



The 2nd International Conference on

PLANT & MOLECULAR BIOLOGY

October 23-25, 2019 | Amsterdam, Netherlands

FINAL PROGRAM



Final Program

PMB - 2019

DAY - 1 OCTOBER 23, 2019 (WEDNESDAY)

08:00-08:40

Registrations

08:40-09:00

Introduction

KEYNOTE PRESENTATIONS

09:00-09:40

TITLE : THE TOXIC PUBLIC DEBATE ABOUT BIOTECHNOLOGY

Klaus Ammann, University of Bern, Switzerland

09:40-10:20

TITLE: LIPIDS IN PLANT BIOLOGY: HOW CAN WE UNDERSTAND THEIR ROLE BETTER?

Irina Guschina, Cardiff University, UK

10:20-11:00

TITLE: PLANT SECONDARY METABOLITES AS BIOHERBICIDES IN THE NEAR-FUTURE OF AGRICULTURE

Adela M. Sánchez-Moreiras, University of Vigo, Spain

GROUP PHOTO

11:00-11:20

Coffee Break

ORAL PRESENTATION

Sessions: Plant Genetics and Genomics, Plant Molecular Biology & Biochemistry, Plant Signalling & Behavior, Plant Microbe Interactions, Plant Signaling & Behavior, Herbs, Spices & Medicinal Plants, Plant biotic & Abiotic Stress

11:20-11:40

TITLE: PLMDETECT: A BIOINFORMATIC APPROACH TO IDENTIFY CIS-REGULATORY MOTIFS IN PROMOTERS OF PLANT GENOMES.

Brunaud Véronique, INRA - Institute of Plant Sciences Paris-Saclay (IPS2), France

11:40-12:00

TITLE: CHALLENGING CROSSROAD IN VASCULAR PLANT PHOTOSYNTHESIS

Hrvoje Fulgosi, Institute Ruđer Bošković, Croatia

ORAL PRESENTATIONS

12:00-12:20

TITLE: PHENOTYPIC ANALYSIS OF STRIGOLACTONE-DEFICIENT MUTANTS IN RICE AND TOMATO

Mikihisa Umehara, Toyo University, Japan

12:20- 12:40

TITLE: PHOSPHATE UNLOADING IN ECTOMYCORRHIZAS THROUGH FUNGAL P TRANSPORTERS: WHAT ARE THE GOOD CANDIDATES?

Claude Plassard, University Montpellier, France

12:40-13:20

Lunch Break

13:20:-13:40

TITLE: THE PHLOEM AS A VASCULAR INTEGRATOR OF WHOLE-PLANT GROWTH AND DEVELOPMENT

Shmuel Wolf, The Hebrew University of Jerusalem, Israel

13:40:-14:00

TITLE: MULTIPLE LIPOYL SYNTHASES ARE CAPABLE OF INCREASING LIPOYLATION LEVELS IN VIVO IN SOLANUM LYCOPERSICUM(TOMATO)

Michael Handford, Universidad de Chile, Chile

14:00-14:20

TITLE: STUDY OF THE IRON CHELATING EFFECT OF GREEN TEA IN SMEAR POSITIVE TB PATIENTS USING SPUTUM SMEAR, SERUM MALONDIALDEHYDE AND BLOOD IRON INDICES

Shahryar Eghtesadi, Azad University, Iran

14:20-14:40

TITLE: OVEREXPRESSION OF A MITOGEN-ACTIVATED PROTEIN KINASE SLMAPK3 POSITIVELY REGULATES TOMATO TOLERANCE TO CADMIUM AND DROUGHT STRESS

