyledonous crops to CuO nanoparticle stress

11. Foresi, N: Nitric oxide synthase, Arginine and NO: are they involved in responses to nitrogen deficiency in *Ostreococcus tauri*?
12. Horváth, E: Different nitro-oxidative response of tomato cultivars to salt- and osmotic stress
13. Iqbal, N: FB1 perturbed redox homeostasis and nitric oxide production in tomato plants and activated defense mechanisms in ethylene-dependent manner
14. Jayawardhane, J: Does the microtubule-associated protein CLASP mediate nitric oxide and reactive oxygen species activity during salt stress?
15. Lopes-Oliveira, PJ: Silencing of S-NITROSOGLUTATHIONE REDUCTASE improves tomato productivity under moderate drought stress
16. Molnár, Á: The role of nitrosative stress response during Zn deficiency in *Brassica napus*
17. Rodriguez, Ruiz M: Unravelling the impacts of GSNOR manipulation on tomato fruit ripening: a transcriptomic and proteomic approach
18. Russel, G: Questioning the kinetics of H₂ as an anti-oxidant scavenger of ONOO⁻ and other reactive species
19. Silveira, NM: Physiological and biochemical responses of sugarcane during recovery from drought as affected by nitric oxide donors encapsulated into nanoparticles
20. Szepesi, Á: AG-induced changes of polyamine catabolism and related reactive species in *Arabidopsis thaliana* and *Solanum lycopersicum* plants exposed to short-term salt stress

Friday, July 9th

10:00 – 12:00 Poster session #2

10:00 – 11:00 Poster No. 21-29

11:00 – 12:00 Poster No. 30-38

21. Becana, M: Reactivity of hemoglobin LjGlb2-1 from *Lotus japonicus* with nitric oxide and nitrite
22. Chammakhi, C: Drought stress tolerance of local faba bean (*Vicia faba* L.) genotypes/*Rhizobia* symbiosis
23. Gajewska, J: Why are pathogens able to withstand nitrosative challenge of plant host? - an insight into the potato-*Phytophthora infestans* interaction
24. Gémes, K: Involvement of nitric oxide and ethylene in the direct conversion of lateral root primordia to shoot meristem of *Arabidopsis thaliana*
25. Hong, JK: Exogenous sodium nitroprusside alters cellular responses to subsequent nitrosative and oxidative stresses in Chinese cabbage plants
26. Kondak, S: Zinc Deficiency in *Pisum sativum*: Focusing on Reactive Oxygen, Nitrogen and Sulphur Species
27. Kumari, A: New role of alternative oxidase under hypoxia to increase nitric oxide and energy efficiency (INDIA)
28. Minguillón, S: Metabolism of reactive oxygen species and nitric oxide in legume nodules lacking leghemoglobins
29. Miras-Moreno, B: Modulation of cyclic nucleotide monophosphate signalling in tomato: a metabolomics approach

30. Oláh, D: Zinc deficiency effect of nitric oxide (NO) signaling in *Arabidopsis thaliana*
31. Pathak, KP: Over-expression of phytoalbumin 1 in tomato influences NO production, fruit ripening and plant immunity
32. Plokhovska, S: Generation of nitric oxide in wheat roots as response on high temperature stress
33. Singh, P: Nitric oxide accelerates germination via the regulation of internal oxygen, respiration and metabolism in chickpea
34. Staszek, P: Canavanine-induced decrease in NO synthesis leads to disorganization of tomato root apical meristem
35. Szöllősi, R: Effects of exogenous H₂S on Cu-stressed *Brassica juncea* seedlings
36. Valderrama, R: Endogenous nitroalkylation of proteins by different nitrated fatty acids in *Arabidopsis thaliana* cell cultures
37. Vojtovič, D: Detection of protein S-nitrosylation in plants: biotin switch versus SNO-RAC
38. Zelinová, V: Increased NO level and glutathione peroxidase activity play a key role in indole-3-butyric acid-mediated enhanced cadmium tolerance in the barley root tip

