



ENDURE

European Network for Durable Exploitation of crop protection strategies

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Deliverable DS1.2

**Establishment of a communication network
addressing all ENDURE PhD students and
compilation of already existing or planned PhD
programmes**

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1. Glossary

1.1. Form

The form we refer to in this report is a simple MS Excel-based file (questionnaire) containing questions about PhD Programmes that we sent to Institutions across Europe in order to gather the necessary information needed to accomplish this SA1.2 deliverable. Here is the form that we used:

PhD Questionnaire
PhD course name
Year of establishment
Name of the organizing Institution
Names of partner institutions in the same country
Names of partner institutions abroad
Number of attending students per year
Duration of bursaries (years)
Thematic areas covered by the course
Is there an international scientific board?
Are foreign teachers present/allowed?
Are foreign students present/allowed?
What kind of goals PhD students must achieve to get the their degree?
Are you involved in cooperative projects with other EU partners?
Web address of your institution

2. Summary

The aims of this task were:

- (a) to build an inventory of European PhD courses/programmes related to themes of interest for ENDURE (in brief, crop protection);
- (b) to establish a network among PhD students working in ENDURE partners institutions.

The task (a) was first tackled by preparing a questionnaire and sending it around among ENDURE partners and selected European institutions. It was very difficult to gather information, due to (1) insufficient collaboration and (2) extreme fragmentation and heterogeneity of the European offer of PhD projects/programmes. Different solutions were tried to overcome these difficulties, as explained in the Methodology section. At the end of the search process, 186 Institutions offering PhDs in subjects potentially linked to ENDURE were spotted and contacted, but only 27 complete questionnaires were received from them (response rate: 14.5%). Detailed statistics about the results and the forms received are shown in the Result section and in the Appendix. General PhD programmes on Agriculture and Crop Protection represent 59% of the 27 total cases. The general outcome of this task is clearly that information (and access to that) on European PhD activities (both in general and on Crop Protection) is at present scant and badly organised. Part of the reason for this is that - unlike MSc - education at the PhD level is organised in diverse ways in different European countries (e.g. continuous Programmes vs occasional Projects): this makes retrieval of PhD projects and related students hard to accomplish. The inventory that we produced is probably far from being complete, but is nevertheless useful because it represents the first attempt to structure this piece of information in the field of Crop Protection and may serve as an aggregator for the PhD students involved.

To accomplish the task (b) we sent e-mails to all ENDURE partners asking for information about PhD students working in their institution on crop protection-related subjects. We then created a web page on the web site of the 1st ENDURE Summer School (<http://summerschools.endure-network.eu:8080/aesito/endure>) which is publicly accessible, where we put all the retrieved information. The next step will be to stimulate active participation in the network, e.g. by creating a wiki environment or other interactive platform on the ENDURE Collaborative Workspace.

3. Inventory of European PhD Programmes on Crop Protection

3.1. Objective

The first aim of this SA1.2 sub-activity was to build an inventory containing information about PhD courses/programmes held in European countries focussing on crop protection subjects. This inventory may represent baseline information to understand what is the *status quo* in this area of higher education and to improve collaboration among ENDURE partners in PhD-related activities (e.g. establishment of joint PhD supervision boards, interaction among PhD students). This inventory also aimed to highlight overlapping as well as neglected research topics carried out in European PhD research work on crop protection.

3.2. Methodology

To collect information about PhD courses/programmes we made an extensive use of the web, since we assumed that Internet is the best way for Higher Education Institutions to promote themselves and their PhD activities.

We first developed a simple form (questionnaire) that we sent to a vast number of Institutions to collect information about ongoing PhD courses/programmes. The form was structured in the simplest possible way so that it would require only few minutes to be filled in.

We chose two different pathways for collecting information about existing PhD courses: one for ENDURE partners and another one for Institutions not belonging to the ENDURE project.

For ENDURE partners we decided that the most straightforward way was to send the form via e-mail to the partner's contact person. The form was sent twice but despite this the rate of answers was still quite low.

Getting data from non-ENDURE Institutions was also hard mainly because it was difficult to access PhD-related information directly from easily accessible sources (e.g. web sites). As an example of the step-by-step procedure followed to retrieve information we illustrate the case of Italy:

Step 1: we investigated on the existence of a national PhD database but results were scarce due to lack or inaccessibility of information. For example, through personal contacts at the Ministry of University and Research (MiUR) we were informally told that such a database exists but is not accessible for unspecified "political reasons".

Step 2: by browsing the MiUR web site, we found that some public databases on PhD courses actually exist but information is too lumped for the scope of this task. For example, it is not possible to extract information on the coverage of Crop Protection-related subjects from existing PhD Programmes in Agricultural Sciences.

Step 3: we individually browsed the web sites of the 23 Faculties of Agriculture existing in Italian Universities looking for the best contact person to whom we sent the form. We received complete replies from 4 Universities [Napoli, Padova (2 PhD Programmes), Reggio Emilia and Pisa] out of the 18 we had written to.

We then started looking for PhD information in the other European countries. We wrote to foreign countries' Embassies in Italy, looking for people responsible for higher education programmes, but results were disappointing for the following reasons:

- Foreign Embassies websites are often outdated. For example, in the case of the Spanish Embassy in Italy, the web site is not even available because it is shadowed by another non-institutional travel agency web site and contact persons may not work there any more.
- Contacted persons in the Embassies were unable to provide us with direct information.

We then changed strategy and pointed towards information available on the Bologna Process, an activity that *"aims to **create a European Higher Education Area by 2010**, in which students can choose from a wide and transparent range of high quality courses and benefit from smooth recognition procedures. The Bologna Declaration of June 1999 has put in motion a series of reforms needed to make European Higher Education more compatible and comparable, more competitive and more attractive for Europeans and for students and scholars from other continents"* (excerpt from EU website:)

http://ec.europa.eu/education/policies/educ/bologna/bologna_en.html).

The promoter of this process, the University of Bologna (<http://www.unibologna.eu/www.unibo.it/Portale/Ateneo/Processo+di+Bologna/default.htm>), has built a web page on its website, reporting the web addresses of all EU Universities: we then browsed each website searching for Institutions (Faculties and single Departments) seemingly working on ENDURE-related topics. We found 186 Institutions 'of potential interest' to whom contact person we sent an e-mail asking to fill in our questionnaire. Despite (in this case too) the form was sent twice, the percentage of replies was low.

3.3. Results

Out of the 186 institutions contacted we were able to collect only 27 complete forms (response rate: 14.5%). The detailed data are shown in Table 1. For each country we have reported the number of Institutions that we found on the web and to whom we sent the electronic form, the number of the filled forms received, the number of Institutions that are not giving PhD or whose PhD courses are unrelated to ENDURE topics. The fifth column reports the number of times we were unable to send an e-mail to an Institutions, probably due to the fact that the information provided by their web site (e.g. e-mail address) were outdated or incorrect. The sixth column reports the number of Institutions from which we received no reply at all. The last column ("other") reports an only value for a University in Austria: in that case a PhD course exists but the research topic changes on a case-by-case basis, therefore we decided to keep this result aside from the rest of the data. In some cases we received more than one form from the same Institution due to the existence of more than one PhD programme: this is why the sum of columns 3 to 7 does not equal the total number of Institutions (column 2).

It is very important to stress the differences existing among European countries in organising PhD Programmes. For example, it is very difficult to create a database of existing PhD for the UK because in that country no permanent PhD Programmes

exist, unlike the situation of Italy and Hungary. In fact, many of the English Institutions we wrote could hardly understand what a "PhD course/programme" was because in the UK PhD projects are usually offered on an individual basis. In the UK, the only good reference that we found is a web site (<http://www.findaphd.com/>) listing advertising from English Universities and Research Institutes about available PhD scholarships.

