

COST IPLANTA CA15223

WG1 Meeting:

**“Comparing siRNA and miRNA technology and
role for improving perennial plants”**

Linked to “ISHS

International conference on Grape

Biotechnology”, Bordeaux (FR),

July 17-18, 2018.

PROGRAM



iPLANTA WG1 Meeting:

“Comparing siRNA and miRNA technology and role for improving perennial plants”

INRA – VILLENAVE D’ORNON - BORDEAUX

The WG1 meeting will focus siRNA and miRNA technology and role in regulating different processes in plants and in their interaction with other organisms. A focus will be given in determining which technology has been favourably used for annual and perennial plant species including the rootstock-to-scion transfer of the silencing virus resistance signal. A scientific dissemination plan, including the preparation of a review on RNAi technology, will be discussed.

The meeting will be organized with the following working program:

- July 17 (Morning): registered WG1 experts will attend the “ISHS international conference on Grape Biotechnology”, at ENSEIRB, amphi Matmeca, 1 Avenue du Docteur Albert Schweitzer, 33402 Talence
- July 17 (Afternoon): iPLANTA WG1 meeting, registration at 2:00 pm, starting of the meeting 3:00 pm, at INRA- Bordeaux, 71 Avenue Bourloux, 33140 Villenave d’ornon.
- July 18 (morning): WG1 scientific session at INRA- Bordeaux, 71 Avenue Bourloux, 33140 Villenave d’ornon with selected oral presentations on major advances on RNAi technologies.
- July 18 (afternoon): WG1 discussion and planning of WG1 scientific and dissemination activities at INRA- Bordeaux, 71 Avenue Bourloux, 33140 Villenave d’ornon .

New specific topics will be introduced by identifying and invite 1 or 2 international speakers. All presentations will be oral. As for all iPLANTA meetings will be reimbursed only experts selected for abstract presentation as reported in the following program.

DAY 1 – Tuesday - July 17th, 2018, 9,00 – 13.00 – registered WG1 participants will join the - XII INTERNATIONAL CONFERENCE ON GRAPEVINE BREEDING AND GENETICS JOINT MEETING (ICGBG)

DAY 1 – Tuesday - July 17th, 2018, 14,00 – 18.00 – WG1 Meeting at INRA VILLENAVE D'ORNON - BORDEAUX

14:00 –Registration

14:30 – Opening of the Meeting Bruno Mezzetti and Jeremy Sweet

14:40 WG1 Meeting - Session 1 Chair Guy Smagghe and Jeremy Sweet

AUTHORS	ORAL PRESENTATION	
MICHEL RAVELONANDRO	SMALL RNAS AS NATURAL AND ARTIFICIAL TOOLS TO CONTROL GENES IN PERENNIALS	20 MIN
C. LIMERA, S. SABBADINI, A. RICCI, L. CAPRIOTTI, S. DHEKNEY, B. MEZZETTI	SOMATIC EMBRYOGENESIS IN GRAPEVINE: DEVELOPMENT OF AN ALTERNATIVE EXPLANT FOR GENE SILENCING	20 MIN
J.G. VALLARINO, C. MERCHANTE, M.A.DE LUIS BALAGUER, D.M. POTT, M. T. ARIZA, A. CASANAL, D. POSE, A. VIOQUE, L. WILLMITZER, R. SOZZANI, A.R. FERNIE, M. A. BOTELLA, J.J. GIOVANNONI, V. VALPUESTA, S. OSORIO	THE INVOLVEMENT OF <i>FAMADS9</i> IN THE REGULATION OF STRAWBERRY FRUIT RECEPTACLE DEVELOPMENT	20 MIN
PIERRE-OLIVIER DUROY, NATHALIE LABOUREAU, JONATHAN SEGUIN, RAJESWARAN RAJENDRAN, MIKHAIL POOGGIN, MARIE-LINE ISKRA-CARUANA AND MATTHIEU CHABANNES	NATURAL RESISTANCE OF THE DIPLOID <i>MUSA BALBISIANA</i> PISANG KLUTUK WULUNG (PKW) BANANA PLANT TO INFECTIOUS ENDOGENOUS BANANA STREAK VIRUS SEQUENCES IS DRIVEN BY TRANSCRIPTIONAL GENE SILENCING.	20 MIN

