

# Joint Research Centre

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# **4th EU-ASIA Network Meeting on GMO Analysis**

Manila, the Philippines, 23 May 2012

**Update on EU-Asia network cooperation  
&  
on global networking on GMO analysis**

Damien Plan, European Commission

## CONTENTS

1. EU-ASIA networking 2011-2012 update
2. Global networking 2011-2012 update
3. Global information-sharing : the JRC Compendium and Database on GMO methods
4. Global networking next steps : the Global GMO Network Forum (GGNF)



## EU-Asia Network Roadmap 2011-2012 (outcome of Singapore meeting, 7<sup>th</sup> June 2011)

1. EU-Asia Network – General Actions
2. Method Development/Method Validation
3. Quality (incl. Proficiency Testing)
4. Capacity Building (training)
5. Global Matrix project

For Update:

😊 **done**

😊 **on going**

☹️ **delayed**

## Topic 1. EU-Asia Network – General Actions

- 1. On-line networking:** creation of EU-Asia Intranet (membership to be confirmed and made available) for information-sharing in between meetings (eg meeting documents, guidance documents) – *EC by July 2011 and EC-Asia afterwards*
  - 😊 **EU-Asia Intranet in place** (but not used regularly)
- 2. Face-to-face networking:** regular EU-Asia network meetings (back-to-back with ASEAN network meetings?), global forum for GMO Analysis networks (June 2012 in Brussels) – *EC-Asia in 2012*
  - 😊 **4th EU-Asia meeting in the Philippines in May 2012**
- 3. Formalise EU-Asia network** – signature of cooperation agreement / MoU between EU Commission and Asian partners - *EC-Asia in 2012*
  - 😊 **MoU EU-ASEAN under preparation**



## Topic 2. Method Development/Method Validation

1. Make available the **Plasmid Control Samples** (list + distribution of PCS) – *EC in Q3-2011*
  - 😊 **Plasmid Control Samples distributed to various Asian laboratories**
2. Organise **Technical Workshop** on Quantitative GMO detection incl. topics of Measurement Uncertainty and Unapproved GMOs (maybe back-to back with Global Forum in Brussels in June 2012) – *EC in 2012*
  - 😊 **Technical sessions included in agenda of Global GMO Network Forum**

## Topic 3. Proficiency testing

1. Further develop participation from Asian labs in EURL-GMFF round of proficiency testing *EC-Asia in 2011-2012*
  - 😊 Participation of Asian labs to PT round extended
2. Provide general information/guidelines on organisation of proficiency testing - *EC in 2012*
  - 😊 Sessions on PT included in ASEAN study tour (Nov. 2011) and in 4th EU-Asia meeting (May 2012)

## Topic 4. Technical training

1. Foresee technical trainings for Asian labs incl. topics like Quality Management Systems (ISO 17025), in EU (study tour?) and/or in Asia – *EC in 2011-2012*
  - ☺ ASEAN study tour held in JRC lab in Ispra (Italy) in November 2011 and ISO17025 training held in BPI lab in Los Banos (Philippines) in May 2012

## Topic 5. Global Matrix

1. Keep Asian partners informed about Global GMO Matrix project developments - *EC in 2011-2012*
  - ☺ **Session on GMO Matrix project included in ASEAN study tour in November 2011** (but whole Global GMO project delayed)
2. Express interest in participating to Global GMO Matrix project (provision of “local” GMO information and/or access to PCR plates) - *Asia in 2011-2012*
  - ☹ **Global GMO Matrix project delayed so participation of Asian partners delayed**



