FIRST REGULAR NATIONAL REPORT ON THE IMPLEMENTATION OF THE CARTAGENA PROTOCOL ON BIOSAFETY

Party:	Syrian Arab Republic		
Contact officer for report			
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Submission			
Signature of officer responsible for submitting report:			
Date of submission:	23 September 2007		
Time period covered by this report:	2005-2007		

Origin of report

Please provide summary information on the process by which this report has been prepared, including information on the types of stakeholders who have been actively involved in its preparation and on material which was used as a basis for the report:

National Focal Point of CBP in Ministry of Local Administration and Environment in Syrian Arab Republic Eng, Imad Hassoun the Deputy Minster invited the governmental and non governmental agencies which are related to Biosafety and Biotechnology, this agencies are determined in the National Biosafety Framework as following :

- 1- Atomic Energy Commission.
- 2- Ministry of Agriculture and Agrarian Reform (General Commission for Agricultural Scientific Researches).
- **3-** Ministry of Health.
- 4- General Commission for Biotechnology.
- 5- Ministry of Trade and Economy.

6- Non governmental Societies as (Syrian Society for conservation of wild).

Then they nominated Eng. Belal Alhayek, National Focal Point of BCH collaborating with Dr. Akram EIssa Darwich (Director of Biodiversity and Protected Areas)in the General Commission for Environmental Affairs) to prepare and to complete the National Report under supervisor Eng. Imad Hassoun (National Focal Point of CBP).

The meeting was held to discuss the contribution of governmental agencies in Biosafety and Biotechnology, a preliminary draft was prepared and discussed during a special meeting day.

The information which was brought by the partners was included in the draft. The draft was put in final form and translated into English to be signed and sent to the secretariat of CBD.

Obligations for provision of information to the Biosafety Clearing-House

1. Several articles of the Protocol require that information be provided to the Biosafety Clearing-House (see the list below). For your Government, if there are cases where relevant information exists but has not been provided to the Biosafety Clearing-House (BCH), describe any obstacles or impediments encountered regarding provision of that information (note: To answer this question, please check the BCH to determine the current status of your country's information submissions relative to the list of required information below. If you do not have access to the BCH, contact the Secretariat for a summary):

2. Please provide an overview of information that is required to be provided to the Biosafety Clearing-House:

Type of information	Information	Information	Information
	exists and is	exists but is not	does not exist
	being provided to	yet provided to	/not
	the Biosafety	the Biosafety	applicable
	Clearing-House	Clearing-House	
a) Existing national legislation, regulations and	Х		
guidelines for implementing the Protocol, as well			
as information required by Parties for the			
advance informed agreement procedure			
(Article 20.3(a))			
b) National laws, regulations and guidelines		Х	
applicable to the import of LMOs intended for			
direct use as food or feed, or for processing			
(Article 11.5);			

c) Bilateral, multilateral and regional agreements and arrangements (Articles 14.2, 20.3(b), and 24.1);	X	
d) Contact details for competent national authorities (Articles 19.2 and 19.3), national focal points (Articles 19.1 and 19.3), and emergency contacts (Article 17.2 and 17.3(e));	X	
e) In cases of multiple competent national authorities, responsibilities for each (Articles 19.2 and 19.3);	X- Ministry of Local Administration & Environment (General Commission for Environmental Affairs) is the National Competent Authority for the Biosafety Protocol, and the National Biosafety Framework consists of from : 1 - Ministry of Local Administration & Environment (General Commission for Environmental Affairs) if the LMOs are released to the Environment and used to solve the environmental problems. 2- Ministry of Health, if the	

	LMOs are used for pharmaceutica l uses. 3- Ministry of Agriculture and Agrarian Reform, if the LMOs are used for feed and planting. 4- Atomic Energy Commission, if the LMOs are used for food, processing. 5- General Commission of Biotechnology is responsible for Biotechnolo gy Researches. All the requests are sent as a copy to the BCH.	
operation of the Protocol (Article 20.3(e));	Α	
g) Occurrence of unintentional transboundary movements that are likely to have significant adverse effects on biological diversity (Article 17.1);		Х

Type of information	Information exists and is being provided to the Biosafety Clearing-House	Information exists but is not yet provided to the Biosafety Clearing-House	Information does not exist /not applicable
h) Illegal transboundary movements of LMOs (Article 25.3);			Х
i) Final decisions regarding the importation or release of LMOs (i.e. approval or prohibition, any conditions, requests for further information, extensions granted, reasons for decision) (Articles 10.3 and 20.3(d));		X	
j) Information on the application of domestic regulations to specific imports of LMOs (Article 14.4);			Х
k) Final decisions regarding the domestic use of LMOs that may be subject to transboundary movement for direct use as food or feed, or for processing (Article 11.1);			X- under development
 I) Final decisions regarding the import of LMOs intended for direct use as food or feed, or for processing that are taken under domestic regulatory frameworks (Article 11.4) or in accordance with annex III (Article 11.6) (requirement of Article 20.3(d)) 			X- under development
m) Declarations regarding the framework to be used for LMOs intended for direct use as food or feed, or for processing (Article 11.6)	X		
n) Review and change of decisions regarding intentional transboundary movements of LMOs (Article 12.1);			
o) LMOs granted exemption status by each Party (Article 13.1)			X- under development
p) Cases where intentional transboundary movement may take place at the same time as the movement is notified to the Party of import (Article 13.1);			X
q) Summaries of risk assessments or environmental reviews of LMOs generated by regulatory processes and relevant information regarding products thereof (Article 20.3(c)).			Х

Article 2 – General provisions

3. Has your country introduced the necessary legal, administrative and other measures for implementation of the Protocol? (Article 2.1)		
a) full domestic regulatory framework in place (please give details below)	X	
b) some measures introduced (please give details below)	X	
c) no measures yet taken		
4. Please provide further details about your response to the above question, as well a your country's experiences and progress in implementing Article 2, including any obsi impediments encountered:	s description of tacles or	
 impediments encountered: The mechanism to deal the applicants of importing and exporting of LMOs as following: The secretariat of requests submission (in General Commission for Environmental Affairs) Is sending it to the specialist Ministry which is send it to institutional Biosafety committee, after studying the requests the specialist Ministry send it to national Biosafety committee which is studying and evaluating the probably risks. The National Biosafety Committee is advising in accepting or rejection and then it is 		

depending on the view the national Biosafety committee. Finally the requests are sent to The secretariat of requests submission which is send it to ministry of Trade and Economy and to the applicants.

