

Capacity-building workshops

A Productive Contributor to BSP Implementation

- Coordinates input from private sector developers and users of biotechnology – led by CropLife International
- Is a recognized observer organisation for global industry within the Protocol implementation process
- Closely coordinates with Industry Stakeholders, including the grain and seed trades
- Industry partners in over 25 countries
- Develops positions ‘locally’ that are shared ‘globally’
- Has a respected and positive reputation in the BSP forum

Laboratory Training must be focused on the locally relevant methods

- While a laboratory in a high resource country may contain multiple RTPCR machines or other equipment,
 - a laboratory with less resources may be operating with gel-based or more appropriate protein-based testing.
- Equipment maintenance and retention of skilled technical staff is a high cost for operations

Coordinating Workshops

Workshops have already been occurring for many years.

How AACCC organised our workshops to get the maximum benefit

- First part (attended by all) gives the background and high level context
 - Global knowledge and context
 - Overview of the DNA and protein-based methods
 - Overview of sampling issues
- Second part (for technical staff) covers the technical details
- Laboratory exercises (can include non-experts)
- Discussion of results and observations

Are laboratories that need Capacity building generally located?

- e.g. Africa, Caribbean, S.E.Asia, Pacific islands
 - Also S.America
-
- And where have we already carried out training?

Sampling and Detection Methods

Capacity Building by ILSI and AACC

- Requested by Local Governments, Networks
 - Collaborative effort among AACC, ILSI branches, local governments and other organisations
- | | |
|---|--|
| <ul style="list-style-type: none">• USA (2001, 2002, 2005, 2007)• Argentina/LATAM (2002, 2007) | <ul style="list-style-type: none">• Colombia (2008)• Singapore/SE Asia (2008, 2011) |
| <ul style="list-style-type: none">• Brazil, (2002, 2007, 2009, 2011, 2014)• India (2003, 2011)• Hungary (2004 for CCMAS)• Japan (2004, 2010)• Chile (2005, 2008)• China (2005, 2009) | <ul style="list-style-type: none">• Philippines (2009)• Paraguay (2010)• Korea (2011)• Mexico (2012)• Peru (2014)• Caribbean (2015) |

In which countries are participants that have received AACCI training located ?





About AACCC International

- **Global association of more than 2,000 scientists and food industry professionals from 70 countries**
- **Working to advance the understanding and knowledge of grain science**
 - ✓ **Wheat, barley, rye ... oats, rice, corn**
- **Product development, research, leadership, education, superior technical service, and advocacy**



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ISTA capacity Building Workshops

- From 2001 to 2015 ISTA carried out >24 workshops concerning GMO identification and detection.

- | | |
|---------------|----------------|
| • Argentina | • India |
| • Brazil | • Iran |
| • China | • Jamaica |
| • Croatia | • Mexico |
| • Egypt | • Slovenia |
| • Switzerland | • South Africa |
| • France | • Thailand |
| • Italy | • Turkey |
| • Germany | • Uruguay |
| | • USA |



Country	Value (USD million)	Country	Value (USD million)
USA	12,000	Morocco	140
China	9,950	Switzerland	140
France	2,800	Bulgaria	120
Brazil	2,625	Chile	120
Canada	2,120	Nigeria	120
India	2,000	Serbia	120
Japan	1,350	Slovakia	110
Germany	1,170	New Zealand	100
Argentina	990	Uruguay	96
Italy	767	Ireland	80
Turkey	750	Paraguay	80
Spain	660	Portugal	80
Netherlands	590	Algeria	70
Russian Federation	500	Kenya	60
United Kingdom	450	Iran	55
South Africa	428	Israel	50
Australia	400	Tunisia	45
Republic of Korea	400	Bolivia	40
Mexico	350	Colombia	40
Czech Republic	305	Slovenia	40
Hungary	300	Peru	30
China, Taiwan	300	Zimbabwe	30
Poland	280	Malawi	26
Sweden	250	Libya	25
Romania	220	Saudi Arabia	20
Denmark	218	Zambia	20
Greece	200	Philippines	18
Belgium	185	Ecuador	15
Finland	160	Tanzania	15
Austria	145	Uganda	10
Egypt	140	Dominican Republic	7

Total USD 44,925 million (2013 figures)

The commercial world seed market is assessed at approx. USD 45 billion

Why are ISTA workshops important?

6 of the top 10 commercial markets for seed are growing LMO crops

Data from:
ISF 2014
ISAAA 2014

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Some conclusions

- Many workshops – can we coordinate better?
- Lots of International organisations that are active in this area
- Testing training is not spread evenly
- Have not coordinated and worked together
- Funding?