The 27 PhD Programmes retrieved were then classified by subject (see Appendix for details): general programmes on Agriculture and Crop Protection represent 59% of the total cases (11 and 5 Programmes respectively).

Table 1: Results of the PhD survey sorted by European country. See text (first paragraph of section 3 - Results) for detailed explanation.

Country	Institutions contacted	Forms received	No/unrelated PhD	Mail not deliverable	No reply	Other
Austria	1					1
Belgium	9			7	2	
Cyprus	1				1	
Croatia	2	1			1	
Czech Republic	3	3				
Denmark	4	2	1		2	
Estonia	1				1	
Finland	2				2	
France	47	3	1	5	38	
Germany	18	2	7		10	
Greece	2	1			1	
The Netherlands	2	2				
Hungary	4	1		1	2	
Iceland	1				1	
Ireland	1				1	
Italy	18	5			14	
Macedonia	1				1	
Norway	1				1	
Poland	2	1			1	
Portugal	9		3		6	
Republic of Lithuania	2				2	
Romania	2				2	
Slovak Republic	1				1	
Spain	24	3	2	2	19	
Sweden	6		1		5	
Switzerland	3	2	1			
UK	19	1	5	1	13	
TOTAL	186	27	21	16	127	1

3.4. Perspectives

The forms that we have collected could be easily converted to a SQL database and be used as a basis for a web page to be created on the ENDURE web site: having such a reference page may help in attracting other Institutions and make them interested in giving us more information to expand this database. The list of 186 Institutions that we have created can be used for new enquiries that ENDURE partners might decide to make.

Due to lack of accessible information and to the high intrinsic dynamics of PhD projects, the inventory that we produced is probably far from being complete, but is nevertheless useful because it represents the first attempt to structure this piece of information in the field of Crop Protection. As such, the inventory may serve as an

aggregator for the PhD students involved, facilitated by the establishment of a pan-European PhD communication network [task (b) of SA1 in the first Joint Programme of Activities]. Potential for this aggregation exists, as proven by the fact that PhD students who participated in the 1st ENDURE Summer School (the other sub-task of SA1.2) spontaneously created a mini-network with the aim of ensuring continuous information exchange and interactions among them

Preliminary analysis of the list of topics covered by the PhD Programmes suggests that they seem far too general to allow an in-depth evaluation of overlaps and missing subjects. However, we will pass on this information to the other partners (omitting the name of the Institutions where these PhD Programmes take place, not to influence their judgement) and solicit their comments and suggestions. After this, we will summarise the results and explore the possibility to negotiate integration in the Programmes with the responsible institutions. This will be based on a prior analysis of the Bologna Process, needed to understand whether or not these changes can be realised according to a European legal framework.

4. Establishment of a communication network addressing all ENDURE PhD students

4.1. Objective

The second aim of this sub-activity was to establish a network amongst all the PhD students involved in the ENDURE project thus collecting information about PhD courses, projects and research activities in which ENDURE partners are presently involved.

4.2. Methodology

In order to collect the needed information, we sent an e-mail to all ENDURE partners asking for the list of PhD students working at their Institute on crop protection-related subjects. Specifically, we asked for name, surname and e-mail address of each student and the title of her/his research topic.

4.3. Results

We organised all the answers in a single list which is reported in Appendix 2. We retrieved 74 PhD students belonging to 18 different institutions. In some cases we were not given all the requested information, so there are some fields which are still empty. Sometimes this was a deliberate choice of the student's institution. For example, sending us e-mail addresses of their students was considered to violate their privacy rules.

We also included the 18 PhD students who attended the 1st ENDURE Summer School (Volterra, IT, 10-14 September 2007) because after attending the Summer School they have spontaneously created a small network to ensure continue exchange of information on the Summer School subject (Biodiversity supporting crop protection). Their complete list is at the moment reported on a web page on the 1st ENDURE Summer School web site (http://summerschools.endure-network.eu:8080/aesito/endure?&id_cms_doc=30).

4.4. Perspectives

The database built will be used to enhance communication among students: the provided information about PhD project and fields of interest will also be used to send information about scientific events (conferences, meetings, etc.) according to the real interest of the addressee, thus avoiding annoying mass e-mail sending.

Students will be invited to submit updated information about their project subject, bring forward ideas, discuss about research topics, scientific events and other issues related to their own field of interest and other ENDURE-related activities. These discussions will take place on the ENDURE Collaborative Workspace: being a Content Management System (CMS), this web site is the best way to make people communicate in a simple and effective way. This system give the users the chance to easily implement forums, upload documents and send emails to the participants in the group, and we will use all these opportunities:

1. *forums* will be created to let students discuss about topics of common interest, provided there is enough interest from them. We expect that, since signed-up people will be only those with real interest in the treated subjects, these forums will not suffer from the problems that usually afflict public forums, e.g. “trolls”, “fakes”, “flame wars”, etc. As such, there will not probably be the need of a moderator, hence the web-site could be more easily maintained.
2. students will be invited to upload documents which may be of interest for the whole “community” of involved students, such as presentations, posters, lists of references, etc.
3. e-mail communication will only be used when prompt reaction is needed (e.g. last call for attending a congress).

In practice, we will ask to the Collaborative Workspace manager to create an Activity Room dedicated to PhD students (including those that participated in the 1st ENDURE Summer School) where all these activities could take place. This Activity Room may also provide useful hints for harmonising and enriching European doctoral training in crop protection.

5. Appendix 1

In this appendix we report all the information gathered in the collected forms. The forms were completed by the following Institutions:

- Life, University of Copenhagen, DK (2 forms)
- University of Montpellier, FR
- Ghent University, BE
- Szent István University, HU
- University of Hohenheim, Faculty of Agricultural Sciences, DE
- Universitat de Lleida, ES (2 forms)
- Escuela Técnica Superior de Ingenieros Agrónomos, Universidad Politécnica de Madrid (UPM), ES
- Dipartimento di Scienze Agrarie - Università degli Studi di Modena e Reggio Emilia, IT
- University of Napoli "Federico II", IT
- University of Neuchâtel, CH
- University of Padova, IT (2 forms)
- University of Reading, UK
- University of Reims, FR
- University Rennes 1-University Angers, FR
- Mendel University of Agricultural and Forestry Brno - Faculty of Agronomy, CZ (3 forms)
- Faculty of Biology, University of Warsaw, PL
- J. J. Strossmayer University of Osijek, Faculty of Agriculture in Osijek, HR
- Institute of Environmental Sciences, Univ. of Zurich, CH
- The Graduate School Experimental Plant Sciences (EPS)- Wageningen, NL
- School of Agricultural Technology – Technological Educational Institute of Crete, GR
- PE&RC – Wageningen, NL
- Università degli Studi di Pisa & Scuola Superiore Sant'Anna, IT

Here we have grouped the 27 PhD Programmes by subject in decreasing order:

- | | |
|--|----|
| ● Crop protection (general) | 11 |
| ● Agricultural Sciences (general) | 5 |
| ● Ecology (Agroecology, Functional Ecology, Landscape Ecology) | 4 |
| ● Pesticide use/Ecotoxicology | 2 |
| ● Plant Pathology | 2 |
| ● Biotechnology | 1 |