May be we will make some modification in This mechanism by Biosafety law which will be in to force next year.

Monitoring and executing: Ministry of Agriculture and Agrarian Reform must be inform the Ministry of Local Administration & Environment (General Commission for Environmental Affairs) about the requests of importing and exporting and in acceptance cases of release the LMOs into the environment with all information about this releasing upon 15 days.

- Ministry of Local Administration & Environment (General Commission for Environmental Affairs) has the monitoring rule and studying the impacts of LMOs on the Environment, Biodiversity.
- We prepared the guidelines of using the LMOs and the requirements of protection in the laboratories .

We are preparing the Biosafety law now in Syria

Articles 7 to 10 and 12: The advance informed agreement procedure

5.	Were you a Party of import during this reporting period?	
	a) yes	
	b) no	X

6. Were you a Party of export during this reporting period?		
a) yes		
b) no	X	
7. Is there a legal requirement for the accuracy of information provided by exporters jurisdiction of your country? (Article 8.2)	<u>1</u> / under the	
a) yes		
b) not yet, but under development	X	
c) no		
d) not applicable – not a Party of export		
8. If you were a Party of export during this reporting period, did you request any Par review a decision it had made under Article 10 on the grounds specified in Article 12.	ty of import to 2?	
a) yes (please give details below)		
b) not yet, but under development		
c) no	X	
d) not applicable – not a Party of export		
9. Did your country take decisions regarding import under domestic regulatory frame by Article 9.2(c).	eworks as allowed	
a) yes		
b) no		
c) not applicable – no decisions taken during the reporting period	X	
10. If your country has been a Party of export of LMOs intended for release into the environment during the reporting period, please describe your experiences and progress in implementing Articles 7 to 10 and 12, including any obstacles or impediments encountered:		
Our country is not exported party for LMOs which will release to the environment.		
11. If your country has taken decisions on import of LMOs intended for release into the environment during the reporting period, please describe your experiences and progress in implementing Articles 7 to 10 and 12, including any obstacles or impediments encountered:		
We have systems and legislations to transportation and using the LMOs, but their implementation still exclusive on researches not on the implementation monitoring system in the boundary side centres or shopping.		
Biosafety law.		

Article 11 – Procedure for living modified organisms intended for direct use as food or feed, or for processing

 $[\]underline{1}$ / The use of terms in the questions follows the meanings accorded to them under Article 3 of the Protocol.

12. Is there a legal requirement for the accuracy of information provided by the applicant with respect to the domestic use of a living modified organism that may be subject to transboundary movement for direct use as food or feed, or for processing? (Article 11.2) a) yes Х b) not yet, but under development c) no d) not applicable (please give details below) 13. Has your country indicated its needs for financial and technical assistance and capacity-building in respect of living modified organisms intended for direct use as food or feed, or for processing? (Article 11.9) yes (please give details below) Х a) b) no c) not relevant 14. Did your country take decisions regarding import under domestic regulatory frameworks as allowed by Article 11.4? Хunder a) yes development b) no c) not applicable – no decisions taken during the reporting period 15. If your country has been a Party of export of LMOs intended for direct use for food or feed, or for processing, during the reporting period, please describe your experiences and progress in implementing Article 11, including any obstacles or impediments encountered: Our country is not exported party for LMOs which will use to food, feed, or processing. 16. If your country has been a Party of import of LMOs intended for direct use for food or feed, or for processing, during the reporting period, please describe your experiences and progress in implementing Article 11, including any obstacles or impediments encountered:

Our country is not imported party for LMOs which will use to food, feed, or processing.

Article 13 – Simplified procedure

See question 1 regarding provision of information to the Biosafety Clearing-House.

17. Have you applied the simplified procedure during the reporting period?	
a) yes	
b) no	Х
18. If your country has used the simplified procedure during the reporting period, or i unable to do so for some reason, please describe your experiences in implementing Au	f you have been

unable to do so for some reason, please describe your experiences in implementing Article 13, includ any obstacles or impediments encountered:

Not found

Article 14 – Bilateral, regional and multilateral agreements and arrangements

19. Has your country entered into any bilateral, regional or multilateral agreements or arrangements?		
a) yes	Х	
b) no		

20. If your country has entered into bilateral, regional or multilateral agreements or arrangements, or if you have been unable to do so for some reason, describe your experiences in implementing Article 14 during the reporting period, including any obstacles or impediments encountered:

Look at to the following tables which document on the bilateral and multi agreements between our country and our neighbours.

Topics	Collaborators	
		Notes
Tritimed project : Exploiting the wheat genome to optimize water use in Mediterranean Ecosystems	EU funding: - UK: Rothamsted Research, - Univ of Bologna: Italy, - Barcelona Univ.Spain, - INRAT: Tunisia, - INRA: Morocco, - GCSAR & ICARDA: Syria	4- Years project.In progress.Started in Sept.2004
Improvement os olive oil quality and table olive varities (including: Molecular characterization of olive varieties in Syria in cooperation with Italy)	GCSAR- Italy	Project is in progress
Supporting Establishment and development of National Program in Agricultural Biotechnology at GCSAR, Syria in Cooperation with Republic of Belarus.	Republic of Belarus, GCSAR 2006	- under discussion-
Strengthening the national capacities in the field of biosafety in Syria	Project Proposal submitted to FAO	under evaluation
Improving the isolated microspore culture efficiency of some barley genotypes to produce green doubled haploids	ICARDA-GCSAR	In progress
Exchange of information concerning technologies of common interest: molecular genetics, biocomputation, genetic sequencing, genomics; - Definition of a "target-crop", possibly wheat or cotton.	SOUTH AMERICAN COUNTRIES- Syria (MAAR-GCSAR)	The workshop of Technical and Scientific cooperation between South American and Arab countries held in Fortaleza - Brazil during 29/9/- 1/10/2004 and the South American-Arab Summit, May 2005 represented by the Prime Minister of Syria
Development of National capacities in the field of biotechnology and genetic engineering in Syria	JICA-Japan and GCSAR	Submitted for evaluation

