





ENDURE

European Network for Durable Exploitation of crop protection strategies

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Summary





The ENDURE Executive Committee has confirmed the strategic importance of fostering mobility of researchers, especially among the partners. Therefore, in the third year of activity the Network has allocated substantial funding to this activity. The third internal mobility plan (MP) of ENDURE was set up during the period October-December 2008 and it primarily involved partners of the ENDURE Network. Moreover, a call for researchers from ICPC countries was also planned and it was agreed to dedicate three rather than two grants, as previously done in 2008.

All information about the implementation, rules, duties and procedures were regularly updated by IA3 coordination office in the public web-site. In particular, two calls were published: one for the internal mobility plan, and one for mobility involving scientists from ICPC countries.

At the moment, about 67% of the researchers included in the **3rd internal mobility plan** have done all or part of their mobility period: 20 researchers have completely finished while one have done part of it, and six have been moved to the 4th MP and they confirmed that they will implement their mobility by end of June 2010. Six researchers have cancelled their mobility for various reasons, two of whom were substituted. A total of 38.5 (71%) months of mobility have been done.

Comparing the 2009 results with those obtained during 2008 the number of researchers implementing their mobility as originally planned is constant (about 20 scientists) while it doubled compared to 2007 (about 10 scientists). In terms of manmonths we observe a progressive increase in the percentage of mobility months implemented in due time, with a 10% increase from the first to the second and a 25% increase from the second to the third MP.

Twenty researchers sent their final report to the activity leader. For some of them additional information or clarifications on specific points were requested and one of them was rejected.

Eleven researchers from ICPC countries applied to the **2**nd **ICPC call** and three were granted a three-month mobility at one of the ENDURE organisations. One scientist already completed the mobility period, one is doing it and the third will complete it by end of June 2010.

Within the 3rd human resources exchange there has been also a **contribution to the Joint Educational Programme (SA1.2)** in terms of identification of the PhD students enrolled in the 3rd MP, and co-organisation of a joint workshop between SA1.2 and IA3 at the annual meeting in Wageningen where the conditions that should favour inclusion of experts from other ENDURE partners in the PhD students defence committees were discussed.





1. Third internal mobility plan

1.1 Planning

The ENDURE Executive Committee has confirmed the strategic importance of fostering mobility of researchers, especially among the partners. Therefore, in the third year of activity the Network has allocated substantial funding to this activity.

The third internal mobility plan (MP) of ENDURE was set up during the period October-December 2008 and it primarily involved partners of the ENDURE Network. Moreover, a call for researchers from ICPC countries was also planned and it was agreed to dedicate three rather than two grants, as previously done in 2008.

1.2 Call, rules, duties and procedures

The third internal MP involved only people belonging to the network's partners. The call was published at the beginning of October 2008 with the deadline on 15th November (see annex I).

Eighteen applications were received, evaluated, and two were rejected due to budget limitations. Some requests for rather long mobility periods made by PhD fellows had to be shortened due to the same reason. In July 2009, when some budget became available because of a few scientists withdrew, two more scientists were included in the 3rd MP.

The plan included a total of 30 researchers, (9 senior scientists, 12 junior and 9 PhD students – see annex II) resulting from 18 applications plus 12 researchers transferred from the 2nd MP who had not implemented their mobility during 2008.

Young researcher means a PhD student or a person with less than four years research experience after his/her degree, an experienced (senior) researcher is a person with four to ten years research experience after his/her degree, and a junior is a scientist with an experience between four and ten years.

For each stage, the length of the period was set at 1-3 months for senior researchers and 2-6 months for younger researchers. In total the 3rd MP included 59,25 manmonths. The grants were roughly calculated according to Marie Curie schemes, i.e. according to the level of the researcher and the country of the hosting institution. All research partners were involved either as sending (10) or hosting (13) institution.

Other rules, duties and procedures were identical to those used for the 1st and 2nd internal mobility plan (see Deliverable DI3.2 and Deliverable DI3.5).

1.3 Implementation of the third mobility plan

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All information about the implementation, rules, duties and procedures were regularly updated by IA3 coordination office in the public ENDURE web-site.

