



Biosafety of forest transgenic trees

improving the scientific basis for safe tree development and implementation of EU policy directives

First Meeting of the Management Committee of COST ACTION FP0905

**Biosafety of transgenic trees: improving the
scientific basis for safe tree development and
implementation of EU policy directives**

Biosafety of forest transgenic trees

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Main objective

The main objective of the Cost ACTION is to evaluate and substantiate the scientific knowledge relevant for GMT biosafety protocols by putting together already existing information generated in various European and Non EU Countries as basis for future EU policy and regulation for the environmental impact assessment and the safe development and practical use of GMTs.

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Secondary objectives

- **To list the principal biological characters of existing GMTs in EU and non-EU countries**
- **To evaluate methods for monitoring of the GMTs in the production chain from the plantation to the final products**
- **To provide information for further environmental impacts assessment to assist EU policy**

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- **To give socio-economic and cost/benefits analyses in relation to the use of GMTs useful for policymakers and for forest sector enterprises**
- **To report about the concerns or acceptance of the society in different countries concerning the use of GMTs in forestry and plantations**

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Starting point

There is already a body of information on existing documentation and risk assessment of GM plants (EFSA, Directive 2001/18/EC, EC/553/2003, EC/1829/2003, APHIS, OECD, Biosafety Clearing House database, etc.).

The Information collected from these sources, which is pertinent to the COST ACTION purposes, is the obvious starting point for this COST ACTION program.



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The well documented knowledge present in the website and regulations are in mostly part related to crops.

It has to be considered that forest trees differ in a number of important characteristics (i.e., complex ecosystem, long lived trees, etc.) from agricultural crops.

It is **fundamental** to collect the scattered information on transgenic forest trees and **make it available** for those organisation (as EFSA) and institutions (as state department or Ministries of the Environment etc.) that have to evaluate and regulate any introduction of transgenic tree to the market.



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The **final outcome** of the **ACTION** is a **book** which will report the state of art of knowledge and research on GMTs with suggestion on how to effectively implement present EU directives on GMO considering the problematic of forest trees and their environmental impacts

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Scientific focus of the COST ACTION

The scientific focus of the ACTION is targeted to improve the knowledge building in a way that can be useful and easily available for both:

- the bodies which do the environmental risk assessment (at EU and MS levels but also at International level) and,**
- the authorities involved in risk management (e.g. commercial release authorization).**

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Scientific focus are:

- Characterize the GMTs in respect of their genetic and phenotypic features relevant for gene flow, gene containment and gene targeting
- Study environmental impact assessment strategies and monitor the GMTs along the whole production chain
- Make socio-economics analyses of the use of GMTs considering the concerns and acceptance by the public, the economic potential for GMTs and R&D efforts to be invested, as well as cost/benefit analyses, and propose recommendations for a “biosafety use” of GMTs important for policy duties
- Through a website, provide science-based information and increase public awareness in the utilization of GMTs in forest plantation and at the same time safeguarding the environment

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Working method

To reach its aims, the workplan is organised in 4 Working Groups (WGs) to implement collaboration of scientists

Main methodology:

- **desk research through the use of PC to collect information from internet in specific web-site and specialised scientific journal**
- **contribution with existing data from own research carried out with own national funds**
- **a questionnaire will be worked out and sent to institutions to collect data**

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WG 1 Biological characterization of GMTs

Characterize the GMTs in respect to their genetic and phenotypic features relevant for gene flow, gene containment and gene targeting

Workplan

- **Literature and methods developed on gene flow and containment strategies**
- **Information available on the constructs used for GMTs: name of the construct, name of the trait, donor organism, and function of the gene introduced**
- **Main information on GMTs: taxonomic status, centre/s of origin, and any other additional information available and related to biosafety (i.e., biological cycle, type of pollination, type of pollen and seed dispersal method, etc.)**

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Deliverables

- **protocols for the control of transgene flow and gene containment**
- **Progress in gene targeting strategies for site specific integration of transgenes**
- **Information on the construct and the inserted gene(s) used in the GMT**
- **Provide the main information on forest GMTs for the database (WG4)**
- **information sharing, workshops/meetings/journals**

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Output

to improve data of the Biosafety Clearing House, OECD and EU databases

to develop a clear factual overview of the status of GMTs in European and non-European countries

To provide data for risk assessment (WG2)

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WG 2: Environmental impact assessment and monitoring of GMTs in the whole production chain from plantation to final products

Study environmental risk assessment strategies and monitoring the GMTs along the whole production chain

This WG foresees a recognition of existent strategies and studies concerning the environmental risk assessment and the monitoring systems (used or proposed).

