



Fourth Edition of the : **UNIVPM - UNIDO E-Biosafety Master**  
**Second ON CAMPUS week**

**SCUOLA DI DOTTORATO DELLA FACOLTA' DI AGRARIA**

Ancona, July 04 – 08, 2011

The ability of developing countries to institutionalize adequate safety systems and enforce regulation in biotechnology is a vital element in their efforts to exploit current and emerging biotechnology opportunities. It is widely recognized that the lack of expertise in regulation is a major bottleneck for these countries to reap the benefits of biotechnology at the research, industry and government level. The need to strengthen professional expertise in biosafety regulations has thus become a wide-spread national and international priority. In reality similar needs are also of interest also for EU and other developed countries facing the necessity to manage the introduction and application of plant biotechnologies.

Within this context UNIDO ICS is organizing a Training Course on "E-Biosafety: ON CAMPUS week", in cooperation with Marche Polytechnic University (MPU) Ancona, Italy which will be held in Ancona, Italy, on 4-8 July 2011.

The Training Course will feature lectures with EFSA's senior experts as well as hands-on case studies on the procedure involved in evaluating biotechnology application dossiers. The course provides students with the unique opportunity to develop advanced skills in formulating and assessing applications for environmental releases and/or food & feed use of biotechnology-derived products through practical training provided by renowned and experienced competent institution like the MPU.

Sessions planned in collaboration with EFSA experts will have the aim to introduce the main aspects related to food and environmental risk assessment on products derived by biotechnology applications. Aspects related to the general procedures and steps involved in processing applications in respect of the existing rules, will be also addressed.

During the Training Course, an ad-hoc Symposium held by ICS-UNIDO will aim to discuss the role of different institutions in the definitions, application and management of rules related to food safety in different sectors as well as strategies for setting-up capacity building facilities in developing countries. The major technical aspects related to the definition and control of food safety standards will be also discussed.

The program will include contributions from delegates from the Italian Ministry of Environment, presenting an overview of the ongoing programs related to the promotion of more efficient governance of risk assessment programs (<http://bch.minambiente.it>).

Thanks to a collaboration started with NEPAD (<http://www.nepad.org/>) and international organization focused on programs for the African countries, the needs and priorities of specific countries in this geographical area will also be discussed.

Specific discussion will be held concerning the importance of IT in facilitating through E-Learning programs the capacity building of developing countries.

At the end of the program, participants will have more knowledge on how to conduct risk assessments and apply risk management options for biotechnology-derived food and feed products. It is expected that the participants will also improve their skills in dealing with public policy issues at the interface of science, governance, industry and civil society.

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**Tuesday 05, July 2011**  
**ROOM M AULA MAGNA**  
**ICS-UNIDO Mini symposium on Biosafety**

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July 03, 2011 Arrival to Ancona

<b><u>Monday 04, July 2011</u></b> <b><u>ROOM M AULA MAGNA</u></b>		
<b>8:30</b>	Registration	Faculty Hall
<b>09:30</b>	Welcome and Introduction UNIDO-UNIVPM E-Biosafety Program, activities, purpose of training	Emilio Vento Stefano Bologna Bruno Mezzetti Harry Kuiper
<b>09:45</b>	Tour de Table and Introduction to EFSA	Yi Liu
<b>10:00</b>	Break	
	<b><i>Molecular Characterization and Food/Feed Safety Assessment</i></b>	
<b>10:15</b>	Introduction (EC) No. 1829/2003	Yi Liu
<b>10:45</b>	Components of the Risk Assessment Food/Feed	Harry Kuiper
<b>11:45</b>	Discussion and Feedback session	Claudia Paoletti and Harry Kuiper
<b>12:15</b>	Lunch	
	<b><i>Environmental Risk Assessment</i></b>	
<b>13:15</b>	Introduction Directive 2001/18	Reinhilde Schoonjans
<b>13:45</b>	Components environmental risk assessment	Jeremy Sweet
<b>14:30</b>	Environmental impacts and case study MON810 maize	Jeremy Sweet
<b>15:15</b>	Discussion and Feedback session	Reinhilde Schoonjans and Jeremy Sweet
	<b><i>Risk Communication</i></b>	
<b>16:00</b>	Risk assessment communication strategy for EFSA and its GMO panel	Reinhilde Schoonjans
<b>16:30</b>	Process for generating an opinion from a national competent authority: the case study of Italy.	Stefano Gomes
<b>17:00</b>	Discussion and Feedback session	Reinhilde Schoonjans
<b>17:20</b>	Ending of UNIDO - EFSA workshop	Reinhilde Schoonjans, George Tzotzos, Emio Vento
<b>17:30</b>	Ending of day	

