les dossiers d'AGROPOLIS INTERNATIONAL

Expertise of the scientific community

SPECIAL ISSUE ON PARTNERSHIP

From Brazil to Europe:

10 years of Labex Program,

EMBRAPA's laboratory without walls

The International Advanced Biology Consortium (CIBA)

CIBA

International Advanced Biology Consortium

- Brazil: 13 research units (EMBRAPA). 9 public and private universities. EPAMIG, IAPAR, APTA and IBDA regional research institutes
 - France: CIRAD, INRA, IRD, CNRS, UM2, Montpellier SupAgro
 - Coordination unit ■ EMBRAPA: coordinator
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Strategies for high-throughput studies of genomes and their expression, combined with functional genomics approaches, enable the characterization of plant genetic resources. Using cutting-edge technologies and conventional breeding approaches, this knowledge facilitates breeding of new varieties with the aim of reducing the impact of stress on crop productivity and improving the nutritional safety and quality of produce. No single research institution is, however, capable of mobilizing the expertise required to use them in varietal breeding

programs while making effective use of the available biological resource diversity. This observation prompted EMBRAPA and Agropolis International, with the support of CIRAD, to found CIBA in 2008

CIBA involves Brazilian and French partners (see below) and their scientific networks, who pool their resources, capacities, knowledge and expertise to develop and use these innovative advanced biology and genetic improvement tools to conduct research on tropical species of agricultural interest. CIBA has a portfolio of some thirty collaboration projects and also serves as a place for exchange, training and a forum for discussions that will give rise to the development of new bilateral research projects. Some CIBA activities (funded by CIRAD, EMBRAPA, Agropolis Fondation, French Embassy in Brazil, UESC, CAPES) include the organization of four bilateral workshops, support for the organization of French-Brazilian workshops on advanced biology topics: two bioinformatics symposia (2010, 2011), the First Meeting on Functional-Structural Plant Modeling (2011), and near-infrared spectrometry analysis training. CIBA also promotes exchanges of French and Brazilian researchers, which has led to the submission and acceptance of research projects, especially by CIRAD, EMBRAPA and Agropolis Fondation. In the future, CIBA will be further strengthened by joint self-funding arrangements for research projects that are strategic for its partners.

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CIBA Brazilian

partnerships

EMBRAPA Research centers

- Agroenergy 3
- Cotton
- Western Amazon
- 5 Eastern Amazon
- Rice & Beans
- Coffee
- 8 Cerrados
- Temperate Agriculture
- 10 Forestry
- Agriculture Informatics
- Cassava & Tropical Fruits
- 13 Mid-North
- Maize & Sorghum
- 15 Genetic Resources & Biotechnology
- Soybean
- 17 Coastal Tablelands
- 18 Wheat
- 19 Grapes & Wine

Institutes involved in the Agricultural

- **EPAGRI**
- C **ESALO**
- FundeCitrus E
- IAPAR G Incaper
- Research National System CEPLAC
 - UnB UEL
 - UESC UFG
 - UFLA UNIR UFV