At the moment, about 67% of the researchers included in the third internal mobility plan have done all or part of their mobility period: 20 researchers have completely finished (including a scientist substituting another) while six have been transferred to the 4th MP and will finish their mobility period during 2010. Of those six, one is completing his mobility period and another is substituting a withdrawn scientist. Four researchers have cancelled their mobility for various reasons (2 coming from the second MP and two granted in the 3rd MP). A total of 38.5 months of mobility have

been done, which represents about 71% of the overall number of mobility-months originally planned (see annex III).

Comparing the 2009 results with those obtained during 2008 the number of researchers implementing their mobility as originally planned is constant (about 20 scientists) while it doubled compared to 2007 (about 10 scientists). In terms of manmonths we observed a progressive increase in the percentage of mobility-months implemented in due time, with a 10% increase from the first to the second and a 25% increase from the second to the third MP.

All researchers that ended their mobility in 2009 sent their final report to the activity leader. The final Reports are available and can be downloaded from Endure web site at the following address: http://www.endure-network.eu/content/view/full/1392/offset/1/nom/mobility_and_job_opportunities/staff_mobility/internal_mobility/third_mobility_plan. For some of them additional information or clarification of specific points were requested. One of them was rejected by the activity leader (see the paragraph "problems and opportunities"). The remaining 6 researchers have been included in the fourth mobility plan (spanning from M36 to M48) and all of them have recently confirmed that they will finish their mobility according to the plan by June 2010.

2. Other activities in the third human resources exchange

2.1 Support to Joint educational programme (SA1.2)

IA3 gave support to SA1.2 (Joint educational programme) to favour the inclusion of experts from other ENDURE partners in the PhD students discussion committees. The first activity was to identify the PhD students among the scientists enrolled in the 3rd MP and send the list to the SA1.2 activity leader. Those eight could benefit of the inclusion of experts in their discussion committee. The second activity was to coorganise a joint workshop between SA1.2 and IA3 at the annual meeting in Wageningen and discuss the conditions that should favour inclusion of experts from other ENDURE partners in the PhD students discussion committees on the PhD students discussion committees.

2.2 Call for mobility involving scientists from ICPC countries

IA3 in collaboration with IA1.3 (Linking with partners outside Europe) prepared and published the second call for mobility involving scientists from ICPC countries. The call text was slightly modified from the previous one and made more self explanatory. It was published in the "mobility" pages of the ENDURE public web site (see Annex IV) in mid April with the deadline on July 1st August 2009. It was also advertised in the collaborative workspace and the Endure newsletter. All ENDURE partners collaborating in SA3 contributed to advertise the call through their international links. Eleven excellent applications were received, and three were accepted by the





evaluation committee formed by the IA3 and IA1.3 leaders. One of the three grantees has already completed the mobility period and sent the final report (it can be downloaded from Endure web site at the following address: http://www.endure-network.eu/content/view/full/1390/offset/1/nom/mobility_and_job_opportunities/staff_mobility/external_mobility/grants_for_icpc_scientists_2009), a second scientist is presently doing his mobility and the third will implement it before June 2010 (Annex V).

The IA3 coordination office is giving all needed assistance to reach a smooth implementation.

Compared to the first call for ICPC grants (2008), where only 2 applications were received and granted, the 2nd ICPC call was definitely more successful, thanks to an active campaign of advertisement done toward Endure Partners in the mobility pages of the ENDURE public website, in the ENDURE collaborative workspace and in the internal newsletter.

3. Problems and Opportunities

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During the implementation of the plan, a few **problems** were encountered and corrective actions were taken, as summarised below.

- Whenever possible, if a scientist cancelled the mobility, the activity leader proposed the sending institution to substitute the researcher originally included in the plan. Two substitutions were made.
- A frequent request was to split the mobility in several short periods of a few days each. A minimum of at least two consecutive working weeks has been set for the visit to be considered as a "mobility period" (rather than a "short visit") and therefore accounted in the mobility budget.
- One of the scientists implemented the mobility in an Institution outside ENDURE's partnership different from the one he indicated in the Application Form and without prior request of authorisation. Consequently, his Final Report was rejected.
- It has been sometimes difficult to get information back from the participants to the third mobility plan, who often did not answer to e-mails sent by the IA3 coordination office. The scientists' supervisor or the responsible for the mobility of the sending institution where sometimes used as intermediates to get in touch with the scientist.

