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1089th Conference

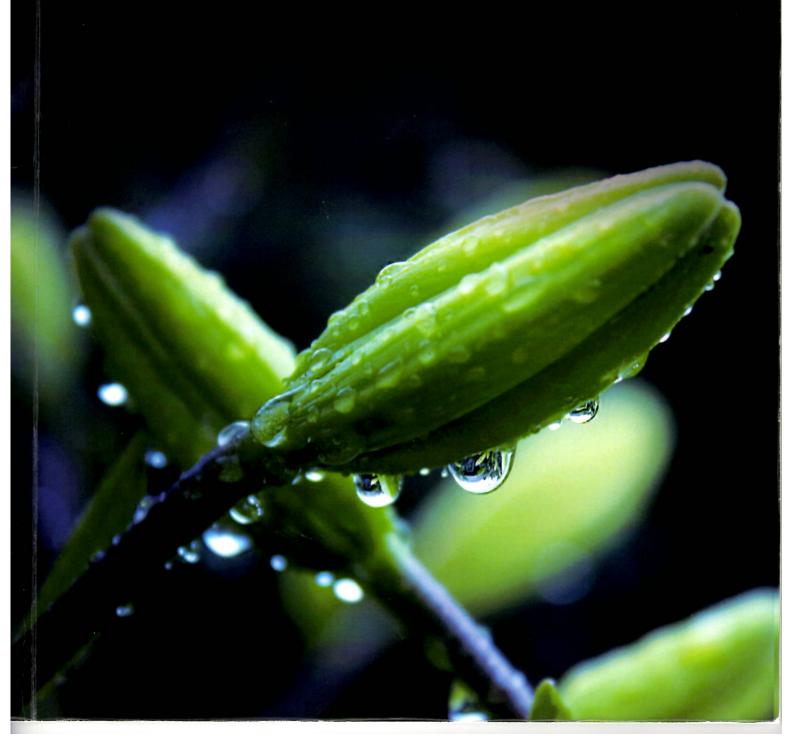
August 2017 | Volume 5 | Issue 5 ISSN: 2329-955X Journal of Plant Physiology & Pathology

Proceedings of

3rd Global Summit on

Plant Science

August 07-09, 2017 Rome, Italy



Olimpica 1

conferenceseries.com 08:30-09:00 Opening Ceremony

	Keynote Forum
09-00-09:10	Introduction
09:10-09:40	Title: Rapid development of a castor cultivar with increased oil content
09.10-09.40	Grace Chen, U.S. Department of Agriculture, USA
09:40-10:10	Title: Natural products from Brazilian biodiversity, a source of new templates for medicinal chemistry
	Vanderlan da S. Bolzani, Sao Paulo State University, Brazil
10:10-10:40	Title: Plant phenolics: New remedies for old disease
10:10-10:40	Djebbar Atmani, University of Bejaia, Algeria
	Group Photo 10:40-10:50
	Network & Refreshment Break 10:50-11:05 @ Foyer
	nt Science and Natural Products Plant Physiology and Biochemistry Medicinal and nt Sciences Arabidopsis Seed Science and Technology Photosynthesis
	: Grace Chen, U.S. Department of Agriculture, USA
Session Co-ch	air: Petronia Carillo, University of Campania, Italy
	Session Introduction
11:05-11:30	Title: Enhancing NGS performance through improvements in template preparation procedure
11:05-11:30	Caroline Janitz, Western Sydney University, Australia
	Title: Physiological impacts on coffee plants submitted to water deficiency
11:30-11:55	Fernando Broetto, Sao Paulo State University, Brazil
	Title: What is the best possible response of plants to combined stresses? Indeed the
11:55-12:20	simplest one
	Petronia Carillo, University of Campania, Italy
Section 1	Workshop on
	Title: Next-Generation sequencing—basics & applications: Tools and technologies
12:20-13:00	Caroline Janitz, Western Sydney University, Australia
	Lunch Break: 13:00-14:00 @ Hotel Restaurant
	Title: Polyamines and flavonoids of bee pollen with anti-tyrosinase and antioxidant
14:00-14:25	activity
	Mi Kyeong Lee, Chungbuk National University, South Korea
	Title: Cytotoxic, antidiabetic and anti-inflammatory activities of selected Algerian
14:25-14:50	medicinal plants: From traditional use to scientific validation
	Djebbar Atmani, University of Bejaia, Algeria
14:50-15:15	Title: Anti-ulcer activities of a local plant from Algeria, Clematis flammul
14.50-15:15	Dina Atmani-Kilani, University of Bejaia, Algeria
	Title: Breadfruit (Artocarpus altilis) gibberellin metabolic genes: Stem elongation and abiotic
15:15-15:40	stress response
	Yuchan Zhou, University of the Sunshine Coast Australia