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Workplan

- **Study of impact assessments for crops and other GMOs and from different countries for comparison with GMTs dealt with in this Action;**
- **Impact of genetic transformation on the plant's "omics";**
- **Fate of the recombinant DNA plant material and effects of the GMTs on exposed ecosystems,**
- **The possibility of monitoring tools of the transgene from the production of the GMTs to the final products (wood, pulp, paper, etc.);**
- **Persistence, integration, and biological activity of the foreign genetic material in the environment**

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Deliverables

- **Providing base for further environmental impacts assessment and monitoring**
- **Provide the main information on forest GMTs for the database (WG4)**
- **Providing opportunities for research groups to develop joint research programmes**
- **information sharing, workshops/meetings/journals**

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Output

The results of this work will permit to have a view of the environmental impact of the GMTs already produced and to evaluate if the actual containment strategies need to be improved. These findings will be useful to better support policy strategies (WG3).

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WG 3 Socio-economic implications of and recommendations for the use of GMTs

Make socio-economics analyses of the use of GMTs considering the concerns and acceptance by the public, the economic potential for GMTs and R&D efforts to be invested, as well as cost/benefit analyses, and propose recommendations for the use of GMTs

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Workplan

- **Evaluation of existing of cost/benefits analyses for entire region and for specific localities**
- **Socio - economic analyses of the impacts on European society, which will be compared with impacts in USA and other countries**
- **Awareness and acceptance of GMTs by the society**
- **Developments of biosafety standards for GMTs**

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Deliverables

- **Socio-economic/environmental and cost/benefit analyses, e.g. for GMTs used for the pulp and paper and other industries in the Europe**
- **Comparison between Europe, USA, China and other countries on regulation and public awareness of GMTs**
- **Biosafety recommendations to assist EU policies on GMTs, forests, their products, and services**
- **Providing opportunities for research groups to develop joint research programmes**
- **information sharing, workshops/meetings/journals**

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Output

The information provided will be useful for the National and International organisations who has to deliberate and make decision for the safeguard of the environment and of the society. This will permit to these organisation to make the more correct and adequate policy decision.

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WG 4 Management of intranet - internet websites and dissemination

Through a website, provide science-based information and increase public awareness in the utilization of GMTs in forest plantation and at the same time safeguarding the environment

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Workplan

- **promote a public debate on this theme involving different organisations in favour (i.e, EUROPABIO-European Association for Bioindustries; ISAAA-International Service for the Acquisition of Agri-biotech Applications) or contrary (i.e., IFOAM-associazione internazionale degli agricoltori biologici; NGOs-Greenpeace, Friends of the Earth, GENET) to GMTs**
- **Dissemination of the results**
- **GMP database**

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Deliverables

- Providing a database with the main information on forest GMTs, available to the scientific community and Europe organisations
- Providing opportunities for research groups to develop joint research programmes
- information sharing, workshops/meetings/journals

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Output

Provide scientific information on GMT through the database for the scientific community, and for those organisation/authorities involved in risk assessment analyses and in risk management

Relations to other COST Actions

E36 “Modelling and simulation in the pulp and paper industry”: possible contact and information exchanges with additional end-users (2003-2008) (Chair: Johannes Kappen)

E51 “Integrating Innovation and Development Policies for the Forest Sector”: possible information exchanges for the development of policies directives in relation to GMTs (2005-2010) (Chair: Gerhard Weiss)

FP0603 “Forest models for research and decision support in sustainable forest management”: exchanges similar to E51. (2006-2011) (Chair: Margarida Tome)

FP0804 “Forest management decision support systems”: exchanges similar to E51. (2008-2013) (Chair: Ola Eriksson)

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Relations to other COST Actions

