



**COST Action FP1202: Strengthening conservation: a key issue for adaptation of marginal/ peripheral populations of forest trees to climate change in Europe (MaP-FGR)**



## **TRAINING SCHOOL 2015**

### **Forest genetic resources of marginal populations of forest trees at high elevation edge**

**31 August 2015 - 4 September 2015**

**Co-organized with the Alpine Study Centre (University of Tuscany, Italy)**

**Venue: Alpine Study Centre, Pieve Tesino (Italy)**

**Deadline for submission is July 22, 2015**

#### **Map FGR COST Action**

MaP FGR COST Action aims to bring together experts in forest genetic resources (FGR) to collect knowledge on FGR in Marginal and Peripheral (MaP) populations throughout Europe. The effects of climate change are likely to be stronger and more rapid in MaP populations than elsewhere. MaP forest populations are at the edges of species ranges where conditions are less suitable for survival. Studying adaptive processes in these populations is crucial and of mutual interest for European and neighboring countries for understanding the evolution of species, developing gene pool (FGR) conservation and management strategies and networks to cope with global changes. These populations are not only threatened by modern climate changes but also by other disturbances arising from human pressures and they may prove invaluable for adapting the European forestry sector. For more information on the COST Action FP1202 MaP-FGR see the dedicated website on <http://map-fgr.entecra.it/>.

Training Schools within the framework of the Action topic are aimed at:

- Widening the knowledge on key priorities of the COST Action
- Providing intensive training on new and emerging issues
- Offering familiarization with unique know how in one partner country of the COST Action.

Training Schools are not intended to provide general training or education. Those attending a Training School are typically – but not exclusively – young researchers from across Europe and neighboring partners interested by the key topics developed in this COST Action FP 1202 MaP-FGR.

COST support the participation of both trainers (including external experts) and trainees selected for the TS on the basis of the relevance of their requests.

**2015 Training School (TS) on  
“Forest genetic resources of marginal and peripheral populations of forest trees  
at high elevation edge”**

This first 2015 Training School of Cost Action FP1202 MaP-FGR is especially focused on forest genetic resources of marginal and peripheral populations of forest trees at high elevation edge and on how they are evolving and adapting to the effects of current isotherm shift.

Lectures will focus on case studies on forest species at high elevation edge, presenting methodology and results obtained by researchers working in research institutions participating in the Cost Action FP1202 MaP-FGR and invited experts.

The training school aims to provide intensive training on the adaptation and evolution of MaP populations of forest trees at high elevation edge of species distribution, at widening the knowledge of the Action activities and sharing expertise between trainers and trainees.

Main topics of the 2015 Training School will be:

- Marginality concepts from climatic, genetic and adaptation point of view
- Dynamics of Alpine forest communities in the context of climate change
- Silviculture and anthropogenic impacts on the Alpine stands
- Adaptation mechanisms:
  - ✓ Genomics of adaptive traits;
  - ✓ Stable isotopes: theoretical bases and applications (plant adaptation in contrasting environments)
- Forest reproductive materials in the context of shifting climatic zones and use of field tests;
- Presentation of the trainees own researches on MaP populations and forest genetic resources.

A field trip will be organized during the week.

### **Application and approval**

The training school is mainly intended for master students, PhD students and Early Stage Researchers.

To apply, send by email:

- ✓ *curriculum vitae*
- ✓ full address
- ✓ motivation letter (which includes current position, research interests and publications)

to **Valentina Garavaglia** ([valentina.garavaglia@fao.org](mailto:valentina.garavaglia@fao.org)) and **Nicolas Picard** ([nicolas.picard@fao.org](mailto:nicolas.picard@fao.org)).  
Email subject line: “**2015 Training School Cost FP1202 MaP FGR**”.

### **Selected trainees**

Selected trainees will receive information about detailed schedule, trainers, registration and presentation of their own research (including details about abstract and presentation form).

## Financial support to trainees

The financial support is an individual grant for each trainee. It should normally cover only travel and subsistence. For more information please refer to the [Vademecum](#) of Cost Actions. **The exact amount will be decided based on the number of participants.**

Trainees eligible for reimbursement:

1. Trainees from COST countries;
2. Trainees from approved NNC institutions;
3. Trainees from approved European RTD Organisations.

Trainees not eligible for reimbursement:

1. Trainees from approved IPC institutions;
2. Trainees from approved International Organisations and European Commission;
3. Any other trainees not specifically mentioned as being eligible.

## Location and accommodation

The training School will be hosted by the **Alpine Study Centre** (University of Tuscia, Italy) (<http://www.centrostudialpino.unitus.it/>), Via Rovigo 7, 38050 Pieve Tesino (Trento, Italy). The location is 52 km from Trento and 107 km from, Padua.

## Deadlines

All applications must be submitted by email to Valentina Garavaglia ([valentina.garavaglia@fao.org](mailto:valentina.garavaglia@fao.org)) and Nicolas Picard ([nicolas.picard@fao.org](mailto:nicolas.picard@fao.org)), by **July 22, 2015**. Applicants will be informed about the application result by **July 29, 2015**.

*Whilst every effort is made to avoid changes to our programme, the Cost Action FP1202 MaP FGR reserves the right to cancel the training school in case of low enrollment. In this case the communication about the cancellation will be provided communication via e-mail and on the dedicated webpage.*

**Provisional Agenda - 2015 TRAINING SCHOOL Cost Action FP1202 Map FGR  
Forest genetic resources of marginal populations of forest trees at high elevation edge**

	DAY ONE	DAY TWO	DAY THREE	DAY FOUR	DAY FIVE
	Monday (August 31, 2015)	Tuesday (September 1, 2015)	Wednesday (September 2, 2015)	Thursday (September 3, 2015)	Friday (September 4, 2015)
9.30-10.30	Welcome Introduction to the TS Roundtable presentation of trainers/trainees	<b>9.00-10.30</b> Genetics of MaP at the leading and rear and at high elevation edge (continuation)	<b>9.00-10.30</b> Marginality concepts from climatic and geographic point of view. MaPs distribution modelling	<i>Field trip Lunch</i>	Adaptation mechanisms (continuation)
10.30-11.00	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>		<i>Coffee break</i>
11.00-13.00	Forest population genetics and introduction to MaP populations	Dynamics of forest Alpine communities in the context of climate change	Marginality concepts from climatic and geographic point of view. MaPs distribution modelling (continuation)		Stable isotopes - theoretical basis and applications
13.00-14.30	<i>Lunch</i>	<i>Lunch</i>	<i>Lunch</i>		<i>Lunch</i>
14.30-16.30	Genetics of MaP at the leading and rear and at high elevation edge	Sylviculture and anthropogenic impact on the Alpine stands	Forest reproductive material in the context of shifting climatic zones		Adaptation mechanisms
16.30-17.00	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>
17.00-18.00	Trainee's presentation (10' each)	Trainee's presentation (10' each)	Trainee's presentation (10' each) Open discussion	Open discussions	Open discussion/ Evaluation by trainees Closing