All in all,

EU-Asia Networking Roadmap 2011-2012 implemented

EU-Asia Roadmap

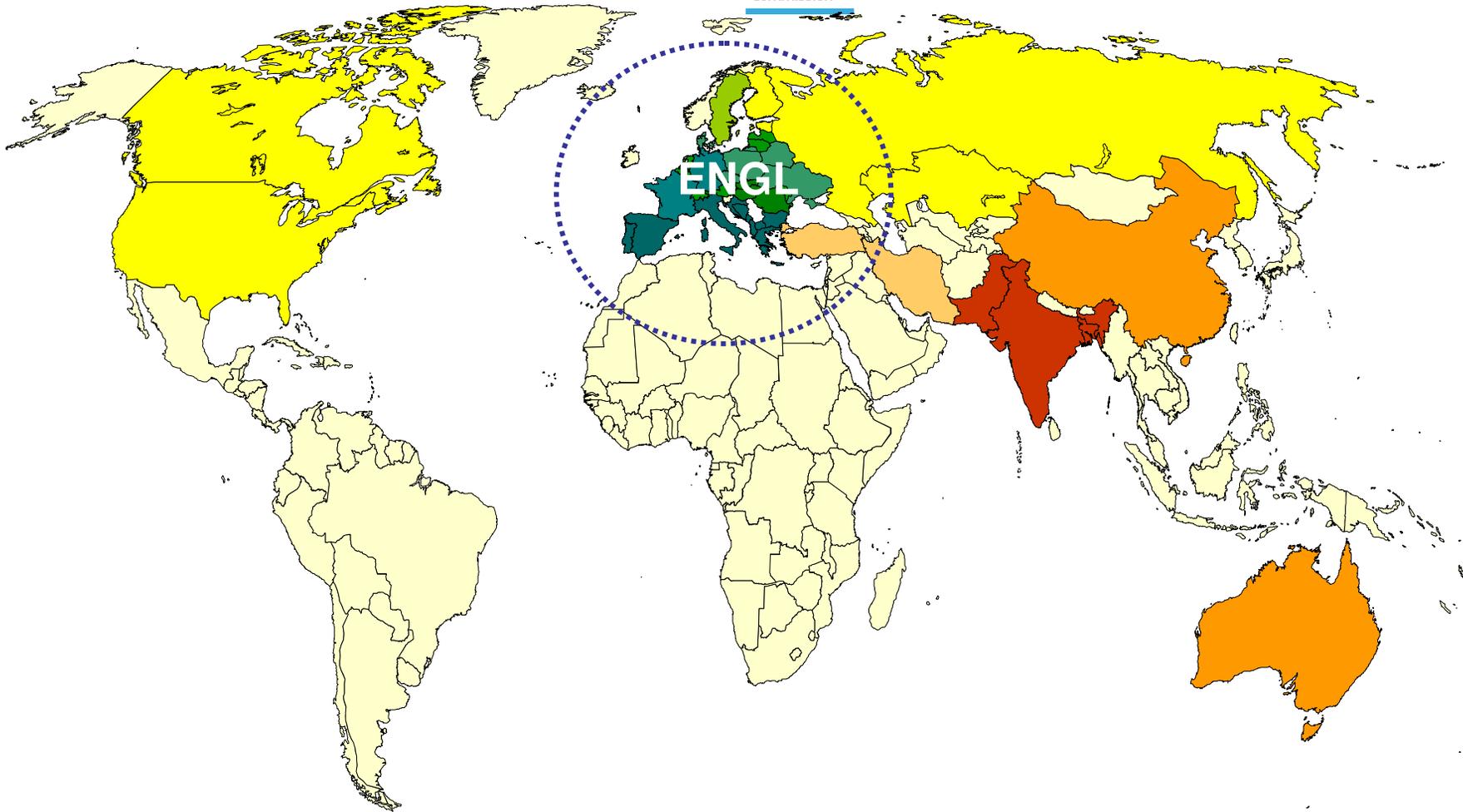


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# Enlargement, International Collaboration & Capacity Building



The Molecular Biology and Genomics Unit of the Institute for Health and Consumer Protection (European Commission, Joint Research Centre) plays a leading role in the area of analysis of food, feed and environmental samples for the presence of genetically modified organisms (GMOs).

Here we present the international activities related to capacity building and training and we provide regular updates on workshops, training sessions and conferences we organise that aim to increase expertise and to foster international collaboration and harmonisation.