Actions in other domains

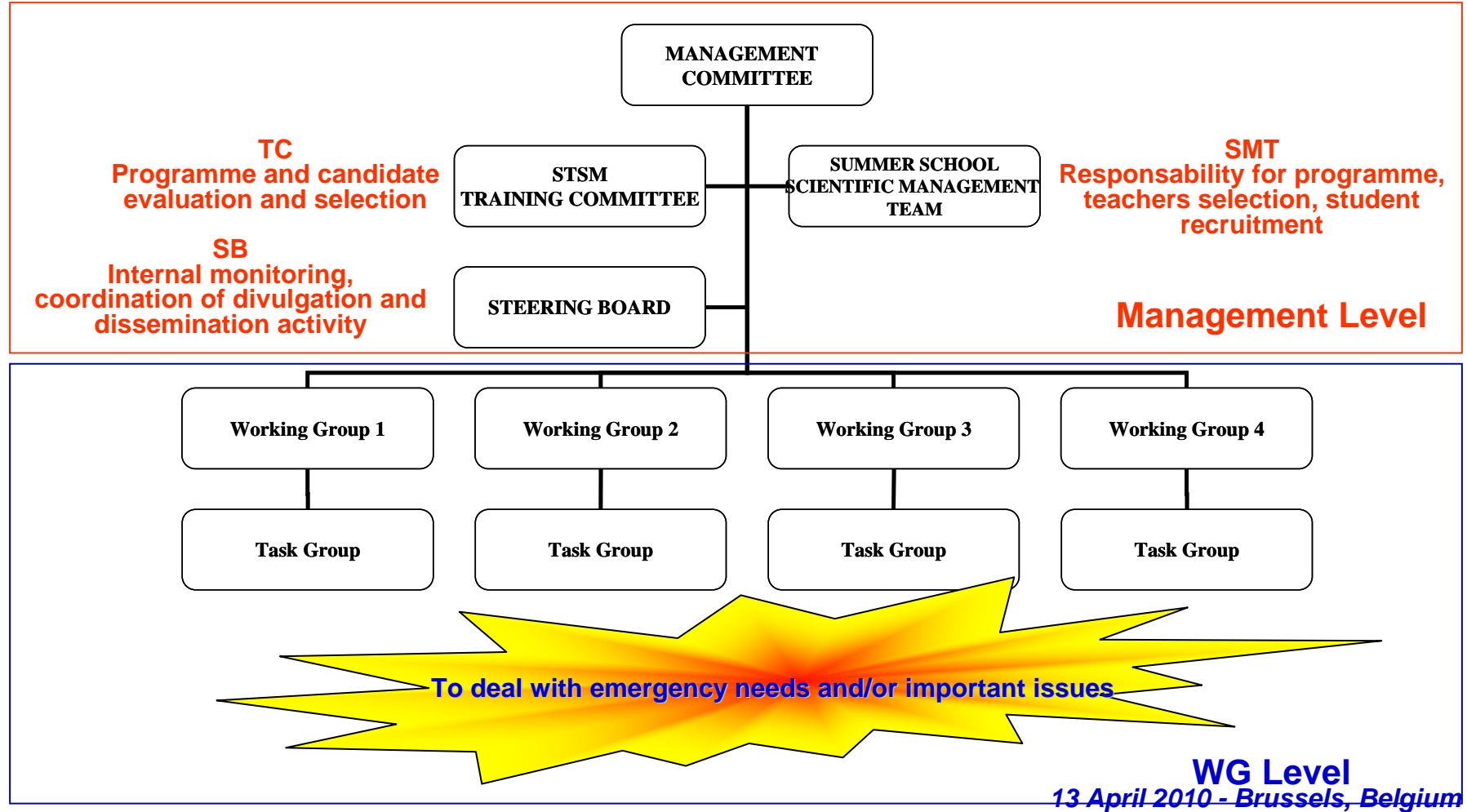
FA 864 “Combining Traditional and Advanced Strategies for Plant Protection in Pome Fruit Growing”: possible scientific and experience exchange in relation to strategy for protection of woody plants (WG4: Biotechnology approaches for Pome Fruit Trees) (Domain: Food and Agriculture) (2005-2011) (Chair: Carl Stich)

Preliminary Proposal oc-2010-1-6870: “Establishment of an EU research network on genetic modification of vegetatively propagated crops for improved food quality and safety” (Proponent: Giovanni Broggin, CH; Domain: Food and Agriculture). *Data from this possible ACTION to implement GMP database*

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ORGANISATION



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Distribution of tasks

Chair (Vice-Chair):

- Lead of Action
- Reporting to COST Domain Committee
- Contacts to other Actions, dissemination
- steering of the Action
-

Action Secretary:

- Planning and management of budget (as Grant Holder)
- Setup and maintenance of Action webpage (as Grant Holder, in collaboration with WG4)
- Contacts to other Actions, dissemination (collaboration with WG4)
- Documentation and reporting of Action activities
-

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Distribution of tasks

Steering Board:

- Monitor the achievements of the objectives
- Coordinate the divulgation, dissemination activity
- Organisation of the information in the final book
-

STSM Training Committee:

- Evaluation of the scientific programme
- Candidate recruitment and evaluation
- Respect of COST regulation and gender balance
-

Training School Scientific Management Team:

- Evaluation of the scientific programme
- Teacher selection
- Candidate evaluation
- Respect of COST regulation and gender balance
-

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Distribution of tasks

WG Leaders:

- Scientific coordination of the activities, specification of research directions
- Information about scientific progress to MC
- Semester internal report to the Chair
- Organisation of WG meetings
-

Task Group:

- Coadjuvate WG Leader
- Elaborate emergency plan
- Suggest any new needs
-

Promotion of Gender balance and of Early Stage Researchers (ESR)

The MC will place the respect of gender balance as a standard item on all its MC agendas

MC, SMT, TC will monitor the respect of gender balance and involvement of ESR in:

- the assignation of the responsibility**
- the selection procedure for STSM**
- the selection procedure for the Training School**
- distribute advertisement among organisations open to equal opportunity**
-**

Election of Working Group Leaders, and Vice Leaders

WG1: Biological characterization of GMTs

WG2: Environmental impact assessment and monitoring of GMTs in the whole production chain from plantation to final products

WG3: Socio-economic implications of and recommendations for the use of GMTs

WG4: Management of intranet - internet websites and dissemination



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Nomination of WG members

WG1:

