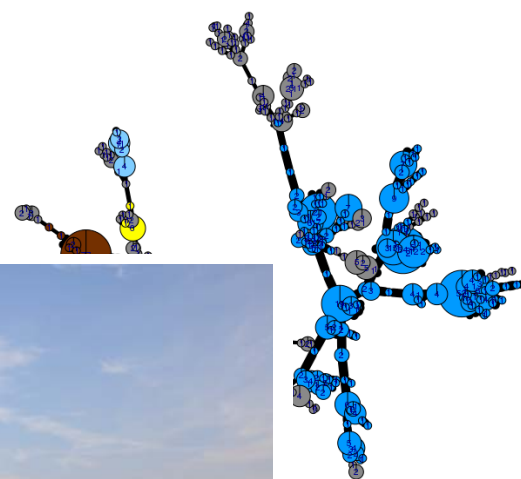




Scientific Programme

EuroBlight Workshop
Aarhus, Denmark 14-17 May 2017



Alison Lees, Huub Schepers and Jens G. Hansen, EuroBlight Coordinators
Local host. Aarhus University, Aarhus, Denmark



EuroBlight Workshop, Aarhus, Denmark 14-17 May 2017

A European network of scientists and other specialists working on potato early and late blight meet every 2nd year. The network combines two previous networks originating from European Concerted Actions and has 150 members.

- EU.NET.ICP: "European network for development of an integrated control strategy of potato late blight" (1996-2000). Coordinated by Huub Schepers
- EUCABLIGHT: "A potato late blight network for Europe" (2003-2006). Coordinated by Alison Lees.

The 16th Workshop is hosted by Aarhus University. The Workshop will be attended by 110 persons from 20 countries from Europe and beyond, including Russia, Chile, Argentine, Peru, China, Israel, Algeria and USA. Representatives from all countries will present recent research results regarding integrated control, decision support systems, resistance of varieties, late blight in organic potatoes and population biology of the late blight pathogen in potatoes. Since early blight is an increasing problem in Europe reports on this disease are also included.

www.EuroBlight.net .

EuroBlight Coordinators:

Alison Lees, The James Hutton Institute (UK)
Jens G. Hansen, Aarhus University (DK)
Huub Schepers, Wageningen University (NL)



For further information please contact the network secretariat where also additional copies of this Proceedings can be ordered.

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Sunday 14 May

- 18:00-21:00
- Registration and mounting of posters, **Hotel Comwell**.
 - Registration in the hotel at the poster session area.
 - Welcome reception "Get together" (19.00 – 21.00)

Monday 15 May

07:30-08:00 Registration and mounting of posters, **Hotel Comwell**

08:00-08:30 Opening and organisational remarks

Huub Schepers / EuroBlight

Jens Grønbech Hansen / Local organiser, Aarhus University

Session 1: Late blight and *P. infestans* - importance and characteristics. Status in Europe and beyond

Chairman: *Jens G. Hansen*

08:30-09:00 **Late blight and Early Blight in Europe in 2015 & 2016**

Huub Schepers, Alison Lees, Jens Grønbech Hansen & Hans Hausladen

09:00-09:20 **Update on the European *Phytophthora infestans* population and the EuroBlight toolbox**

David Cooke

09:20-09:40 **IPMBLIGHT 2.0: Using pathogen population information to improve late blight control**

Didier Andrivon

09:40-10:00 **Discussion**

10:00-10:40 **Coffee break and poster sessions**

Session 1 - continued

Chairman: *Huub Schepers*

10:40-11:00 **Recent developments: late blight in Asia**

Louise Cooke, Ruofang Zhang, Lei Wu, Si Hui Chen, Greg Forbes*

11:00-11:20 **Recent developments: late blight in the USA**

William E. Fry



- 11:20-11.40 **Recent developments: late blight in Latin America**
Ivette Acuña
- 11:40-12.00 **Current situation and future of CIP's role in regional potato late blight networks**
Jorge Andrade-Piedra & Greg Forbes
- 12:00-12.30 **Discussion**
- 12:30-13.30 **Lunch**

