

ECPGR Activity Grant Scheme Proposal Form Third Call

Activity Proposal

Activity	
Full title	Identification and updating data of eligible AEGIS accessions in both wheat and rye species
Acronym (or short title)	TRIticum and SECaIe in Aegis = TRISECA
Duration of Activity (in months)	16 months
Starting date	1 st September 2016

Applying Working Group(s)

Working Group	Indicate name and surname of Working Group Chair
1. Wheat	François BALFOURIER
2.	
3.	
4.	

Activity Coordinator

Activity Coordinator	
Name and Surname	François BALFOURIER
Nationality	French
Current position	Senior Scientist
Institute	INRA – Clermont-Ferrand
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Activity Partners

Please note that each partner needs to be a member of a Working Group's Pool of Experts to be eligible.

A maximum of 12 funded partners can be listed. For self-funded partners please use the separate box below.

Partner ID No.	Name and Surname	Institute	Country
1	Emmanuelle Escarnot	CRA-W (Centre wallon de Recherches Agronomiques)	Belgium
2	Gergana Desheva	Inst. Plant. Genet. Res. -Sadovo	Bulgaria
3	Ludmila Papouskova	Crop Research Inst. - Praha	Czech Republic
4	Michaela Kadlikova	Agriculture Research Institute Kromeriz	Czech Republic
5	François Balfourier	Inst. National Recherche Agro.	France
6	Agata Rascio	CREA-CER	Italy
7	Agnese Gailite	Latvian State Forest Res. Institute	Latvia
8	Vytautas Ruzgas	Institute of Agriculture, Lithuanian Research Centre for Agriculture and Forestry	Lithuania
9	Zoran Jovovic	University of Montenegro Biotechnical Faculty Mihaila Latica	Montenegro
10	Sylvia Strajeru	Suceava Genebank	Romania
11	Pavol Hauptvogel	National Agricultural and Food Centre - Research Institute of Plant Production	Slovak Republic

Self-funded partners

Partner No.	Name and Surname	Institute	Country
1	Jiri Hermuth	Crop Research Inst. - Praha	Czech Republic
2	Marcin Zaczynski	Plant Breed. and Acclima Inst.	Poland

Description of Activity

Please address the following aspects:

Background: Explain the context behind the choice of this Activity, e.g. why this has been prioritized or selected. If this is the continuation of a preceding Activity, please indicate how and why the new Activity will build on previous results/experiences

Justification: Explain why this Activity is justified in terms of making progress towards achieving the ECPGR objectives

– **Methodology or Approach:** Explain how the partners will operate. What are the respective roles and synergies they can add? Explain the rationale of meeting (or not) as part of the Activity.

– **Expected impact.** Clearly specify the expected impact from this Activity for the respective ECPGR

objective(s), compared to the current state of progress of those same objectives. Explain how the impact will be obtained.

Links with other non-ECPGR projects or individuals: If applicable, clearly explain the objectives of the linked projects and the reasons for complementarity with the ECPGR Activity.

Background:

Wheat Working Group is not only involved in wheat but also in rye genetic resources, as both species can be crossed together to produce triticale. At the end of March 2016, thanks to previous activities of WWG (mainly the TRAIT activity in 2015), a total of 6621 accessions of *Triticum* sp. were flagged as AEGIS accessions in EURISCO; from these 6621 accessions, there was a majority of hexaploid species (4107 *T.aestivum* and 2258 *T.spelta*) but only few tetraploid and diploid species (for instance, only 151 *T.durum* and 58 *T.turgidum*). In the same time, only 142 *Secale* accessions (106 from Nordic countries and 36 from Czech Republic) were flagged as AEGIS accessions.

In the proposed new activity, ECPGR members from 11 different countries plan to carry on AEGIS initiative, by building a more representative European collection of both wheat and rye species. For *Triticum*, the effort will be mainly focused on tetraploid species which are also very important species, in terms of diversity, for durum wheat improvement. All selected accessions, which are not yet well documented in terms of C&E data, will be sown in field for evaluation.

Methodology and approach:

The work plan of this activity will be the same as in previous TRAIT activity, on a period of 16 months, for September 2016 to January 2018.