WG2:

WG3:

WG4:



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Nomination of Task Group

Each WG Leader has to identify 3 persons within the participants to the WG

WG1:

WG2:

WG3:

WG4:



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Members of Steering Board

Chair:

Vice-Chair:

Leader WG1:

Leader WG2:

Leader WG3:

Leader WG4:



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Nomination of STSM Training Committee

Chair:

Vice-Chair:

MC member:

MC member:

MC member:

MC member:



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Nomination of Training School Scientific Management Team

Chair:

Vice-Chair:

Experts of the MC to be nominated for each Training School

Organiser:

Other experts:

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TIME TABLE

Activity	YEAR 1				YEAR 2				YEAR 3				YEAR 4			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Kick-off meeting	X															
MC-WG meetings		X		X	X		X	X		X	X		X	X		X
WGs activity	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Workshops				X	X		X	X		X	X		X	X		
STSM (4-6 per year?)		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Training school (2?)					X	X	X	X	X	X	X	X				
Dissemination			X	X	X	X	X	X	X	X	X	X	X	X	X	X
Final Conference																X
Final Book																X

Current state of acceptance of MoU

SIGNATURES	MC MEMBERS
Belgium	Wout BOERJAN Marie BAUCHER
Bulgaria	Alexander ALEXANDROV
Estonia	Hardi TULLUS Tuuli LEVANDI
Finland	Marja RUOHONEN-LEHTO Hely HAGGMAN
France	Gilles PILATE Lise LEJUS.JOUANIN
Germany	Matthias FLADUNG Detlef BARTSCH
Greece	Vassiliki KAZANA
Israel	Simcha LEV-YADUN

SIGNATURES	MC MEMBERS
Italy	Cristina VETTORI Fabio BOSCALERI
Netherlands	Boet GLANDORF Joukje BUITEVELD
Norway	Nina VIK Carl Gunnar FOSSDAL
Romania	Alexandru Lucian CURTU Lucia IONITA
Serbia	Mirjana SIJACIC-NIKOLIC Vladislava GALOVIC
Slovak Republic	Terezia SALAJ
Spain	Fernando GALLARDO ALBA Lorenzo BURGOS
United Kingdom	David HOPKINS Clair HALPIN

13 April 2010 - Brussels, Belgium

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Improving the scientific basis for safe tree development and implementation of EU policy directives

Current state of acceptance of MoU

INTENTION	MC MEMBERS
Austria	Helmut GAUGITSCH
Bosnia and Herzegovina	Milan MATARUGA
Croatia	Sasa BOGDAN
Denmark	Jens I. FIND
Latvia	Nils ROSTOKS Dainis RUNGIS
Slovenia	Robert BRUS Gregor BOZIC
Sweden	Ove NILSSON
Near Neighbour	MC MEMBERS
ALBANIA	Vath Tabaku

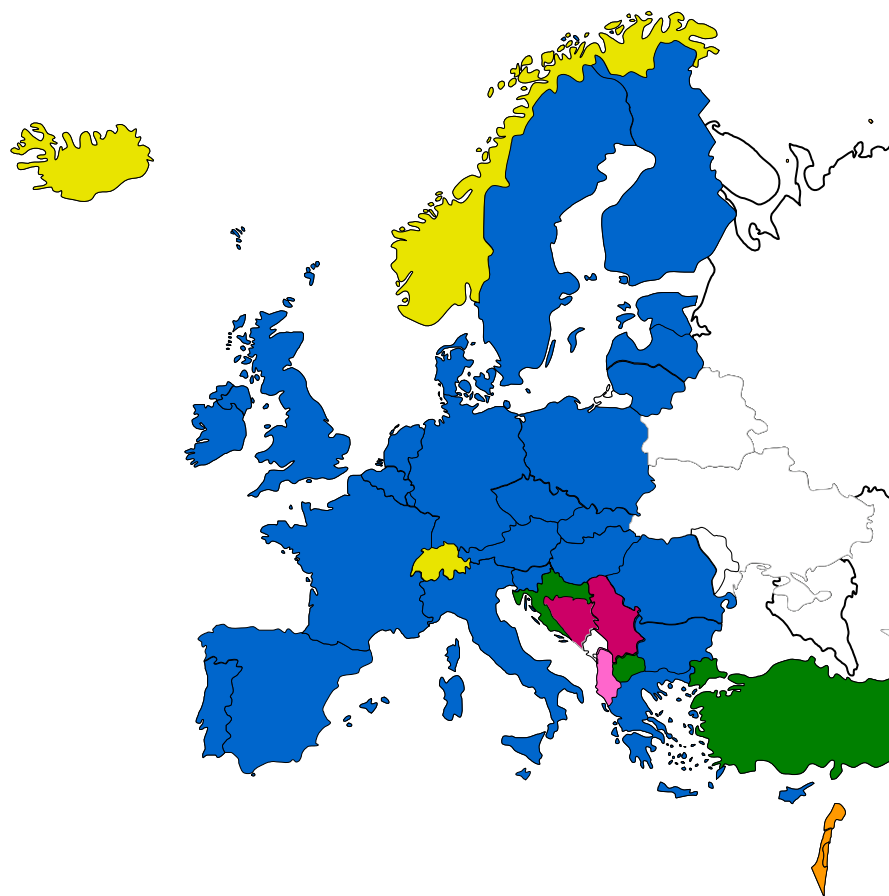
RECIPROCAL AGREEMENT	MC MEMBERS
AUSTRALIA	Gerd BOSSINGER
NEW ZEALAND	Christian Walter Elisabeth P.J. Burgess Louise A. Malone
SOUTH AFRICA	E. Lucienne Mansvelt Yolanda Petersen Hannél Ham