Network & Refreshment Break 15:40-16:00 @ Foyer

	Title: Arabidopsis root formation is altered by cadmium and arsenic		
16:00-16:25	Laura Fattorini, Sapienza University of Rome, Italy		
	Title: Genetic engineering of PPV resistance in plum rootstock 'Elita' ((Prunus pumila L. x P.		
16:25-16:50	salicina Lindl.) x (P. cerasifera Ehrh.))		
	Sergey Dolgov, Nikita Botanical Gardens, Russia		
	Title: Determination of polyphenol composition in Hevea brasiliensis and rubber-processing		
16:50-17:15	effluent via spectrophotometry and spectroscopy analysis		
	Aidilla Mubarak, Universiti Malaysia Terengganu, Malaysia Title: Differential localization of ethylene receptor OsERS1 and OsETR2 in rice and the		
17 15 17 40	expression of OsETR2 during submergence		
17:15-17:40	Wing Kin Yip, University of Hong Kong, Hong Kong		
	Panel Discussion		
	Day 2 August 08, 2017		
	Olimpica 1		
	Keynote Forum		
	Title: Inferring salt and water distribution in an irrigated crop field using electromagnetic		
09:00-09:30	induction techniques		
07.00-07.00	Leon D van Rensburg, University of the Free State, South Africa		
	Title: Production of marker-free transgenic tomato and apple plants using inducible site-		
09:30-10:00	specific recombinase and a bifunctional selectable gene		
	Sergey Dolgov, Nikita Botanical Gardens, Russia		
The State of the S	Workshop on		
10:00-10:40	Title: Salt management of irrigated soils		
10:00-10:40	Leon D van Rensburg, University of the Free State, South Africa		
	Network & Refreshment Break 10:40-11:00 @ Foyer		
Sessions: Pla	nt Pathology and Plant-Micro-Biology Plant Morphology and Plant Metabolism Soil		
Science and S	soil-Plant Nutrition Plant Breeding and Molecular Breeding Plant Biotechnology and		
Plant Tissue	Culture Agricultural Science r: Vanderlan da S. Bolzani, Sao Paulo State University, Brazil		
Session Co-cl	nair: Minkyun Kim, Seoul National University, South Korea		
	Session Introduction		
	Title: Effects of acute ozone exposure on the release of stress volatiles, and the expression of		
11:00-11:25	a monoterpene synthase gene in Nicotiana tabacum leaves through recovery		
	Arooran Kanagendran, Estonian University of Life Sciences, Estonia		
	Title: Study of the mechanisms underlying tomato innate immunity mediated by two Bwr12		
11:25-11:50			
	Chiu-Ping Cheng, National Taiwan University, Taiwan		
11:50-12:15	Title: Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thin cell layers		
11.00 12.10	Federica Della Rovere, University of Rome, Italy		
	Title: Complementary interaction of two starch biosynthesis genes confers a mild sugary		
12:15-12:40	endosperm in rice Hee-Jong Koh, Seoul National University, South Korea		
	Title: Regulation of floral terpenoid emission and biosynthesis in sweet basil (Ocimum		
12:40-13:05			
12:40-13:03	Jiayan Ye, Estonian University of Life Sciences, Estonia		
	Lunch Break 13:05-14:05 @ Restauran		
ALC: NO.	Poster Presentations 14:05-14:35 @ Foyer		
	Poster Judge: Vanderlan da S. Bolzani, Sao Paulo State University, Brazil		
	Title: Influence of plant height on chrysanthemum transformed with SHI (Short Internodes		
P01	related genes)		
131	EunJung Suh, National Institute of Agricultural Science, South Korea		