## Asia Milestones 2009 - 2012

- Malaysia, 16 -17 June 2009 - Regional Networking Workshop for Asian Countries
- Malaysia, 15 -19 June 2009 - Training Course for Asian Countries (EC BTSF Initiative)
- Singapore, 9-10 June 2010 - 2<sup>nd</sup> EU - Asia Regional Networking Workshop
- Singapore, 7 June 2011 – 3<sup>rd</sup> EU - Asia Regional Networking Workshop
- Ispra, 15 - 17 November 2011 - ASEAN Study Tour on GMO Analysis
- Philippines 21-23 May 2012 – 4<sup>th</sup> EU - Asia Regional Networking Workshop, coupled with ASEAN Training on ISO17025





# Asia

- Collaboration and exchange of information between EU, ASEAN Network and other Asian countries
- EU-Asia GMOnet: e-communication
- Participation to Proficiency Testing rounds
- Distribution of Plasmid Control Samples
- MoU under preparation

EU-Asia GMOnet - Home - Windows Internet Explorer

https://eu-asia-gmonet.jrc.ec.europa.eu/

System Account

### Welcome to the EU-Asia GMOnet

Home

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#### Meeting / events

| <input type="checkbox"/> |  |  | Title                                | Location             | Start Time       | End Time         | All Day Event |
|--------------------------|--|--|--------------------------------------|----------------------|------------------|------------------|---------------|
| <input type="checkbox"/> |  |  | ASEAN Network Study Tour             | Ispra, Italy         | 15/11/2011 09:00 | 17/11/2011 17:00 |               |
| <input type="checkbox"/> |  |  | 3rd EU-Asia Regional Network Meeting | Singapore, Singapore | 07/06/2011 09:00 | 07/06/2011 17:00 |               |
| <input type="checkbox"/> |  |  | 2nd EU-Asia Regional Network Meeting | Singapore, Singapore | 09/06/2010 09:00 | 10/06/2010 17:00 |               |

[Add new event](#)

#### Shared Documents

| <input type="checkbox"/> | Type | Name  | Modified         | Modified By |
|--------------------------|------|---|------------------|-------------|
| <input type="checkbox"/> |      | 2009-05-19 ENGL Consortium Agreement Final                        | 22/11/2011 11:54 | Damien Plan |
| <input type="checkbox"/> |      | 2011-06-24 Commission PR LLP regulation                           | 23/08/2011 16:28 | Damien Plan |
| <input type="checkbox"/> |      | 2011-09-01 ENGL UGM WG Final                                      | 12/10/2011 13:57 | Damien Plan |
| <input type="checkbox"/> |      | 2011-09-01 Technical Guidance from EURL on LLP                    | 12/10/2011 13:58 | Damien Plan |
| <input type="checkbox"/> |      | ENGL MV WG Report July 2011                                       | 23/08/2011 16:29 | Damien Plan |
| <input type="checkbox"/> |      | EU JRC Report_Compedium Reference Methods GMO Analysis_April 2011 | 23/08/2011 16:30 | Damien Plan |
| <input type="checkbox"/> |      | JRC63971 New Plant Breeding Techniques                            | 23/08/2011 16:30 | Damien Plan |

#### Plasmid control samples

| <input type="checkbox"/> | Type | Name                                 | Modified         | Modified By |
|--------------------------|------|--------------------------------------|------------------|-------------|
| <input type="checkbox"/> |      | Plasmid Control Samples List 2011    | 23/08/2011 16:38 | Damien Plan |
| <input type="checkbox"/> |      | Template MTA Plasmid Control Samples | 23/08/2011 16:37 | Damien Plan |

[Add document](#)

#### Proficiency testing

| <input type="checkbox"/> | Type | Name                                   | Modified         | Modified By |
|--------------------------|------|--|------------------|-------------|
| <input type="checkbox"/> |      | EURL Comparative testing report_CT0110 | 23/08/2011 16:37 | Damien Plan |

[Add document](#)

#### GMO detection matrix

| <input type="checkbox"/> | Type | Name | Modified | Modified By |
|--------------------------|------|------|----------|-------------|
|--------------------------|------|------|----------|-------------|

There are no items to show in this view of the "GMO detection matrix" document library. To add a new item, click "New" or "Upload".