Acceding & Candidate Countries	MC MEMBERS
FYR of Macedonia (FYROM)	Vlatko Andonovski



EU EXPERT

36 COST Countries



◆ The 27 EU Member States

◆ EFTA Member States

- ▶ Iceland
- ▶ Norway
- ▶ Switzerland

◆ Accessing & Candidate Countries

- ▶ Croatia
- ▶ FYR of Macedonia (FYROM)
- ▶ Turkey

◆ Potential Candidate Countries

- ▶ Bosnia and Herzegovina
- ▶ Republic of Serbia

◆ COST Co-operating States

- ▶ Israel

◆ Neighbouring countries

- ▶ Albania

13 April 2010 - Brussels, Belgium

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NON COST COUNTRIES

COUNTRY	GMT RESEARCH	ORGANISATION
CANADA	Professor Illimar Altosaar	University of Ottawa
	Dr. Armand Seguin	Laurentian Forestry Centre
	Dr. Tannis Beardmore	Expert for government documents for CFIA for Biosafety of Transgenic trees
	Professor Sharon Regan	Department of Biology, Queen's University
CHINA	Dr. Hu Jianjun, Research Institute of Forestry	Chinese Academy of Forestry
	Dr. Minsheng Yang	Forestry College, Agricultural University of Hebei
USA	Brasil Professor Guenther Stotzky	Department of Biology, New York University
	Professor Steve Strauss	Department of Forest science, Oregon State University South Africa

ACTIVITIES OF THE ACTION

- a) A kick-off meeting in which the MC will nominate: Chair, Vice Chair, SMT, TC, SB, and WG Leader. At this first meeting the **activities of the first year will be planned.**
- b) 2 meetings per years of the MC in conjunction with the WGs, and if necessary one additional meeting per year for the WGs
- c) 3 Workshops (in conjunction with MC)
- d) 2 **STSM per year or 5/6 ?**
- e) 2 **Training Schools** (probably during the 2nd and 3rd year ?) **or 3 (in the 4th year)?**
- f) Semester progress report (internal monitoring: WG leaders)
- g) Annual progress report to COST Office
- h) Final conference (towards the end of the 4th year)
- i) Final Book
- j) Final Report to COST Office

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Budget plan for the first period

Meetings		55 000 €
Second Management Committee Meeting (September 2010 ?)	40 people x 800 € (32 000€) Organisation support (40 x 30 € = 1 200 €)	
WG meetings (limited to Chair, Vice-Chair, WGs L and VL, TG) (February 2011?)	20 people x 800 € (16 000€)	
Steering Board meeting (March 2011?)	5 people x 800 € (4 000€)	
Short-term scientific missions		15 000 €
	6 x 2 500 €	
Training school		15 000 €
Place? Period?	15 Students x 600€ (9000) 5 Trainers x 800€ (4000) Organisational support 2000 €	
Dissemination (publication, website)		2 000 €
Total Scientific Expenditure		87 000 €
FSAC (15% Sci. expenditure)		13 000 €
TOTAL		100 000 €

PLANNED ACTIVITY IN THE 1ST YEAR

- **2 MC-WG meetings (in conjunction)**
- **1 Workshop in conjunction with MC/WG**
- **2 STSM**
- **Dissemination through website**
- **Website established**
- **Start of the activity of the WGs**

VARIATION ?

- **1 MC-WG meetings with workshop (in conjunction) (50 persons)**
- **1 WG meetings (limited to Chair, Vice-Chair, WGs L and VL, TG) (21 persons)**
- **1 SB meeting (5 persons)**
- **6 STSM**



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PLANNED ACTIVITY IN 1° YEAR

MEETINGS

2nd MC MEETING

Participants	Members MC committee, Action secretary? Other WGs experts?
Date	September 2010? Suggestion: 8 (1pm) – 10 (12am)
Place	Hamburg / Berlin ???
Agenda	<ul style="list-style-type: none">• preparation of 2nd year MC meetings• planning of WG activities• STSM / Training School• dissemination activities• web activities• Other business?

