

Thursday, July 15<sup>th</sup>

08.00-12.00 *Registration*

09:25

Welcome and introduction



Opening talks

09:30 – 10:10

L1

Jan Hrbáč

NO detection by electrochemical methods

10:10 – 10:40

L2

Kapuganti Jagadis Gupta

Nitric oxide biosynthesis in plants: A special focus on mitochondrial NO pathways

*Coffee*

SESSION 1: NO production and detection (chairman Javier Corpas)

11:20 – 11:50

L3

Luis Mur

Nitric oxide generation triggers ethylene mediated resistance against *Botrytis cinerea* in tomato (*Solanum esculentum*) and *Arabidopsis*

11:50 – 12:15

L4

Stefan Rümer

4,5-diaminofluorescein (DAF)-fluorescence in complete absence of nitric oxide: H<sub>2</sub>O<sub>2</sub> plus peroxidase released from elicited tobacco suspension cells produce two novel highly fluorescing DAF-products

12:15 – 12:30

Mark Higgins, Analytix UK (*Sponsor presentation*)

Versatile chemiluminescence instrumentation for NO detection

13:00

*Lunch at St. Wenceslas Brewery*

SESSION 2: NO signalling (chairman John Hancock, Massimo Delledonne)

14:30 – 15:00

L5

Christian Lindermayr

Redox control of the NPR1–TGA1 system of *Arabidopsis thaliana* by nitric oxide

15:00 – 15:30

L6

Elodie Vandelle

Regulation of MAPK cascade by peroxynitrite-mediated Tyr-nitration in *Arabidopsis thaliana*

15:30 – 15:50

L7

Alexander Bosdari

Is nitric oxide a regulator of legume nodule development?

*Coffee*

16:20 – 16:40

L8

Ferenc Horváth

Nitric oxide modulates guard cell photosynthesis

16:40 – 17:00

L9

Urszula Krasuska

NO-mediated dormancy removal of apple embryos results in modification in ethylene biosynthetic pathway

17:00 – 17:20

L10

Rinukshi Wimalasekera

A copper amine oxidase, CuAO1 in *Arabidopsis* is involved in ABA mediated stress responses and NO biosynthesis

17:20 – 17:40

L11

G. Manjunath

Achieving desirable ripening and shelf life extension of banana var. Cavendish by elicitation of endogenous nitric oxide and genetic regulation of signaling network

17:40 – 18:10

*Sponsor presentation: Eppendorf CZ, Olympus Czech & Slovakia*

18:30

*Poster session*

20:00

*Welcome party with beer tasting at St. Wenceslas Brewery*

Friday, July 16<sup>th</sup>

SESSION 3: NO and biotic stress (chairman Luis Mur)

09:30 – 10:00

L12

Gary Loake

S-nitrosylation: Charting the molecular landscape in plant immunity

10:00 – 10:30

L13

Jeremy Astier

Identification and characterization of NO target proteins in cryptogeiin elicited-tobacco cells

*Coffee*

11:00 – 11:20

L14

Frank Gaupels

Peroxynitrite formation during the resistance response of *Arabidopsis thaliana* to avirulent *Pseudomonas syringae* is involved in the regulation of pathogen-induced gene expression

11:20 – 11:40

L15

Jan Lochman

The role of nitric oxide in triggering of defence response by ergosterol

11:40 – 12:00

L16

Jolanta Floryszak-Wieczorek

Nitric oxide generation leading to SAR in potato leaves

13:00

*Lunch at St. Wenceslas Brewery*

SESSION 4: NO and abiotic stress (chairman Jörg Durner)

14:30 – 14:50

L17

Magdalena Arasimowicz-Jelonek

Nitric oxide and NADPH-oxidase dependent oxidative burst is required for cadmium-induced programmed cell death in lupine roots

14:50 – 15:10

L18

Zsuzsanna Kolbert

The effect of heavy metal-induced reactive oxygen- (ROS) and nitrogen species (RNS) generations on cell viability of pea roots

15:10 – 15:30

L19

Morad Airaki

Low temperature induces nitrosative and oxidative stress in pepper plants

15:30 – 15:50

L20

Raquel Valderrama

The metabolic status of RONS modulates the response to salinity stress in olive plants

*Coffee*

SESSION 5: NO and abiotic stress / NO signalling II (chairman David Wendehenne)

16:30 – 16:50

L21

Tanou Georgia

The role of roots as modulators of nitric oxide and hydrogen peroxide defence signalling in citrus

16:50 – 17:10

L22

Yarina Sheremet

Nitric oxide effects on organization of cortical microtubules in *Arabidopsis thaliana* root cells

17:10 – 17:30

L23

Maria José Jimenéz-Quesada

Nitric oxide production during olive flowering and *in vitro* pollen germination

*Discussion and Conclusions* (Werner Kaiser)

20:00

*NO dinner, NO party in Konvikt Restaurant*