Canacity Building: Infrastructure/	AvH- GCSAR	Donation by AvH in 2004
Equinment donation (Photo		And approval of
		other equipment
aocumentation Imager,		donation in 2006
Spectrophotometer, Electroporator,		donation in 2000
Vortex Minishaker, labtop		
computer.(received)		
- Hybridization oven, Vacuum Oven, Roto-		
Shaker, Rotilabo-R-Mini centrifuge		
PCR, Polyacrylamide gel electrophoresis	Syngenta- GCSAR	Donation in
equipment with power supply		2004
Canacity Building:	IDB- Cornell	Post-Doc
- Evaluation of the hrpN gene	University NYSAES	Scholarship by
for increasing resistance to	USA- GCSAR	IDB on 1997-
fire blight in transgenic apple.		1998
- Transfer of a <i>prp1-1</i>		
promoter expressing <i>uidA</i> to		
M26 apple rootstock.		
Capacity Building:	AvH- Hannover Univ,	Post-Doc
Agrobacterium- mediated transformation of	LG Molecular genetic	Fellowship by
apple (Malus x domestica Borkh.) cv. Golden	Department- GCSAR	AvH at
Delicious using g2ps1 gene from Gerbera		Hannover
<i>hybrida</i> (Asteraceae) for improved fungal and		University,
insect resistance.		Germany
		2001-2003
Development of a genetic transformation	DAAD- Hannover	MSc degree
system for the improvement of breeding lines	Univ, LG Molecular	Scholarship by
of lentil (Lens culturits Medik) from Syria.	genetic Department-	DAAD 2000 2002
	UCSAK	2000-2002
Improvement of Chickpea (Cicer	IDB- Hannover Univ.	Ph.D Scholarship
arietinum L) through Genetic	LG Molecular genetic	by IDB on 2003-
Transformation	Department- GCSAR	2005
In vitro Micropropagation of some important	Alenno Univ Faculty	MSc degree
cherry rootstocks in Syria	of Agriculture GCSAR	2001
In vitro microtuberization of some important	Damascus Univ	MSc degree
varieties of potato	Faculty of Agriculture	2004
	GCSAR	
In vitro micropropagation of some important	Aleppo Univ. Faculty of	MSc degree
apple rootstocks in Syria	Agriculture, GCSAR	2006
Multiplication of some cherry cvs.	Aleppo Univ., Faculty	Ph. D degree
and Prunus rootstocks by plant tissue	of Agriculture, GCSAR	2006
culture techniques	0	
In vitro propagation of Juglans regia	Aleppo Univ., Faculty	MSc degree/ in
1 1 0 1 1 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 0	of Agriculture, GCSAR	progress
Molecular characterization an	Tishreen Univ., Faculty	MSc degree/ in
micropropagation of Rosa Damascena & H	of Agriculture, GCSAR	progress

Canina		
Agrobacterium-mediated transformation of	Aleppo Univ., Faculty	MSc degree
apple (Malus x domestica Borkh.) cv.	of Agriculture, GCSAR	Start March
Golden Delicious and rootstock MM1111 with		2006
g2ps1 gene from Gerbera hybrida		
(Asteraceae) for improved fungal resistance		
Detection of viroid and phytoplasma	Damascus Univ.,	Ph.D degree/
Diseases of stone and pome fruits using	Faculty of Agriculture,	under discussion
Molecular methods.	GCSAR	To start 2006
Molecular Characterization and In vitro	Tishreen University,	MSc degree/ in
propagation of Some Hawthorn Specie	Faculty of Agriculture,	progress
(Crataegus sp.) in Damascus Countryside.	GCSAR	
	INRA-France	Approved
Detection of Genetically Modified		not started yet
Organisms (GMOs) in foods and seeds		
Production of improved varieties of wheat and	GCSAR, GCBT (Syria)	Approved
barley by doubled haploids technique	- INRA (FRANCE),	**
Tissue culture of potato, date palm, banana,	GOSM (MAAR),	In progress
and ornamentals.	Faculty of Agriculture,	
- production of elite potato tubers	Aleppo University	
Identification of virus pathogens in different	ICARDA, and SHLQ	
plant species using diagnostic tools.	(MAAR) Faculty of	In progress
	Agriculture, Aleppo	in progress
	University	
Biological control of cotton bollworms, olive	FAAU, CRA and ORD	
moth, and suna pest of wheat, etc.	(MAAR), ICARDA,	In progress
	Faculty of Agriculture,	F Ø
	Aleppo University	
Genetic transformation of potato for virus	Gottengen Univ,	IDB Scholarship
resistance	Germany, GCSAR,	for Ph.D degree
	IDB, Kingdom Saudi	in blotechnology
	Arabia)	(2004-2006)
Construction of transgenic tomato tolerant to	Osaka Prefecture	Ph. D
the oxidative damage under environmental	University, Osaka.	scholarship, in
stress by introducing either Kat or SOD	Japan	progress "JICA,
enzymes".		Japan, GCSAR
A study of the wild species of the subgenus	Damascus Univ.,	<u> </u>
Vicia supgenuf in south Syria / field and	Faculty of Agriculture,	MSc dagraa
genetic characterization and evaluation of	GCSAR, IPGRI-	wise degree
nutrition value	CWANA	
Molecular genetic and ecological studies for	Damascus Univ.,	
the genus Pisum in Syria and nutritional value	Faculty of Agriculture,	Ph.D in progress
evaluation.	GCSAR, ICARDA	
Development of barley genotypes tolerant to	Damascus Univ.,	For Ph.D degree
	Ligonity of Agriculture	

international research institutions and universities.

Topic/ Project title	Collaborators	
		Notes
Production of transgenic Bt sugarbeet	ICGEB, Egypt, SAEC	
Biosafety gene transfer	ICARDA, SAEC	
Garlic viruses	Damacus Univ, Faculty of	
	Agri., SAEC	
Flowering in Cotton	GCSAR, SAEC	
Male sterility in insects	Aleppo Univ, Faculty of	
	Agri, Deir Ezzor, SAEC	
Human genetic diseases	Pakistan, SAEC	

Biotechnology-related activities conducted/underway at the Ministry of High Education Biotechnology-related activities conducted/underway at Tishreen University, faculty of Agriculture in cooperation with national and international research institutions and universities.

