



European Network for the durable exploitation of crop protection strategies

IA3 Activity: Human resource exchange

ENDURE - Internal Mobility

Final activity report

(The form has to be filled in and sent to the activity leader – message should be sent to his p.a. elisa.scanzi@ibaf.cnr.it – within 15 days after the end of the visit)

Topic of the visit

1. Information about researcher and sending partner

Name and surname: Nora Levay

Professional status: *(PhD student, post-doc, junior or senior scientist)* PhD student

Sending partner: Szent Istvan University

Institute/Department/Research Unit: Plant Protection Institute

Address: *(street, postal code, city)* 2103, Godollo, Pater K. u. 1. Hungary

E-mail and phone number of the researcher: Nora.Levay@mkk.szie.hu
0036 20 241 6464

Supervisor name*: Dr. Jörn Strasse Meyer

Supervisor e-mail*: joern.strasse Meyer@jki.bund.de

Supervisor phone number*:

*Supervisor information only for PhD student, post-doc and junior researchers

2. Information about hosting partner

Hosting partner: Julius Kühn Institut

Institute/Department/Research Unit: Julius Kühn Institut – Institute for Strategies and Technology Assessment in Plant Protection

Address: Germany, 14532-Kleinmachnow, Stahnsdorfer Damm 81.

Supervisor name*: Dr. Jörn Strassemeyer

Supervisor e-mail*: joern.strassemeyer@jki.bund.de

Supervisor phone number*: 0049 3320348366

* For senior scientist indicate the name of the collaborating colleague

3. Information about the visit

Duration: *(number of weeks or months)* 2,5 months

Starting date: 20th February, 2008

(mobility started 20 days later in contrast to the originally planned period due to an unexpected hospital stay and health problems)

Ending date: 3rd May, 2008

4. Description of the activities and outcomes

Background and context: *maximum 10 lines*

Objective: *working out the concept of a risk assessment model that has the potential to quantify the hazards of cropping strategies on biological diversity. Thus the tool, which is being developed, should be able to compare different crop protection strategies in terms of their potential impact on biodiversity. The model is fed with data on pesticide application strategies.*

Activities carried out: *literature survey among agricultural biodiversity studies was carried out. As a result of the mobility stay, the concept of the risk assessment model has been developed. This work was introduced among subactivity participants at the joint workshop of RA3.3 and RA3.4 held in Zürich, Switzerland in May, 2008.*

5. Links between visit activity and ENDURE

Describe links and relevance of your visit in relation to a specific ENDURE activity(ies) and sub-activity(ies) – maximum 15 lines

This mobility stay has been integrated within the RA3.3 activity, namely environmental risk and benefit assessment. The overall objective of this activity is to compare existing cropping strategies and to carry out ex ante assessment of upcoming cropping techniques. The challenge of this activity is to handle the complexity of agricultural environment and the diversity of different cropping systems across Europe. Available models reflect the wide range of conditions typical in Europe. If the target is to conduct an environmental risk assessment at a pan-European scale, we face both biological and mathematical problems, thus, the simultaneous use of different tools may result in reliable evaluation, since all models focus on various aspects of the complex agri-environmental system.

My work is a step in this process. A new module for this complex evaluation is being under development, hopefully resulting in a risk assessment model in the near future. This work has been initiated within the frames of ENDURE.

6. Impact

Added value for the researcher: *There was an opportunity to study the SYNOPSIS model (developed at JKI) and to learn about landscape level modelling of pesticide drift hazards.*

Added value for sending partner and hosting partner: *Different approaches are reflected in the model concept due to the fact that the research fellow and the hosting supervisor added up their different experiences from regions with different biotic, abiotic and economic conditions.*

Date of submission



Dr. Maurizio Sattin
IA3 activity leader

Approved