[Add document](#)

https://eu-asia-gmonet.jrc.ec.europa.eu/\_layouts/viewlists.aspx?BaseType=0&ListTemplate=...



## Latin America Milestones 2009 - 2012

- Cuba, October 2009 - Training Course for Central & South American Countries
- Brazil, 3 - 4 December 2009 - Regional Networking Workshops for Central & South American Countries
- Ispra, 8 - 12 November 2010 - Study Tour on GMO Analysis for Central & South American Countries
- Mexico, 2 – 3 March 2011 - 2<sup>nd</sup> Regional Networking Workshop for Central & South American Countries
- Colombia, 3-4 July 2012- 3<sup>rd</sup> Regional Networking Workshop for Central & South American Countries





## Latin America

- Collaboration and Exchange of information between EU and labs within the LAC region
- Regional Network under development Red Latino Americana de laboratorios de detección de OGM
- RLAC-OGMNET: e-communication
- Participation to comparative testing rounds

RLAC OGMnet - Home - Windows Internet Explorer

https://rlac-ogmnet.j... RLAC OGMnet - Home

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### Welcome to the RLAC-OGMNET

Latin American and Caribbean Network of GMO Detection Laboratories

Red Latinoamericana y del Caribe de Laboratorios de Detección de OGM

Rede Latino-Americana e Caribe de Laboratórios de Detecção de OGM

*This website is hosted by the Molecular Biology and Genomics (MBG) Unit of the European Commission Joint Research Centre (JRC)*

#### Events

| Title  | Location              | Start Time       | End Time         |
|--|-----------------------|------------------|------------------|
| ISTA Workshop on Statistical Aspects of GMO Detection  | Mexico City, Mexico   | 25/07/2011 00:00 | 29/07/2011 23:59 |
| 15th ENGL Plenary Meeting  | Ispra, Italy          | 24/05/2011 09:00 | 25/05/2011 14:00 |
| We get the keys and began to test the tool that gave us the European Union                                 |                       | 22/03/2011 16:00 | 22/03/2011 16:30 |
| Second International Workshop on Harmonisation of GMO Detection and Analysis for Central and South America | Merida, Mexico        | 02/03/2011 09:00 | 03/03/2011 17:00 |
| First International Workshop on Harmonisation of GMO Detection and Analysis for Central and South America  | Foz do Iguacu, Brazil | 04/12/2009 09:00 | 05/12/2009 17:00 |

#### Links

- European Commission Joint Research Centre (JRC)
- JRC Molecular Biology and Genomics Unit
- European Union Reference Laboratory for GM Food Feed (EU-RL GMFF)
- New (industry) database of detection methods

+ Add new link

#### Working Groups

| Type  | Edit | URL | Notes |
|---|------|-----|-------|
| There are no items to show in this view of the "Working Groups" list. To add a new item, click "New". |      |     |       |

+ Add new link



## Africa Milestones 2010 - 2012

- South Africa, 28-29 October 2010 – 1<sup>st</sup> Regional Networking Workshop for African Countries
- South Africa, 7- 8 February 2012 – 2<sup>nd</sup> Regional Networking Workshop for African Countries

Note: one network in place between 10 countries in the Southern part of Africa (SANGL)