Topics	Collaborators	
		Notes
Development of DNA markers for Sitona resistance in <i>Lens</i> . using AFLP and RAPD techniques.	ICARDA- Faculty of Agriculture, Tishreen Univ.	Funded by the Arab Fund for Social and Economic
		AFESD
Mapping Adaptation of Barley to Drought Environments, using STMS markers.	ICARDA- Faculty of Agriculture, Tishreen Univ.	Funded by the EU)
Estimation of the genetic diversity in <i>Pinus</i> brutia in Syria using RAPD and AFLP markers	ICARDA- Faculty of Agriculture, Tishreen Univ.	(funded by IPGRI)
See also at GCSAR collaboration with Tishreen Univ.		

Biotechnology-related activities conducted/underway at the Faculty of Agriculture, Aleppo University in cooperation with national and international research institutions and universities.

Topics	Collaborators	Notos
		NULES
Identification of virus pathogens in different	ICARDA,	
plant species using diagnostic tools	and SHLQ (MAAR)	
Mapping QTLs associated to drought and	ICARDA	New activity
disease stresses in durum wheat	and Bologna Univ. (Italy)	2
Pathogen characterization of Fusarium spp.	ICARDA	New activity
of durum common root rot disease		
Development of polyclonal antibodies	ICARDA	
(antisera) as diagnostic tools for bacterial and		
viral pathogens in cereal and legume crops		
Pathogen characterization using Isozyme	ICARDA	
tools		
Nematode characterization using molecular	ICARDA	
genetic markers	and INRA (France)	
Bacterial characterization using molecular	IRD (France)	New activity
genetic markers		
Tissue culture of potato, date palm, banana,	GOSM (MAAR)	
and ornamentals		
Tissue culture on some varieties of fruit trees	FAAU	
Citric acid production using different strains	FAAU	
of Aspergillus nigr through fermentation		
process		
Biological control of cotton bollworms, olive	FAAU,	
moth, and sunn pest of wheat, etc	CRAand ORD (MAAR), and	
	ICARDA	

Biotechnology-related activities conducted / underway at Damascus University, Faculty of Agriculture in cooperation with national and international research institutions and universities.

Topics	Collaborators	
		Notes
Master of Science in Biotechnology \ TEMPUS	TEMPUS project CD-JEP- 30018-2002\ AGRENA (France), Ghent University (Belgium), Germany, Damascus Univ., GCBT, GCSAR, Tishreen Univ, Aleppo Univ.	In progress
Identification of DNA markers for selection of disease resistance genes in Barley	Damascus Univ., ICARDA	Ph.D thesis

Biotechnology-related activities conducted / underway at GCBT in cooperation with

national and international research institutions and universities.		
Topics	Collaborators	Notes
Establishment of General Commission of Biotechnology	GCBT, Indian Government	Already established and active

Cooperation programs related to biotechnology of ICARDA with Regional and International Organizations.

Topics	Collaborators	
		Note s
 -Joint workshops, conferences and training, - Exchange of germplasm. - Cooperation in providing technical backstopping and training requested by the National Components of the GEF/UNDP project on Conservation and Sustainable Use of Dryland Agrobiodiversity in Jordan, Lebanon, Palestinian Authority and Syria 	ACSAD - ICARDA	
 Joint training courses and information exchange ICARDA participates in the Collaborative Molecular Biotechnology Integrating Network (COMBINE) coordinated by CIHEAM Mediterranean Agronomic Institute of Chania. ICARDA is participating in a project on mapping adaptation of barley to drought environments, coordinated by CIHEAM. CIHEAM, ICARDA and FAO-RNE are co-conveners of a Network on Drought Management for the Near East, Mediterranean and Central Asia (NEMEDCA Drought Network). 	CIHEAM - ICARDA	
ICARDA and CIMMYT jointly coordinate a durum wheat research network encompassing WANA and southern Europe.	CIMMYT - ICARDA	
 ICARDA and FAO are co-sponsors of AARINENA. ICARDA participates in FAO's AGLINET cooperative library network, AGRIS and CARIS. ICARDA participates in the FAO/CIHEAM Cooperative Research Network on Sheep and Goats, Genetic Resources Sub-Network. ICARDA cooperates with the FAO Commission on Plant Genetic Resources. FAO-RNE, ICARDA and CIHEAM are co-conveners of a Network on Drought Management for the Near East, Mediterranean and Central Asia (NEMEDCA Drought Network). Joint training courses, workshops, publications and exchange of information including biotechnology 	FAO - ICARDA	
- ICARDA and ICRISAT cooperate in a joint kabuli chickpea	ICRISAT- ICARDA	

Legumes Asia Network (CLAN). IFPRI-ICARDA - Collaboration in policy and property rights research in CWANA through a joint staff appointment. IFPRI-ICARDA - ICARDA is participating in the Agricultural Science and Technology Indicators (ASTI) Initiative, led by IFPRI and ISNAR. IFPRI and ISNAR. - ICARDA is participating in the Challenge Program on Biofortified Crops for Improved Human Nutrition, led by IFPRI and CIAT IPGRI-ICARDA - ICARDA hosts and services the IPGRI Regional Office for Central and West Asia and North Africa (IPGRI-CWANA). IPGRI-ICARDA - ICARDA participates with other CG Centers in the Systemwide Genetic Resources Program, coordinated by IPGRI, in both plant and animal genetic resources. IPGRI-ICARDA - ICARDA collaborates with IPGRI in two sub-regional networks on genetic resources (WANANET and CATN/PGR). ICARDA is developing a global inventory of barley genetic resources within the framework of linking SINGER to crop networks. - IPGRI-CWANA is a partner with ICARDA in providing technical backstopping and training requested by the National Components of the GEF/UNDP project on Conservation and Sustainable Use of Dryland Agrobiodiversity in Jordan, Lebanon, Palestinian Authority and Syria. ISNAR - ICARDA
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- IFARDA and INNAR are co-sponsors of AARINENA FINNAR - IFARDA -
ISNAD neuticipates in the CCLAD Colleborative Descented
- ISNAK participates in the COTAK Collaborative Research
Asia and the Caucasus coordinated by ICARDA
- ICARDA is participating in the Agricultural Science and
Technology Indicators (ASTI) Initiative led by ISNAR and
IFPRI
- Development and conservation of plant genetic resources in Australian Winter
the Central Asian Republics Cereals Collection,
- Bread wheat landrace eco-geographic diversity studies Tamworth- ICARDA
- International collaboration in barley research Joint training University of Adelaide.
of a PhD student.
Plant Breeding, Waite
Campus- ICARDA
Development of ESTs using wild barley from ICARDA. Centre for Plant
Conservation Genetics,
Southern Cross
Development and concervation of plant genetic resources in CLIMA_ICADDA
the Control Agian Dowyhlice
Dreservation of the pulse and careal genetic resources of the
Vavilov Institute
- Durum wheat improvement NSW Agriculture
- Chicknes improvement Tanworth Centre for
- Identification of legume viruses and selection of legume Crop Improvement
germplasm for virus disease resistance Australia-ICARDA
- Host resistance epidemiology and integrated management