	P02	Title: Genome-wide characterization of the <i>Brassica rapa</i> genes encoding serine/arginine-rich proteins: Regulation of alternative splicing events by abiotic stress and hormone treatments
		Soo In Lee, National Institute of Agricultural Sciences, South Korea
		Title: Diploid Perilla de novo genome sequencing
	P03	Tae-Ho Kim, National Institute of Agricultural Science, South Korea
		Title: The polycistronic expression using non-mammalian viral 2A sequences for carotenoid
	P04	metabolic engineering in rice plants
		Sun-Hwa Ha, Kyung Hee University, South Korea
		Title: The effect of exogenous applications of salicylic acid at different growth stages to Iraqi
	P05	wheat cv. Tamooz 2 on the up-regulation of the drought response regulan
		Fakhriya M. Kareem, Plymouth University, UK
		Title: The effect of sowing rate and variety on the yield, protein content and height of faba
	P06	beans No. 11 Olla Fatanian Cran Recognish Instituto Estania
		Margit Olle, Estonian Crop Research Institute, Estonia
	P07	Title: The chemical forms of Fe used as in vivo substrate in uptake process of chloroplast
		Brigitta Lantos, Eotvos Lorand University, Hungary
		Title: Genetic and epigenetic variability of wild and cultivated watercress (Rorippa nasturtium
	P08	Marcela Veronica Gutierrez Velazquez, CIIDIR Durango, Mexico
		Title: Phytochemical variation among populations of Fouquieria splendens Engelm
	P09	(Fouquieriaceae)
	PU9	Hugo Manuel Monreal Garcia, CIIDIR Durango, Mexico
		Title: High-throughput phenotyping of rice using RGB imaging
	P10	Kyung-Hwan Kim, National Institute of Agricultural Sciences, South Korea
		Title: Influence of symptoms, growth, mineral uptake and ginsenoside contents of Ginseng
	P11	(Panax ginseng C.A.Meyer) to potassium concentrations in hydroponic culture
		Jin Yu, Department of Herbal Crop Research, NIHHS, South Korea
		Title: The grain yield and photosynthetic characteristics responses of rice to oxygen status in
	P12	rhizosphere as affected by soil aerations
		Qianyu Jin, China National Rice Research Institute, China
		Title: Transcriptome analysis of dwarf soybean derived from crossing of G. max and G. soja
	P13	Chanseok Shin, Seoul National University, South Korea
		Title: A blend of volatile compounds emitted from Alcaligenes faecalis modulated hormonal
	P14	pathways and ion transporters to induce salt tolerance in Arabidopsis thaliana
		Yong Hoon Lee, Chonbuk National University, Republic of Korea
		Title: P. nodorum effectors resistance among Polish wheat and triticale germplasm
	P15	Jakub Walczewski, Plant Breeding and Acclimatization Institute (IHAR), Poland
e	ssions: Pla	nt Pathology and Plant-Micro-Biology Plant Morphology and Plant Metabolism Soil
ci	ence and S	ioil-Plant Nutrition Plant Breeding and Molecular Breeding Plant Biotechnology and
lc	int Tissue (Culture Agricultural Science Title: The roc10, a rice hd-zip transcription factor gene, modulates lignin biosynthesis for
14:35-15:00		
		Ju-Kon Kim, Seoul National University, South Korea
15:00-15:25		Title: Analysis of OsmiR399 expression and down-regulation of LTN1 in rice
		Minkyun Kim, Seoul National University, South Korea Title: Stomata closure and pre-exposure to low-level O ₃ protect leaves against high-level O ₃ -
15:25-15:50		
		Shuai Li, Estonian University of Life Sciences, Estonia
		Title: Arsenic and cadmium affect the crosstalk between auxin and jasmonate in Oryza sativa L
15:50-16:15		Marilena Ronzan, Sapienza University of Rome, Italy
		mariiena konzan, sapienza omversny or kome, nary

Poster Presentations 16:35-17:05 @ Foyer

ī	Poster .	ludae:	Grace (hen Lit	S Department	of Agric	ulture LISA
	03161	CULC.		SILCII, OI	o Deparmiem	OI MUIL	ZUIIUIE, USA