Despite all efforts made and the substantial flexibility, 6 scientists have withdrawn from the mobility plan, two of whom were substituted. The unused budget was an **opportunity** for other scientist. Indeed:

- In July 2009 two more scientists were included in the 3rd MP.
- Considering that the lack of agreement between Nigeria and Italy on double tax payments obliged the Italian National Research Council (CNR) to retain for taxes 30% of the gross monthly allowance given by the Endure Project to the ICPC scientist awardees of the 2nd call going to CNR-IPP, the gross monthly allowance to the scientists had been increased from € 1800 to € 2200.

Annex I. Call for ENDURE third internal mobility plan

Third mobility plan

Call for the 3rd Mobility Plan

The third internal mobility plan, running from January 1, 2009 through to June 30, 2010, will be open to researchers from ENDURE partners. The total number of people to be included in the plan is not predefined, but will be set in relation to the number of applications and their duration. Both junior and senior researchers are invited to apply.

Those interested should fill in the application form:

Application form [msword - 42.00 kB]

The candidate must provide a short CV as well as approval from both hosting and sending institutions.

All documents have to be sent to the activity leader Maurizio Sattin – the message should be sent to his PA: denise.barreiro@ibaf.cnr.it – by 15 November 2008.

All researchers participating in the third mobility plan will have to comply with specific rules.

Rules and duties

The project should be linked to a specific ENDURE activity and sub-activity(ies). The applicant should clearly state the relevance of his/her project to ENDURE activities.

The grant is intended to cover the travelling costs and stay at the hosting institution, typically for a period of one to two months for experienced researchers and three to six months for junior researchers (PhD and new post-docs).

During the mobility period, the visiting researcher will continue to be employed by his/her sending institution, i.e. ENDURE does not pay any salary.

Budget

Eligible costs will be:

- Travelling costs: one return travel from the sending to the hosting institution (€750)
- Monthly allowance and/or accommodation and living expenses: the reimbursement will be made directly by the sending institution according to its own internal rules. Therefore, to calculate the budget for each stay we ask for an estimate of the costs of the stage according to the rules of the sending institution (i.e. specific monthly allowance and/or accommodation and living expenses, taxes, etc.). The estimate should be countersigned by the applicant's supervisor. However the maximum ENDURE contribution will not exceed that provided by the Marie Curie actions, which are set according to the level of the applicant and country of the hosting institution. See http://ec.europa.eu/research/fp6/mariecurie-actions/action/fellow_en.html, see page 40 to the handbook
- Hosting institution costs: The following contributions to expenses for the hosting institution have been decided:
- €500 per month for clearly-defined laboratory work
- €250 per month for a desk

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Bench-fees are not applicable to ENDURE mobility and the contribution to expenses will be directly included in the budget of the hosting institution.

The budget for each researcher will be defined and communicated before the start of the mobility.

Implementation

The third internal mobility plan includes 16 new applications, and 12 researchers from the 2nd mobility plan transferred to it. The former must finish the mobility period by June 2010, while the latter must end it by December 2009.

The following steps should be taken:

- a) the researcher, prior to the start of the visit, needs to confirm with the activity leader, Maurizio Sattin, the start and end dates of the visit as well as the hosting institution (the message should be sent to his p.a.: denise.barreiro@ibaf.cnr.it);
- b) at the end of the visit, the researcher has to send a final report to the activity leader, Maurizio Sattin, (the message should be send to his p.a. denise.barreiro@ibaf.cnr.it). The final report should be sent within 15 days of the end of his/her visit;

download the form:

Final Activity Report [msword - 63.00 kB]

c) the researcher will be refunded directly by his/her institution after the activity leader has approved and transmitted the final report to the reference person of the specific organisation. The reference person for each organisation should inform his/her administration of the above rules;

For further information, please contact: denise.barreiro@ibaf.cnr.it





Annex II: Table of the third mobility plan

Sending partner		Topic or mission description	Hosting Institute	Stay Duration
AGROS	Junior Scientist	To calculate LCA for several crop protection strategies for tomatoes, peppers and cucumbers in a close collaboration with the specialists at the IRTA.	IRTA	2 months
AGROS	Senior Scientist	Investigations on Fusarium head blight occurrence on wheat and triticale.	IHAR	2 months
AGROS	Senior Scientist	Analysing risk-behavior and the impact on crop protection strategies of pomefruit growers in the UK.	RRES	1 month
AGROS	Junior Scientist	Different test studies of RA3.4 (LCA of pest control strategies) in close collaboration with the crop specialists	UdL	1month
AU	Post Doc	Fungicide resistance: The objective of this current project is to investigate parameters involved in triazole sensitivity in the wheat patogen Pyrenophora tritici-repentis.	RRES	2 months
AU	Senior Scientist	Evaluation of the arthropod community on transgenic tomato and/or eggplant using network analysis methods, with special reference to nonnative arthropods in food webs connected to genetically modified crop plants.	SZIE	1,5 month
CNR	PHD Student	The aim of the visit is to study the impact of agricultural practices will and it will be used both ecological and molecular approaches.	AGROS	4 months
CNR	Post Doc	Resistance to glyphosate in grass weeds. Non-target-site based herbicide resistance. Use of biochemical tools to perform enzymatic studies and to diagnose herbicide	UdL	1 month





		resistance.		
CNR	Post Doc	The attractiveness of antagonists of herbivore insects is regulated by the emission of volatile compounds by herbivore-infested plants.	RRES	1 month
IHAR	PHD Student	Characterization, identification and detection of plant pathogenic bacteria using molecular, biochemical and serological methods.	PRI	3 months
IHAR	Scientist	Work on developing of database ENDURE-ALPS	JKI	1 month
IHAR	Senior Scientist	The main topic of the visit will be research on exploitation of resistance of wheat to Fusarium head blight and other important diseases for control and reduction of pesticides use.	AU	3 months
IHAR	Senior Scientist	Relating assembly of weed communities to management and environment using information on plant functional traits. Two contrasting systems will be studied, Polish extensive production and UK intensive production.	RRES	1,5 month
INRA	Junior Scientist	This visit is first an opportunity to be trained to the Swiss method for Life Cycle Assessment (SALCA) and then, to contribute to both the implementation and the validation of this method in orchards using the set of data collected in the orchards systems of Gotheron experimental unit.	AGROS	3 months
INRA	Senior Scientist	 Interviews planned in the RA3.5 program for JPA3, Analysis of the data with RRES colleagues Interactions with other scientists inside and outside 	RRES	1 month





		RRES (seminar/meetings) so as to possibly open the collaborations to other institutions for social sciences.		
INRA	Scientist	This task aims at analysing, at an European comparative scale, the advisory services organisation, the advisors/farmers relations and the farmers decision-systems.	SSSUP	1 month
INRA	PHD Student	Understanding what drives farmers to adopt integrated crop protection in a comparative way, i.e., between France, Netherlands and Spain	PRI	3 months
JKI	Junior Scientist	Conceptual work to fit ENDURE to the requirements of Kopernikus (GMES) Framework.	SSSUP	1 month
JKI	Senior Scientist	Web site of ENDURE. Involvement of partners in discussions to enhance the website of ENDURE, with the ultimate goal of enlisting more end-users, particularly in Germany.	CIRAD	1,5 month
RRES	Post Doctoral Scientist	Integration of the results of the Meta-analyses of rotations from RA 2.6 with the results of the landscape analysis of RA 2.3 into current understanding.	INRA	1 month
RRES	Junior Scientist	Improving methodologies for the assessment and interpretation of herbicidal effects on grass-weed species. The two linked specific topic areas will be: 1. Herbicide resistance diagnostics in black-grass; 2. Antagonism of pesticide mixtures on control of black-grass.	AU	2 months
SZIE	Post Doctorate	Further elaborate the available GIS data in my research work. These data are on habitats (greenhouses and other land cover features), and arthropod	INRA	3 months





