



FOOD INSTITUTE

International Workshop on GMO Detection and Analysis

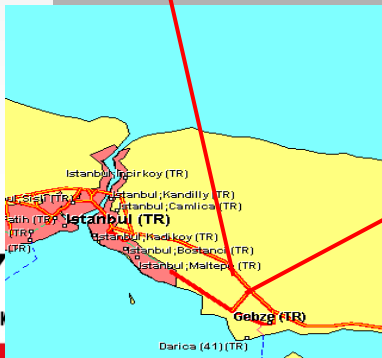
JRC-TAIEX-TUBITAK MRC Food Institute

Assoc. Prof. Dr. Güner ÖZAY
Director

27-28 April 2009
Istanbul

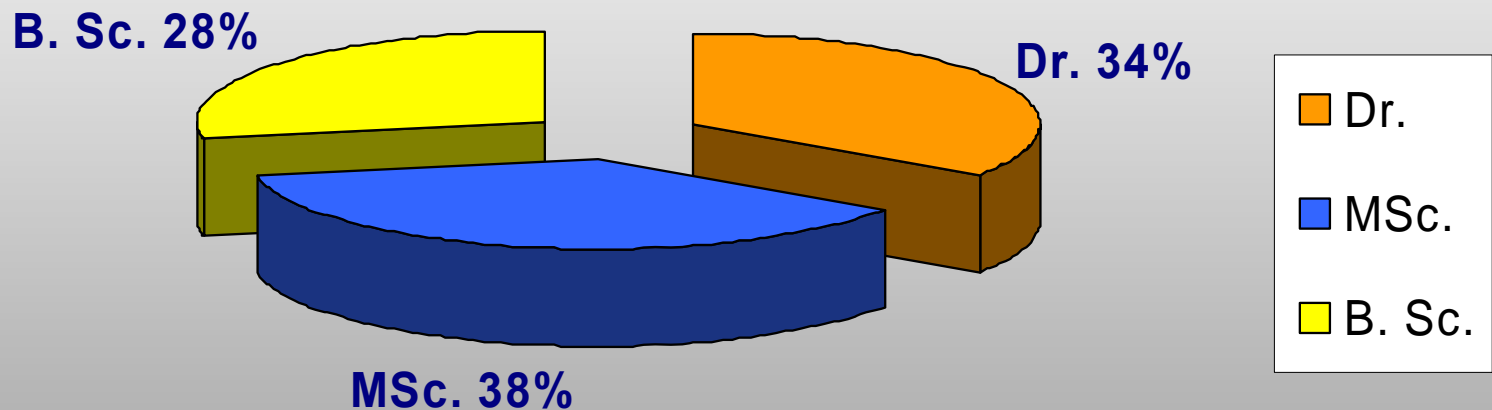
TÜBİTAK-MRC

MARMARA RESEARCH CENTER FOUNDED IN 1972 OVER NEARLY 8 SQ KMS (2,000 ACRES) BEAUTIFUL PIECE OF LAND ON THE NORTH SHORE OF İZMİT BAY, SETS A GOOD EXAMPLE OF CAMPUS TYPE RESEARCH ESTABLISHMENT.



Food Institute Researcher profile

Researchers



Female (total): %40

Female (researchers) : %50

STRATEGIC BUSINESS UNITS (SBUs)

- **Food Science and Technologies**
- **Nutrition and Functional Foods**
- **Food Microbiology & Biotechnology**



R&D Fields

- ⊕ Assurance of food safety (microbiological and chemical)
- Development/improvement of food processing and preservation technologies, new product development
- ⊕ Improvement of yield and quality in production
- ⊕ Utilisation of by products and wastes
- ⊕ Nutrition and health relations (clinical studies)
- ⊕ Residues and contaminants



QC analyses

(Chemical, physical, microbiology)



⊕ Autocontrol, national regulations, production licence, labelling

⊕ Export products- international (EU) regulations



- Residue and contaminants
- Adulteration in foodstuffs
- Pathogens Lab
- Food molecular biology labotaroy (New)



FOOD INSTITUTE

DAP Deutsches Akkreditierungssystem Prüfwesen GmbH
represented in the

Deutschen AkkreditierungsRat



Accreditation

The DAP Deutsches Akkreditierungssystem Prüfwesen GmbH herewith confirms that the

**TÜBITAK
MARMARA RESEARCH CENTER
FOOD SCIENCE AND TECHNOLOGY RESEARCH INSTITUTE**

**TÜBITAK-MAM / GBTAЕ Gebze
41470 KOCAELI
Turkey**

with its

Food analysis laboratories
GBTAЕ Gebze
41470 Kocaeli

MegaLab
Kocatepe mah. 12
34170 Bayrampasa / Istanbul

is competent under the terms of ISO/IEC 17025:1999 to carry out tests in the fields

**Selected chemical, chemical-physical and micro-biological analysis of food stuff;
Selected microbiological analysis of drinking water, spring water, tap water,
mineral water and sea water**

for the testing fields listed in the annex.