- Entomology and Plant Pathology 1
- Organic farming 1

PhD course name	<i>Pesticide Use, Mode of Action and Ecotoxicology</i>
Year of establishment	2005
Name of the organizing Institution	Life, University of Copenhagen
Names of partner institutions in the same country	Various private companies and Fac. of Agricultural Science, University of Aarhus
Names of partner institutions abroad	None
Number of attending students per year	20
Duration of bursaries (years)	-
Thematic areas covered by the course	http://www.life.ku.dk/Units/Study/Kurser/250026.aspx
board?	no
Are foreign teachers present/allowed?	Yes
Are foreign students present/allowed?	Yes
What kind of goals PhD students must achieve to get the their degree?	prerequisite: chemistry physiology and statistics
with other EU partners?	No
Web address of your institution	http://www.life.ku.dk/Units/Study/Kurser/250026.aspx

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PhD course name	2002 <i>Research Methodologies in relation to Principles and Practice in Organic Farming</i>
	2003 <i>Values, Ideology, Science and Organic Farming</i>
	2004 <i>Is Organic Farming the Key to Sustainability?</i>
	2005 <i>Globalisation: Threat or Opportunity for Organic Farming?</i>
	2006 <i>Potential for Organic Farming to contribute to Rural Development in Europe</i>
	2007 <i>Scales and cross-scales in ecosystem services in agriculture and organic farming</i>
	2008 <i>Research Methodologies in relation to Principles and Practice of Organic Farming</i>
Year of establishment	2002
Name of the organizing Institution	Life, University of Copenhagen
Names of partner institutions in the same country	Danish Research Centre for Organic Food and Farming
Names of partner institutions abroad	Agr. University of Sweden, Helsinki University, University of Life Sciences, Norway
Number of attending students per year	20
Duration of bursaries (years)	3 years
PhD studies in Denmark are of 3 years duration	
Thematic areas covered by the course	Organic agriculture and food systems
Is there an international scientific board?	no
Are foreign teachers present/allowed?	Yes
Are foreign students present/allowed?	Yes
What kind of goals PhD students must achieve to get the their degree?	Courses are part of PhD studies. Courses should constitute 6 months workload, or 30 ECTS. Teaching activities of 70-280 hrs per year for 3 years Research project leading to publications / Thesis
Are you involved in cooperative projects with other EU partners?	No
Web address of your institution	http://www.life.ku.dk/Units/Study/Kurser/250

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PhD course name	<i>Dynamics of Natural and Cultivated Ecosystems</i>
Year of establishment	2003
Name of the organizing Institution	University of Montpellier
Names of partner institutions in the same country	-
Names of partner institutions abroad	-
Number of attending students per year	20
Duration of bursaries (years)	3
Thematic areas covered by the course	Functional ecology
Is there an international scientific board?	No
Are foreign teachers present/allowed?	Yes
Are foreign students present/allowed?	Yes
What kind of goals PhD students must achieve to get the their degree?	Research training
Are you involved in cooperative projects with other EU partners?	No
Web address of your institution	http://www.univ-montp2.fr/

PhD course name	<i>Doctoral School: (Bioscience) Engineering</i>
Year of establishment	2007
Name of the organizing Institution	Ghent University
Names of partner institutions in the same country	Hogeschool Gent, Artevelde Hogeschool, Hogeschool West-Vlaanderen
Names of partner institutions abroad	-
Number of attending students per year	ca. 150
Duration of bursaries (years)	4
Thematic areas covered by the course	Not known yet, normally people choose between master courses and some specialised PhD courses
Is there an international scientific board?	no
Are foreign teachers present/allowed?	Yes, not present but allowed
Are foreign students present/allowed?	Yes, present and allowed
What kind of goals PhD students must achieve to get the their degree?	Follow a PhD course of 60 study points ~ equal to 1 year full study Write at least 2 A1-reviewed papers published in scientific journals
Are you involved in cooperative projects with other EU partners?	Yes
Web address of your institution	http://www.labofyto.ugent.be/index.html

PhD course name	<i>Crop Sciences</i>
Year of establishment	2004
Name of the organizing Institution	Szent István University, Gödöllő
Names of partner institutions in the same country	Plant Protection Institute, HAS, Budapest
Names of partner institutions abroad	-
Number of attending students per year	-
Duration of bursaries (years)	3
Thematic areas covered by the course	Crop Production, Crop Protection, Genetics Breeding, Biotechnology
Is there an international scientific board?	no
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	
What kind of goals PhD students must achieve to get the their degree?	credits based opn courses, research
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	under updating

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PhD course name	<i>Agricultural Sciences</i>
Year of establishment	2005
Name of the organizing Institution	University of Hohenheim, Faculty of Agricultural Sciences
Names of partner institutions in the same country	University of Stuttgart, University of Tuebingen, University of Applied Sciences of Nuertingen and of Rottenburg
Names of partner institutions abroad	about 50 partner institutions
Number of attending students per year	about 30
Duration of bursaries (years)	3 years
Thematic areas covered by the course	Soil Sciences, Landscape Ecology, Crop Farming, Plant Nutrition, Quality Assurance in the Food Chain, Animal Husbandry, Animal and Plant Breeding, Biotechnology, Agricultural and Environmental Engineering, Farm Management, Agricultural Policy and Agricultural Markets, Social Sciences, Food Security and Natural Resource Management in the Tropics and Subtropics
Is there an international scientific board?	no
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get their degree?	seminars, 3 examinations, Ph.D.-thesis and defence of the thesis
Are you involved in cooperative projects with other EU partners?	yes

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PhD course name	<i>Agricultural and Food Science and Technology</i>
Year of establishment	2007
Name of the organizing Institution	Universitat de Lleida
Names of partner institutions in the same country	None
Names of partner institutions abroad	Alma Mater Studiorum-Università di Bologna, Università degli Studi di Milano, Università degli Studi di Torino, Università Cattolica del S. Cuore (Piacenza)
Number of attending students per year	40
Duration of bursaries (years)	4
Thematic areas covered by the course	Agrometeorology and environmentAgronomy and fruit productionPlant breeding and biotechnologyControl and ecology of agricultural pests and weeds (Integrated management of agricultural pests, Plant virology: characterization and epidemiology of viruses, Plant-microorganism-vector interactions, Weed research: biodiversity in agricultural systems, resistant biotypes and ecology of invading weeds)Animal productionFood analysis and qualityPostharvest technologyFood technologyHydraulic engineering, hydrology and rural environmentNew alternatives in agricultural production
Is there an international scientific board?	-
Are foreign teachers present/allowed?	Allowed
Are foreign students present/allowed?	Present
What kind of goals PhD students must achieve to get the their degree?	The students must have a 60 ECTS Master Degree, The students choose a specific topic to carry out his research. They must follow a 3-yr period of research and write a final Dissertation, which is revised by two external experts before its presentation.
Are you involved in cooperative projects with other EU partners?	Yes, several Italian universities
Web address of your institution	www.udl.cat

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PhD course name	<i>Multifunctional Management of Forest Areas</i>
Year of establishment	2007
Name of the organizing Institution	Universitat de Lleida
Names of partner institutions in the same country	None
Names of partner institutions abroad	Alma Mater Studiorum-Università di Bologna, Università degli Studi di Milano, Università degli Studi di Torino, Università Cattolica del S. Cuore (Piacenza)
Number of attending students per year	15
Duration of bursaries (years)	4
Thematic areas covered by the course	Landscape, Fauna, Botany, Environment, plant ecology and shepherding, Ecosystem functioning, Plant pathology (Plant virology: molecular characterization and biology of phytopathogenic viruses, Variability and recombination of cereal viruses, Forest pathology and micology, Geomicrobiology, Forest Health and Micology, Integrated management of forest pests), Uses and services demand by the society, Forest resources
Is there an international scientific board?	-
Are foreign teachers present/allowed?	Allowed
	Allowed
Are foreign students present/allowed?	Present
	Present
What kind of goals PhD students must achieve to get the their degree?	The students must have a 60 ECTS Master Degree, The students choose a specific topic to carry out his research. They must follow a 3-yr period of research and write a final Dissertation, which is revised by two external experts before its presentation.
Are you involved in cooperative projects with other EU partners?	Yes, several Italian universities
Web address of your institution	www.udl.cat