MEETINGS

WG MEETINGS	
Participants	Limited to: Chair, Vice-Chair, WGs L and VL, TG; and Action secretary?
Date	February 2011? (1-day-meeting) 2 nights reimbursed
Place	Spain (Malaga)
Agenda	<ul style="list-style-type: none">• preparation of Steering Board Meeting• evaluation of WG activities• dissemination activities• web activities• Other business?

MEETINGS

SB MEETINGS	
Participants	SB: Chair, Vice-Chair, WGs L, and Action secretary?
Date	March or April 2011?
Place	Italy (Florence)
Agenda	<ul style="list-style-type: none">• preparation of activities of 2nd year• discussion of WG activities• evaluation of internal report of WGs• dissemination activities• web activities• Other business?

DISSEMINATION: TRAINING ACTIVITIES

Short Term Scientific Missions

Number	6 per year?
Duration	<ul style="list-style-type: none"> •Min. 1 week (5 working days)/Max 3 months •3-6 months only for ESR (less than PhD+8 years)
Submission	Continuous submission?
Approval	<ul style="list-style-type: none"> • By web page of the ACTION • Applicant submit: host details and agreement, planned dates and length of stay, title of the STSM, short description of workplan (ca 250 words), short CV, budget request • Evaluation and approval by STSM Training Committee
COST procedure submission	<p>After the approval of the STSM TC, applicant use on-line registration tool (see 4.10 COST Vademecum)</p> <p>NB: The application with the approval have to be sent to the Grant Holder <u>at least 4 weeks before</u> the STSM starts</p>

DISSEMINATION: TRAINING ACTIVITIES

Training School

Number	1 per year?
Duration	•Min. 3 days/Max 2 weeks
Procedure	<ul style="list-style-type: none"> •Approval of MC •Request to be sent to the Grant Holder (see 5.4 COST Vademecum)
Date	???
Local organiser	???
Place	???
Scientific Management Team	Chair, Vice Chair and MC organiser MC experts to be nominated at the MC :
Trainers	Local experts + external experts (max 5 reimbursements)
Trainees	10/15 ESRs (preferentially)

DISSEMINATION: TRAINING ACTIVITIES

Training School: Role of green biotech research, ethical aspect and the dissemination of the scientific results through the media

Duration	•3 days ?
Date	2012 ?????
Local organiser	Tuscany Region (Italy) ?
Place	Florence ?
Scientific Management Team	Chair, Vice Chair and MC organiser MC experts o be nominated at the MC : ???
Trainers	Local experts + external experts (max 5 reimbursements)
Trainees	10/15 ESRs (preferentially)

DISSEMINATION: TRAINING ACTIVITIES

Training School: Plant genomics, EU policy directive on forest plantation

Duration	•3 days ?
Date	2013 ?????
Local organiser	???
Place	???
Scientific Management Team	Chair, Vice Chair and MC organiser MC experts o be nominated at the MC : ???
Trainers	Local experts + external experts (max 5 reimbursements)
Trainees	10/15 ESRs (preferentially)

Conference Grant for Early Stage Research

INSTRUMENT TO SUPPORT ESR

Extent	Max. 3 supporting grants (3000 € max) per year for each domain
Applicant	Early Stage Researchers (less than PhD + 8 years)
Rules and procedures	<p>Submission of written application to the Executive group of the Domain Committee via the Chair of the Action:</p> <ul style="list-style-type: none"> • personal data and short scientific CV • Short description of involvement in COST Action (300 words) • data on Conference • Copy of Abstract submitted • Proof of acceptance of Abstract by the Conference and confirmation of oral presentation
	<ul style="list-style-type: none"> • the selection will be based on a list of criteria (to be defined by the DC) • after the Conference, a short written report sent to the COST Office • payment of the grant after approval of the report by the COST Office

Biosafety of forest transgenic trees

Improving the scientific basis for safe tree development and implementation of EU policy directives

Proposal for webpage of Action: <http://www.cost-action-fp0905.eu>



The screenshot shows the homepage of the COST ACTION FP0905 website. The header features the COST ACTION FP0905 logo and the title 'Biosafety of forest transgenic trees' with the subtitle 'Improving the scientific basis for safe tree development and implementation of EU policy directives'. Below the header is a navigation menu with the following items: Organisation, Events, Training School, Short Term Scientific Missions (STSM), and Working Groups. The main content area is divided into three columns. The left column contains a 'MainMenu' with links to Home, Organisation, Working Groups, Event, Training School, and Short Term Scientific Missions (STSM). Below this is a 'Members Area' with a login form including fields for Username and Password, a 'Remember Me' checkbox, and a 'Login' button. There are also links for 'Forgot your password?', 'Forgot your username?', and 'Create an account'. The middle column features a section for 'Cost Action FP0905' with a description of the project's objectives, a link to download the MoU (1.32 MB), and information about the official COST webpage. Below this is a 'What is COST?' section with a brief description of the COST program and a link to the COST webpage. The right column contains a 'Latest news' section with a 'Kick-off Meeting' on April 12-13, 2010 in Brussels, Belgium. Below this is a 'Dissemination' section with links to the GMP Database, Report, and Presentation. At the bottom of the right column is a 'Visits' section showing 'Content View Hits : 1023'.