of faba bean, chickpea and lentil diseases.		
- Genetic improvement of resistance to Ascochyta blight and	University of	
Anthracnose in Lentil.	Saskatchewan,	
- Evaluation of chickpea for Ascochyta blight resistance.	Saskatoon, Australia-	
- Evaluation of chickpea germplasm and their wild relatives.	ICARDA	
- Genetic mapping in barley.	Denmark Risø National	
	Lab., Plant Biology and	
	Biogeochemistry	
	Department- ICARDA	
Production of doubled haploids in bread wheat and barley.	Université de Paris-	
	Sud, Labo Morphogenese	
	ICARDA	
- OTL analysis in barley	University of Bonn-	
	Germany ICARDA	
Development and use of DNA molecular markers for indirect	University of Frankfurt	
selection in chicknea	am Main- ICARDA	
Establishment of barley transformation system	University of Hamburg-	
	ICARDA	
Development of transformation protocols for chickpea and	University of	
lentil.	Hannover	
Diversity of storage proteins in durum wheat	University of Tuscia,	
	Viterbo., Italy -	
	ICARDA	
Evaluation and documentation of durum wheat genetic	University of Tuscia,	
resources	Viterbo; Germplasm	
	Institute, Barl; ENEA (Italian Research Agency	
	for New Technologies.	
	Energy and the Env.).	
	Rome- ICARDA	
Comparative genomics and cDNA microarray	JIRCAS- ICARDA	
technology for the identification of drought and cold		
inducible genes in model plants.		
Collaboration in molecular characterization of wheat	Kyoto University-	
wild relatives.	ICARDA	
Establishment of harley transformation system	Russian Institute of	
	Agricultural	
	Biotechnology,	
	Moscow- ICARDA	
- Genetic resources exchange, joint collection missions	The N.I. Vavilov All-	
and collaboration in genetic resources evaluation and	Russian Scientific	
documentation	Genetic Resources (VIR)	
- Bread wheat eco-geographic diversity studies	ICARDA	
Durum grain quality	University of Cordoba	
- Durum gram quanty.	Spain- ICARDA	
Use of microsatellite markers to characterize barley	Scottish Crop Research	
genetic resources of WANA.	Institute, UK- ICARDA	
Biodiversity of wheat wild relatives	University of	
Distriction of whom who fourives.	California, Riverside,	
	USA- ICARDA	
- Developing chickpea cultivars with resistance to Ascochyta	University of	

blight Study of genetic diversity in natural populations of	California, Davis,
Acgrops tausenii.	USA-ICARDA
Use of molecular markers for genome mapping and	ICARDA
marker-assisted selection for stress resistance in durum wheat.	ICARDA
- Spatial variability in lentil trials.	De De state de serie
Development of EST markers in wheat and lentils.	- DuPont Agric. Biotechnology USA-
	ICARDA
QTL estimation for disease data.	North Carolina State
	University, Department
	of Statistical Genetics,
-Molecular manning of barley within the North America	Oregon State
Barley Genome Manning project	University. USA-
- Identification of molecular markers associated with	ICARDA
resistance to diseases of barley	
Adaptation to drought and temperature stress in barley	Texas Tech University,
using molecular markers.	Plant Molecular Genetics
Development of functional genomics and single publication	Lab., ICARDA
nolymorphism platforms for cereals and legumes	ICARDA
Biological diversity cultural and economic value of	USDA/ARS-
medicinal herbal and aromatic plants in southern Tunisia	ICARDA
Development of bread wheat cultivars facilitated by	USDA/ARS Beltsville
microsatellite DNA markers	Agricultural Research
	Center, Beltsville,
Cana manning of according traits to allow morely	Maryland- ICARDA
- Gene mapping of economic trans to allow marker	Legume Genetics and
Exploitation of existing genetic resources of food legumes	Physiology Research,
- Exploitation of existing genetic resources of food regulies.	Pullman, Washington-
lentil for use in marker-assisted selection	ICARDA
- Conservation of temperate food pasture and forage	USDA/ARS Western
legume biodiversity	Regional Plant
- Conservation and collection of plant genetic resources	Introduction Station,
in Central Asia and the Caucasus.	Pullman, Washington-
Identification of vinue notherand in different plant environment	ICARDA
using diagnostic tools	ICAKDA, and SHLO (MAAD)
Manning OTLs associated to drought and disease stresses in	ICARDA and Rologna
durum wheat	Univ. (Italy)
Pathogen characterization of <i>Fusarium</i> spp. of durum	ICARDA-Aleppo
common root rot disease	Univ.
Development of polyclonal antibodies (antisera) as diagnostic	ICARDA- Aleppo
tools for bacterial and viral pathogens in cereal and legume	Univ.
crops	
Pathogen characterization using Isozyme tools	ICARDA- Aleppo Univ.
Nematode characterization using molecular genetic markers	ICARDA
Dislogical control of action hallowarman aligns worth and	and INKA (France)
Biological control of cotton bollworms, olive moth, and sunn	FAAU, UKD and

pest of wheat, etc	ORD (MAAR), and	
	ICARDA	
Development of doubled haploids in Durum and bread wheat	ICARDA, Settat	
and barley	(Morocco), Wad	
	Medani (Sudan),	
Gene Transfer technology / Establishment of a lentil	AGERI (Egypt),	
transformation system	ICARDA	