09:15	Welcome	Rector UPM
09:30	Introduction to UNIDO ICS Programs	Emilio Vento - Stefano Bologna
09:45	IAI – Ionian Adriatic Initiatives	Fabio Pigliapoco
10:00	Governance and communication from a national competent authority	Stefano Gomes
10:30	Status of Agricultural Biotechnology and Biosafety in Africa.	<u>Diran Makinde</u>
11:00	Break	
11:30	Biosafety related programs at Michigan State University	Rebecca Grumet
12:00	UPM-UVR Biotech programs	Bruno Mezzetti / Tiziana Pandolfini
12:30	<i>Discussion</i>	
13:00	<i>Lunch</i>	
14:30	Production of genetically engineered crops, relationship to conventional plant breeding and implications for safety assessment	Rebecca Grumet
15:15	The importance of science communication: the case of the Flanders GM potato field trial	Godelieve Gheysen
15:45	NMR metabolic profiles as a tool for GMO safety.	Francesco Capozzi
16:15	<i>Break</i>	
16:30	GMOs and Pesticides	Costantino Vischetti
17:00	Strategies to Control Foodborne Pathogens	Francesca Clementi – Andrea Osimani
17:30	Building Trust in Agro-biotechnology Projects: Lessons from the Field	Obidimma Ezezika
17.45	ICS IT program for long distance learning	Terry Peterson
18:00	Group discussion	
18.30	End of the day	

**Wednesday 06, July 2011**  
**ROOM M AULA MAGNA**

<i>Biosafety, bio-ethical and legal aspects of biotech</i>		
09:00	How a National competent Authority evaluate a dossier	Stefano Gomes
9:45	Bioregulatory issues	Ine Pertry
10:30	<i>Break</i>	
11.15	Food and feed safety	Ine Pertry
12:00	Transgene containment	Ine Pertry
12:30	<i>Discussion</i>	
13:00	<i>Lunch</i>	
<i>Biosafety, bio-ethical and legal aspects of biotech</i>		
14:30	Plant biotech: history & state of the art	Sylvia Burssens
15:30	Introduction to bio-ethics	Sylvia Burssens
16:30	Public perception and communication	Sylvia Burssens
17:00	Case studies by FURARN dtree	Ine Pertry

17:30	Discussion	
18:00	End of the day	
20:00	Joint Dinner	

**Thursday 07, July 2011**  
**ROOM M AULA MAGNA**

9:00	Gene Silencing technology: case study for virus resistance in fruit cultivars and rootstocks	Bruno Mezzetti – Silvia Sabbadini – Daniela Palma – Luca Girolomini
<u>10.45</u>	<i>Break</i>	
11:15	Environmental Risk assessment Lecture and case studies	Jeremy Sweet Bruno Mezzetti
13:00	Lunch	
14:30	Environmental Risk assessment Lecture and case studies	George Tzotzos Bruno Mezzetti
16:00	Break	
16:30	Introduction to dissertation guidelines and discussion	Bruno Mezzetti
18:00	End of the day	

