NORBARAG - Nordic Baltic Pesticide Resistance Action Group

Invitation to the

5th NORBARAG meeting 30-31 January, Tallinn (Estonia)

It is a pleasure to invite you to the 5th NORBARAG meeting 30-31 January, which will be held in Tallinn, Estonia.

5th NORBARAG meeting 30-31 January
The meeting will cover different aspects of pesticide resistance, especially, in the light of fewer new modes of action. Discussion will take place in three sub-groups (insecticides, fungicides and herbicides) and in plenary session.

Topics include:
- Test methodology and standards
- Verification and listing of documented cases of resistance
- Resistance risk assessment and management
- Resistance management guidelines for the growers
- Research needs
- Collaboration on resistance screening and monitoring
- Harmonization of the pesticide efficacy evaluation procedures and pesticide label

We encourage representatives from official research institutes in Denmark, Estonia, Finland, Latvia, Lithuania, Norway and Sweden who are involved in pesticide resistance research and pesticide efficacy evaluation and representatives of the agrochemical companies operating in the Nordic-Baltic region to attend this meeting. Suggestions for presentations are welcome and can be directed to the respective sub-group leaders or chairman regarding plenary session.

Read about NORBARAG-the Nordic Baltic Pesticide Resistance Action Group: [www.mtt.fi/norbarag](http://www.mtt.fi/norbarag)

PROGRAM COMMITTEE (NORBARAG)

**Plenary session:**
Roma Semaškienė, Lithuanian Research Centre for Agriculture and Forestry, Institute of Agriculture.
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**Fungicides:**
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**Herbicides:**
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**Insecticides:**
Michael Kristensen, Aarhus University, Department of Agroecology. Tel.: +45 8715 8116.
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MEETING PLACE
The meeting will take place at Hotel Euroopa very near to the city centre and to the port of Tallinn, Paadi 5. (http://www.euroopa.ee).

ACCOMMODATION
Hotel Euroopa will offer accommodation for the seminar participants at negotiated rates (Single room: € 55, Double room € 60) if booking request is sent directly to the e-mail karmen.ellermaa@euroopa.ee.

In the case you would like to stay right in the authentic Tallinn Old Town, as an alternative we also have made a preliminary booking at Hotel St. Olav. This hotel is located in a medieval house near to Oleviste church in old town, Lai street 5. There is a special discount for NORBARAG guests:
Single room 50 EUR
Double room 55 EUR
Booking code: NORBARAG 2013
http://www.tallinnhistoricalhotels.com/

Other hotels can be found and booked through the Tallinn tourist information web page. http://www.tourism.tallinn.ee/fpage/travelplanning/accommodation/facilities or through the booking.com: www.booking.com/Tallinn-Hotellid

NB! You have to book and pay your hotel yourselves.

GETTING THERE
The meeting place can easily be reached by public transport or car. http://www.euroopa.ee/et_EE/contact
Very good and easy to use Tallinn interactive map: http://kaart.tallinn.ee/Tallinn/Show?REQUEST=Main&lang=eng
From Tallinn Airport it takes ca 15 minutes by the bus (city line nr 2 stops at the airport and the nearest point to the hotel Euroopa is port terminal D) or 10 minutes by taxi. Tickets can be bought for cash only but taxis could mostly be paid by either cash or credit cards.

PARKING
Hotel Euroopa has an underground parking lot where parking for overstaying clients with car costs 10 EUR/ per day and with motorcycle 5 EUR/ per day. Conference guests can park their cars in the EuoPark parking lot situated next to the hotel where 30 min. of parking costs 0,50 € and 24 hours 2 €. There is also the Norde Centrum parking lot in front of the hotel.
PROGRAMME 5TH NORBARAG MEETING
Please note that the programme could be updated during the meeting.

30th of January - 5TH NORBARAG Sub-group-meetings
08:30-09:00 Registration
09:00-10:30 Fungicide, herbicide and insecticide sub-group meetings.
10:30-11:00 Coffee break
11:00-13:00 Fungicide, herbicide and insecticide sub-group meetings
13:00-14:00 Lunch at Hotel Euroopa
14:00-15:30 Fungicide, herbicide and insecticide sub-group meetings
15:30-16:00 Coffee break
16:00-17:00 Fungicide, herbicide and insecticide sub-group meetings
19:30 Dinner at restaurant Balthasar

31st of January - 5TH NORBARAG-meeting
08:30-08:50 Welcome (Taavi Võsa, Roma Semaškienė)
08:50-09:00 Minutes of 4th NORBARAG meeting in Sweden in 2011 (Henrik Hallqvist)
09:00-09:30 Report from the herbicide subgroup (Solvejg K. Mathiassen)
09:30-10:00 Report from fungicide subgroup (Gunilla Berg)
10:00-10:30 Report from insecticide subgroup (Michael Kristensen)
10:00-10:30 Coffee break
10:30-10:45 A new project "Evolution-proof pest management" (Michael Kristensen)
10:45-11:10 A new Danish pesticide tax system: Implications for pesticide resistance management (Per Kudsk)
11:10-11:30 Report from the task group: Status on "Prevention of resistance" (Morten Nygaard)
11:30-11:40 Norbarag logo (Henrik Hallqvist)
11:40-12:00 Norbarag web page now and in future; its funding (Jarmo Ketola)
12:00-12:30 Next year meeting and any other business (Roma Semaskiene)
12:30-13:30 Lunch at Hotel Euroopa