Articles 15 and 16 – Risk assessment and risk management

21. If you were a Party of import during this reporting period, were risk assessments carried out for all decisions taken under Article 10? (Article 15.2)		
a) yes		
b) no (please clarify below)	Х	
c) not a Party of import / no decisions taken under Article 10		
22. If yes to question 21, did you require the exporter to carry out the risk assessment	?	
a) yes – in all cases		
b) yes – in some cases (please specify the number and give further details below)		
c) no	Х	
d) not a Party of import / no decisions taken under Article 10		
23. If you took a decision under Article 10 during the reporting period, did you requir bear the cost of the risk assessment? (Article 15.3)	e the notifier to	
a) yes – in all cases		
b) yes – in some cases (please specify the number and give further details below)		
c) no		
d) not a Party of import / no decisions taken under Article 10		
24. Has your country established and maintained appropriate mechanisms, measures and strategies to regulate, manage and control risks identified in the risk assessment provisions of the Protocol? (Article 16.1)		
a) yes – fully established		
b) not yet, but under development or partially established (please give further details below)	Х	
c) no		
25. Has your country adopted appropriate measures to prevent unintentional transboundary mov of living modified organisms? (Article 16.3)		
a) yes – fully adopted		
b) not yet, but under development or partially adopted (please give further details below)	Х	

c) no		
26. Does your country endeavour to ensure that any living modified organism, whether imported or locally developed, undergoes an appropriate period of observation commensurate with its life-cycle or generation time before it is put to its intended use? (Article 16.4)		
a) yes – in all cases	Х	
b) yes – in some cases (please give further details below)		
c) no (please give further details below)		
d) not applicable (please give further details below)		
27. Has your country cooperated with others for the purposes specified in Article 16.5?		
a) yes (please give further details below)		
b) no (please give further details below)		
28. Please provide further details about your responses to the above questions, as well as description of your country's experiences and progress in implementing Articles 15 and 16, including any obstacles or impediments encountered:		
21.(b) , 22 (a) :No, but we take in our consideration the risk assessment system in the Biosafety law.		
 24 (b) :The National Biosafety committee was published the Biosafety guidelines in English & Arabic, with acceptance of prime minister NO. 1538/M/93 date 27 February 2001. The Biosafety guidelines were developed depending on global and national systems and legislations. 		

The Biosafety guidelines were secured that the environment is saved from the impacts of the LMOs and the participants researchers are saved also. All of this are secured from the research status to the marketing.

The Biosafety Guidelines are containing the instruments about the laboratory work, greenhouse, field and the recommendations in the release of the LMOs to the Environment status.

The core aim of Biosafety guidelines is to insure that the production and using the LMOs will be in the suitable place and form without bad impacts on the environment and human health.

25 (b) : This is take in our consideration in the Biosafety Law.

27 (a, b): Look at to the bilateral and multi agreements above.

Article 17 – Unintentional transboundary movements and emergency measures

29. During the reporting period, if there were any occurrences under your jurisdiction that led, or could have led, to an unintentional transboundary movement of a living modified organism that had, or could have had, significant adverse effects on the conservation and sustainable use of biological diversity, taking also into account risks to human health in such States, did you immediately consult the affected or potentially affected States for the purposes specified in Article 17.4?

a) yes – all relevant States immediately	
b) yes - partially consulted, or consultations were delayed (please clarify below)	
c) no – did not consult immediately (please clarify below)	
d) not applicable (no such occurrences)	Х
30. Please provide further details about your response to the above question, as well a your country's experiences in implementing Article 17, including any obstacles or implementered:	s description of pediments

Article 18 – Handling, transport, packaging and identification

31. Has your country taken measures to require that living modified organisms that are subject to transboundary movement within the scope of the Protocol are handled, packaged and transported under conditions of safety, taking into account relevant international rules and standards? (Article 18.1)

a) yes (please give details below)	X
b) not yet, but under development	
c) no	
d) not applicable (please clarify below)	

32. Has your country taken measures to require that documentation accompanying living modified organisms for direct use as food or feed, or for processing, clearly identifies that they 'may contain' living modified organisms and are not intended for intentional introduction into the environment, as well as a contact point for information? (Article 18.2(a))

a)	yes	Х
b)	not yet, but under development	
c)	no	

33. Has your country taken measures to require that documentation accompanying living modified organisms that are destined for contained use clearly identifies them as living modified organisms and specifies any requirements for the safe handling, storage, transport and use, the contact point for further information, including the name and address of the individual and institution to whom the living modified organisms are consigned? (Article 18.2(b))

a) yes	Х
b) not yet, but under development	
c) no	

34. Has your country adopted measures to require that documentation accompanying living modified organisms that are intended for intentional introduction into the environment of the Party of import and any other living modified organisms within the scope of the Protocol, clearly identifies them as living modified organisms; specifies the identity and relevant traits and/or characteristics, any requirements for the safe handling, storage, transport and use, the contact point for further information and, as appropriate, the name and address of the importer and exporter; and contains a declaration that the movement is in conformity with the requirements of this Protocol applicable to the exporter? (Article 18.2(c))

a) yes	X	
b) not yet, but under development		
c) no		

35. Please provide further details about your responses to the above questions, as well as a description of your country's experiences and progress in implementing Article 18, including any obstacles or impediments encountered:

- 31-32-33(a): Any manipulated product that is to be moved, imported and/or released must have the following information clearly and correctly affixed to the container or package, on a label that must be visible externally.
- General nature and quantity of the contents.
- Country and/or place where the product was collected, developed, manufactured, cultivated or reproduced.
- Name and address (including telephone and fax numbers) of the carrier and of the sender.
- Name, address (including telephone and fax numbers) of the consignee.
- Number of the plant health certificate for release and/or import.
- Production date, validity, and lot number.