**Friday 08, July 2011**  
**ROOM M AULA MAGNA**

09:00	Written exam – for UPM E-Biosafety Trainees	Bruno Mezzetti and all the group
12:30	Lunch	
15:00	Discussion on Dissertation topics	Bruno Mezzetti and all the group
17:30	Ending of the on campus	

## LIST OF PARTICIPANTS

To be completed

	Name	Country	Role
1	Ngatia Lucy Niathgora	Kenya	Ancona E-Biosafety Trainee - ICS Grant
2	Tarico Ma. Fernanda	Argentina	Ancona E-Biosafety Trainee - ICS Grant
3	Asamaoh-Okyere Kwame	Ghana	Ancona E-Biosafety Trainee - ICS Grant
4	Karwa Anup	India	Ancona E-Biosafety Trainee - ICS Grant
5	Lemgo Godwin Nana Yaw	Ghana	ICS Grant - UPM Ancona
6	Afriye Debrah Charles	Ghana	Ancona E-Biosafety Trainee – Italian Environment Minister Grant
7	Okiro Lilian	Kenya	Ancona E-Biosafety Trainee – Italian Environment Minister Grant
8	Munyao William	Kenya	Ancona E-Biosafety Trainee – Italian Environment Minister Grant
9	Gorrettie Ssemakula	Uganda	Gent E-Biosafety Trainee
10	Margaret Aleke	Kenya	Gent E-Biosafety Trainee
11	Jiang Kan	China	Gent E-Biosafety Trainee
12	Hongwei Yao	China	Gent E-Biosafety Trainee
13	Silvia Sabbadini	Ancona IT	UPM – PhD Student
14	Luca Girolomini	Ancona IT	UPM – PhD Student
15	Mincarelli Laura	Ancona IT	UVR – PhD Student
16	Daniela Palma	Verona IT	UVR – PhD Student
	George Tzotzos	Austria	International Faculty - Visiting Professor, Plant Biotechnology and Genetics, Univ. of Gent
17	Magnus Bosse	Austria	E-Biosafety Tutor
18	Stefano Bologna	Trieste IT	UNIDO – ICS
19	Terry Peterson	Trieste IT	UNIDO – ICS
20	Emilio Vento	Trieste IT	UNIDO – ICS
21	Stefano Bologna	Trieste IT	UNIDO – ICS
22	Emanuela Corazzi	Trieste IT	UNIDO – ICS
23	Harry Kuiper	Netherlands	EFSA – International Faculty
24	Jeremy Sweet	UK	EFSA – International Faculty
25	Yi Liu	IT	Yi.LIU@efsa.europa.eu
26	SCHOONJANS Reinhilde	BE	Reinhilde.SCHOONJANS@efsa.europa.eu
27	Gomes Stefano	Italy	Ministry of Environment
26	Bruno Mezzetti	Ancona IT	UPM Coordinator – International Faculty
27	Costantino Vichetti	Ancona IT	UPM –Professor – Chemistry
28	Francesca Clementi	Ancona IT	UPM –Professor – Microbiology

29	Tiziana Pandolfini	Verona IT	Università degli studi di Verona
30	Godelieve Gheysen	Belgium	Ghent University
31	Sylvia Burssens	Belgium	Ghent University
32	Ine Pertry	Belgium	Ghent University
33	Diran Makinde	Burkina Faso	NEPAD – African Union
34	Labaran Ahmed	Nigeria	NEPAD – African Union
35	Madjelia SOME	Burkina Faso	NEPAD – African Union
36	Rebecca Grumet	USA	Michigan State University
37	Obidimma Ezezika	Nigeria	McLaughlin-Rotman Centre for Global Health - University Health Network - University of Toronto
38	Villalobos, Ivan	Costa Rica	Regulatory Specialist, Dow Agro Sciences Central America.
39	Elmostafa EL FAHIME	Marocco	
40	Francesco Capozzi	Cesena IT	University of Bologna
41	Fabio Pigliapoco	Ancona IT	IAI – Ionian Adriatic Initiatives