16:00 Coffee break

16:15 WG1 Meeting

AUTHORS	ORAL PRESENTATION	
M. ZARIFIKHOSROSHAHI, S. KAFKAS, <u>E. KAFKASH</u> , H. TOPCU, H. KARCI, M.GUNEY, H. PAIZILA	DIFFERENTIALLY EXPRESSED MIRNAS IN THE INFLORESCENCE BUDS FROM 'ON-YEAR' AND 'OFF-YEAR' TREES IN PISTACHIO	20 MIN
CLAUVIS N. T. TANING, OLIVIER CHRISTIAENS AND <u>GUY SMAGGHE</u>	ENGINEERED FLOCK HOUSE VIRUS FOR VIRUS-INDUCED GENE SILENCING IN FRUIT FLIES	20 MIN
<u>LUC SWEVERS</u> , CLAUVIS N T TANING, ANNA KOLLIPOULOU, OLIVIER CHRISTIAENS, AND GUY SMAGGHE	VIRUS-INDUCED GENE SILENCING (VIGS) IN INSECTS	20 MIN
SAMUEL LEWIS	THE EVOLUTION AND FUNCTION OF piRNAs ACROSS ARTHROPODS	20 MIN

17:35 Discussion

DAY 2 - Wednesday, JULY 18th AT INRA WG1 Meeting at INRA VILLENAVE D'ORNON - BORDEAUX

9.00 WG1 Meeting - Session 1 Chair Michel Ravelonandro and Bruno Mezzetti

AUTHORS	ORAL PRESENTATION	
<u>EMELINE RICCIUTI</u> , DELPHINE MASSÉ, BRUNO HOESTACHY, MARIE-LINE ISKRA-CARUANA	INTEGRATED SEQUENCES OF BANANA STREAK VIRUS (BSV) IN BANANA PLANTAIN: HOW DOES GENE SILENCING-BASED PLANT DEFENSE SYSTEM WORK?	20 MIN
M. GUIDARELLI, M.C. MERINO, <u>F. NEGRINI</u> , D. DE BIASE, A. PESSION, E. BARALDI	CHARACTERIZATION OF THE ROLE OF A RAPID ALKALINIZATION FACTOR (RALF) GENE IN THE SUSCEPTIBILITY OF STRAWBERRY FRUITS TO COLLETOTRICHUM ACUTATUM	20 MIN
<u>S. KAFKAS</u> , H. TOPCU, H. KARCI	DIFFERENTIALLY EXPRESSED MIRNAS DURING MALE AND FEMALE INFLORESCENCE BUD DEVELOPMENT IN PISTACHIO	20 MIN

10:00-10:30 Coffee break

10:30 Open session “”

AUTHORS	ORAL PRESENTATION	
CHRISTOPHE RITZENTHALER	DOUBLE-STRANDED RNA: UNIVERSAL HALLMARK OF INFECTION OF CELLULAR ORGANISMS BY VIRUSES	20 MIN
LORENZO BURGOS	TRANSFORMATION OF EUROPEAN PLUM (PRUNUS DOMESTICA) WITH HAIRPIN RNA AND WITH AMIRNA TO INDUCE RESISTANCE TO PLUM POX VIRUS	20 MIN
M. RAVELONANDRO, P. BRIARD , R. SCORZA	ASSESSING THE EFFECTS OF A LARGE SIZE OF A VIRUS TRANSGENE TRANSCRIPT ON VIRUS REPLICATION IN PLUMS.	20 MIN

11.30 Discussion

12:00 – Lunch

13:30 WG1 Discussion and planning

15:30 End of the meeting

PARTICIPANTS

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