34 (a): No person or institution shall release into the environment any GMO without the prior approval of the Syrian National Biosafety Committee (SNBC). However, approval by the SNBC does not in any way exempt the project proponent from complying with any rules, regulations or requirements of other government regulatory authorities. It is the sole responsibility of the project proponent to determine if the proposed genetic engineering work and /or planned release requires any permit, license or approval of such regulatory authorities, and to obtain the same if required. A plant health certificate, issued by the Syrian Ministry of Agriculture and Agrarian Reform (SMAAR), is required for the release into the environment and/or importation of transgenic products into the Syrian Arab Republic. Ministry of Environment must be informed of all planned releases of GMOs.

The Syrian National Biosafety Committee (SNBC) must be notified of any country-wide movement.

Article 19 – Competent national authorities and national focal points

See question 1 regarding provision of information to the Biosafety Clearing-House.

Article 20 – Information-sharing and the Biosafety Clearing-House

See question 1 regarding provision of information to the Biosafety Clearing-House.

36. In addition to the response to question 1, please describe any further details regarding your country's experiences and progress in implementing Article 20, including any obstacles or impediments encountered:

At the local level, we are working to insure that all the governmental , non governmental agencies and the public submit the monthly sheet which contains all the Biosafety and Biotechnology information in the world.

Article 21 – Confidential information

37. Does your country have procedures to protect confidential information received under the Protocol and that protect the confidentiality of such information in a manner no less favourable than its treatment of confidential information in connection with domestically produced living modified organisms? (Article 21.3)

a) yes		
b) not yet, but under development	X	
c) no		
38. If you were a Party of import during this reporting period, did you permit any notifier to identify information submitted under the procedures of the Protocol or required by the Party of import as part of the advance informed agreement procedure that was to be treated as confidential? (Article 21.1)		
a) yes		
If yes, please give number of cases		
b) no		
c) not applicable – not a Party of import / no such requests received	X	
39. If you answered yes to the previous question, please provide information on your experience including description of any impediments or difficulties encountered:		
40. If you were a Party of export during this reporting period, please describe any impediments or		

40. If you were a Party of export during this reporting period, please describe any impediments or difficulties encountered by you, or by exporters under your jurisdiction if information is available, in the implementation of the requirements of Article 21:

Article 22 – Capacity-building

41. If a developed country Party, during this reporting period has your country cooperated in the development and/or strengthening of human resources and institutional capacities in biosafety for the purposes of the effective implementation of the Protocol in developing country Parties, in particular the least developed and small island developing States among them, and in Parties with economies in transition?

a) yes (please give details below)	Х	
b) no		
c) not applicable – not a developed country Party		
42. If yes to question 41, how has such cooperation taken place:		
Look at to the bilateral and multi agreements above. Question No.20		
43. If a developing country Party, or Party with an economy in transition, during this reporting period has your country contributed to the development and/or strengthening of human resources and institutional capacities in biosafety for the purposes of the effective implementation of the Protocol in another developing country Party or Party with an economy in transition?		
a) yes (please give details below)		
b) no	Х	
c) not applicable – not a developing country Party		
44. If yes to question 43, how has such cooperation taken place:		
Look at to the bilateral and multi agreements above. Question No.20		
45. If a developing country Party or a Party with an economy in transition, have you benefited from cooperation for technical and scientific training in the proper and safe management of biotechnology to the extent that it is required for biosafety?		
a) yes – capacity-building needs fully met (please give details below)		
b) yes – capacity-building needs partially met (please give details below)	Х	
c) no – capacity-building needs remain unmet (please give details below)		
d) no – we have no unmet capacity-building needs in this area		
e) not applicable – not a developing country Party or a Party with an economy in transition		
46. If a developing country Party or a Party with an economy in transition, have you be cooperation for technical and scientific training in the use of risk assessment and risk rebiosafety?	penefited from management for	
a) yes – capacity-building needs fully met (please give details below)		
b) yes – capacity-building needs partially met (please give details below)		
c) no – capacity-building needs remain unmet (please give details below)	Х	
d) no – we have no unmet capacity-building needs in this area		
e) not applicable – not a developing country Party or a Party with an economy in transition		

47. If a developing country Party or a Party with an economy in transition, have you benefited from cooperation for technical and scientific training for enhancement of technological and institutional capacities in biosafety?

	a) yes – capacity-building needs fully met (please give details below)	
	b) yes – capacity-building needs partially met (please give details below)	
	c) no – capacity-building needs remain unmet (please give details below)	Х
	d) no – we have no unmet capacity-building needs in this area	
	e) not applicable – not a developing country Party or a Party with an economy in transition	
48	Please provide further details about your responses to the above questions as well	as description of

48. Please provide further details about your responses to the above questions, as well as description of your country's experiences and progress in implementing Article 22, including any obstacles or impediments encountered:

.Human capacity needs:

1. Syria needs experts in scientific fields related to risk analysis of GMOs and with sufficient knowledge on methods of risk analysis. There is a number experts in the Atomic Energy Commission, universities, and General Commission of Scientific Agricultural Research, in different fields of biology and agriculture. However, a few of them have experience in risk assessment and management. This lack of expertise can be overcome by extensive training some of those scientists in the field of risk analysis inside and outside the country. Also, we can use expertise from developed and developed countries (such as India and South Africa).

2. There is an urgent need in Syria for experts in short and long term monitoring of the impact of genetically modified organisms on the environment and human health.

3. There is also a need for socio economic experts to conduct studies on the impact of GMOs and their products on small farmers and indigenous communities.

Risk communication is an important component in the risk analysis process. It is necessary to have experts in this field so that people can be informed with risks in scientific and easy to manner so that the public can understand the information of the risk without becoming emotionally involved

Regional cooperation about risk assessment:

Syria shares natural borders with Turkey, Iraq, Lebanon, Palestine, Jordan, and Saudi Arabia. This necessitate cooperation in biosafety and risk analysis issues. In this regard we suggest the following:

1- Establishing a committee from the above mentioned countries that meets on regular basis to review ongoing activities in every country with regard to GMO release especially those with potential impact on human health and the environment and ways to avoid or minimize these impacts.