LOCAL ORGANIZERS
Estonian Research Institute of Agriculture

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PRELIMINARY AGENDA: SUB-GROUPS

Herbicide sub-group

1. Welcome and introduction - Solvejg Mathiassen (SMA)
2. Acceptance of agenda (SMA)
3. Reports
   3.1 Minutes of the 4th NORBARAG herbicide subgroup meeting in Sweden 2011
   3.2 Report from EPPO workshop on herbicide resistance in Berlin
   3.3 Report from EWRS working group
   3.4 Report from other meetings
4. Country reports on resistance activities in 2012 (brief communication from each country)
   Status for the resistance situation in each country, e.g. new cases of herbicide resistant weeds,
   research/field trials, concerns, solutions, guidelines, resistance risk assessment/analysis.
5. Herbicide resistance in Crop Protection Online (Per Rydahl)
6. Herbicide efficacy on resistant Stellaria media - field studies in Finland (Tuomas Uusitalo)
7. News from the companies
8. News from German HRAC (Hans Drobny)
9. Joint actions in the HR- group
   9.1 Abstracts for EWRS Symposium in Turkey 2013 (SMA)
   9.2 Weed resistance list for the Nordic/Baltic region. To be reviewed and updated
   9.3 Slide show from EPPO workshop in Berlin: Status of herbicide resistance in North Zone (SMA)
   9.4 Ideas for new collaboration activities and how to get funding
10. Efficacy situation in the countries as seen in 2012. Brief information on new products authorized and
    other relevant data from research.
11. Any other business
    11.1. Selection of a new chairperson
PRELIMINARY AGENDA: SUB-GROUPS

Fungicide sub-group
1. Welcome and introduction (GB)
2. Acceptance of the agenda
3. Reports
   3.1 Minutes from 4th NORBARAG fungicide subgroup meeting in Sweden 2011. (GB)
   3.3 Reports from other meetings
4. NORBARAG activity on potato late blight and early blight
   4.1 Results from company surveys
   4.2 National surveys - Denmark (Bent Nielsen), Sweden (Eva Edin), Norway (Ragnhild Nærstad)
   4.3 Co-ordination of sampling and test 2013
5. 2012 fungicide sensitivity status of cereal pathogens (Andreas Mehl, Bayer)
6. NORBARAG activity on cereals diseases
   6.1. Results from company surveys
      BASF - Andreas Mehl/Klaus Heltbach
      Bayer - Jörgen Lundsgård
      Syngenta - Morten Lind/ Louise Vedel
      Dupont - Tone Glarborg
      Mabeno -
      Other results from FRAC
   6.2 National surveys – Denmark (Lise Nistrup), Norway, Finland (Ulla Heinonen), Lithuania (Roma Semaskiene), Latvia (Ilse Priekule), Estonia (Veiko Kastanje), Sweden (Gunilla Berg)
      Field performance in the countries 2012
      Data on fungicide resistance
   6.3 NORBARAG activity on Septoria tritici - changes in CYP51 mutations in the Septoria populations following the use of different triazole strategies (Lise Nistrup)
   6.4 Co-ordination of sampling and tests 2013
7. Other plans for 2013
PRELIMINARY AGENDA: SUB-GROUPS

Insecticide sub-group
9:00-10:30
- Welcome and acceptance of agenda.
- Introduction and examples of resistance studies in Denmark (Michael Kristensen, Institute of Agroecology, Aarhus University, Denmark).
- An overview on resistance of insects in outdoor plants in Finland (Jarmo Ketola MTT Agrifood Research, Finland).

10:30-11:00 Coffee break
11:00-13:00
- Testing of Pollen beetles in Europe incl. the Nordic (Hanne Soendenbroe, DuPont Denmark).
- Resistance status of pollen beetles in Lithuania during 2008-2012 (Remigijus Smatas, Institute of Agriculture, Lithuanian Research Centre for Agriculture).
- Main oil-seed rape pests of Latvia. (Ilze Apenite, Latvia Plant Protection Research Center, Latvia).
- Evolution-proof pest management (Michael Kristensen, Institute of Agroecology, Aarhus University, Denmark).

13:00-14:00 Lunch at Hotel Europe
14:00-15:30
- Reports from workshops, working groups, other meetings and national activities?
- Neonicotinoid resistance and spinosad resistance of the housefly, *Musca domestica* – from bioassay to transcriptome (Michael Kristensen, Institute of Agroecology, Aarhus University, Denmark).
- Future activities in the Norbarag insecticide subgroup.

15:30-16:00 Coffee break
16:00-17:00 Open program