



GIPB

Global Partnership Initiative
for Plant Breeding Capacity Building



Pre-breeding in the Context of the GIPB and the ITPGRFA

Elcio P. Guimaraes
Cereal Pre-breeding Workshop
Alnarp, Sweden, 24-25 November

Content

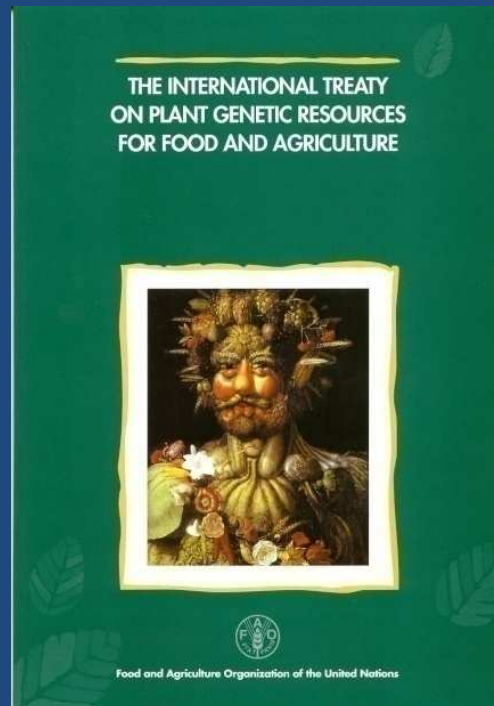
ITPGRFA

SoW-2

GIPB

Pre-breeding

The International Treaty on Plant Genetic Resources for Food and Agriculture



The Treaty was adopted by the FAO Conference on 3 November 2001 and entered into force on 29 June 2004



The scope of the Treaty is all plant genetic resources for food and agriculture



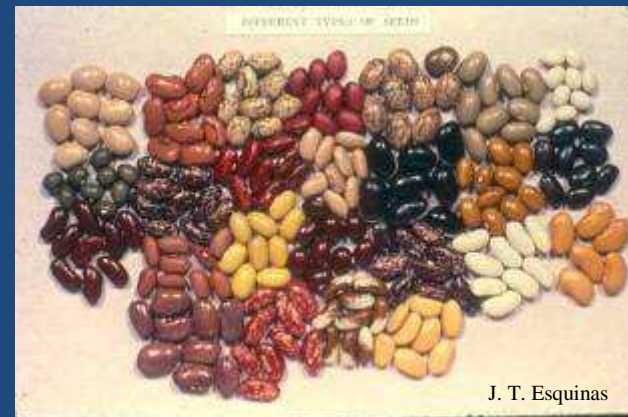
J. T. Esquinas



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J. T. Esquinas



J. T. Esquinas

What are the Treaty's objectives?



- The conservation and sustainable use of plant genetic resources for food and agriculture
- The fair and equitable sharing of benefits derived from their use (in harmony with the Convention on Biological Diversity, for sustainable agriculture and food security)

Contracting Parties of the ITPGRFA in the Nordic Region

- Denmark (2004)
- Finland (2004)
- Iceland (2007)
- Norway (2004)
- Sweden (2004)

Article 6

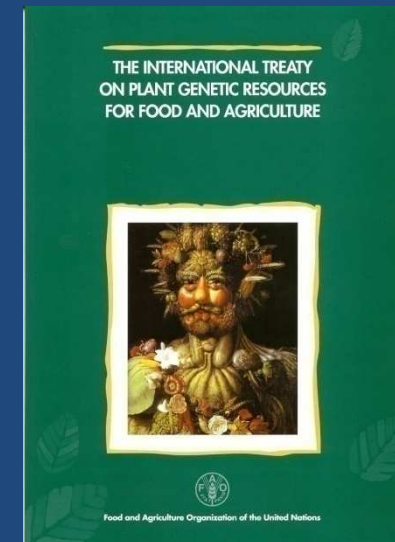
Sustainable Use of Plant Genetic Resources

The Contracting parties shall develop and maintain appropriate **policy and legal measures** that **promote the sustainable use** of plant genetic resources for food and agriculture



International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

- Article 6 – Sustainable use of PGR
 - B) enhance and conserve biological diversity
 - C) farmers participation
 - D) genetic base broadening
 - E) use of local varieties



International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA)