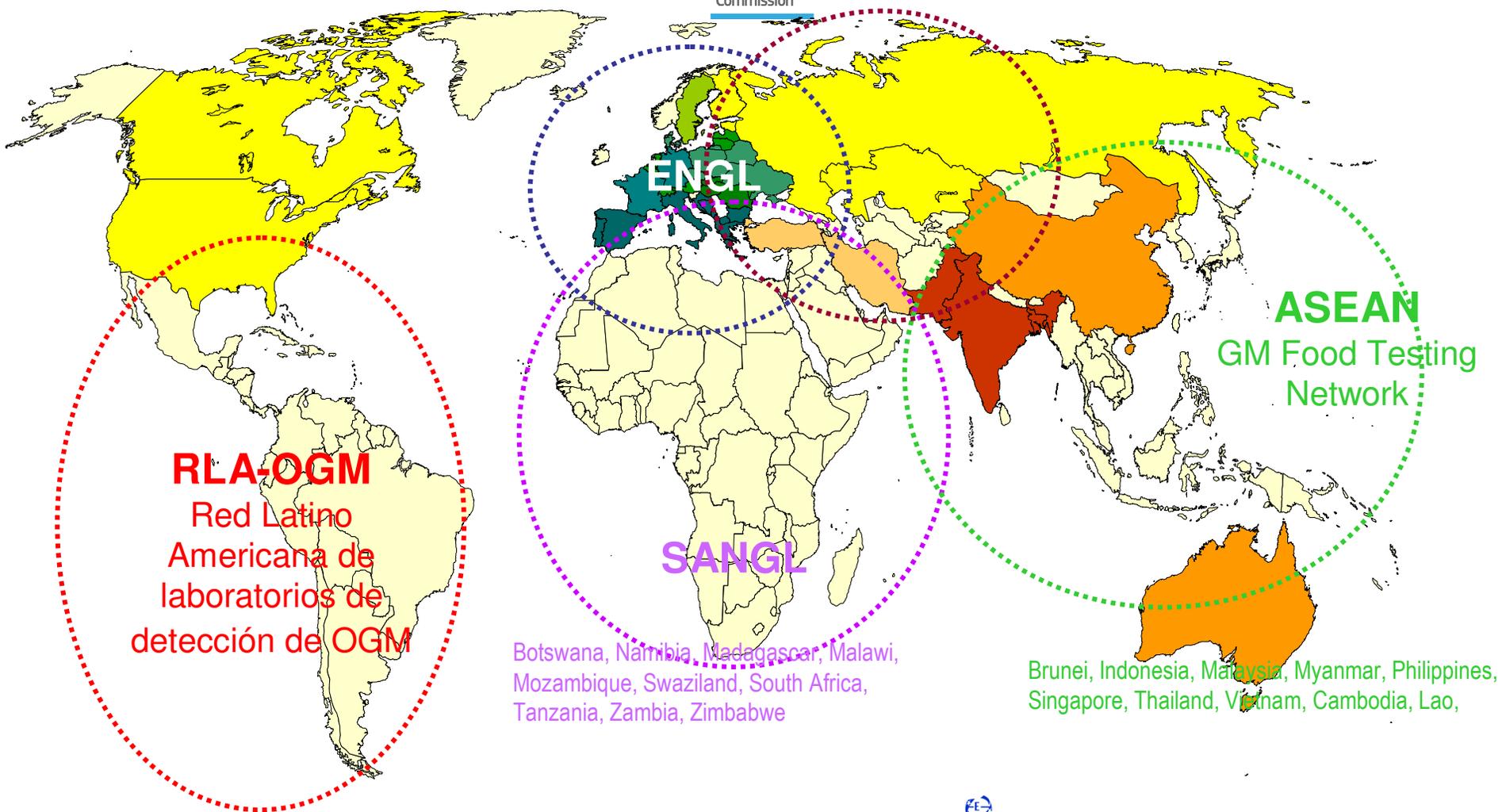




## EU neighbourhood + Middle East/North Africa (MENA) Milestones 2009 - 2012

- Turkey, 27 - 28 April 2009 - Enlargement/Networking Workshop for new MS, Candidate Countries, Potential Candidate Countries and Territories, Countries incl. in the European Neighbourhood Policy
- Turkey, 12-16 April 2010 - Training Course for new MS, Candidate Countries, Potential Candidate Countries and Territories, Countries incl. in the European Neighbourhood Policy
- Croatia, 27-28 September 2010 - 2<sup>nd</sup> Enlargement/Networking Workshop for new MS, Candidate Countries, Potential Candidate Countries and Territories, Countries incl. in the European Neighbourhood Policy
- Jordan, 4-5 June 2012 - 1<sup>st</sup> International Workshop on Harmonisation of GMO Detection and Analysis in MENA





**RLA-OGM**  
 Red Latino  
 Americana de  
 laboratorios de  
 detección de OGM

**ENGL**

**SANGL**

**ASEAN**  
 GM Food Testing  
 Network

Botswana, Namibia, Madagascar, Malawi,  
 Mozambique, Swaziland, South Africa,  
 Tanzania, Zambia, Zimbabwe