Session 2: Epidemiology and Modelling

Chairman: *Didier Andrivon*

- 13:30-13.50 **Decision Support Systems in Great Britain; The Hutton Criteria**
Siobhan Dancey
- 13:50-14.10 **The GeoPotato project: Development of potato late blight decision support tools for Bangladesh. Challenges and experiences**
Geert Kessel
- 14:10-14:30 **Forecasting the risk of late blight spread**
Peter Skelsey
- 14.30-14.50 **Spatio-temporal model of *Phytophthora infestans* dynamics at a Regional Scale using empirical data**
*Benjy Firester, Dani Shtienberg & Lior Blank**
- 14.50-15.10 **A new approach to the design of decision support systems used in the late blight management practice**
Konstantin Borovsky & Alexey Filippov
- 15:10-15:25 **Discussion**
- 15:25-15:50 **Coffee break**

Session 3: Host/pathogen interactions and characteristics

Chairman: *Geert Kessel*

- 15:50-16.10 **Pyramiding potato resistance genes against late blight**
Jadwiga Sliwka
- 16:10-16:30 **Can late blight resistance in potato drive genetic diversification in a clonal *Phytophthora infestans* population?**
Jeroen Stellingwerf
- 16:30-16:50 **New genomic approaches to study *Phytophthora* populations**
Florencia Lucca
- 16:50-17:10 **Discussion**



18:00-21:00 **City walk in Aarhus, Capital of Culture, 2017**
Dinner at Aarhus Street Food Festival



Tuesday 16 May

Session 4: Control strategies

Chairman: *Bent J. Nielsen*

- 08:10-08:30 **Control of potato early and late blight - experiences and views from practice in Denmark**
Henrik Pedersen
- 08:30-08:50 **Biologicals for the control of *Alternaria solani* under greenhouse and field conditions**
Nicole Metz & Hans Hausladen
- 08:50-09:10 **Biocontrol and *P. infestans* diversity: the potential of antagonistic bacteria**
Mout de Vrieze
- 09:10-09:30 **Challenges and opportunities with the EU Sustainability Directive for late blight control**
*Albert Schirring & Roel Wanningen**
- 09:30-09:50 **Discussion**
- 09.50-10.40 **Coffee break and poster sessions**



Session 5: *Alternaria*

Chairman: *Erland Lilejroth*

- 10:40-11:00 **Towards a knowledge-based approach for an integrated control of *Alternaria* spp. in potatoes**
Pieter Vanhaverbeke
- 11:00-11:20 **Prevalence of QoI and SDHI fungicide resistance in *Alternaria solani* – the situation in Germany**
Birgit Adolf
- 11:20-11:40 **Control of early blight by the use of SDHI Fungicides**
Nicole Metz
- 11:40-12:00 **Timing the application of fungicides to control potato early blight (*Alternaria solani* & *Alternaria alternata*) in multi-location field trials in Denmark**
Isaac Abuley
- 12:00-12:20 **Efficacy of fungicide to control Early Blight. Result of six EuroBlight experiments**
Bert Evenhuis
- 12:20-12:30 **Discussion**
- 12:30-13:30 **Lunch**

Session 6: Parallel subgroup meetings

- 13:30-13:45 **Introduction to parallel subgroup discussions**
Huub Schepers, Alison Lees and Jens G. Hansen

Subgroup: Control strategies

Chairman: *Huub Schepers*

- 13:45-14:00 **Dimethomorph monitoring in Europe 2016**
Olaf van Campen, Adama
- 14:00-14:15 **Mancozeb - Essential tool for durable protection against early and late blight**
Sjef van der Heijden, Jean-Jacques Heller, Serge Duvauchelle , UPL*
- 14:15-14:30 **Optimising the use of curative fungicides**
Kyran Maloney, Neil Havis, David Cooke, Gary Loake & Ruairidh Bain
- 14:30-14:45 **DuPont™ Zorvec™ disease control: A novel tool for the control of Late blight in potatoes**
Jan-Dries Luijks, DuPont