- Article 14 – Global plan of action (Priority Activity 9 -14)
 - 9) activities to facilitate use
 - 10) base broadening
 - 11) crop diversification
 - 12) under-utilized species



Content

ITPGRFA

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The Second State of the World's Plant Genetic Resources for Food and Agriculture report (SoW-2)

- Chapter 4 (Use of PGRFA)
 - Item on pre-breeding and base-broadening
- Changes since the SoW-2
 - Country reports – reported progress made in this area
- Gaps and needs
 - More effort is needed to activities related to base-broadening

Content

ITPGRFA

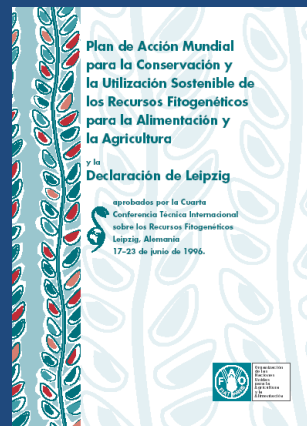
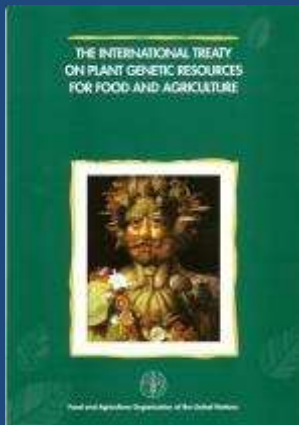
SoW-2

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Pre-breeding

Creating a Foundation for GIPB

- **FAO Survey to assess the plant breeding and related biotechnology capacity in developing countries**
 - **Plant breeding capacity is inadequate**
- **The International Treaty on Plant Genetic Resources for Food and Agriculture and its Global Plan of Action**





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Global Partnership Initiative
for Plant Breeding Capacity Building



Global Partnership Initiative for Plant Breeding Capacity Building (GIPB)

- A global partnership platform dedicated to increasing plant breeding capacity building, mainly in developing countries**



GIPB

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for Plant Breeding Capacity Building

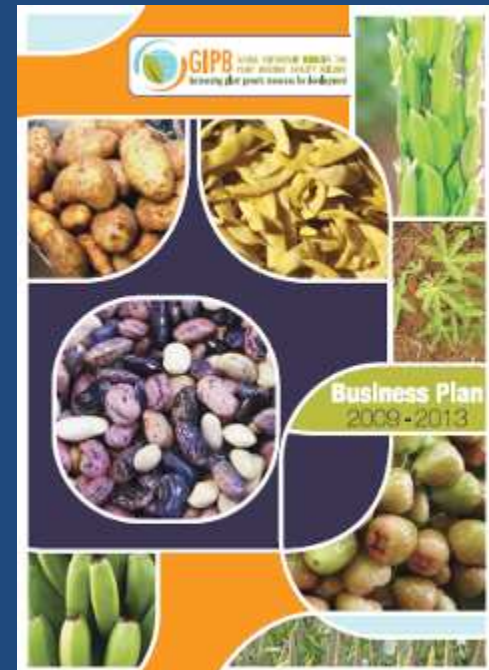


GIPB Objectives

- Policy dialogue and development**
- Education and training**
- Access to technology**
- Exchange of PGR**
- Sharing information**

Global Partnership for Plant Breeding Capacity Building (GIPB)

- Main activities of the GIPB project
 - Plant breeding survey
 - Information resource center
 - Business plan
 - Policy dialogue
 - Pre-breeding



Global Partnership for Plant Breeding Capacity Building (GIPB)

- Main activities of the GIPB project
 - Pre-breeding grants
 - 6 grants
 - Different crops and regions
 - US\$30,000 each
 - Pre-breeding course
 - Philippines
 - Thailand
 - Brazil
 - Venezuela
 - E-learning

Content

ITPGRFA

SoW-2

GIPB


Pre-breeding

Pre-breeding

- Conventional plant breeding
 - Beyond elite by elite cross (use of wild species)
- Molecular tools
 - New possibilities to identify and transfer genes
- Participatory plant breeding
 - Use of local/traditional variability
- Need to cope with climate change
 - New genes and gene combination

Pre-breeding

- Clear objectives
- Strong breeding programme
- Support from advanced institutes
- Donors' support
 - Frame it under the ITPGRFA
 - Strengthening use of PGRFA



Thank you for your attention