Organisation **Events** **Training School** **Short Term Scientific Missions (STSM)** **Working Groups**

MainMenu

- Home
- Organisation
- Working Groups
- Event
- Training School
- Short Term Scientific Missions (STSM)

Members Area

Username
[input field]

Password
[input field]

Remember Me

Login

Forgot your password?

Forgot your username?

Create an account

Cost Action FP0905

The main objective of this Action is to evaluate and substantiate the scientific knowledge relevant for GMT biosafety protocols by putting together already existing information generated in various European countries as basis for future EU policy and regulation for the environmental impact assessment and the safe development and practical use of GMTs.

MoU COST ACTION FP0905: [download PDF](#) (1.32 MB)

Information on the Action is also available at the official [COST webpage](#).

What is COST?

COST - European Cooperation in the field of Scientific and Technical Research - is one of the longest-running European instruments supporting cooperation among scientists and researchers across Europe. COST is also the first and widest European intergovernmental network for coordination of nationally funded research activities.

More information on COST can be found at the [COST webpage](#).

Latest news

Kick-off Meeting
April 12-13, 2010
Brussels, Belgium

Dissemination

- GMP Database
- Report
- Presentation

Visits
Content View Hits : 1023

Biosafety of forest transgenic trees

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ORGANISATION

Chair
Vice Chair
Mangement Committee
Steering Board
Training Committee

Information on people in the Action:

- short CV, photo
- expertise
- research interests
- short description of istribution
- Infrastructure at institution
(template to be sent out)

Organisation

Ev

Groups

MainMenu

Home

Organisation

Working Groups

Event

Training School

Short Term Scientific Missions
(STSM)

Members Area

Username

Password

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WORKING GROUPS

WG1: title
WG2: title
WG3: title
WG4: title

Information on WGs:

- description of WGs
- information on WG Leaders and members
-

the longest-running European instruments supporting cooperation among scientists and researchers across Europe. COST is also the first and widest European intergovernmental network for coordination of nationally funded research activities.

More information on COST can be found at the [COST webpage](#).

Organisation

EV

Groups

MainMenu

Home

Organisation

Working Groups

Event

Training School

Short Term Scientific Missions
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EVENTS

Information on events:

Past

- MC, SB and WGs meetings
- Workshops, conference information on WG Leaders and members
-

Upcoming

- MC, SB and WGs meetings
- Workshops, conference information on WG Leaders and members
-

Organisation

EV

Groups

MainMenu

Home

Organisation

Working Groups

Event

Training School

Short Term Scientific Missions (STSM)

Latest news

kick-off Meeting

April 12-13, 2010

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Dissemination

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GMP Database

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Search results

Record 1 to 3 of 3

ID	Record holder and type	
14993	Gene and DNA Sequence	cry3Bb1 - Bacillus thuringiensis subsp. kumamotoensis Resistance to diseases and pests - Insects - Coleoptera (beetles)
43771	Gene and DNA Sequence	cry1A.105 (also known as CS-cry1A.105 3.53) - Bacillus thuringiensis subsp. kumamotoensis Resistance to diseases and pests - Insects - Lepidoptera (butterflies and moths)
46121	Gene and DNA Sequence	ZCrip gene - Cryptomeria japonica - Japanese cedar, Japanese cedar Changes in quality and/or metabolite content - Allergens

[Home](#) | [Finding Information](#) | Search results



Search results

Record 1 to 25 of 52

< Previous | 1 | 2 | 3 | Next >

ID	Record holder and type	
14750	Modified Organism	MON-@81@-6 - YieldGard™ Maize Resistance to diseases and pests - Insects - Lepidoptera (butterflies and moths)
14751	Modified Organism	SYN-EV176-9 - NaturGard KnockOut™ Maize Resistance to antibiotics - Ampicillin Resistance to diseases and pests - Insects - Lepidoptera (butterflies and moths) Resistance to herbicides - Glufosinate
14765	Modified Organism	ACS-ZM@1-9 - Herbicide-tolerant Maize Changes in physiology and/or production - Reproduction - Male sterility Resistance to herbicides - Glufosinate

Working Groups

Latest news

Kick-off Meeting

April 12-13, 2010

Brussels, Belgium

Dissemination

GMP Database

Report

Presentation

Visits

Content View Hits : 1023

Template to be sent out

In relation to Biosafety Clearing-House
<http://bch.cbd.int/database/organisms>

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Organisation

Events

Training School

Short Term Scientific Missions (STSM)

Working Groups

MainMenu

- Home
- Organisation
- Working Groups
- Event
- Training School
- Short Term Scientific Missions (STSM)