Yan Liang, Northwest A&F University, China

ORAL PRESENTATIONS

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| 14:40-15:00 | <p>TITLE: BUGS, EPIALLELES AND ANCIENT VINES: A MULTI-OMIC VIEW ON WINE QUALITY</p> <p>Carlos Rodriguez Lopez, University of Kentucky, USA</p> |
| 15:00-15:20 | <p>TITLE: THE MECHANISM OF LONG NON-CODING RNA T5120 REGULATING NO₃- SIGNALLING IN ARABIDOPSIS THALIANA</p> <p>Yong Wang, Shandong Agricultural University, China</p> |
| 15:20-15:40 | <p>TITLE: META-ANALYSIS OF RNA-SEQ DATA TO GAIN INSIGHT INTO CROP RESPONSES TO ENVIRONMENTAL STRESSES</p> <p>Federico Martinelli, Università degli Studi di Firenze, Italy</p> |
| 15:40-16:00 | <p>TITLE: GROWING IN THE DARK: SYNTHESIS OF CAROTENOIDS IN THE CARROT STORAGE ROOT</p> <p>Claudia Stange, Universidad de Chile, Chile</p> |
| 16:00-16:20 | Coffee Break |
| 16:20-16:40 | <p>TITLE: MEMBRANE TOPOLOGY AND DUAL LOCALIZATION OF A PROTEIN SWITCH DIRECTING PHOTOSYNTHETIC ELECTRONS</p> <p>Lea Vojta, Institute Ruđer Bošković, Croatia</p> |
| 16:40-17:00 | <p>TITLE: GENOME WIDE SELECTION (GWAS) IN PLANT GENETIC IMPROVEMENT: A COMMON BEAN CASE</p> <p>Juliana Morini Kupper, Federal University of Technology- UTFPR, Brazil</p> |
| 17:00-17:20 | <p>TITLE: A NOVEL ROLE OF ARABIDOPSIS BPM1 PROTEIN IN RNA-DIRECTED DNA METHYLATION</p> <p>Lucija Markulin, University of Zagreb, Croatia</p> |

DAY - 2 OCTOBER 24, 2019 (THURSDAY)

KEYNOTE PRESENTATIONS

- 09:00-09:40 **TITLE: STUDYING LEAF-DERIVED SIGNALLING ON TUBERISATION AND TUBER METABOLOME BY GRAFTING EXPERIMENTS IN POTATO**
Zsófia Bánfalvi, NARIC Agricultural Biotechnology Institute, Hungary
- 09:40-10:20 **TITLE: PHOSPHATE TRANSPORT IN MYCORRHIZAS THROUGH FUNGAL P TRANSPORTERS: HOW FAR ARE WE?**
Claude Plassard, University Montpelleir, France
- 10:20-10:40 Coffee Break

ORAL PRESENTATIONS

Sessions: Photobiology and Photosynthesis, Plant Tissue Culture, Plant Molecular Biology, Plant Enzymes & Biosynthesis, Food, Nutrition and Soil Science, Plant and Environmental Sciences, Trends in Plant Science

- 10:40-11:00 **TITLE: BENZYLIDENEACETONE DERIVATIVES AMELIORATE OVARIECTOMY-INDUCED OSTEOPOROSIS IN DDY MICE BASED ON THE CAPACITY TO INHIBIT OSTEOCLASTOGENESIS SUPPORTED BY POTENTIAL TO ACTIVATE OSTEOBLASTOGENESIS INDEPENDENTLY**
Gil Hong Park, Korea University, South Korea
- 11:00-11:20 **TITLE: ATP TRANSLOCATION AND CHLOROPLAST BIOLOGY**
Boon Leong LIM, University of Hong Kong, Hong Kong
- 11:20-11:40 **TITLE: ENHANCEMENT OF ANDROGRAPHOLIDE ACCUMULATION UPON TRANSFORMATION OF ANDROGRAPHIS PANICULATA (BURM.F.) WITH 3-HYDROXY-3- METHYLGLUTARYL COENZYME-A REDUCTASE (HMGR) GENE**
Erly Marwani, Institute of Technology Bandung, Indonesia
- 11:40-12:00 **TITLE: EFFECTS OF MICROPLASTIC ON ALGAL LIPIDS: A NEW BIOCHEMICAL FRONT IN POLLUTION RESEARCH?"**
Irina Guschina, Cardiff University, UK
- 12:00-12:20 **TITLE: MOLECULAR BREEDING IN TEA PLANT: CHALLENGES & OPPORTUNITIES**
Liang Chen, Chinese Academy of Agricultural Sciences, China