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PhD course name	<i>Producción, protección y Manejo sustentable del medio agrario</i>
Year of establishment	2004
Name of the organizing Institution	Escuela Técnica Superior de Ingenieros Agrónomos, Universidad Politécnica de Madrid (UPM)
Names of partner institutions in the same country	Universidad Jaume I (Castellón)
Names of partner institutions abroad	
Number of attending students per year	from 10 to 12
Duration of bursaries (years)	2 years course
Thematic areas covered by the course	<p>PROTECCIÓN CULTIVOS: control biológico, manejo integrado plagas vid, protección integrada y plaguicidas.</p> <p>BOTÁNICA: agroenergética y fitodepuración: plantas para un desarrollo sostenible; Restauración espacios degradados; Flora y manejo sostenible; Malherbología</p> <p>PRODUCCIÓN VEGETAL: evaluación indicadores locales en agua y riego; Caracterización ecofisiológica de cultivos anuales y perennes; modelos para análisis de sistemas agrarios; Manejo sostenible del agua</p>
Is there an international scientific board?	no
Are foreign teachers present/allowed?	present no, allowed yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get the their degree?	follow a 2-years course and pass an exam
Are you involved in cooperative projects with other EU partners?	<i>Erasmus mundus</i> for 2008: Portugal, Italy, Belgium, Spain
Web address of your institution	www.etsia.upm.es

PhD course name	<i>Scienze, Tecnologie e Biotecnologie Agro-Alimentari</i>
Year of establishment	2000
Name of the organizing Institution	Dipartimento di Scienze Agrarie
Names of partner institutions in the same country	Dipartimento di Scienze Biomediche Dipartimento di Chimica Dipartimento di Scienze Farmaceutiche Dipartimento di Ingegneria dei Materiali e dell'Ambiente
Names of partner institutions abroad	-
Number of attending students per year	12
Duration of bursaries (years)	3
Thematic areas covered by the course	Agrarian technologies and biotechnologies Food technologies and biotechnologies Food quality and Safety AGR/02, AGR/03, AGR/07, AGR/11, AGR/12, AGR/18, AGR/19, BIO/03, BIO/04, BIO/05, BIO/18, AGR/01, AGR/15, AGR/16, AGR/19, BIO/09, BIO/10, BIO/14, BIO/19, CHIM/01, CHIM/06, CHIM/10, CHIM/11, ING/IND 22, MED/42.
Is there an international scientific board?	no
Are foreign teachers present/allowed?	si
Are foreign students present/allowed?	si
What kind of goals PhD students must achieve to get the their degree?	
Are you involved in cooperative projects with other EU partners?	no
Web address of your institution	http://www.steba.unimore.it_(in costruzione)

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PhD course name	<i>Sciences and technologies of the agro-food productions</i>
Year of establishment	1995
Name of the organizing Institution	University of Naples "Fedrico II"
Names of partner institutions in the same country	<p>Centro Ricerche ENEA – Portici (NA); Centro Ricerche sui Molluschi – Università di Ferrara; CNR ISEC. Istituto per lo studio degli ecosistemi costieri - Lesina(FG); CONSdabi – Benevento; Consorzio Akerusia – Bacoli (NA); Consorzio Nazionale per la Gambericoltura – Cagliari; CRIM-Centro ricerche sui Molluschi- Università di Ferrara - Goro (FE) Dipartimento delle Scienze Biologiche, Università di Napoli; Dipartimento di Agrobiologia e agrochimica – Università Mediterranea di Reggio Calabria; Dipartimento di Agronomia ambientale e Produzioni vegetali – Università di Padova; Dipartimento di Biologia delle piante agrarie – Università di Pisa; Dipartimento di Colture arboree – Università di Palermo; Dipartimento di Ingegneria Chimica Alimentare – Università di Salerno; Dipartimento di Scienze zootecniche – Università di Sassari; ECOM - Azienda di Produzioni ittiche. Ischitella (CE); ENEA - Rotondella (MT); Facoltà di Farmacia, Università di Salerno; IRSVEM - Azienda di allevamento e depurazione molluschi - Bacoli (NA); ISA del CNR – Avellino; ISAFOM del CNR – Ercolano (NA);</p> <p>ISMAR del CNR – Lesina (FG); Istituto Agronomico Mediterraneo – Bari; Istituto Sperimentale Agronomico del MIPAF – Bari; Istituto Sperimentale per la frutticoltura del MIPAF – Roma, Sezione Caserta; Istituto Sperimentale per la nutrizione delle piante del MIPAF – Roma; Ittica off-shore Tirreno – Pozzuoli (NA); Panittica Pugliese - Azienda ittica di Torrecanne (BR); Stazione Zoologica "A. Dohrn", Napoli</p>
Names of partner institutions abroad	<p>Agrotechnology and Food Innovation B.V. – University of Wageningen (NL); Campden & Chorleywood Food Research Association (UK); Centre de Recherches sur les Macromolécules Végétales (F); CIG- Centro di Ingegneria Genetica de la Habana (C); Departamento de Aquicultura, Universidade Federal de Santa Catarina - Florianopolis (BR); Département de Science de l'aliment de l'ENSIA - Massy (F); Department of Agricultural Science dell'Universidade Federal do Piaui – Teresin (BR); Department of Food Science dell'Istituto de Agroquímica y Tecnología de Alimentos - Valencia (E); Department of Horticulture – Pennsylvania State University (USA); Department of Horticulture – Purdue University West La Fayette Indiana (USA); Department of Land, Air and Water Resources, University of California, Davis, (USA); Department of Water Resources, Wageningen University - Wageningen, (NE); European Space Agency; Faculdade Tecnica Cientifica de Salvador - Bahia (BR); Food Science Department della Cornell University (USA); IEO - Instituto Español de Oceanografía. Centro Oceanográfico de Murcia (E); Institute of Mass Spectrometry, University of Warwick - Coventry (UK);</p> <p>Istituto de Investigaciones Marinas (IIM) del CSIC - Vigo (E); Laboratorio de Biología Marinha, Instituto de Biologia, Universidade Federal de Bahia - Salvador (BR); Laboratorio de cultivo de moluscos marinhos. Universidade Federal de Santa Catarina (BR); Laboratory of Horticultural Science - Palmerstone (NZ); LCMM –Leiden University (NL); Swiss Federal Research Institute (CH); University of Aberdeen (UK); University of Haifa (IL); Washington State University (USA)</p>
Number of attending students per year	8
Duration of bursaries (years)	3
Thematic areas covered by the course	Food science and technology; Fruit and vegetable crop production; Aquaculture
Is there an international scientific board?	N
Are foreign teachers present/allowed?	N
Are foreign students present/allowed?	Y
What kind of goals PhD students must achieve to get the their degree?	<p>Formation corses I: 24 CFU - includes teaching and/or supporting courses offered by the Ph.D. School and students not having food science background are strongly encouraged to take food science courses;</p> <p>Formation courses II: 16 CFU - Food Science courses specifically offered by the Ph.D.;</p> <p>Research/thesis: 30 CFU at least to be spent abroad and 110 normally in the Department where Doctorate is based</p>
Are you involved in cooperative projects with other EU partners?	N
Web address of your institution	www.agraria.scudo.unina.it