Brunei, Indonesia, Malaysia, Myanmar, Philippines,  
 Singapore, Thailand, Vietnam, Cambodia, Lao,

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## Compendium of reference methods for GMO analysis: a global reference for information on GMO detection methods

V1 released : November 2010

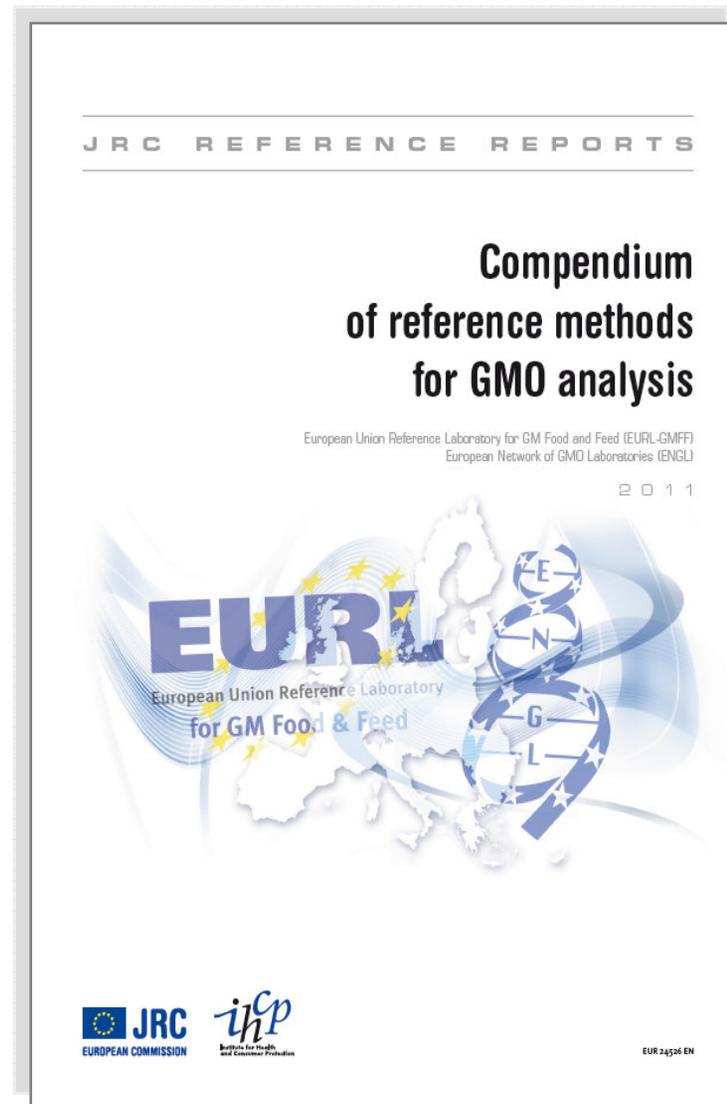
V2 updated: April 2011

Compendium distributed in hard copies

+

latest version of Compendium publicly available as PDF file

@ <http://gmo-crl.jrc.ec.europa.eu/gmomethods>



## Overall structure of the Compendium:

### **Chapter 1: Quantitative GMO detection PCR methods**

*Maize quantitative PCR methods*

*Soybean quantitative PCR methods*

*Cotton quantitative PCR methods*

*Oilseed rape quantitative PCR methods*

*Potato quantitative PCR methods*

*Rice quantitative PCR methods*

*Sugar beet quantitative PCR methods*

*Element- and Taxon-specific quantitative PCR methods*

### **Chapter 2: Qualitative GMO detection PCR methods**

*Element-specific qualitative PCR methods*

*Construct-specific qualitative PCR methods*

*Event-specific qualitative PCR methods*

*Taxon-specific qualitative PCR methods*

# GMO Methods Database (Web application)

GMOMETHODS database released in May 2011  
and publicly available  
@ <http://gmo-crl.jrc.ec.europa.eu/gmomethods/>

Contains all info & methods included in the  
Compendium but is more regularly updated

Search functions at various levels (event, target,  
crop ...)



