

CONFERENCE PROGRAMME

DAY 1 – WEDNESDAY, FEBRUARY 15TH, 2017 MORNING – ARRIVAL

- **12:00 – 13:00 – Registration: NATIONAL RESEARCH COUNCIL, Piazzale Aldo Moro, 7 – AULA MARCONI**
- **13:00-13:05 - Welcome by Prof Bruno Mezzetti and Cristina Vettori**
- **13:00 – 16:15 - Working Group Meetings** – 5 separate WG meetings as parallel sessions. For each parallel session, the WGs Leader and Vice Leader have identified speakers among the Action experts presenting research programs in line with the scientific goals defined for the start of the Action. WG leaders will organise the programme in their session, promote and coordinate the discussion and develop plans of action for the WG.

PARALLEL SESSIONS

Session 1 – RNAi Technology (WG1) CHAIRPERSONS GUY SMAGGHE AND MICHEL RAVELONANDRO

AUTHORS	ORAL PRESENTATION	TIME
K. KASTAROU, A. OULAS, E. MITTA, E. DADAMI, I. VLATAKIS, K. KALANTIDIS	DISARMING PLANT DEFENSE BY RNAI: THE USE OF DCL KNOCK –DOWN <i>NICOTIANA BENTHAMIANA</i> PLANTS FOR INFECTION AND OVEREXPRESSION STUDIED	10 min
Z.SZWEYKOWSKA-KULINSKA , A.PACAK, K. KRUSZKA, A.SWIDA-BARTECZKA, P. NUC, WOJCIECH KARLOWSKI	MICRORNA 444.1 EXPRESSION CONTROLS BARELY TILLERING IN RESPONSE TO HEAT STRESS.	10 min
C. SARMIENTO , K. KARBLANE, M. TOOMPUU, J. GERASSIMENKO, E. TRUVE	ABCE1 IS A HIGHLY CONSERVED ENDOGENOUS SUPPRESSOR OF RNA SILENCING	10 min
A.DALAKOURAS, M. WASSENEGGER, J.N. MCMILLAN, V. CARDOZA, I. MAEGELE, E. DADAMI, M. RUNNE , G. KRCZAL AND MICHAEL WASSENEGGER	INDUCTION OF SILENCING IN PLANTS BY HIGH-PRESSURE SPRAYING OF IN VITRO-SYNTHEZIZED SMALL RNAS.	10 min
A.M.R. GATEHOUSE , M.G. EDWARDS	RNAi –MEDIATED KNOCKDOWN OF THE VOLTAGE-GATED SODIUM ION CHANEL (PARALYTIC A) CAUSES MORTALITY IN THE INSECT STORAGE PEST TRIBOLIUM CASTANEUM	10 min
M. GHANIM , S. KANAKALA	SILENCING GENES INVOLVED IN THE INTERACTION BETWEEN THE WHITEFLY <i>BEMISIA TABACI</i> AND <i>TOMATO YELLOW LEAF CURL VIRUS</i>	10 min
B. MOLESINI , G.L. ROTINO, T. PANDOLFINI	RNA SILENCING AS A TOOL FOR STUDYING GENES INVOLVED IN FRUIT SET	10 min
T. LAWRENSON, O. SHORINOLA, M. SMEDLEY, S. HAYTA, P. HUNDLEBY, W. HARWOOD	A COMPARISON OF TARGET GENE SUPPRESSION BY RNAi AND RNA-GUIDED Cas9 NUCLEASE	10 min
L. TOPPINO , M. KOOIKER, M. LINDNER, M. KATER, G.L. ROTINO	REVERSIBLE MALE STERILITY INDUCTION SYSTEM BASED ON ARTIFICIAL-MICRORNA MEDIATED INACTIVATION OF TWO GENERAL TRANSCRIPTION FACTORS IN EGGPLANT (<i>SOLANUM MELONGENA</i> L.)	10 min
Y. FEI, A. MOLNAR	INVESTIGATING THE EFFICACY OF RNA SILENCING-	10