PhD course name	<i>Plants and their Environment</i>
Year of establishment	2001
Name of the organizing Institution	University of Neuchâtel
Names of partner institutions in the same country	Univ. Bern, Univ.Fribourg, Univ. Lausanne, Univ. Geneva
Names of partner institutions abroad	none
Number of attending students per year	40
Duration of bursaries (years)	none, courses free, grants for congresses and mobility
Thematic areas covered by the course	scientific activities, research tools, communication
Is there an international scientific board?	none, courses free, grants for congresses
Are foreign teachers present/allowed?	yes (mainly for scientific workshops)
Are foreign students present/allowed?	yes (they must be registered for a PhD in a swiss university)
What kind of goals PhD students must achieve to get the their degree?	minimum 12 ECTS within the doctoral programme
Are you involved in cooperative projects with other EU partners?	no
Institution web address	http://www2.unine.ch/nccr

ENDURE – Deliverable DS1.2

PhD course name	<i>School of Crop Sciences - Section of Crop Protection</i>
Year of establishment	2000
Name of the organizing Institution	University of Padova
Names of partner institutions in the same country	-
Names of partner institutions abroad	-
Number of attending students per year	3-5
Duration of bursaries (years)	3
Thematic areas covered by the course	Major research topics of phytopathology in agriculture, forestry and urban areas. The approach is both fundamental and applied. Methods vary from molecular study to laboratory and field experiments.
Is there an international scientific board?	yes
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get the their degree?	Knowledge to address scientific questions in phytopathology and nature protection.
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	http://www.unipd.it/esterni/wwwdaapv/spv/index

PhD course name	<i>School of Crop Sciences - Section Crop Protection</i>
Year of establishment	2005
Name of the organizing Institution	University of Padova
Names of partner institutions in the same country	-
Names of partner institutions abroad	-
Number of attending students per year	6
Duration of bursaries (years)	3
Thematic areas covered by the course	Entomology and plant pathology
Is there an international scientific board?	Yes
Are foreign teachers present/allowed?	Yes
Are foreign students present/allowed?	Yes
What kind of goals PhD students must achieve to get the their degree?	At least one paper in ISI journal with first name
Are you involved in cooperative projects with other EU partners?	Yes
Web address of your institution	http://www.unipd.it/estemi/wwwdaapv/spv/index.html

PhD course name	<i>Alternative strategies to raise against pathogens in grapevine in a context of plant production and environment</i>
Year of establishment	2004
Name of the organizing Institution	University of Reims
Names of partner institutions in the same country	Centre Interprofessionnel des Vins de Champagne, Moët et Chandon
Names of partner institutions abroad	B Mauch Mani (Switzerland)
Number of attending students per year	15
Duration of bursaries (years)	3
Thematic areas covered by the course	plant biology and physiology (from cytology to plant molecular biology)
Is there an international scientific board?	under progress
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get the their degree?	understand the general topic of the PhD, being able to define and to perform properly experimental design according to the international standards of science, writing and submitting high standards manuscripts to interantional journals
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	http://www.univ-reims.fr/Labos/BPV/

PhD course name	<i>Integrative Plant Biology : Gene-Plant-Agrosystem (acronym BioViGPA) / Plant Pathology & Protection section</i>
Year of establishment	New project will start on September 2008
Name of the organizing Institution	University Rennes 1-University Angers
Names of partner institutions in the same country	University Poitiers, University Tours, University Brest, University Nantes, National Institute of Horticulture Angers, AgroCampus Rennes, INRA Research Centers of Nantes, Rennes, Angers, Lusignan
Names of partner institutions abroad	-
Number of attending students per year	15-20
Duration of bursaries (years)	-
Thematic areas covered by the course	Molecular interactions between plants and parasites / Biodiversity of pathogens / epidemiology
Is there an international scientific board?	No
Are foreign teachers present/allowed?	allowed : yes
Are foreign students present/allowed?	allowed: yes
What kind of goals PhD students must achieve to get their degree?	this course is dedicated to students in the second year of the Master degree ; to get their degree they must pass successfully the theoretical part and the practical part (5 month period in a research lab: oral and written presentations of their research work at the end of this period)
Are you involved in cooperative projects with other EU partners?	No
Web address of your institution	http://www.univ-angers.fr/

ENDURE – Deliverable DS1.2

PhD course name	<i>Ecotoxicology and Biogeochemical Cycles (held in English language)</i>
Year of establishment	2006
Name of the organizing Institution	Mendel University of Agricultural and Forestry Brno - Faculty of Agronomy
Names of partner institutions in the same country	Czech Academy of Science
Names of partner institutions abroad	
Number of attending students per year	in English 0 so far
Duration of bursaries (years)	3 years for students in present form (part-time form without any scholarship)
Thematic areas covered by the course	biochemical cycles, intoxication of plants, food chain
Is there an international scientific board?	no
Are foreign teachers present/allowed?	allowed
Are foreign students present/allowed?	allowed - not present so far
What kind of goals PhD students must achieve to get the their degree?	acomplish their research task in selected area of Agricultural Chemistry and pass 4 exams (one is foreign language)
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	www.af.mendelu.cz

ENDURE – Deliverable DS1.2

PhD course name	<i>Food Safety Control (held in English language)</i>
Year of establishment	2006
Name of the organizing Institution	Mendel University of Agricultural and Forestry Brno - Faculty of Agronomy
Names of partner institutions in the same country	Czech Academy of Science
Names of partner institutions abroad	
Number of attending students per year	in English 0 so far
Duration of bursaries (years)	3 years for students in present form (part-time form without any scholarship)
Thematic areas covered by the course	food chain, pollutants
Is there an international scientific board?	no
Are foreign teachers present/allowed?	allowed
Are foreign students present/allowed?	allowed - not present so far
What kind of goals PhD students must achieve to get the their degree?	acomplish their research task in selected area of Agricultural Chemistry and pass 4 exams (one is foreign language)
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	www.af.mendelu.cz

ENDURE – Deliverable DS1.2

PhD course name	<i>Herbology, Agricultural Phytopathology, Agricultural Entomology, Phytopharmacology (held in Czech language)</i>
Year of establishment	2002
Name of the organizing Institution	Mendel University of Agricultural and Forestry Brno - Faculty of Agronomy
Names of partner institutions in the same country	Czech Academy of Science
Names of partner institutions abroad	-
Number of attending students per year	3 per year in average
Duration of bursaries (years)	3 years for students in present form (part-time form without any scholarship)
Thematic areas covered by the course	all courses dealing with Plant Protection and Pests Management
Is there an international scientific board?	no
Are foreign teachers present/allowed?	allowed
Are foreign students present/allowed?	allowed - in case of studying in Czech
What kind of goals PhD students must achieve to get the their degree?	acomplish their research task in selected area of Plant Medicine and pass 4 exams (one is foreign language)
Are you involved in cooperative projects with other EU partners?	yes
Web address of your institution	www.af.mendelu.cz