- 14:45-15:00 **Discussion**
- 15:00-15:30 **Coffee break**
- 15:30-15:45 **Can potassium phosphite be integrated in late blight control strategies in starch potato?**
Erland Lilejroth
- 15:45-16:00 **Predicting the combined efficacy of host resistance and fungicides for late blight control**
Faye Ritchie, Ruairidh Bain, Tim Boor, Neil Paveley
- 16:00-16:15 **Comparison and evaluation of six European late blight risk models**
Jens Grønbech Hansen
- 16:15-16:30 **New possibilities in late blight control**
Tim Buchheim & Carol Pullen
- 16.30-16.45 **Discussion**

Subgroup: Pathogen characteristics and host resistance

Chairman: *David Cooke*

- 13:45-14:00 **Characteristics of *P. infestans* and *P. andina* populations in Peru**
Hannele Lindqvist-Kreuze
- 14:00-14:15 **Late blight in Heilongjiang Province of China**
Mei Guo
- 14:15-14:30 **Diversity of chosen effectors in samples of Polish and Norwegian populations of *Phytophthora infestans***
Emil Stefanczyk
- 14:30-14:45 **Selection for fungicide tolerance in *P. infestans***
Bjorn Andersson
- 14:45-15:00 **Discussion**
- 15:00-15:30 **Coffee break**
- 15:30-15:45 **Resistance to late blight fixed in potato hybrid clones with diverse genetic background**
Elena Rogozina
- 15:45-16:00 **The effect of fungicides on local *Phytophthora infestans* populations**
Sinead Phelan
- 16:00-16:15 **Fungicide sensitivity of *Phytophthora infestans* in Europe**
Britt Puidet



- 16.15-16.30 **Monitoring sensitivity to CAA, Qil and Fluazinam among populations of *Phytophthora infestans* collected from French potato producing areas in 2016 : New methodology & Preliminary results**
Herve Steva
- 16:30-16:45 **Discussion**

Subgroup: Alternaria

Chairman: *Hans Hausladen*

- 13:45-14:00 **New data on early blight of potato caused by a complex of large-spored *Alternaria* species in Algeria**
*Ayad D., S.Lecer, B.Hamon, M.Milien, A.Kedad, P.Simoneau and Z. Bouznad**
- 14:00-14:15 **Early blight and black dot pathogens distribution in diseased potato and tomato leaves in Russia**
Sergey Elansky
- 14:15-14:30 **Species Diversity and Pathogenicity of *Alternaria* in Danish Potato Fields**
Rasmus Kjøller
- 14:30-14:45 **Needs-oriented treatment in ware potato**
Eva Edin
- 14:45-15:00 **Discussion**
- 15:00-15:30 **Coffee break**
- 15:30-16:00 ***5 minute presentations describing poster contributions:**
- 15:30-15:35 **The influence of crop rotation and cultivar resistance on the occurrence of early blight (*Alternaria solani*)**
Isaac Abuley
- 15.35-15.40 **Results of the monitoring of fungus of *Alternaria* genus in potato crops**
Jerzy Osowski
- 15:40-15:45 **Monitoring of the SDHI Mutations of *A. solani* in Serbia**
Jovana Blagojevic
- 15:45-15:50 **Incidence of the F129L mutation in the Serbian *A. solani* population**
Zarko Ivanovic
- 15:50-15:55 **Digital diagnostics of early blight and other symptoms on potato**
Jan Spoelder
- 15:55-16:10 **Discussion**
- 19:30-22.30 **Workshop dinner at the hotel**



Wednesday 17 May

Plenum
08.00-08.30 **Potato late blight management in four continents: Similarities, Differences and Future Opportunities and Challenges for network activities**
David Cooke, Jens G. Hansen, Huub Schepers, Alison Lees, Didier Andrivon, Jorge Andrade-Piedra, Greg Forbes, Louise Cooke, Ivette Acuña & William E. Fry

Session 6: Parallel subgroup meetings continued

08:35-10:00 **Control strategies** - discussion points: (*Huub Schepers*)

- Updating fungicide tables
- New initiatives - EuroBlight on control strategies
- International Collaboration

Pathogen and host resistance - discussion points: (*Geert Kessel*)

- Collaboration between network: harmonisation, integration and sharing of data and results
- 2017 monitoring in Europe and beyond
- New initiatives - EuroBlight on Pathogen and Host resistance

Alternaria - discussion points: (*Hans Hausladen*)

- Updating fungicide table
- Collaboration between network: harmonisation, integration and sharing of data and results
- 2017 monitoring in Europe and beyond
- New initiatives - EuroBlight on Pathogen and Host resistance

10:00-11:00 **Coffee break**

Session 7: Plenary session - outlook and new initiatives

11:00-12.15 **Report from the subgroups**

12:15-12.30 **Closing of the workshop**

12.30-13:00 **Sandwich To Go**

13:15 **Bus 1. Post workshop tour, Starch Industry and Danespo Seed potatoes. End at Billund Airport at 17.15**

13:30 **Bus 2. Participants to Viborg for IPMBlight2.0 annual meeting at AU Foulum**

Responsible	Poster no.	Poster Title	Authors
Marta Brylinska	1,1	Characterization of different methods of mating type determination in <i>P. infestans</i>	
Vincent Cesar	1,2	Phenotypic and Genotypic characteristics of Belgian isolates of <i>P. infestans</i> in 2013-2016	
Roselyne Corbiere	1,3	Monitoring French populations of <i>P. infestans</i> 2013-2016 on potato reveals local changes in genotypic structures	R. Corbière, C. Chatot, R. Mabon, D. Gaucher, F. Aurousseau, A. Barbary, P. Laty, D. Andrivon
Roselyne Corbiere	1,4	Variable temperature response in Algerian <i>P. infestans</i> EU_23_A1 isolates from tomato	S. Belkhiter, H. Khedidji, A. Krimi, R. Mabon, R. Corbière, D. Andrivon, Z. Bouznad
David Cooke	1,5	Structure of <i>P. infestans</i> populations in Northwestern Algeria during 2008-2014	Rekad, F.Z., Cooke, D.E.L., Cacciola, S.O., Puglisi, I., Randall, E., Evoli, M., Guenaoui, Y., Bouznad, Z.
Steven Kildea	1,6	Screening Irish <i>P. infestans</i> populations for mutations associated with CAA resistance	
Liudmila Kokaeva	1,7	Potato and bittersweet nightshade (<i>Solanum dulcamara L.</i>) leaves associated mycobiota	
Neda Najdabbasi	1,8	Phenotypic characterization of <i>P. infestans</i> isolates in North-Western Russia	
Omar Abderrahmane	2,1	Epidemiological risk factors of late blight in potato crops in Algeria	
Ivette Acuña	2,2	Late Blight Forecasting in Chile	Acuña, I. R. Bravo, M. Vargas and J. Gatica
Louise Aldén	2,3	Experiences of Decision Support Systems in the Swedish Potato Field Trials for <i>P. infestans</i> 2011-2016	L. Aldén, A. Gerdtsen

Mladen Cucak	2,4	Lowering thresholds of qualitative plant risk prediction algorithms: sensitivity versus specificity of Irish Rules for potato late blight development	M. Cucak, A. H. Sparks, R. Fealy, D. Griffin, K. Lambkin, S. Kildea
Florencia Lucca	2,5	Moving forward against potato late blight in Argentina	
Alison Lees	2,6	SMARTSPRAY: Optimised Detection and Control of Potato Blight: Sensing Pathogens to Inform Smart Spray Decisions	
Alison Lees	2,7	To make cultivar resistance durable, spray fungicide	Kevin Carolan, Ruairidh Bain, Alison Lees, David Cooke, Faye Ritchie, Neil Paveley, Frank van den Bosch
Peter Skelsey	2,8	BLIGHTSENSE - Development of a rapid biosensor system for in-field detection of <i>P. infestans</i>	
Pieter Vanhaverbeke	2,9	Potato late blight: managing the risk with up-to-date and field specific information	
Zouaoui Bouznad	3,1	Assessment of potato varieties for foliar late blight resistance in Algerian field trials in relationship to <i>P. infestans</i> genotype	L. Beninal, H. Khedidji, A. Krimi, F. Amirouche, R. Corbiere, A. Kedad, M. Keddou, D. Andrivon and Z. Bouznad*)
Oksana Fadina	3,2	Late blight resistance genes in complex interspecific potato hybrids	OKSANA A. FADINA, MARIYA P. BEKETOVA, MARIYA A. KUZNETSOVA, ELENA V. ROGOZINA, EMIL E. KHAVKIN
Manuela Hermeziu	3,3	Occurrence and evolution of potato late blight on some varieties and the influential factors in 2014-2015, Brasov, Romania	Manuela HERMEZIU, Maria IANOȘI, Daniela DONESCU, Carmen CHELMEA, R. HERMEZIU

Romain Mabon	3,4	Niche-exclusion in the field: the result from competition between generalist and specialist clonal lineages in the Irish Famine pathogen <i>P. infestans</i> ?	A. Kroner, R. Mabon, R. Corbiere, J. Montarry, D. Andrivon
Ekaterina Sokolova	3,5	Pathogenicity of <i>P. infestans</i> strains vs. resistance of colonized potato hybrids: can we understand pathogen-host adaptation by appraising the profiles of Avr genes vs. R gene pyramids?	E. A. Sokolova , M. A. Kuznetsova, T. I. Ulanova, A. N. Rogozhin, T. I. Smetanina, V. N. Demidova, M. P. Beketova, O. P. Malyuchenko, Ya. I. Alekseev, E. V. Rogozina, E. E. Khavkin
Ruairidh Bain	4,1	Foliar late blight development in the UK in relation to EuroBlight fungicide efficacy ratings	
Natalia Statsyuk	4,2	Revus Top: an efficient tool to control late and early blight of potato	Maria Kuznetsova
Huub Schepers	4,3	Tomato disease control strategies and costs in Tanzania	
Natalia Statsyuk	4,4	Efficiency of a Ranman Top use to control potato late blight under epiphytotic conditions in Russia	
Nicolas Vuille-dit-Bille	4,5	Using Pseudomonas interactions and their potential synergistic effect for sustainable potato protection against <i>P. infestans</i>	
Sjef van der Heijden	4,6	Mancozeb: An Essential Tool for Sustainable Protection of Potato Against Early Blight and Late Blight	Sjef van der Heijden, Jean-Jacques Heller and Serge Duvauchelle
Isaac Abuley	5,1	*The influence of crop rotation and cultivar resistance on the occurrence of early blight (<i>Alternaria solani</i>)	
Jovana Blagojevic	5,2	*Monitoring of the SDHI Mutations of <i>A. solani</i> in Serbia	Jovana Blagojevic and Zarko Ivanovic
Hans Hausladen	5,3	Studies about infection of different <i>Alternaria solani</i> isolates on <i>Solanum tuberosum</i> , <i>Lycopersicon esculentum</i> and <i>Solanum nigrum</i>	

Zarko Ivanovic	5,4	*Incidence of the F129L mutation in Serbian <i>A. solani</i> population	Zarko Ivanovic and Jovana Blagojevic
Jerzy Osowski	5,5	*Results of the monitoring of fungus of <i>Alternaria</i> genus in potato crops	
Jan Spoelder	5,6	*Digital diagnostics of early blight and other symptoms on potato	



List of participants, EuroBlight workshop, Aarhus, 14-17 May 2017. Updated 10 May.