P16	Title: Roles of Arabidopsis ALDH10 enzymes in plant development and stress resistance
PIO	Florian Jacques, University of Technology of Compiegne, France
D17	Title: Novel identification of CBF genes in rye and phylogenetic relationship in the <i>Triticeae</i>
P17	Yong Weon Seo, Korea University, South Korea
D10	Title: Biochemical characterisation of maize landraces for grain quality improvement
P18	Danijela Ristic, Maize Research Institute Zemun Polje, Serbia
D10	Title: Application of molecular markers (SSRs) in foreground selection for maize quality traits
P19	Marija Kostadinovic, Maize Research Institute Zemun Polje, Serbia
	Title: A new species of the genus Malenchus (Nematoda; Tylenchidae) from the rhizosphere of
P20	forest trees in northern Iran
	Majid Pedram, Tarbiat Modares University, Iran
	Title: Investigation of certain elicitor's effect on some gene's (TXS, TBT, and DBAT) relative
P21	expression level and paclitaxel production in Taxus baccata cell suspension culture
	Mokhtar Jalali Javaran, Tarbiat Modares University, Iran
DOO	Title: Identification of gene sequences involved in chicoric acid biosynthesis pathway in Echinacea purpurea through RNA-SEQ transcriptome analysis
P22	Mohammad Sadegh Sabet, Tarbiat Modares University, Iran
	Title: Survey of five Artemisia species with different artemisinin contents in view of relative
P23	expression of 13 genes involved in artemisinin production, karyology, and nuclear DNA content
	Ghasem Karimzadeh, Tarbiat Modares University, Iran
	Title: Novel medium for enhancing callus growth in hazel (Corylus avellana L.)
P24	Ahmad Moieni, Tarbiat Modares University, Iran
	Title: Genome-wide screening and functional characterization of long intergenic noncoding
P25	rnas in Arabidopsis
	Choonkyun Jung, Seoul National University, South Korea
	Title: Oxalates assessment in the roots and shoots of taro (Colocasia esculenta (L.) Schott)
P26	submitted to drought conditions
	Carla S.S Gouveia, University of Madeira, Portugal
P27	Title: Characterization of Avena germplasm collection in National Centre for Plant Genetic Resources, Radzikow, Poland
F 27	Jerzy Czembor, Institute of Plant breeding and acclimatization - National Research Institute, Poland
	Title: Morphological and molecular study of Cryptaphelenchus sp. (Nematoda,
P28	Ektaphelenchinae) associated with dead and dying pine trees in Iran
	Majid Pedram, Tarbiat Modares University, Iran
	Title: Increased resistance to virus infection through overexpression of some important host
P29	genes involved in plant defense in potato (Solanum tuberosum L.)
	Mohammad Sadegh Sabet, Tarbiat Modares University, Iran
P30	Title: UV illumination on Crithmum maritimum in vitro cell culture: A biomimetic approache
	Julien Fouilland, France

Day 3 August 09, 2017

Sessions: Forest Science and Technology | Plant Genetics and epigenetics | Plant Genome Sciences | Plant Synthetic Biology

Session Chair: Dina Atmani-Kilani, University of Bejaia, Algeria

Session Introduction

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09:00-09:25	Title: Glandular trichomes as a barrier against atmospheric oxidative stress
07.00-07.25	Shuai Li, Estonian University of Life Sciences, Estonia
	Title: Nitrogen transformation characters in soil, use efficiency and rice grain yield as affected
09:25-09:50	by soil aeration
	Lianfeng Zhu, China National Rice Research Institute, China
09:50-10:15	Title: To flower or not to flower? The crucial decision of Lilium longiflorum bulbs
09:50-10:15	Silit Lazare, Ben Gurion University, Israel
	Title: Barley stem reserves and yield maintenance under terminal drought: Molecular
10:15-10:40	dissection of fructan biosynthesis and remobilization
	Zahra Sadat Shobbar, Agriculture Biotechnology Research Institute of Iran, Iran
	Network & Refreshment Break 10:40-10:55 @ Foyer
10:55-11:20	Title: Germplasm identification and salinitytolerant gene isolation on G. hirsutum L.
10.55 11.20	Wuwei Ye, Chinese Academy of Agricultural Sciences, China
	Title: Performance of rice varieties under rainfed condition in wet and dry tropics of
11:20-11:45	Queensland, Australia
	Sachesh Silwal, CQUniversity, Australia
	Title: Phytochemical screening and in vitro free radical scavenging activity of different solvent
11:45-12:10	extracts from Convolvulus virgatus Boiss
	Taoufik Saleh Ksiksi, UAE University, UAE
	Title: Construct a high-density genetic map in upland cotton and its application to genetic
12:10-12:35	regulation analysis for yield and fiber quality traits
	Youlu Yuan, Chinese Academy of Agricultural Sciences, China
	Title: NPR1 mediated the cross talk between salicylate- and jasmonate- mediated pathways
12:35-13:00	in Carica papaya in response to Phytophthora palmivora
	Rui Zong Jia, China Academy of Tropical Agricultural Sciences, China
	Lunch Break 13:00-14:00 @ Restaurant
14:00-14:25	Title: Functional analysis of ALSAP domains "a20/an1" in abiotic stress tolerance mechanism
	Omar Moustafa Azab, King Saud University, Saudi Arabia
	Title: Phylogenetic study of indigenous pulses based on morphological and inter simple
14:25-14:50	sequence repeat (ISSR) marker
	Filemon Yusuf, Bogor Agricultural University, Indonesia