PhD course name	<i>Postgraduate PhD study course "Plant Protection"</i>
Year of establishment	Since 1972, reprogrammed 1996 and 2005
Name of the organizing Institution	J. J. Strossmayer University of Osijek, Faculty of Agriculture in Osijek, Croatia
Names of partner institutions in the same country	University of Zagreb, Faculty of Agronomy
Names of partner institutions abroad	
Number of attending students per year	2 enrolled students in year 2005
Duration of bursaries (years)	3
Thematic areas covered by the course	Entomology, Acarology, Nematology, Phytopathology, Herbology, Stored Grain Products, Phytopharmacy, Microbiology, Phytocenology, Biometrics
Is there an international scientific board?	No
Are foreign teachers present/allowed?	Not present/ Allowed
Are foreign students present/allowed?	Not present/ Allowed
What kind of goals PhD students must achieve to get the their degree?	Gathering ECTS credits through compulsory and elective modules, scientific activities (active participation at scientific meetings, scientific projects, specializations abroad etc.), PhD dissertation
Are you involved in cooperative projects with other EU partners?	Members of councils of PhD study in Slovenia, University of Ljubljana, Faculty of Biotechnical Sciences
Web address of your institution	www.pfos.hr

ENDURE – Deliverable DS1.2

PhD course name	<i>Graduate Program Ecology</i>
Year of establishment	1999
Name of the organizing Institution	Institute of Environmental Sciences, Univ. of Zurich
Names of partner institutions in the same country	ETH Zurich
Names of partner institutions abroad	-----
Number of attending students per year	60 per year, about 15 finishing per year
Duration of bursaries (years)	3-4 years
Thematic areas covered by the course	ecology, statistics, generic skills
Is there an international scientific board?	no
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get the their degree?	12 credit points in addition to normal requirements
Are you involved in cooperative projects with other EU partners?	not at the moment
Web address of your institution	http://www.unizh.ch/uwinst/

ENDURE – Deliverable DS1.2

PhD course name	Various PhD training courses, including crop protection
Year of establishment	Courses will not be given year after year, but will be given every 2-3 years and course content will be readjusted by a new coordinator
Name of the organizing Institution	The Graduate School Experimental Plant Sciences (EPS)
Names of partner institutions in the same country	The Graduate School 'Experimental Plant Sciences' (EPS) is a collaborative research and teaching institution of Wageningen University (WU), Radboud University (RU), Vrije Universiteit Amsterdam (VU), Leiden University (LU), University of Amsterdam (UvA) and Utrecht University (UU). EPS has established informal ties with the research institute Plant Research International (PRI) of the Agricultural Research Department of the Netherlands (DLO), CBS-KNAW (Fungal Biodiversity Centre) and NIOO-KNAW (Centre for Terrestrial Ecology). These ties facilitate the coordination and integration of the research programmes of the various institutions, and broaden the scope of expertise and facilities for research and training of PhD students.
Names of partner institutions abroad	EPS has formal ties with SDV (École Doctorale "Sciences du Végétal du gène à l'écosystème"), Paris (France), International Max Planck Research School (IMPRS) of the Max Planck Institute for Chemical Ecology (Jena, Germany) and Max Planck Institute for Plant Breeding Research (Cologne, Germany), and EPS is a (founding) member of the European Plant Science Organisation (EPSO, www.epsoweb.org). The former EPS director Pierre de Wit is a member (treasurer) of the Board of EPSO. EPSO is an independent body that represents more than 50 leading Research Institutions from 23 European countries.
Number of attending students per year	200 PhD candidates
Duration of bursaries (years)	4 years
Thematic areas covered by the course	Various (see above)
Is there an international scientific board?	<p>The International Advisory Board guards the quality of EPS activities, in particular the research policy and programme, and the educational programme.</p> <p>By the end of 2005 the IAB consisted of:</p> <ul style="list-style-type: none"> • Prof.dr. J. (Joy) Bergelson, The University of Chicago, USA • Prof.dr. G.M. (George) Coupland, Max Planck Institut für Pflanzenzüchtung, Cologne, Germany • Prof.dr. M. (Michel) Dron, Institut de Biotechnologie des Plantes, Université Paris-Süd, France • Dr. C.P.M. (Cees) van Dun, Rijk Zwaan BV, the Netherlands • Dr.A. (Ann) Osbourn, Sainsbury Laboratory, John Innes Centre, Norwich, United Kingdom • Prof.dr. U. (Uwe) Sonnewald, University of Erlangen, Erlangen, Germany
Are foreign teachers present/allowed?	They are present
Are foreign students present/allowed?	They are present
What kind of goals PhD students must achieve to get the their degree?	EPS requires an individual Training and Supervision Plan (TSP) for every PhD student. In essence the plan is a guide of educational activities associated with the PhD work and contains an outline of planned educational activities. When the PhD graduate has fulfilled the TSP a Certificate of the Graduate School for Experimental Plant Sciences will be presented on request at the PhD's graduation. Confirm the Dutch Higher Education and Research Act statutory provisions have been laid down in the Doctoral Degree Regulations of the Dutch Universities. Besides these provisions the Doctoral Regulations cover issues such as, admission to the doctoral programmes of the University involved, matters relating to preparation for the doctoral examination, the tasks and authorities of those involved in the doctoral programmes and so on. authorities of those involved in the doctoral programmes and so on.
Are you involved in cooperative projects with other EU partners?	Yes, various research groups of EPS are involved in EU projects
Web address of your institution	http://www.graduateschool-eps.info

PhD course name	Officially no PhD courses are run through the Faculty organisation. But individual researchers and Professors can (if accepted by other Institutions to supervise their students.).
Year of establishment	-
Name of the organizing Institution	School of Agricultural Technology – Technological Educational Institute of Crete
Names of partner institutions in the same country	University of Crete, Department of Biology, Greece
Names of partner institutions abroad	University of Cranfield, UK
Number of attending students per year	N.A.
Duration of bursaries (years)	Not less than 3 yrs
Thematic areas covered by the course	Plant biotechnology
Is there an international scientific board?	under strict terms, no
Are foreign teachers present/allowed?	yes
Are foreign students present/allowed?	yes
What kind of goals PhD students must achieve to get the their degree?	Publish at least 3-4 refereed journal papers, present their work orally and in posters in conferences, give talks in the department, write up thesis, create patents,
Are you involved in cooperative projects with other EU partners?	Yes, there was a grant (thematic Network, 41 participating research groups from 9 EU countries) through FP6 funding, Now seeking for new projects under FP7

ENDURE – Deliverable DS1.2

PhD course name	there are several crop protection courses
Year of establishment	-
Name of the organizing Institution	PE&RC
Names of partner institutions in the same country	Crop and Weed Ecology research Group & Entomology Research Group
Names of partner institutions abroad	
Number of attending students per year	The number of participants varies between 20 and 50 (30-40% are foreign students)
Duration of bursaries (years)	-
Thematic areas covered by the course	crop protection (weeds and diseases, pest control/management)
Is there an international scientific board?	-
Are foreign teachers present/allowed?	Yes
Are foreign students present/allowed?	Yes
What kind of goals PhD students must achieve to get the their degree?	They must present, debate, elaborate on their own work or the work of others or they write a short project based on the information obtained in the course. Exams are not given and there is no means of evaluation of the participants as the quality of their input and participation is evaluated and scrutinized by the audience when they give presentations
Are you involved in cooperative projects with other EU partners?	PE&RC is involved in the FP6 Programme SEAMLESS and we are one of the MMe Curie Research Training sites
Web address of your institution	http://www.dpw.wageningen-ur.nl/peenrc/index.php

ENDURE – Deliverable DS1.2

PhD course name	<i>Research Doctorate in Science of Crop Production</i>
Year of establishment	2005-2006
Name of the organizing Institution	Università degli Studi di Pisa Scuola Superiore di Studi Universitari e di Perfezionamento Sant'Anna
Names of partner institutions in the same country	-
Names of partner institutions abroad	-
Number of attending students per year	8 with boursaries + 8 without boursary
Duration of bursaries (years)	3
Thematic areas covered by the course	Agronomy, Horticulture, Genetic, Entomology, Plant Pathology, Plant Physiology, Food science , Chemistry, Applied Botany
Is there an international scientific board?	no
Are foreign teachers present/allowed?	no/yes
Are foreign students present/allowed?	yes/yes
What kind of goals PhD students must achieve to get the their degree?	They must defense their PhD thesis in front of a 3-members committee
Are you involved in cooperative projects with other EU partners?	Yes
Web address of your institution	http://www.agr.unipi.it/dottoratospv/

6. Appendix 2

Here we report the complete lists of all PhD students involved in the network: in List 1 we report the students working at ENDURE partner Institutes, while in List 2 we report the students who attended the 1st ENDURE Summer School (Volterra, IT, 10-14 September 2007).

List 1: complete list of all PhD students working at ENDURE institutions in December 2007.

Institute	Name	e-mail address	Projects / Thesis
Szent István University (HU), Institute of Genetics and Biotechnology	Zsuzsanna Galbács	Galbacs.Zsuzsanna@mkk.szie.hu	Mapping downy and powdery mildew resistance genes in grape
	Stella Molnár	Molnar.Stella@mkk.szie.hu	Mapping downy and powdery mildew resistance genes in grape
	Kitti Andrea Lencsés	Lencses.Kitti@mkk.szie.hu	Mapping downy and powdery mildew resistance genes in grape
Szent István University (HU) – Godollo	Laszlo Nagy	nagy.laszlo@mkk.szie.hu	-
	Peter Miko	miko.peter@mkk.szie.hu	-
	Katalin Bencsik	bencsik.katalin@mkk.szie.hu	-
	Laszlo Bottlik	bottlik.laszlo@mkk.szie.hu	-
	Akos Tarnawa	tarnawa.akos@mkk.szie.hu	-
	Helga Klupacs	klupacs.helga@mkk.szie.hu	-
	Attila Stingli	stingli.attila@mkk.szie.hu	-

Diána Katula-Debreceni Debreceni.Diana@mkk.szie.hu Mapping downy and powdery mildew resistance genes in grape

Szilvia Szódi szodi.szilvia@mkk.szie.hu -

Korosi Katalin - -

Ban Gergely - -

Galbacs Zsuzsanna - -

Kohut Gabor - -

University of Aarhus (DK), The Faculty of Agricultural Sciences, Institute of Integrated Pest Management Mette Drude Kjær Markussen Mette.Markussen@agrsci.dk Rodenticide Resistance: Expression of Genes Related to Anticoagulant Rodenticide Resistance in Norway Rats

Libère Nkurunziza Inku@life.ku.dk C. arvensis and T. farfara source-sink dynamics under controlled conditions

Preben Klarskov Hansen Preben.k.hansen@agrsci.dk -

Thygesen Karin Karin.Thygesen@agrsci.dk -

Carlsen Sandra Sandra.Carlsen@agrsci.dk -

Hansen Peter Skottrup Peter.Hansen@mic.dtu.dk -

INRA Rennes - Rennes UMR 118 (FR) Blein Melisande melisande.blein@rennes.inra.fr Etude génétique et fonctionnelle de la résistance au piétin-verse chez le blé tendre au stade jeune plante

INRA Rennes-Avignon UR 1052 (FR)	Charron Carine	carine.charron@avignon.inra.fr	Caractérisation des mécanismes moléculaires sous-jacents aux résistances aux potyvirus contrôlées par les facteurs eIF4E
INRA Rennes-Angers UMR 1259 (FR)	Freslon Vanessa	-	Résistance durable du pommier à la tavelure : recherche de nouveaux gènes de résistance à large spectre – construction de génotypes à résistance durable
INRA Rennes–Avignon UR 1052 (FR)	Janzac Béranger	-	Risques de contournement et stratégies de gestion durables des résistances aux potyvirus chez le piment
INRA Rennes – Rennes UMR 118 (FR)	Jestin Christophe	-	Diversité génétique des facteurs de résistance quantitative du colza à <i>Leptosphaeria maculans</i>
INRA – SAD, UR 767 Unité d'Ecodéveloppement (FR)	Rejane Paratte	rparatte@avignon.inra.fr	-
INRA-PSH Avignon (FR)	Isabelle Grechi	grechi@avignon.inra.fr	-
	Benoît Ricci	Benoit.Ricci@avignon.inra.fr	-
	Maritza Reyes	reyes@avignon.inra.fr	-
	Marie Berling	Marie.Berling@ema.fr	-
	Hazem Deeb	-	-
I.N.R.A. - UMR 1210 Biologie et Gestion des Adventices, Dijon (FR)	Antoine Gardarin	Antoine.Gardarin@diijon.inra.fr	PhD on weed life traits and modelling of weed demography as affected by cropping systems

	Guillaume Fried	guillaume.fried@dijon.inra.fr	PhD on weed communities and weed distribution at various spatial scales (from the national territory to the small landscape level)
	Helmut Maiss	helmut.meiss@dijon.inra.fr	PhD on the effects of temporary grasslands on weed communities. Might be related with ENDURE RA1-IWM, although currently not directly involved in the activities of the group
INRA of Bordeaux, Plant Health Unit (FR)	David Lafarge	dlafarge@bordeaux.inra.fr	-
INRA (FR)	Olivier Klarzynski	-	-
INRA - Agrocampus Rennes	Natacha Motisi	natacha.motisi@rennes.inra.fr	-
	Renaud Travadon	renaud.travadon@rennes.inra.fr	-
INRA - Centre d'Angers	Vanessa Freslon	vanessa.freslon@angers.inra.fr	-
	Amandine Le Van	-	-
INRA- ENSA Montpellier	Danan Sarah	sarah.danan@avignon.inra.fr	-
INRA- University of Bourgogne	Jacquemin Bertrand	bertrand.jacquemin@dijon.inra.fr	-
INRA-Institute of Political Studies	Giovanni Prete		
CIRAD	Pierre Lefeuvre	lefeuvre@cirad.fr	Invading and emerging pests
	Dalmon Anne	Dalmon@avignon.inra.fr	

Universitat de Lleida	Solé Joan	-	
	Varela Nelia	nelia.varela@irta.cat	
	Moreno Rafael	-	
	Arregui Miguel	-	
Federal Biological Research Centre for Agriculture and Forestry (BBA) – Kleinmachnow (DE)	Deike, Stephan	-	-
	Mohamed Agha, Jehad	j.mohamed.agh@bba.de	
	Günther, Astrid	a.guenther@bba.de	
	Moustafa Hemadan Ahmed Moharam	moharam@hotmail.com	Biological control of covered kernel smut disease of sorghum caused by <i>Sporisorium sorghi</i>
Institute for Biological Control of the Federal Biological Research Centre for Agriculture and Forestry (BBA) (DE)	Andrea Nowak	a.nowak@bba.de	Strategy combinations for control of downy mildew in protected cucumber
	Dorra ben Hamadou	dbhamadou@yahoo.fr	Development of a new regulation strategy of <i>Agrotis segetum</i> and <i>A. ipsilon</i> with the entomopathogenic bacterium <i>Bacillus thuringiensis</i> .
	Stephan Deike	s.deike@bba.de	
	BBA - Biological Research Centre for Agriculture and Forestry - Institute for Weed Research (DE)	Lars Bangemann	L.Bangemann@bba.de

Tim [T.Baumgarten](mailto:T.Baumgarten@bba.de) -
Baumgarten [@bba.de](mailto:T.Baumgarten@bba.de)