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- Upload of documents
- Latest news
- Intranet communication
- STSM submission and evaluation
- Training school information and organisation
- GMP database update
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Kick-off Meeting

April 12-13, 2010

Brussels, Belgium

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GMP Database

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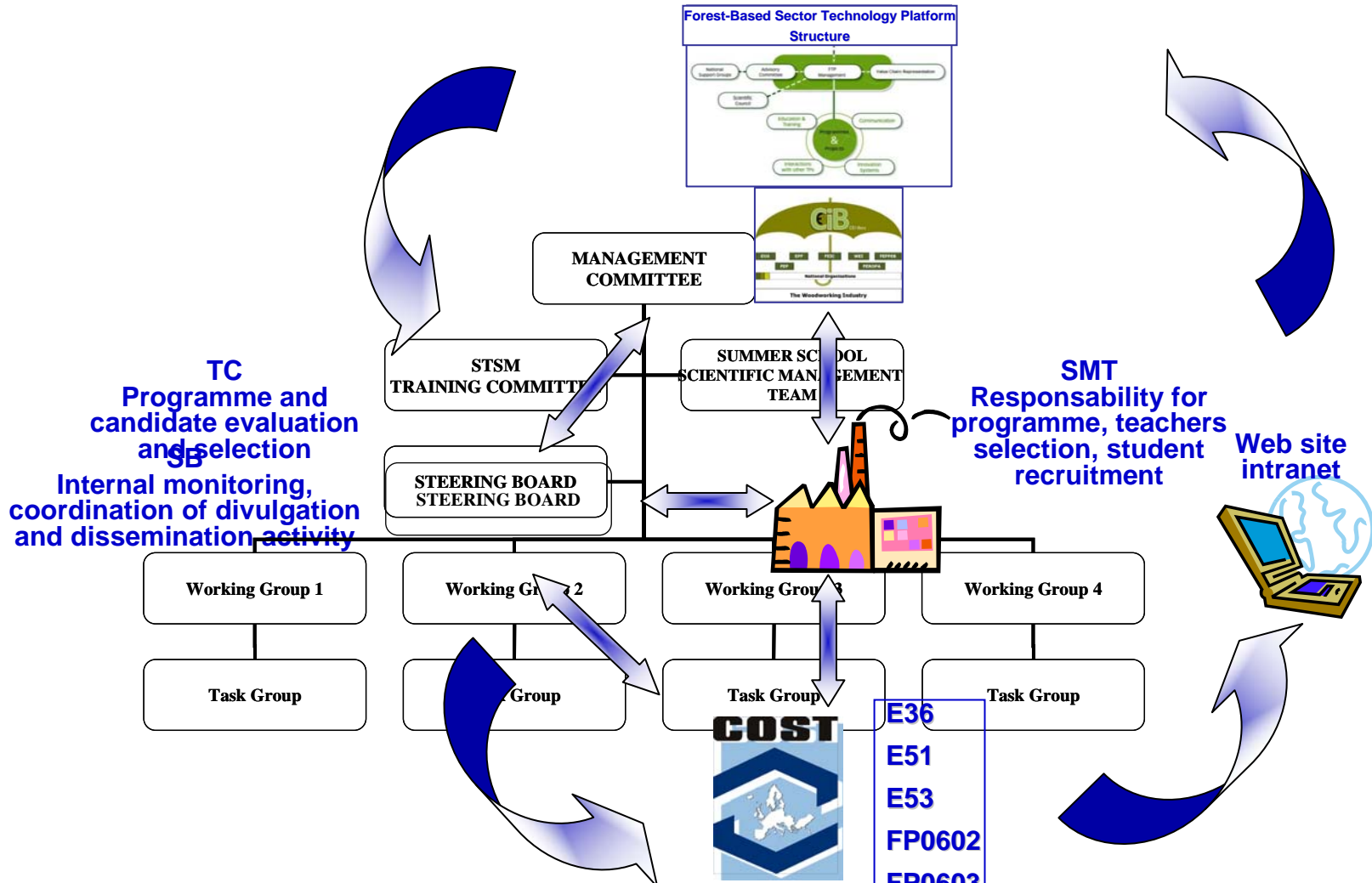
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- E36
- E51
- E53
- FP0602
- FP0603
- FP0804

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AOB

- ✓ **Approval to non-COST country institutions that have applied to join the ACTION**
 - ✓ **COST Publications**
 - **Final Book: funded directly by COST (max 10 000 €)**
(Structure: how many chapters?)
 - **Joining publications in journals, printing conference or workshop proceedings (see 6.6 Annex B vademecum) (in the ACTION Budget, by organiser)**
 - **Springer: series Forestry Sciences (H. Haeggman)**
 - ✓ **Other Publications**
 - **international journal by participants: How to put COST ACTION?**
- “Further support was provided by the COST Action FP0905 research team” or ... partly supported by ...**