ORAL PRESENTATIONS

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| 12:20-12:40 | <p>TITLE: CONSTRUCTION AND EVALUATION OF CHLOROPLAST EXPRESSION VECTORS IN HIGHER PLANTS
Kin-Ying To, Academia Sinica, Taiwan</p> |
| 12:40-13:20 | Lunch Break |
| 13:20-13:40 | <p>TITLE: THE RELEASE OF SORGOLEONE DURING SORGHUM GROWTH SHAPES THE STRUCTURE OF NITRIFYING MICROBES AND PLAYS A MAJOR ROLE IN SOIL NITRIFICATION INHIBITION BY CONTROLLING THE AMMONIA-OXIDIZING ARCHAEA (AOA)
Papa Saliou SARR, Japan International Research Center for Agricultural Sciences (JIRCAS), Japan</p> |
| 13:40-14:00 | <p>TITLE: HOW HARNESSING NATURE TO FEED THE PLANET USING MICROBE TECHNOLOGY
Ellen Noly Barrocas, Indigo Agriculture, Brazil</p> |
| 14:00-14:20 | <p>TITLE: ROLE OF ENZYMES IN SALINITY RESISTANCE OF MAIZE: A REVIEW
Ashwani Kumar, University of Rajasthan, India</p> |
| 14:20-14:40 | <p>TITLE: BIOACTIVE COMPOUNDS IN WILD FOOD PLANTS IN ITALY
Valentina Savo, University of Roma Tre, Italy</p> |
| 14:40-15:00 | <p>TITLE: MAPPING QTLs FOR 15 MORPHO-METRIC TRAITS IN ARABIDOPSIS THALIANA USING COL-0 × DON-0 POPULATION
Astha Gupta, University of Delhi, India</p> |
| 15:00-15:20 | <p>TITLE: THE MECHANISM OF LONG NON-CODING RNA T5120 REGULATING NO₃- SIGNALLING IN ARABIDOPSIS THALIANA
Jingbo Jia, Shandong Agricultural University, China</p> |

ORAL PRESENTATIONS

15:20-15:40 **TITLE: DETERMINATION & CHARACTERIZATION OF TOBACCO MOSAIC VIRUS IN TOBACCO FIELDS IN NORTH LEBANON**
Dalya Gereige, Lebanese University, Lebanon

15:40-16:00 **TITLE: INSIGHT IN TO SALINITY-TOLERANCE MECHANISM OF CONTRASTING RICE GENOTYPES USING FUNCTIONAL GENOMICS APPROACH"**
Nita Lakra, CCS Haryana Agricultural University, India

16:00-16:20 Coffee Break

16:20-16:40 **TITLE: STUDY OF PHENOLOGICAL CHANGES IN RESPONSES TO CLIMATIC VARIATIONS AMONG SOME THREATENED AND ENDEMIC PLANTS OF INDIAN THAR DESERT, RAJASTHAN (INDIA)**
Amit Kotiya, University of Rajasthan, India

16:40-17:00 **TITLE: TRANSCRIPTOME CHANGES INDUCED BY SOIL DISTURBANCE AND PRECEDING PLANT SPECIES IN WHEAT (TRITICUM AESTIVUM L.) ROOTS"**
Catarina Campos, ICAAM/Universidade de Évora, Portugal

17:00-18:00

POSTER PRESENTATIONS

PO1 **TITLE: THE MECHANISM OF LONG NON-CODING RNA T5120 REGULATING NO₃- SIGNALLING IN ARABIDOPSIS THALIANA**
Jingbo Jia, Shandong Agricultural University, China

PO2 **TITLE: IMPACT OF THE SINGLE AMINO ACID POLYMORPHISM IN PVY VPG ON ITS INTERACTION WITH POTATO 4E TRANSLATION INITIATION FACTORS**
Razina Oksana, Moscow Timiryazev Agricultural Academy, Russia
Lebedeva Marina, All-Russia Research Institute of Agriculture Biotechnology, Russia

