

Online Biotechnology Plant Resources – January 2012

General information:

- OECD Consensus Documents for the Work on Harmonisation of Regulatory Oversight in Biotechnology (more than 40 documents to date)
 - Plants – 32 species to date including bananas, cotton, rice, maize, wheat, potato, soybean, sugarbeet, papaya, peppers (*Capsicum annum*), etc.
http://www.oecd.org/document/15/0,3746,en_2649_34385_46726799_1_1_1_1,00.html
 - Safety Information on Transgenic Plants Expressing *Bacillus thuringiensis* - Derived Insect Control Proteins (eg, Cry1Ab, Cry1Ac, Cry3A, Cry1F, etc.)
<http://www.oecd.org/dataoecd/36/61/46815888.pdf>
 - Herbicide tolerance genes: cp4-epsps, pat, bar, etc.
<http://www.oecd.org/dataoecd/17/39/46815748.pdf>
<http://www.oecd.org/dataoecd/17/11/46815618.pdf>
 - OECD 1996 Consensus document on general information concerning the biosafety of crop plants made virus resistant through coat protein gene-mediated protection. Series on Harmonisation of Regulatory Oversight in Biotechnology, Number 5, OCDE/GD(96)/162. Organisation for Economic Co-operation and Development (OECD), Paris, 54 pp.
www.oecd.org/dataoecd/17/6/46815568.pdf
 - Further information: BioTrack Online at
http://www.oecd.org/department/0,3355,en_2649_34385_1_1_1_1_1,00.html
- Australian Office of the Gene Technology Regulator (OGTR): Risk Assessment References and Crop Biology Documents
<http://www.ogtr.gov.au/internet/ogtr/publishing.nsf/Content/riskassessments-1>
- Canadian Food Inspection Agency (CFIA) Biology Documents, Companion Documents for Directive 94–08, Assessment Criteria for Determining Environmental Safety of Plants with Novel Traits <http://www.inspection.gc.ca/english/plaveg/bio/dir/biodoce.shtml>

Guidance on field testing plants

- PBS-IFPRI: Integrated Confinement System for Genetically Engineered Plants.
https://www.danforthcenter.org/science/programs/international_programs/pbs/docs/ICS%20complete%20corrected%20version%20Mar%202008.pdf
- CropLife International: Compliance Management of confined field trials of genetically engineered plants CropLife International 2005 http://www.croplife.org/field_trial_compliance

Guidance on Environmental Risk Assessment

- OECD Blue Book - Recombinant DNA Safety Considerations
www.oecd.org/dataoecd/26/26/1958527.pdf
- UNEP (1995) International technical guidelines for safety in biotechnology.
<http://www.unep.org/biosafety/Documents/Techguidelines.pdf>
- OECD (1993) Scale-up OECD (1993) Safety considerations for biotechnology: scale-up of crop plants. <http://www.oecd.org/dataoecd/26/26/1958527.pdf>
- OECD (1993) Traditional Crop Breeding Practices: A Historical Review to Serve as a Baseline for Assessing the Role of Modern Biotechnology
<http://www.oecd.org/dataoecd/57/48/1946204.pdf>
- UNIDO Biosafety Manual
http://binas.unido.org/upload/binas/UNIDO_Biosafety_Manual_2010-06

- PRRI: Guide for Notifications and Risk Assessments for Releases into the Environment of Genetically Modified Organisms, Module 1 Crop Plants.
http://pubresreg.org/index.php?option=com_docman&task=cat_view&gid=48&Itemid=58

Guidance on Food/Feed Safety Evaluation

- OECD Consensus Documents for the Work on the Safety of Novel Foods and Feeds
http://www.oecd.org/document/39/0,3746,en_2649_34385_46805223_1_1_1_1,00.html
- Codex PRINCIPLES FOR THE RISK ANALYSIS OF FOODS DERIVED FROM MODERN BIOTECHNOLOGY <ftp://ftp.fao.org/docrep/fao/011/a1554e/a1554e00.pdf>
- ILSI database <http://www.cropcomposition.org>
- ILSI Task Force Nutritional and safety assessments of foods and feeds nutritionally improved through biotechnology: Case Studies. ILSI - International Food Biotechnology Committee. Vol. 7, 2008—COMPREHENSIVE REVIEWS IN FOOD SCIENCE AND FOOD SAFETY
http://www.ilsil.org/foodbiotech/publications/10_ilsil2008_casestudies_crfsfs.pdf

Online databases for biotech plants:

- Field testing stage:
There is currently no comprehensive international database of field testing of transgenic plants, although individual countries do maintain online, publicly-accessible, searchable databases of field testing done in their countries.
 - United States: USDA Field Test Database <http://www.isb.vt.edu/search-release-data.aspx>
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- Commercialization stage approvals:
These have information on transgenic plants approved by countries for commercialization (includes information on environmental and/or food safety reviews). Some of these sites include the application as well as the safety assessment and conclusion of the government's regulatory agency.
More complete:
 - CERA's database of safety information (formerly hosted by AGBIOS):
http://www.cera-gmc.org/?action=gm_crop_database
 - ISAAA Biotech/GM crop approvals:
<http://www.isaaa.org/gmapprovaldatabase/>
 - Biosafety Clearing-House (BCH) for the Cartagena Protocol:
<http://bch.cbd.int/>