The laboratory has proved for its testing activities it operates a quality management which also complies with the requirements of ISO 9002:1994.

The accreditation is valid from 11-04-2001 to 10-04-2006.

DAR registration number: **DAP-PL-3452.00**
Berlin, 11-04-2001



Dr.-Ing. K. Berner
Managing Director
DAP Deutsches Akkreditierungssystem
Prüfwesen GmbH

Dr. Rüdiger Schachtel
Responsible assessor for DAP GmbH
TUV Umwelt/Berlin-Brandenburg GmbH
Institut Dr. Scheutwinkel
Berlin

Translation for information purposes only. The German certificate is authoritative.
See notes overleaf. 2nd issue



DAP-PL-345200



Training

- ⊕ **Annually programmed**
 - + Specific programmes for individuals / groups
- **International**
(UNIDO – Fruits-Vegetable Processing, Food Safety)



Consultancy

- Establishment and accreditation of Food Analysis Laboratories
- Auditing Food Safety Assurance Systems for Hypermarkets Stores and Their Suppliers
- *Private Label* products (QC)
- Technical problem solving in production lines
- Establishment of ISO 9000, HACCP, GMP Systems (many companies)

R&D PROJECTS (EU FP)

Instrument	Acronym	Project Title	leader	Total budget (Avro)	Budget (Avro)	Start	Time (month)
IP	QUALITYLOWIN PUTFOOD	Improving Quality and Safety and Reduction of Cost in the European Organic and "Low Input" Food Supply Chains	Dr. Hülya Ölmez	12.444.696	215.150	01.03.2004	48
CA	SAFEFOODERA	Food Safety-Forming a European Platform for Protecting Consumers Against Health Risks	Doç. Dr. Güner Özay	3.740.691	30.600	01.08.2004	48
STREP	HEATOX	Heat Generated Food Toxicans Identification, Characterisation and Risk Minimisation	Dr. Hülya Ölmez	4.199.915	176.500	01.11.2003	36
SSA	MYCOGLOBE	Integration of Mycotoxins and Toxic Moulds in the Global System for Food safety	Doç. Dr. Güner Özay	320.000	-	2004	36
SSA	FOODLINK	Linking ACC and EU MS food sectors with a view to higher level of participation in the FP6 projects	Dr. Mehlika Borcaklı	200.000	15.500	15.04.2005	18
NOE	EuroFir	European Food Information Resource Network	Gül Biringen Löker	770.760*	53.643*	01.01.2005	60
CRAFT	FERBEV	Improving the processing of four fermented beverages from Eastern European Countries	Dr. Mehlika Borcaklı	1.900.000	140.000	15.9.2005	24
SSA	SAFEFOODNET	Food Safety and Hygiene Networking with new Eu Member States and Associated Candidate Countries	Dr. Mehlika Borcaklı	360.000	35.000	1.8.2006	36
NOE	MONIQA	The Harmonisation Of Analytical Methods Regarding Monitoring The Hazards For Monitoring Food Quality And Safety In The Food Supply Chain	Dr. Sena Ayyıldız	2.959359	90.099*	23.2.2007	36