- 2- Harmonization between biosafety guidelines in these countries in line with international agreements and especially with Cartagena Protocol on Biosafety.
- 3- Unify efforts to study long term environmental effects by establish a common

center or distributing studies on regional institutes so that every body can participate in the efforts and share benefits.

As a conclusion it can be said that genetically modified plants have a number of benefits on the environment and biodiversity, and at the same time some potential risks which should be well understood and studied before such genetically modified plants are allowed in Syria.

Such plants or their products have not, officially entered the country, however, they're expected to enter in the next few years either through national institutes or importation or simply smuggling through the boarders from neighboring countries.

Biosafety in biotechnology research and applications and as well as risk analysis of the impact of GMOs on human health and the environment is the responsibility of both policy makers and scientists. This necessitates that all concerned institutes follow SNBC and international (Especially Cartagena Protocol) guidelines very carefully.

I- Infrastructure needs:

- The are is a lack of containment and confinement facilities for conducting environmental risk assessment in the institutes conducting genetic engineering work for environmental risk analysis studies. So there is a need to have suitable greenhouse and field containment facilities.
- Lack of appropriate facilities such as laboratories, including those appropriate for conducting relevant analyses and detection studies, especially for analyzing food for the presence of allergens or toxins.
- There is a need for detection laboratories at ports of entry.
- There is an urgent need for adequate access to internet to retrieve information to support risk assessments.

II- Other considerations

- Capacity building in public institutes in biotechnology and biosafety. That can be facilitated by:
 - 1. Evaluate available and needed capacity in human resources and the need for training.
 - 2. Provide necessary laboratory equipment.
 - 3. Promote cooperation with regional and international institutes in all fields of biotechnology and Biosafety.

Article 23 – Public awareness and participation

49. Does your country promote and facilitate public awareness, education and participation concerning the safe transfer, handling and use of living modified organisms in relation to the conservation and sustainable use of biological diversity, taking also into account risks to human health? (Article 23.1(a))

a) yes – significant extent	
b) yes – limited extent	Х
c) no	
50. If yes, do you cooperate with other States and international bodies?	
a) yes – significant extent	
b) yes – limited extent	Х

c) no		
51. Does your country endeavour to ensure that public awareness and education encompass access to information on living modified organisms identified in accordance with the Protocol that may be imported? (Article 23.1(b))		
a) yes – fully	Х	
b) yes – limited extent		
c) no		
52. Does your country, in accordance with its respective laws and regulations, consult the public in the decision-making process regarding living modified organisms and make the results of such decisions available to the public? (Article 23.2)		
a) yes – fully	Х	
b) yes – limited extent		
c) no		
53. Has your country informed its public about the means of public access to the Biosafety Clearing-House? (Article 23.3)		
a) yes – fully		
b) yes – limited extent	Х	
c) no		
54. Please provide further details about your responses to the above questions, as well as description of your country's experiences and progress in implementing Article 23, including any obstacles or impediments encountered:		

Article 24 – Non-Parties

See question 1 regarding provision of information to the Biosafety Clearing-House.

Article 25 – Illegal transboundary movements

57. Has your country adopted appropriate domestic measures to prevent and penalize, as appropriate, transboundary movements of living modified organisms carried out in contravention of its domestic measures? (Article 25.1)

a) yes	Х
b) no	
58. Have there been any illegal transboundary movements of living modified organism country during the reporting period?	ns into your

5		0	1	
a)	yes			
b)	no			Х

59. Please provide further details about your response to the above question, as well as description of your country's experiences in implementing Article 25, including any obstacles or impediments encountered:

Article 26 – *Socio-economic considerations*

60. If during this reporting period your country has taken a decision on import, did it take into account socio-economic considerations arising from the impact of living modified organisms on the conservation and sustainable use of biological diversity, especially with regard to the value of biological diversity to indigenous and local communities? (Article 26.1)

a) yes – significant extent	Х
b) yes – limited extent	
c) no	
d) not a Party of import	

61. Has your country cooperated with other Parties on research and information exchange on any socioeconomic impacts of living modified organisms, especially on indigenous and local communities? (Article 26.2)

a) yes -	- significant extent	
b) yes -	- limited extent	X- Look at to the question No 20
c) no		
() Di		1

62. Please provide further details about your responses to the above questions, as well as description of your country's experiences and progress in implementing Article 26, including any obstacles or impediments encountered:

Article 28 – Financial mechanism and resources

63. Please indicate if, during the reporting period, your Government made financial resources available to other Parties or received financial resources from other Parties or financial institutions, for the purposes of implementation of the Protocol.

a) yes – made financial resources available to other Parties

b) yes – received financial resources from other Parties or financial institutions	X		
c) both			
d) neither			
64. Please provide further details about your response to the above question, as well as description of your country's experiences, including any obstacles or impediments encountered:			
We had financial support from GEF-UNEP to :			
Executing the Development of National Biosafety Framework Project.			
We are in position to have the financial support to execute the BCH Project			

Other information

65. Please use this box to provide any other information related to articles of the Protocol, questions in the reporting format, or other issues related to national implementation of the Protocol:						
Competent national authorities are:						
1- Ministry of Local Administration & Environment(General Commission for Environmental Affairs).						
2- Atomic Energy Commission.						
3- Ministry of Agriculture and Agrarian reform (General Commission for Agricultural Scientific Researches).						
4- Ministry of Health.						
5- General Commission for Biotechnology.						
National focal points are:						
- Eng. Imad Hassoun/ Deputy minister of Local Administration & Environment.						
National focal point of CBP.						
P.O.BOX 3773, Damascus –Syria						
Tel/Fax: +963 11 4447608						
Mob:+963 944 785350						
E-mail:						
imadh@gmx.net/ Imadhassoun51@yahoo.co.uk						
- Eng. Belal Alhayek/ Chief of Biosafety Division						
National Focal Point of BCH.						
B.O.X 3773 Damascus – Syria						
Tel/Fax: +963 11 4447608						
Mob:+963 947 451588						
E-mail: bilalalhayk@yahoo.com						

Comments on reporting format

The wording of these questions is based on the Articles of the Protocol. Please provide information on any difficulties that you have encountered in interpreting the wording of these questions: