



**Meeting COST 853
Agricultural Biomarkers for Array-Technology**

**WG 1 Nucleic acid microarrays and WG 2 Protein
microarrays**

June 19-21, 2005

Gdansk, Poland

Scientific programme:

SUNDAY June 19, 2005:

18:00 – 20:00 Registration
20:00 Picnic – grill party at the open air

MONDAY June 20, 2005:

8:00 – 8:45 Registration
9:00 Opening
9:00 – 10:30 Lectures by experts (3 x 25 min)
 WG 1 Nucleic acid microarrays

9:00 – 9:30 **Marek Figlerowicz** – The application of microarray technology in the
 studies of plant-microbe interactions
9:30 – 10:00 **P. Formanowicz** – On some principles of DNA microarrays design and
 data analysis
10:00 – 10:30 **J. Sadowski** – DNA microarrays in studies of plant responses to abiotic
 stresses

10:30 – 11:00 Cofee/Tea

11:00 – 12:30 Lectures by experts (3 x 25 min)
 WG1 Nucleic acid microarrays

11:00 – 11:30 **C. Schoen** - Diagnostic application of padlock probes – multiplex
 detection of plant pathogens using universal microarrays
 WG 2 Protein microarrays

11:30 – 12:00 **M. Templin** – Protein microarrays: assays and systems
12:00 – 12:30 **J. van der Wolf** – Multiplex detection of viral and bacterial pathogens
 with the Luminex technology, a fluid microarray system

13:00 – 14:00	Lunch
14:00 – 15:30	Seminar presentation (4 x 20 min) WG 1 Nucleic acid microarrays
14:00 – 14:20	N. Boonham – COST 853 plant virus nucleic acid microarray: ringtesting and results
14:20 – 14:40	J. Tomilinson – DIAG CHIP update: ring testing comparisons of slide chemistries
14:40 – 15:00	X. Nesme – title will be given later
15:00 – 15:20	M. Ravnikar – Nucleic acid microarray application to potato and grapevine pathogen interaction studies
15:30 – 16:00	Coffee/Tea
16:00 – 18:30	Management Committee meeting
19:30	Workshop Dinner

TUESDAY June 21, 2005:

8:00 – 9:00	Poster Session
9:00 – 10:40	Seminar Session (5 x 20 min)
9:00 – 9:20	L. Belbahri – A DNA Oligo Array for identification of <i>Phytophthora</i> spp. to the Species level
9:20 – 9:40	M. Sip – Oligonucleotide-based microarray detection of plant viruses
9:40 – 10:00	O. Lenz – Parallel detection of fruit-trees viruses by oligonucleotide microarrays
10:00 – 10:30	Coffee/Tea
10:30 – 10:50	C. Schoen – Thru-hole open array technology
10:50 – 11:10	J. Lewosz – Conductive synthetic polymers and metal nanoparticles as structural components of microarrays
11:10 – 11:30	J. Kinkorová – The importance of nonstandard methods in systematic entomology
11:30 – 12:00	Juice/Water
12:00 – 12:40	Poster Session COST 853
12:40 – 13:00	I. Barker – Plant Health ERANET proposal and funding opportunities in FP7
13:00	P. Bonants – Closing remarks

13:30 – 14:30 Lunch

14:30 – 15:00 Departure (bus to the airport)

Poster Session COST 853

1. Anna Baturó

University of Technology and Agriculture, Department of Phytopathology, Bydgoszcz, Poland
“Preliminary studies on genetic variability of *Biopolaris sorokiniana* isolated from spring barley by RAPD-PCR”

2. Christiane Beckmann, Guido Vogel, Valérie Lemée, Gerhard M. Kresbach, Urs Vögeli, André Herrmann

Kantonales Laboratorium Basel-Stadt, Kontrollstelle für Chemie- und Biosicherheit, Basel, Switzerland

Former Zeptosens AG, Zeptosens, a Division of Bayer (Schweiz) AG, Witterswil, Switzerland
“Development of a monitoring system for microorganisms in the environment using DNA array technology”

3. Noemi Čeřovská & T. Pečenková

Institute of Experimental Botany CAS, Prague, Czech Republic
“Bacterial expression of recombinant plant viral proteins for raising antibodies”

4. Ingrid Franke-Whittle

University of Innsbruck, Bauteil V, Innsbruck, Austria
“Microarrays in compost”

5. Jerzy Lewosz & Tomasz Pilecki

Plant Breeding and Acclimatization Institute, Bonin, Poland
“Nanoparticles as immunosorbents and markers for detection of potato pathogens”

6. Aleksander Łukanowski

University of Technology and Agriculture, Department of Phytopathology, Bydgoszcz, Poland
“PCR assay determination of deoxynivalenol and nivalenol chemotypes of *Fusarium culmorum* isolates from various locations of winter wheat cultivation in Poland”

7. José E. Pérez-Ortín, Bárbara M. Bono, Antonio Olmos, Ana B. Ruiz-García and Mariano Cambra
Servicio de Chips de DNA-SCSIE, Departamento de Bioquímica y Biología Molecular, Universitat de València, Valencia, Spain

Departamento de Protección Vegetal y Biotecnología, Instituto Valenciano de Investigaciones Agrarias (IVIA), Valencia, Spain
“Electronic DNA chip for detection of potato viruses in potato tubers”

8. Monika Pfunder & Jürg E. Frey

Agroscope FAW Wädenswil, Molekulre Diagnostik, Wädenswil, Switzerland
“Microarray based diagnostics of pest fruit flies”

9. Joanna Przysowa, A. Michta, R. Czajkowski, S. Jafra, E. Łojkowska

Intercollegiate Faculty of Biotechnology, University of Gdańsk and Medical University of Gdańsk, Gdańsk, Poland
“Analysis of the bacterium isolated from the rhizosphere and capable of degrading AHLs”

10. Angela Quarta, Giovanni Mita, Palmiro Poltronieri, Antonio Logrieco, Angelo Visconti

Institute of Sciences of Food Production – CNR, Lecce, Italy
“Oligonucleotide array technology for differentiation of *Fusarium* spp. belonging to the *Liseola* section”

11. Almira Ramanaviciene, Arnonas Finkelsteinas, Margarita Lavrik, Natalija Kurilcik, Saulius Jursenas, Arunas Ramanavicius
Institute of Immunology, Department of Analytical and Environmental Chemistry, Institute of Materials Science and Research, Vilnius University, Vilnius, Lithuania
“Conducting polymer based receptors, toward protein arrays”

12. Małgorzata Waleron, Krzysztof Waleron, Ewa Łojkowska
Department of Biotechnology, Faculty of Biotechnology University of Gdańsk and Medical University of Gdańsk, Gdańsk, Poland
“Phylogeny of the *Erwinia* genus”