No	Name		Institution/company	Country
1	Zouaoui	Bouznad	ENSA El Harrach	Algeria
2	Omar	Abderrahmane		Algeria
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5	Nicholas	Hubbard	Belchim Crop Protection NV	Belgium
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7	Vincent	Cesar	CRA-W	Belgium
8	Xavier	Plisson	FMC Agricultural Solutions	Belgium
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17	Isaac Kwesi	Abuley	Aarhus University	Denmark
18	Jens Grønbech	Hansen	Aarhus University	Denmark
19	Jytte	Christensen	Aarhus University	Denmark
20	Poul	Lassen	Aarhus University	Denmark
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27	Neda	Najdabbasi	Estonian University of Life Sciences	Estonia
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29	Pierre	Rougier	DuPont	France
30	Olivier	Couery	DuPont De Nemours	France
31	Serge	Duvauchelle	EURL Serge Duvauchelle	France
32	Catherine	Chatot	Germicopa	France
33	Didier	Andrison	INRA	France
34	Romain	Mabon	INRA	France
35	Roselyne	Corbière	INRA	France
36	Dominique	Laurentie	ISK Biosciences Europe N.V.	France
37	Frédérique	Aurousseau	SIPRE	France
38	Frederic	Giraud	STAPHYT	France
39	Herve	Steva		France
40	Vanessa	Tegge	BASF SE	Germany
41	Maria	Tackenberg	Bayer Digital Farming GmbH	Germany
42	Tim	Buchheim	ORO AGRI	Germany
43	Birgit	Adolf	TUM, Lehrstuhl für Phytopathologie	Germany
44	Hans	Hausladen	TUM, Lehrstuhl für Phytopathologie	Germany
45	Nicole	Metz	TUM, Lehrstuhl für Phytopathologie	Germany
46	Jeroen	Stellingwerf	Teagasc	Ireland
47	Mladen	Cucak	Teagasc	Ireland
48	Sinead	Phelan	Teagasc	Ireland
49	Steven	Kildea	Teagasc	Ireland
50	Dani	Shtienberg	ARO, the Volcani Center	Israel
51	Lior	Blank	Volcani Center	Israel
52	Bekri	Xhemali	Kosovo Institute of Agriculture	Kosovo
53	Olaf	van Campen	Adama	Netherlands
54	Abram	het Lam	Agrovision	Netherlands
55	Kees	Vogelaar	Agrovision	Netherlands



56	Marjo	Kruts	BASF	Netherlands
57	Roel	Wanningen	Bayer CropScience	Netherlands
58	Tjaart	Hofman	Certis Europe B.V.	Netherlands
59	Jan-Dries	Luijks	DuPont de Nemours	Netherlands
60	Jan	Spoelder	HLB	Netherlands
61	Doretta	Boomsma	HZPC Research B.V.	Netherlands
62	Karen	Apenhorst	Linge Agroconsultancy	Netherlands
63	Albert	van den Ende	Nufarm	Netherlands
64	Carol	Pullen	ORO AGRI	Netherlands
65	Sjef	van der Heijden	UPL	Netherlands
66	Huub	Schepers	Wageningen Plant Research	Netherlands
67	Geert	Kessel	Wageningen Plant Sciences	Netherlands
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71	Jorge	Andrade-Piedra	International Potato Center	Peru
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73	Tomasz	Jaskulski	BASF Polska	Poland
74	Emil	Stefanczyk	IHAR	Poland
75	Jadwiga	Sliwka	IHAR	Poland
76	Jerzy	Osowski	IHAR	Poland
77	Marta	Brylinska	IHAR	Poland
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89	Zarko	Ivanovic	Inst. for Plant Prot. and Environment	Serbia
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91	Anna	Gerdtsen	Swedish Board of Agriculture	Sweden
92	Louise	Aldén	Swedish Board of Agriculture	Sweden
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95	Eva	Edin	Swedish University of Agricultural Science	Sweden
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102	Kyran	Maloney	SRUC	UK
103	Ruairidh	Bain	SRUC	UK
104	Alison	Lees	The James Hutton Institute	UK
105	David	Cooke	The James Hutton Institute	UK
106	Peter	Skelsey	The James Hutton Institute	UK
107	Siobhan	Dancey	The James Hutton Institute	UK
108	William	Fry	Prof. emeritus Cornell University	USA
109	Steve	Johnson	University of Maine	USA



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