Nicole [N.Burgdorf@bba](mailto:N.Burgdorf@bba.de) -
Burgdorf [a.de](mailto:N.Burgdorf@bba.de)

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Busche [de](mailto:S.Busche@bba.de)

Bärbel Heise [B.Heise@bba.d](mailto:B.Heise@bba.de) -
[e](mailto:B.Heise@bba.de)

Alexander [A.Kluge@bba.d](mailto:A.Kluge@bba.de) -
Kluge [e](mailto:A.Kluge@bba.de)

Andreas [A.Mueller@bba](mailto:A.Mueller@bba.de) -
Müller [de](mailto:A.Mueller@bba.de)

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Stephan [e](mailto:S.Deike@bba.de)

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	Aleksandra r.poznan.pl	

Eidgenössisches Volkswirtschaftsdepartement EVD - Forschungsanstalt Agroscope Reckenholz-Tänikon ART (CH)	Jose Hernandez	jose.hernandez@art.admin.ch	Analysis of economic driving forces in crop protection strategies
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Rothamsted Research (UK)	Lyons Rebecca	rebecca.lyons@bbsrc.ac.uk	Resistance to soil-borne cereal mosaic virus and the related soil-borne wheat mosaic virus in bread wheat
	Smith Madeleine	madeleine.smith@bbsrc.ac.uk	Biology and molecular biology of <i>Polymyxa graminis</i> and its interactions with plants and

viruses

Alarcon-Reverte Rocio	-	Understanding and combating the threat posed by rye-grass (<i>Lolium multiflorum</i>) as a weed of arable crops
Deller Sian	-	Investigation of fungal genes involved in wheat infection by <i>Mycosphaerella graminicola</i>
Hood John	-	Interactions between canker pathogens in oilseed rape examined using molecular reporters
Khot Anna	anna.khot@bbsrc.ac.uk	Use of 'temporal synergism' to increase efficacy of pyrethrum against public-health pests
Lee Sarah	sarah.lee@bbsrc.ac.uk	Identification of novel sources of resistance to <i>Fusarium culmorum</i> in hexaploid wheat genotypes
Mitchinson Samantha	-	New cyst nematode threats to cereals in the UK
Stonard Jenna	jenna.stonard@bbsrc.ac.uk	Effects of geographical location on phoma stem canker severity and yield of oilseed rape crops in the UK
Webster Ben	ben.webster@bbsrc.ac.uk	Host location mechanisms in herbivorous insects
Aradottir Gudbjorg	-	Are aphids a threat to energy supply? Their interaction with biomass willows.
Beacham Andrew	-	<i>Fusarium culmorum</i> and <i>F. graminearum</i> pathogenicity on wheat ears

Boys Emily	emily.boys@bbsrc.ac.uk	Understanding resistance to light leaf spot to limit resistance breakdown and sustain oilseed rape gross margins
Jones Christopher	-	Evolution and dynamics of insecticide resistance in biotypes of the whitefly, <i>Bemisia tabaci</i>
Philippou Despina	Despina.Philippou@bbsrc.ac.uk	Studies on the prolonged use of PBO against pest and beneficial insects
Brown Neil	-	A comparison of the infection biology and transcriptome of wild-type and single gene deletion strains of the wheat fungal pathogen <i>Fusarium graminearum</i>
Hawkins Nichola	-	'Recent evolution of <i>Rhynchosporium secalis</i> populations in response to selection by fungicides'
Powell Adam	-	Trade-offs between predation and scavenging in generalist predators
Wells Patricia	-	Is the invasive ladybird, <i>Harmonia axyridis</i> , a threat to native natural enemy communities and the ecosystem services they provide?
Tim Bean	tim.bean@bbsrc.ac.uk	

Wageningen University and Research Centre - Plant Research International- Agrosystems (NL)

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Tanja Speek Tanja.speek@wur.nl -

Marleen Riemens Marleen.riemens@wur.nl -

Trifonia Radi-

Skelskey Peter -

CNR (IT)	La Rocca Gianni	-	-
	Collavo Alberto	alberto.collavo@ibaf.cnr.it	Environmental Agronomy
	Nava Lorenzo	lorenzo.nava@unipd.it	Environmental Agronomy
Agroscope Swiss Federal Research (CH)	Sanvido Olivier	olivier.sanvido@fal.admin.ch	
	Meissle Michael	Michael.Meissle@art.admin.ch	
	Li Yun He		
SSSUP (IT)	Bigongiali Federica	f.bigongiali@sssup.it	Weed control in organic farming
	Daisog Hideliza	h.daisog@sssup.it	Arbuscular mycorrhizal fungi-weed interactions
	Fontanelli Marco	m.fontanelli@agr.unipi.it	Mechanical weed control
	Pistocchi Chiara	c.pistocchi@sssup.it	Water quality assesment in agro-ecosystems

*List 2: 1st ENDURE Summer School students (names marked with * belong to Institutes participating in the ENDURE project)*

Institute	Name	e-mail	Topics
Szent Istvan University (SZIE), Inst. of Plant Protection	Andrea Veres*	veresandrea@yahoo.com	GIS, landscape metrics, Western Flower Trips, Orius
Georg-August-University Göttingen – Faculty of Agricultural Science – Research Centre for Agriculture and Environment	Lena Ulber	lenaulber@hotmail.com	Management of weed species diversity in cropping systems
School of Environmental Sciences and Development, North-West University – Potchefstroom Campus	Annemie Van Wyk	Annemie.vanWyk@nwu.ac.za	Effects of Bt maize on non-target lepidoptera
Research Institute CIBIO – University of Alicante	Ana Pineda	anapineda@gmx.net	Syrphids for biological control
University of Barcelona, Faculty of Biology- Dept. of Animal Biology	Berta Caballero	bertacaballero@ub.edu	Weed and arthropod interactions in arable fields
Dept. Hortofructicultura, Bòtanica i Jardineria, University of Lleida	Bàrbara Baraibar*	baraibar@hbj.udl.es	Weed seed predation

Szent Istvan University (SZIE), Inst. of Plant Protection	Nora Levay*	noralevay@spike.fa.gau.hu	Experimental entomology and ecological modelling
UMR d'Agronomie, INRA-AgroParisTech	Elise Lô- Pelzer*	elise.pelzer@grignon.inra.fr	Disease management and IPM strategies
Teagasc Oak Park Crops Research Centre	Paul Fabre	paul.fabre@teagasc.ie	Cereal cultivation mixture – competition
Charles Sturt University	David Perovic	dperovic@csu.edu.au	Landscape ecology of cotton natural enemies
University of Illinois, Dept. of Natural Resources and Environmental Sciences	Abram Bicksler	bicksler@uiuc.edu	Weed science, cover cropping and international development
BioLabs – Scuola Superiore Sant'Anna	Luigi Boccaccio*	boccaccio@sssup.it	Entomology and landscape ecology
The Game Conservancy Trust – Farmland Ecology Unit	Heather Oaten	hoaten@gct.org.uk	Agricultural entomology, aphid predators, GIS
Land Lab – Scuola Superiore Sant'Anna	Souzi Rouphael*	s.rouphael@sssup.it	Disturbance effect of functional biodiversity in different agroecosystems
Environmental Helath Division – International Centre of Insect Physiology and Ecology (ICPE)	Duna Madu Mailafiya	dmailafiya@icipe.org	Functional diversity and parasitoids

Plant Breeding and
Acclimatisation Institute
(IHAR)

Malgorzata
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Molecular characteristics of
CMS