	MEDIATED EPIGENETIC MODIFICATIONS IN VIRUS INFECTED PLANTS	min
G. DI RUOCCO, G. BERTOLOTTI, E. PACIFICI, L. POLVERARI, S. SABATINI, P. COSTANTINO AND R. DELLO IOIO	THE CONTROL OF CORTEX ANATOMY VIA MIRNA TARGET MIMICRY	10 min
AUTHORS	POSTERS	
M. TOPALOV, G. YAHUBYAN, M. GOZMANOVA, E. DASKALOVA, E. APOSTOLOVA, V. BAEV	EXPLORING THE MIRNAOME IN HABERLEA RHODOPENSIS – A MODEL PLANT FOR DROUGHT TOLERANCE	P
L. SWEVERS , J. VONTAS, K. KALANTIDIS	PLANT VIRUSES FOR DELIVERY OF RNAI TRIGGERS FOR PEST CONTROL: POSSIBILITIES AND OBSTACLES	P
M. TERZIKJ , E. SHUKAROVA STEFANOVSKA, E. MISKOSKA MILEVSKA, Z. POPOVSKI, Z. ARSOV, D. PLASHESKA KARANFILSKA	MICRORNA AND TOBACCO SPECIES: MACEDONIAN STORY YET TO BE TOLD	P
M. PETEK , K. GRUDEN	SELECTION AND VALIDATION OF NOVEL TARGETS FOR RNAi-BASED CONTROL OF COLORADO POTATO BEETLE	P
S. KAFKAS , E. KAFKAS, M. GÜNEY, M. ZARIFIKHOSROSHAHI, H. KARCI, N. ÇOBAN, H. TOPÇU, M. A. GÜNDEŞLİ, S. ETİ, Ş. KARABIYIK, N. ASLAN, S. ARPACI	EXPRESSION ANALYSIS OF CANDIDATE GENES RESPONSIBLE FOR BUD ABSCISSION IN PISTACHIO	P
ERNA KARALIJA	SEED PRIMING, A TOOL FOR PLANT PRIMING?	P
K. RAŽNÁ , L. HLAVAČKOVÁ, J. NŮŽKOVÁ, J. MORAVČÍKOVÁ	MICRORNA-BASED MOLECULAR MARKERS IN PLANT RESEARCH	P

Session 2- RNAi Applications (WG2) CHAIRPERSONS HUW JONES AND HELY HAGGMAN

AUTHORS	ORAL PRESENTATION	
K. PRENTICE , O. CHRISTIAENS, I. PERTRY, M. GHISLAIN, G. GHEYSEN, G. SMAGHE	RNAi-MEDIATED STRATEGY TO CONTROL THE AFRICAN SWEETPOTATO WEEVILS <i>CYLAS PUNCTICOLLIS</i> AND <i>CYLAS BRUNNEUS</i> (COLEOPTERA, BRENTIDAE)	15 min
K. KANYUKA , A. MACHADO, M. URBAN, W. S. LEE, N. BROWN, R. KING, E. YAMAZAKI LAU, C. SPARKS, A. L. V. BONATO, C. S. TIBOLA, N. F. MARTINS, F. J. ARAGÃO, J. WEST, J. M. C. FERNANDES, K. E. HAMMOND-KOSACK	HOST-INDUCED GENE SILENCING FOR THE CONTROL OF FUSARIUM HEAD BLIGHT IN WHEAT FIELDS	15 min
I. ZAGRAI , M. RAVELONANDRO, R. SCORZA, L. ZAGRAI, N. MINOIU	FIELD TRIALS FOR <i>PLUM POX</i> VIRUS RESISTANCE OF HONEYSWEET TRANSGENIC PLUM IN ROMANIA	15 min
V. ILARDI , E. DI NICOLA, S. MONTICELLI, A. GENTILE, R. C. GARCIA-ALMODOVAR, L. BURGOS, M. TAVAZZA	RNAi-MEDIATED RESISTANCE TO THE QUARANTINE VIRUS CAUSING SHARKA DISEASE IN STONE FRUITS	15 min
S. SABBADINI, C. OLIMERA, B. MOLESINI, T. PANDOLFINI, O. NAVACCHI, B. MEZZETTI	THE BOTTLENECKS IN OBTAINING AN EFFICIENT TRANSFORMATION PROTOCOL FOR RNAi SHARKA RESISTANCE IN PEACH	15 min
AUTHORS	POSTERS	
J. POLAK , J. K. KUNDU, P.	INVESTIGATION ON THE TRANSGENIC PLUM PRUNUS	P

KOMÍNEK, E. BEONI, AND T. NEUBAUEROVÁ	DOMESTICA L., CLONE C5 (CV. HONEYSWEET) FOR PROTECTION AGAINST SHARKA DISEASE.	
CAPETTA E., ANDOLFO G., ERCOLANO M.R.	APPLICATIONS OF GENOME ENGINEERING TECHNOLOGIES TO REWRITE DISEASE RESISTANCE SYSTEM	P
H. FULGOSI, S. JURIC	ANTISENSE RNA SILENCING OF THE TROL PROTEIN INVOLVED IN PLANT PHOTOSYNTHETIC ENERGY PARTITIONING	P
P. CEJNAR, L. OHNOUTKOVA, M. KOSTKOVA, T. VLČKO, J. K. KUNDU	TRANSFORMATION OF SPRING BARLEY WITH PARTIAL WDV REPLICATION PROTEIN	P
O. LAUNER, O. SHOSEYOV.	DOWN-REGULATION OF ENDOGENOUS PEANUT GENES VIA RNAI FOR THE REDUCTION OF PEANUT ALLERGENICITY	P