- 1) Identification of eligible accessions to be proposed as AEGIS accession according to the revised sampling procedure
- 2) Updating of both passport and Characterization & Evaluation data, according to the Multi Crop Passport Descriptor v2 list and the C&E descriptors used in appropriate databases.
- 3) A common 2-3 days meeting to check and approve proper documentation, then to discuss about rules of management of these accessions in accordance with the principle of AEGIS.
- 4) A final interaction with NFS in order to flag AEGIS accessions in EURISCO.

For wheat species, the identification of eligible accessions will be realized by choosing accessions within the list of European wheat Data Base (EWDB) accessions provided by Ludmila Papouskova, the EWDB manager (<http://genbank.vurv.cz/ewdb/>). In the same way the identification for rye species will be realized with the help of Marcin Zaczynski, manager of the Central Crop Database for *Secale* (<http://secale.ihar.edu.pl>). This database and Eurisco database will be useful tools for editing lists of eligible rye accessions per country members.

After identification of proper eligible accessions in September 2016, each partner will have to sow the part of his own accessions which need to be updated for C&E descriptors. The sowing will be realized in autumn 2016 or in spring 2017 according to the type of development of the accessions. The updating of both passport data and C&E data will be realized by each participant under the supervision of François Balfourier, Chair of the WWG in Spring 2017.

A common 2-3 days meeting will be organized in Poland in Autumn 2017 with all participants, during which the datasets of all selected accessions will be presented, definitely checked and approved by concerned WWG members. The management of these accessions in accordance with the principles of AEGIS will also be discussed.

Then, each participant to this activity will have to provide their National Coordinator with the list of recommended accessions for consideration and formal inclusion in the European Collection. Finally, the EURISCO National Inventory Focal Point, under instructions from the National Coordinator, will have to officially include the accessions into the European Collection by flagging them in EURISCO database (Winter 2017)

Expected impacts:

The expected impacts of this activity are:

1) the increase of the number of accessions in AEGIS collection and 2) the increase in quality and quantity of data in Eurisco for wheat and rye species. Indeed, according to Expression of Interest sent by the different partners of this activity, we can expect to add about 1000-1500 new accessions in AEGIS collection, and consequently to increase data in Eurisco for a similar number.

Expected products and related ECPGR Objectives

List concrete products and results that are obtained by the Activity and the corresponding number(s) of the ECPGR Outcome(s) and/or Output(s) and/or Activities to which each product/result will contribute.

	Expected products/results	Corresponding ECPGR outcome, output, activity
1	Increasing the number of AEGIS Triticum sp.accessions	Outcome 1: AEGIS is operational. Outcome 1.2: AEGIS collection establishment
2	Increasing the number of AEGIS Secale sp.accessions	Outcome 1: AEGIS is operational. Outcome 1.2: AEGIS collection establishment
3	Increasing quality and quantity of data in EURISCO for wheat and rye species	Outcome 2: Quantity and quality of data in EURISCO have been increased Outcome 2.1: All National Focal Points (NFPs) update national inventories

Workplan for the proposed period of the Activity

Brief description of meetings and/or main actions of the Activity.

Type of Action <i>(indicate if "meeting" or "other action")</i>
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1	Identification of eligible accessions to be proposed as AEGIS accession according to the revised sampling procedure (“other action”)
2	Updating of both passport and Characterisation & evaluation data , according to the Multi Crop Passport Descripto v2 list and the C&E descriptors used in appropriate databases (“other action”)
3	A common 2-3 days meeting to check and approve proper documentation, then to discuss about rules of management of these accessions in accordance with the principle of AEGIS.(“meeting”)
4	A final interaction with NFS in order to flag AEGIS accessions in EURISCO (“other action”)

Additional remarks

Indicate any additional remark(s) that is/are important for the evaluation/implementation of the proposed Activity

Remarks:
The meeting will be organised by Marcin Zaczynski, manager of the Central Crop Database for Secale, in Poland in autumn 2017. Plant Breeding and Acclimatization Institute (IHAR) can offer free meeting room and accommodation facilities are available at institute or up to 7km away. Meeting place will be Radzików near Błonie. (Address: Plant Breeding and Acclimatization Institute, Radzików, 05-870 Błonie.)

Please send the completed form together with the budget table to the Chair of the submitting Working Group for submission of the Activity proposal.