# GMO Methods Database (app for iPad)

GMOmethods app for iPad released in December 2011 and available @

<http://itunes.apple.com/us/app/gmomethods/id481988894?mt=8>



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## Global GMO Networking Forum (GGNF)

**Date: 16 October and 17 October 2012**

(+ one day for preparatory bilateral meetings on 15 October)

**Location: Brussels** (European Commission headquarters building)

**General Objective: to "network the GMO networks"**

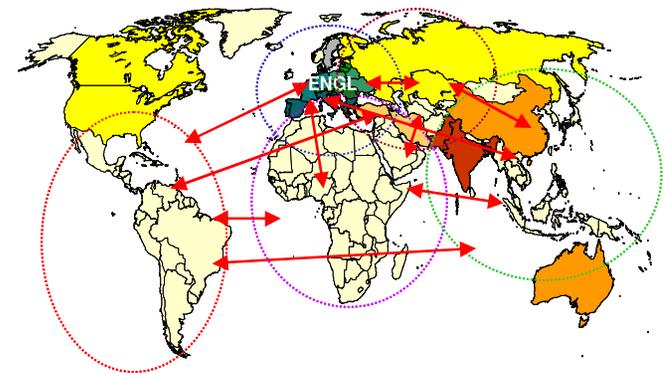
**Format : 2-day workshop**

1st day – Focus on policy and networking

2nd day – Focus on technical topics and "next steps"

**Participants: approx 100 delegates** from all regions including representatives from

- EU Commission
- Regional Networks
- International Organisations
- Individual Countries





## GGNF Agenda Day 1 AM 16 October 2012 (policy/networking)

**EU overview with 3 speakers from 3 European Commission services** involved in global networking and capacity building programmes on GMO analysis (JRC/SANCO/ELARG )

**Regional GMO Networks with 5 speakers from 5 regional networks (existing or future)**

**Europe** network (ENGL)

**Asia** network (ASEAN GMFNet)

**Africa** network (SANGL)

**Latin America** network (RLAC OGM)

**Middle East North Africa** network (MENA)

Including topics like:

- challenges in different parts of the world;
- mandate and organisation;
- progress, capacities and needs;
- how the networks maintain themselves;
- outlook and challenges



## **GGNF Agenda Day 1 PM 16 October 2012 (policy/networking)**

### **Panel Discussion with Individual Countries (key EU trade partners)**

on GMO detection and trade facilitation : **EU (DG TRADE), USA, China, India, Brazil ...**

### **Panel Discussion with 2 International and 2 Regional Organisations**

on importance of GMO detection :

UN Food Agriculture Organisation **FAO**, UN Convention Biological Diversity **CBD**,  
**African Union** Commission, Association South East Asia Nations (**ASEAN**) Secretariat

**Statement from biotech industry** (CropLife International)

**Statement from a NGO** (Consumers International)

**Note: signature ceremony of MoU between JRC and ASEAN possibly foreseen on day 1**



## **GGNF Agenda Day 2 AM 17 October 2012 (technical)**

**Technical Session I (TSI):** availability of GMO analytical methods (qualitative or quantitative)  
incl. presentation of JRC Compendium/Database

**Technical Session II (TS II):** global harmonisation and international standardisation of GMO  
analytical methods : 1 speaker from Codex + 1 speaker from ISO

**Technical Session III (TS III):** case-study : Low Level Presence (LLP) and detection of  
unapproved GMOs

**Technical Session IV (TS IV):** outlook / technical detection challenges in the future incl.  
topics like New Plant Breeding Techniques or Transgenic Animals



# GGNF Agenda Day 2 PM 17 October 2012 (next steps)

## Afternoon Session

### Lessons to be learnt from technical sessions

#### Global Networking: the way ahead

- Listing of technical needs
- Prioritisation
- Follow-up actions

#### General Conclusion of GGNF



**THANK YOU FOR YOUR ATTENTION AND ...**  
**YOUR COMMENTS ON NEXT STEPS**