		abundance measured by different methods. The arthropods are pests (Frankliniella occidentalis, Thrips tabaci and beneficials (Orius, spiders).		
SZIE	PHD Student	Establishing the possibilities for estimating the effect of crop rotation history (short term) on a suite of plant and invertebrate target organisms.	RRES	4 months
SZIE	PHD Student	To study GPS data on the influence of the lanscape structure on pests abundance and diffusion.	RRES	2 month
SZIE	PHD Student	To study the different agricultural practices on the diversity of arbuscular mycorrhizal fungi.	CNR	3 months
SZIE	PHD Student	I would like to study methods of mechanical weed control, instruments of mechanical weed control and to make international scientific relations	SSSUP	1 month
PRI	Scientist	The visit will contribute to reinforced information exchange on weed population dynamics models on weed emergence, competition and fecundity as a cornerstone to better understand weed ecology.	AU	2 months
SSSUP	PhD Student	Training about functional biodiversity, weed seed predation especially by rodents, classification of some invertebrates for seed predation and modelling approaches regarding these topics.	UdL	3 months
IHAR	Senior scientist	Molecular analyses on Mycosphaerella graminicola isolates collected in experiments evaluating selection pressure on pathogen population	RRES	2 months
CNR	Post doctorate	Get familiar with DEXiPM software in order to analyse	INRA	1,25 months

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qualitative data determined by the MBCS (RA2.6b) for current maize based systems of participating	
regions/countries	





Annex III: Details of the mobility stages implemented during 2009

	Sending institute	Hosting Insitute	Duration (months)	Status	MM completed at December 28th 2009=M36
1	AGROS	IRTA	2	CANCELLED	
2	AGROS	IHAR	2	MOVED to 4th MP	
3	AGROS	RRES	1	ENDED	1
4	AGROS	UdL	1	CANCELLED	
5	AU	RRES	2	ENDED	2
6	AU	SZIE	1,5	ENDED	1,5
7	CNR	AGROS	4	MOVED to 4th MP	
8	CNR	Universidad de Cordoba	3	ENDED	3
9	CNR	RRES	1	ENDED	1
10	IHAR	WUR-PRI	3	ENDED	2,75
11	IHAR	JKI	1	ENDED	1
12	IHAR	AU	2,5	ENDED	2,25
13	IHAR	RRES	1,5	ENDED	1,5
14	INRA	AGROS	3	ENDED	3
15	INRA	RRES	1	CANCELLED	
16	INRA	SSSUP	1	CANCELLED	
17	INRA	WUR	3	report not approved	1
18	JKI	SSSUP	1	ENDED	1
19	JKI	CIRAD	1,5	ENDED	1,25
20	RRES	INRA	1	MOVED to 4th MP	
21	RRES	AU	2	ENDED	2
22	SZIE	INRA	3	ENDED	3
23	SZIE	RRES	4	MOVED to 4th MP	1,75
24	SZIE	RRES	1	MOVED to 4th MP	0
25	SZIE	CNR	3	ENDED	3
26	SZIE	SSSUP	1	ENDED	1
27	WUR-	AU	2	ENDED	1,25





	10 sending partners	13 Hosting partners	59,25		38,5
30	IHAR	exRRES_ AU	2	MOVED to 4th MP	0
29	CNR	INRA	1,25	ENDED	1,25
28	SSSUP	UdL	3	ENDED	3
	PRI				





Annex IV: 2nd Call for mobility involving scientists from ICPC countries

Grants for ICPC Scientists 2009

ENDURE CROP PROTECTION GRANTS FOR SCIENTISTS FROM INTERNATIONAL COOPERATION PARTNER COUNTRIES (ICPC) - YEAR 2009

Release date: mid-April 2009

Deadline for applications: July 1,2009 (call NOW CLOSED)
List of the selected applicants: at the bottom of this page

1. Introduction

ENDURE is a European Network that brings together more than 300 researchers in the fields of agronomy, biology, ecology, economics and the social sciences from ten European countries to progressively restructure crop protection research and development strategies. ENDURE actively encourages the participation of partners outside Europe in its activities, particularly in addressing crop protection problems relevant to agricultural products being exported to Europe and the potential movement of exotic pests across borders. Further information on the ENDURE project can be found in the relevant pages of the ENDURE website.

ENDURE is now launching an international call for applications for grants for **two** scientists from International Cooperation Partner Countries (ICPC) who wish to spend a **period of up to three months** working at one of the ENDURE research or university participant institutions.