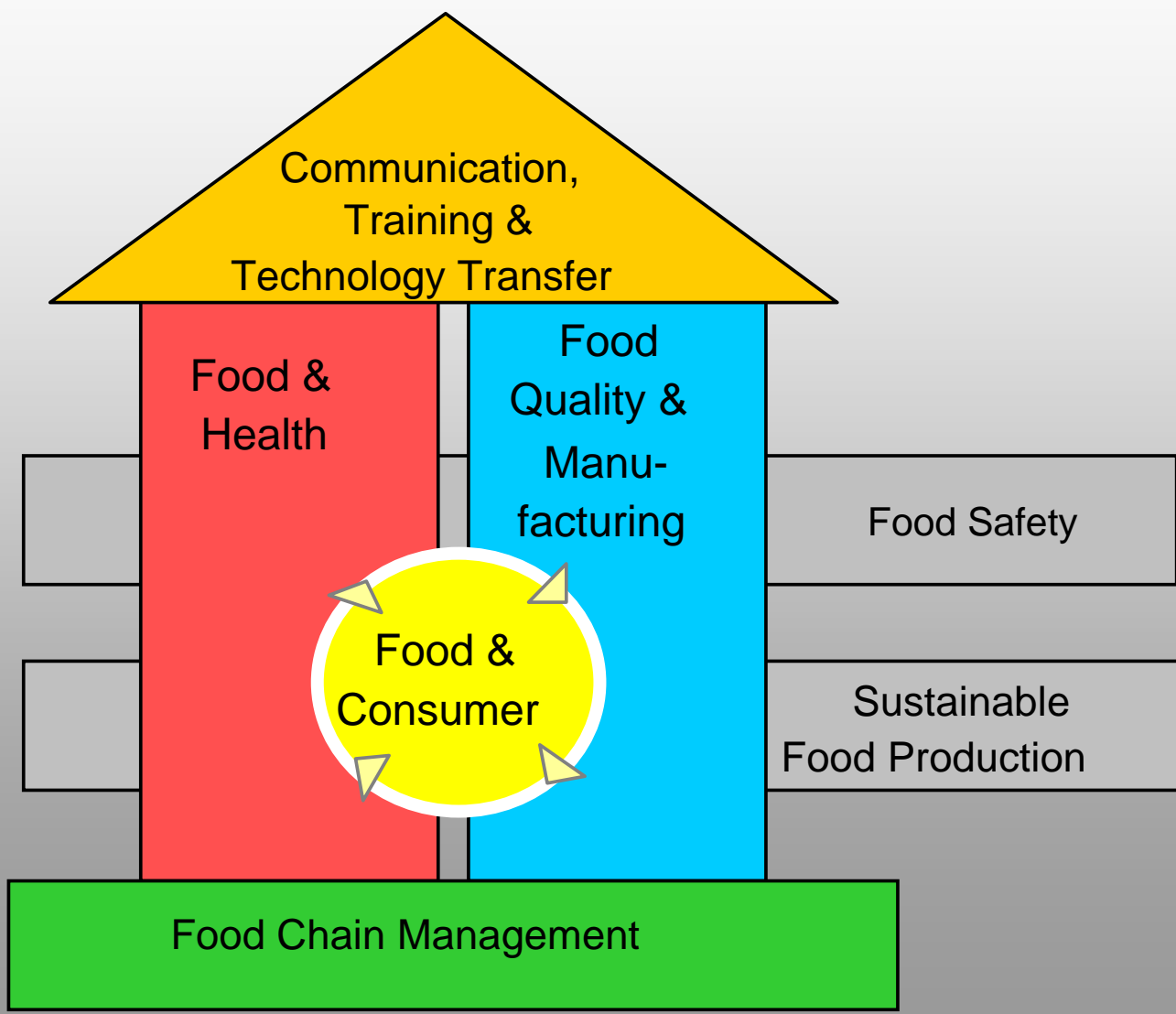




National Consultation,
Istanbul
8th November, 2006

<http://etp.ciaa.be>

European Technology Platform Food for Life



INTERNATIONAL CONGRESS



3rd

INTERNATIONAL CONGRESS on FOOD and NUTRITION

sub-event

EU Quality Low-Input Food Project
Final Conference



22 - 25 April 2009
Antalya, Turkey

www.tubitak-food2009.org



Antalya

22-25 April 2009

Activities on GMOs

- **First accredited GMO lab has been established in 2002**



Activities on GMOs

ESTABLISHMENT of FOOD MOLECULAR BIOLOGY LAB (2007-2008)

Qualitative and **quantitative** determinations of GMOs are in the scope of **accreditation**



GMO workshop in Turkey

- Decided during a visit of a high level Turkish delegation to JRC ISPA, September 2006
- Included in the MoU -**Action points** signed between JRC-TUBITAK, 2007
- Additionally, JRC Training programme on **practical application** on GMO analysis will be organised in **2010**, TUBITAK MRC Food Institute laboratories

GMOs

- The use of GMOs and their utilisation as food , food ingredient and animal feed are the major food safety concern
- Regulated in EU by directive (2001/18/EC) and regulation (EC No 1829/2003)
- Safety assesment
- Harmonised, reliable and validated analytical methods are needed to control and monitor of GM foods



GMO workshop in Turkey

This workshop will contribute highly:

- to improve the scientific and technical competence of the testing methods for the participant institutions,
- Quality assurance for GMO testing laboratories
- Labelling information
- Update the information on EC regulations on GMOs.
- Sharing experience of new member states and Turkey
- Integration, capacity building and future collaboration (ENGL network)



TUBITAK

MAM

THANK YOU

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