SESSION 3 - RNAi biosafety (WG3) CHAIRPERSONS SALVATORE ARPAIA AND ANTJE DIETZ-PFEILSTETTER

AUTHORS	ORAL PRESENTATION	
K.M. PARKER, B. MATEESCU, M. SANDER	ENVIRONMENTAL FATE OF DOUBLE-STRANDED RNA (DSRNA)-MECHANISTIC STUDIES ON DSRNA ADSORPTION AND DEGRADATION IN LABORATORY SYSTEMS	15 min
K. PURNHAGEN	REGULATING GMOS IN EUROPE: HOW SCIENCE LAW IS MOVING TO A LAW OF FEARS, AND WHY IT MATTERS	15 min
STUART J. SMYTH	CANADIAN REGULATORY PERSPECTIVES ON GENOME ENGINEERED CROPS	15 min
H.M.T. HOKKANEN, I. MENZLER-HOKKANEN	RNAi-BASED CONTROL OF THE POLLEN BEETLE <i>Meligethes aeneus</i> : RISK ASSESSMENT OF USING TRAP CROPS AS A DELIVERY PLATFORM	15 min
V. BARRAGAN-BORRERO, D. VAN LEEUWEN, K. SOSTAR, B. MATEESCU	MODELS FOR INVESTIGATING THE FUNCTIONAL TRANSFER OF PLANT-DERIVED RNA IN MAMMALIAN CELLS	15 min

SESSION 4 - RNAi socio-economy (WG4) CHAIRPERSONS JUSTUS WESSELER AND KONSTANTINOS KARANTININIS

AUTHORS	ORAL PRESENTATION	
K. M. NIELSEN	NEW TECHNIQUES, SCIENTIFIC AND REGULATORY ASPECTS	15 min
A MIHNEA, D. NIKOLOV	PRODUCTION RISK IN EXPECTED GROSS MARGIN BASED ON NEW METHODS OF PLANT PEST AND DISEASE RESISTANCE AND IMPROVING CROP QUALITY AND YIELD BASED OF USING ANALYTIC NETWORK MODELLING	15 min
D. PIOVAN	NEW BREEDING SOLUTIONS FOR NEW FARMERS' CHALLENGES	15 min
M. J. PUNT, J. WESSELER	THE FORMATION OF GM-FREE AND GM COASEAN CLUBS: WILL THEY FORM AND IF SO HOW MUCH CAN THEY ACHIEVE?	15 min
E. O. BENJAMIN, G. BUCHENRIEDER, H. STRASSER, J. WESSELER	A SOCIOECONOMIC ASSESSMENT TOOL FOR INNOVATIVE BIOTECHNOLOGY IN AGRICULTURAL PEST MANGEMENT	15 min
U. HARTUNG, J. TOSUN, S. SCHAUB	LOCAL RESISTANCE TO GENETICALLY MODIFIED ORGANISMS IN FOOD PRODUCTION DIFFUSION PATTERNS AND THE GMO-FREE NETWORK	15 min
H. KEHLENBECK, J.	SOCIO-ECONOMIC ASPECTS OF NOVEL BREEDING	15

SALTZMANN	TECHNOLOGIES IN AGRICULTURE – PERSPECTIVES AND CURRENT WORK IN GERMANY	min
T. J. VENUS, D. DRABIK, J. WESSELER	REGULATION OF NEW PLANT BREEDING TECHNIQUES: THE CASE OF RAPESEED IN THE EU	15 min
AUTHORS		POSTERS
C. MORFI, K. KARANTININIS, H. ANDERSSON	STRUCTURE OF THE SEED INDUSTRY IN SWEDEN	P

**SESSION 5 - RNAi Communication and public acceptance (WG5) - CHAIRPERSONS HILDE-
GUNN OPSAHL-SORTEBERG AND MATINA TSALAVOUTA**

ORAL PRESENTATION

K. MINOL, J. FREITAG AND K. SINEMUS	FRAMING A COMMUNICATION STRATEGY FOR RNAI GM PLANTS BASED ON EXPERIENCES FROM PAST EU AND NATIONAL RESEARCH PROJECTS	15 min
F. MIGLIACCI, D. PAFFETTI, C. VETTORI	THE COST ACTION FP0905 EXPERIENCE ON SCIENTIFIC DISSEMINATION	15 min

- *16:15– 16:30 Coffee break (posters on display)*
- *16:30 – 17:30 – Joint session – WG Leaders will summarize the most significant results presented during the WG meetings, and discuss future plans and activities of the WG.*