Network & Refreshment Break 14:50-15:00 @ Foyer **Awards Ceremony**

Bookmark your dates

5th Global Summit on

Plant Science

October 29-30, 2018 Madrid, Spain

E-mail: plantscience@conferenceseries.net; plantscience@plantscienceconferences.com; plantscience@agriconferences.com Website: plantscience.global-summit.com

Oral Session: 2

Day 2 August 08, 2017

Plant Pathology and Plant-Micro-Biology | Plant Morphology and Plant Metabolism | Soil Science and Soil-Plant Nutrition | Plant Breeding and Molecular Breeding | Plant Biotechnology and Plant Tissue Culture | Agricultural Science

Session Chair Vanderlan da S Bolzani Sao Paulo State University, Brazil Session Co-Chair Chiu-Ping Cheng National Taiwan University, Taiwan

Session Introduction

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Ju-Kon Kim, Seoul National University, South Korea

Title: Analysis of OsmiR399 expression and down-regulation of LTN1 in rice
Minkyun Kim, Seoul National University, South Korea

Title: Stomata closure and pre-exposure to low-level O₃ protect leaves against high-level O₃-induced damage in *Phaseolus vulgaris*

Shuai Li, Estonian University of Life Sciences, Estonia

Title: Arsenic and cadmium affect the crosstalk between auxin and jasmonate in Oryza sativa L.

Marilena Ronzan, Sapienza University of Rome, Italy

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Indole-3-butyric acid promotes adventitious rooting in Arabidopsis thin cell layers

Federica Della Rovere, Laura Fattorini, Angela Veloccia, Simone D'Angeli, Giuseppina Falasca and Maria Maddalena Altamura Sapienza University of Rome, Italy

dventitious roots (ARs) are post-embryonic roots formed in planta by tissues of the primary root in secondary vascular structure Aand by tissues of the aerial organs. Indole-3-acetic acid (IAA), and its natural precursor indole-3-butyric acid (IBA), control AR formation in planta and in vitro, however IBA roles is still far to be elucidated. Arabidopsis thin cell layers (TCL) consist of stem inflorescence tissue external to the vascular system and 10 μM IBA applied with 0.1 μM Kinetin induce AR formation from stem TCL. In the Arabidopsis transversal stem cuttings, it has been hypothesized that the induction of AR formation by exogenous IBA occurs by an interaction with the endogenous IAA content, but there is no information about the interaction between the two auxins in the TCLs. In Arabidopsis seedlings, it has been demonstrated that IBA is sufficient to stimulate IAA transport because PIN-FORMED1 (PIN1) IAA-efflux carrier, auxin resistant1 (AUX1) and like auxin resistant3 (lax3) iaa-influx carriers are active also in the presence of iba alone. The weak ethylene-insensitive2/anthranilate synthase alpha1 (WEI2/ASAI) and wei7/anthranilate synthase beta1 (ASBI), are genes involved in IAA-biosynthesis and required for AR formation in Arabidopsis seedlings. It is unknown whether the same genes are involved in AR-formation by TCLs. The aim of the research was to determine the endogenous levels of IBA and IAA at the onset of the culture in Arabidopsis TCLs. Another aim was to understand whether IBA alone was able to induce AR formation in TCL, whether the IAA transport by PIN1, LAX3, and AUX1 was affected, whether an IBA conversion into IAA was needed, and whether an IAA biosynthesis by WEI2/ASA1 and WEI7/ASB1 was also involved. Results indicate that IBA induced AR-formation by conversion into IAA, with this process involving nitric oxide formation and activity, and by positively affecting IAA-transport and ASA1/ASB1-mediated IAA-biosynthesis.

Biography

Federica Della Rovere investigated the mechanisms affecting the initiation and development of adventitious roots *in planta* and *in vitro* systems, with a special interest in the genetic control affecting this organogenic process and in the definition of stem cell niche of the apical root meristem in *Arabidopsis*. She is also interested in the somatic embryogenic process in numerous species, and the genetic and hormonal control involved in xylogenesis.

federica.dellarovere@uniroma1.it

Notes:

Upcoming Agriculture Conferences

10th International Conference on Agriculture & Horticulture October 02-04, 2017 London, UK agriculture-horticulture.conferenceseries.com

7th International Conference on Aquaculture & Fisheries October 19-21, 2017 Rome, Italy aquaculture-fisheries.conferenceseries.com

19th International Conference on Food Processing & Technology October 23-25, 2017 Paris, France foodtechnology.conferenceseries.com

2nd International Conference on Food Microbiology November 29-30, 2017 Madrid, Spain foodmicrobiology.conferenceseries.com

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5th Global Summit on

Plant Science

October 29-30, 2018 Madrid, Spain

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