POSTER PRESENTATIONS

- PO3 **TITLE: IDENTIFICATION OF TOMATO (*SOLANUM LYCOPERSICUM*) & PEPPER (*CAPSICUM ANNUUM*) ELF4E ISOFORMS PARTICIPATING IN PYV TRANSLATION**
Anastasia Batyreva, Skolkovo University of Science & Technology, Russian Federation
- PO4 **TITLE: IMPUTATION METHODS FOR OUTBRED FULL-SIB FAMILIES IN TREES**
Luciano Henrique Braz dos Santos, University of Campinas / The Roslin Institute, Brazil
- PO5 **TITLE: SEARCH FOR NITROGEN STATUS BIOMARKERS IN SORGHUM BICOLOR**
Reza Ramdan Rivai, Kyoto University, Japan
- PO6 **TITLE: SULFUR DEFICIENCY STRESS IN ARABIDOPSIS AND SELECTIVE BIQUITINATION-BASED PROTEIN DEGRADATION.**
Anna Wawrzyńska, Polish Academy of Sciences, Poland
- PO7 **TITLE: ANALYSIS OF THE EVOLUTION AND DOMESTICATION OF THE GENE SPACE IN CITRUS**
Daniel Gonzalez-Ibeas, Valencian Institute of Agricultural Research (IVIA), Spain
- PO8 **TITLE: EFFECT OF CROCINS FROM CROCUS SATIVUS L ON BLOOD GLUCOSE LEVELS USING ZEBRAFISH (*DANIO RERIO*) AS AN ANIMAL MODEL**
Eleni Kakouri, Agricultural University of Athens, Greece
- PO9 **TITLE: PUSH IT TO THE LIMIT: IDENTIFICATION OF NOVEL AMINO ACID POSITIONS ON THE ACETOLACTATE SYNTHASE ENZYME THAT COULD BE USED TO GENERATE RICE PLANTS HIGHLY TOLERANT TO IMIDAZOLINONES**
Raul Antonio Sperotto, University of Taquari Valley - Univates, Brazil
- PO10 **TITLE: LONG-TERM ACCLIMATION OF A "RESURRECTION PLANT" FROM TWO DISTINCT CLIMATES INDICATES PLASTICITY IN THE METABOLOME**
Joanne Bentley, University of Cape Town, South Africa

POSTER PRESENTATIONS

- P11 **TITLE: MOLECULAR ANALYSIS OF ALTERNATIVE OXIDASE AND ASCORBIC ACID BIOSYNTHESIS IN TWO ACEROLA CLONES (MALPIGHIA EMARGINATA DC)**
Luis Flavio Mendes Saraiva, State of Ceará University, Brazil
- P12 **TITLE: EFFECTS OF SALT STRESS ON LIPID METABOLISM OF LEAF MEMBRANES OF TWO DWARF CASHEW**
Luis Flavio Mendes Saraiva, State of Ceará University, Brazil
- P13 **TITLE: ACTIVITY OF SOD, CAT AND APX ENZYMES AND MEMBRANE LIPID METABOLISM IN TWO BEAN CULTIVARS (VIGNA UNGUICULATA L. WALP) CROPS UNDER SALINE STRESS CONDITIONS**
Luis Flavio Mendes Saraiva, State of Ceará University, Brazil
- P14 **TITLE: METABOLISM OF LIPID AND FATTY ACID COMPOSITION OF LEAVES OF PRECOCIOUS CASHEW-DWARF (ANACARDIUM OCCIDENTALE L.) UNDER WATER DEFICIT**
Luis Flavio Mendes Saraiva, State of Ceará University, Brazil
- P15 **TITLE: BIOCHEMICAL AND MOLECULAR CHARACTERIZATION OF LOCAL CULTIVARS OF CUCURBIT UNDER SALT STRESS**
Enneb Sameh, Arid Regions Institute, Tunisia
- P16 **TITLE: ANTI-DIABETIC POTENTIAL OF 4 KINDS OF DARK TEA (CAMELLIA SINENSIS L.) PROTEIN HYDROLYSATES AMPLE**
Xuewu Zhang, South China University of Technology, China
- P17 **TITEL: GENOMIC DIVERSITY OF PIN AUXIN EFFLUX FACILITATORS GENE FAMILY IN OLEA EUROPAEA L. – A COMPARISONBETWEEN A CULTIVATED GENOTYPE (VAR. EUROPAEA CV. 'FARGA') AND ITS WILD RELATIVE (VAR. SYLVESTRIS)**
Hélia Cardoso, ICAAM/IIFA/Universidade de Évora, Portugal

POSTER PRESENTATIONS

P18

TITLE: PREPARING A PROTOCOL TO ASSIST A MULTI-OMICS APPROACH FOCUSED ON THE MOLECULAR MECHANISMS UNDERLYING ADVENTITIOUS ROOTING IN OLEA EUROPAEA L.