2. Aim

Integration of research teams from ICPC target countries is a priority of the ENDURE network. The aim of ENDURE-ICPC grants is to foster an exchange of knowledge between ICPC target countries and ENDURE partners in order to promote sustainable crop protection research/techniques and share experience of complex tropical crop-pest systems which may be of benefit to European agriculture.

3. Beneficiaries

The grants will be awarded to two scientists with a research position relevant to crop protection issues in one of the ICPC countries who wish to spend a three-month period working at one of the ENDURE research institutes or universities. The list of ICPC countries can be found at: ftp://ftp.cordis.europa.eu/pub/fp7/docs/icpc-list.pdf

4. Conditions for application

The conditions for applications for ENDURE-INCO grants are:

- The grants must be entirely used in connection with the stay at the ENDURE host research or university institution
- The research work should contribute to ENDURE objectives (explicit reference to relevant ENDURE activities and sub-activities must be provided). <u>Click here</u> to view the list of ENDURE research activities and sub-activities.

Applicants must:

- Provide a short CV (maximum 2 pages) and a programme of planned research activities to be carried out at the ENDURE hosting institution
- Provide a letter of acceptance from the hosting institution, indicating the name and position of the supervisor





- Attach to his/her application a description of the expected benefits from the stay at the host institution
- Complete the application form (click below to download) and send it to Denise Barreiro by the deadline of **July 1 2009**:

ICPC Application Form [msword - 42.00 kB]

Missing information will result in the application being rejected.

5. Grants

The ENDURE grants will be allocated, following a joint evaluation procedure. The names of the successful candidates will be published on the ENDURE website by **July 20, 2009**. The successful applicants must confirm their acceptance of the grant by sending an e-mail to <u>Denise Barreiro</u> by **August 10, 2009**.

Eligible costs are:

- Travel: one return trip from the home institution to the ENDURE hosting institution (max. €1000)
- Accommodation and living expenses: according to ENDURE hosting institution rules; however, all costs should be documented

The **monthly allowance** will be adjusted according to the country of the ENDURE hosting institution but is likely to be about €2,000.

The following **contributions** to expenses for the hosting institution:

- €500 per month for clearly-defined laboratory or field work
- €250 per month for a desk job

Bench-fees are not applicable to ENDURE mobility and the contribution to expenses will be included in the ENDURE budget of the hosting institution.

Successful candidates will be notified immediately after the evaluation process.

Money will be transferred from the ENDURE hosting institution to the visiting researcher.

The hosting institution will withhold 20% of the grant until the IA3 leader has approved the final report.

6. Obligations

At the end of the visit, the grant holder must send his/her final report (click below to download) via e-mail to the assistant of the ENDURE mobility leader, <u>Denise Barreiro</u>, within 15 days of the end of his/her visit. This report will be published in the mobility web pages:

ICPC Final Report [msword - 45.00 kB]

The mobility periods must be completed by **June 30, 2010**.

7. Information

Information on ENDURE research activities and sub-activities is available on the website.

Requests for general information about this call should be sent to Denise Barreiro.

Requests for further information on and establishing contacts with specific ENDURE partners should be addressed directly to the relevant contact person for each institution for ENDURE mobility. The list is the following:

Name Institution Email address

Vincent TroillardINRAvincent.troillard@paris.inra.frElisabeth PradalINRA-Sophiaelisabeth.pradal@sophia.inra.fr





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Annex V: ICPC researchers granted from the 2nd ICPC call and present status of implementation of their mobility

Sending institute		Topic or mission description	0	Duration (months)	Status of activity
Ladoke Akintola Univ. of Techn., Ogbomoso - NIGERIA	Senior	Integrated control of soil-borne pathogens of onion using composts and Trichoderma species	IPP	3	ENDED
Ministry of Scientific Research - CAMEROON	Senior	Screening of essential oil from Thymus vulgaris for its fungicidal properties against Bipolaris sorokiniana the pathogen of black point disease of wheat	JKI	3	ONGOING
Bila Tserkva National Agrarian University- UKRAINE	Senior	Adaptation of LCA tool to farming practice for assessment of pesticide impact on biodiversity in the Ukraine	AGROS	3	to be started