Hélia Cardoso, ICAAM/IIFA/Universidade de Évora, Portugal

P19

TITLE: MIRNA EXPRESSION ANALYSIS UNDER SALT STRESS IN H2274 SOLANUM LYCOPERSICUM

Burcu Arikan, Istanbul University, Turkey

END OF DAY 2

DAY - 3 OCTOBER 25, 2019 (FRIDAY)

ORAL PRESENTATIONS

Sessions: Pest Management to control plant disease, Horticultural Science and Biotechnology, Agricultural Bioinformatics, Plant Systems and Synthetic Biology, Plant Biochemistry, Crop and Horticultural, Science, Plant Evolution and Development

09:00-09:20

TITLE: THE SALACIA CHINENSIS L. EXHIBITS ANTIFIBROTIC PROPERTIES IN HEPATIC STELLATE CELL

Saranyapin Potikanond, Chaing Mai University, Thailand

09:20-09:40

TITLE : SUSTAINABLE STRATEGIES FOR MANAGEMENT OF DISEASES IN ORGANIC RICE IN THE UNITED STATES

Xin-Gen Zhou, Texas A&M AgriLife Research, USA

09:40-10:00

TITLE: USE OF MAGNETIC FIELD TO IMPROVE NATIVE BOREAL SEED GERMINATION AND SEEDLING GROWTH

Jean-Marie Sobze, Northern Alberta Institute of Technology, Canada

10:00-10:20

Coffee Break

ORAL PRESENTATIONS

10:20-10:40

**TITLE : IN VITRO STUDIES ON CALLUS INDUCTION OF ECLIPTA ALBA (L.) HASSK
: AN IMPORTANT PLANT OF TRADITIONAL MEDICINE**
Ashwani Kumar, University of Rajasthan, India

10:40-11:00

**TITLE : CRISPR-CAS9 IN THE SYNTHETIC BIOLOGY ERA FOR THE EMERGING
OILSEED CAMELINA SATIVA**
Jose A. Aznar-Moreno, Universidad Politécnica de Madrid, Spain

11:00-11:20

**TITLE : POWDERY MILDEW REGION CLASSIFICATION IN EARLY STAGES
THROUGH CONVOLUTIONAL NEURAL NETWORKS**
María Rico-Fernández, CINVESTAV-IPN, Mexico

11:20-11:40

**TITLE : PLANT NANOBIO TECHNOLOGY: FROM IMPROVING PLANT STRESS
TOLERANCE TO CREATING SMART PLANT SENSOR**
Honghong Wu, Huazhong Agriculture University, China

11:40-12:00

**TITLE : BIOFORTIFICATION OF WHEAT FOR IRON AND ZINC THROUGH
MOLECULAR AND CYTOGENETICS ASSISTED APPROACHES**
Upendra Kumar, CCS Haryana Agricultural University, India

12:00-12:20

**TITLE : TRANSCRIPTOME PROFILING OF INDOLE-3-BUTYRIC ACID-INDUCED
ADVENTITIOUS ROOT FORMATION IN OLEA EUROPAEA L. – A FOCUS IN THE
INDUCTION PHASE**
Hélia Cardoso, ICAAM/IIFA/Universidade de Évora, Portugal

ORAL PRESENTATIONS

12:20-12:40

TITLE :CRISPR/CAS9 OFF-TARGETS: A DAUNTING CHALLENGE TO PRECISE
GENOME TARGETING AND EDITING

Ashish Srivastava, Amity University Uttar Pradesh, India

12:40 - 13:00

TITLE: THE ROLE OF CADMIUM, AN ABIOTIC STRESSOR ON NITROGEN
DISTRIBUTION AND ANTIOXIDANT RESPONSE OF VIGNA UNGUICULATA L.
(COWPEA) GENOTYPES

Edokpolor Osazee Ohanmu, Edo University Iyahmo, Nigeria

13:00-14:00

Lunch Break

End note, Closing ceremony followed with Lunch

We wish to meet you again at our upcoming

PLANT BIOLOGY EVENT (PMB 2020)

Bookmark Your dates for
Plant and Molecular Biology
(PMB 2020) During
October 19-21, 2020 | Valencia, Spain

For any Question

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