

ICGI 2001 WORKSHOP, JUNE 5-7, 2001 MONTPELLIER, FRANCE

At the request of the ICGI, CIRAD agreed to host the ICGI 2001 Workshop that took place on the CIRAD campus in Montpellier, France from June 5th to June 7th. Recognizing the importance of holding such a workshop, CIRAD offered to host it, and the Department of External Relations of CIRAD provided support to organize it. The workshop was meant to bring together a significant number of cotton researchers, from different countries and representing various types of institutions (public, academic, and private).

The goal was to discuss openly the organization of the ICGI, in order to give the network more visibility and to render it attractive to cotton genome

researchers worldwide. The schedule of the workshop was organized to reach the goals that were put forth. After presentations on CIRAD and its Cotton Program by host institution representatives, a presentation of the Global Forum on Agricultural Research (GFAR), its goals and mode of functioning was given. This introduction was followed by a first session, in which presentations devoted to background information on existing networks (PROMUSA, ITMI), that could serve as models for the ICGI, were given. The following sessions were devoted to "the current state of research on cotton genome analysis" as well as the organization of the ICGI.

SPONSORS OF THE ICGI-2001 WORKSHOP

To fund this meeting, Roy Cantrell approached cotton breeding, genetics, and biotechnology stakeholders for modest support. Because we hoped to invite key researchers, we needed funds to pay for their travel.

The response was overwhelming. All the contacted stakeholders contributed, and the amount of money generated approached US\$60,000. While this

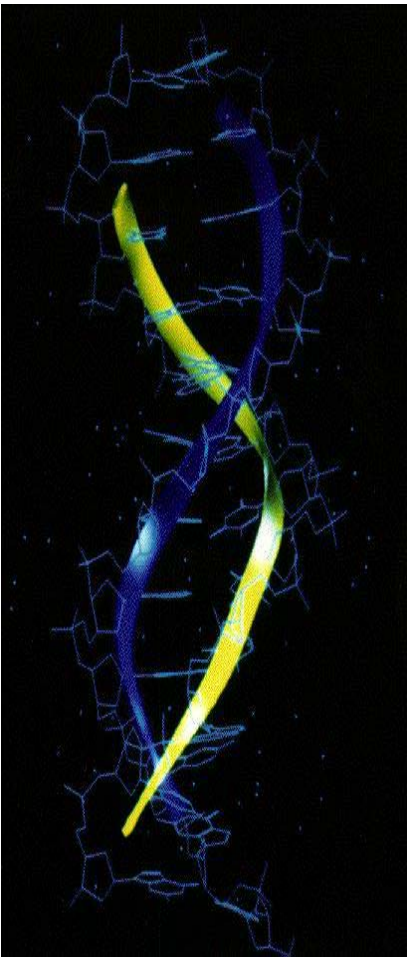
carries a tremendous responsibility and obligation, it emphasizes the timeliness of the ICGI. The monies were deposited into a research foundation account at New Mexico State University. The funds are available to the ICGI Steering Committee to defray the expenses of ICGI activities and functions. It must be noted that the funds are not available for sponsored research activities.

<i>ICGI 2001 Workshop Sponsors</i>		
Aventis	Cotton Research &	Monsanto
CIRAD	Development Corporation (AUS)	Stoneville Pedigreed Seed
Cotton Foundation (USA)	Delta & Pineland Co.	Syngenta
Cotton Incorporated (USA)	Dow AgroSciences	

International Cotton Genome Initiative

ICGI 2001 WORKSHOP June 5-7, 2001 Montpellier, France

Meeting Announcement and Final Program Details



ICGI Introduction and Background

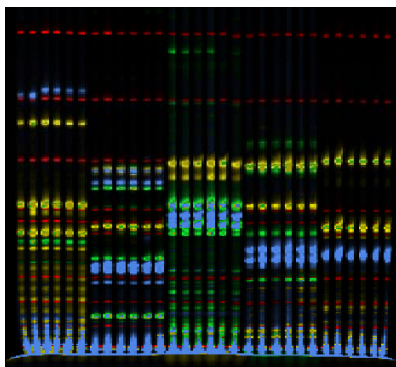
The last decade has seen unprecedented advances in the use of DNA technology to unravel the genetic secrets of plants and animals. International collaborative efforts are underway to map and characterize the genomes of many important organisms. The study of the complex allopolyploid cotton genome is scientifically challenging and requires a coordinated multidisciplinary research effort. The **International Cotton Genome Initiative (ICGI)** was created at a meeting of cotton genetics/genomics researchers in Canberra, Australia in February 2000. An International Steering Committee was formed and a letter to cotton science community was published in the *Journal of Cotton Science* (<http://www.jcotsci.org/2000/issue02/toc.html>). Cotton is viewed as one of the world's most important cash crop, and sustains the agricultural economies of many nations by providing a sustainable fiber product for the textile industries. Unfortunately, many challenges face cotton production at the present and in the future. Concerns over fiber/textile novel properties, water use and pesticide inputs abound. In some important growing regions of the world, a production plateau has been reached and stability of production is a serious concern. With the advent of genomic technologies, the scientific community has an unprecedented opportunity to make significant genetic improvements in cotton.

Objectives of ICGI

1. Reduce redundancy of research effort and maximize rate of progress in research to understand the cotton genome.
2. Foster tool development to begin integrating genetic and physical maps.
3. Accelerate development of portable cotton linkage map.
4. Foster rapid application of new genomic tools to cotton improvement.
5. Develop comprehensive forum for exchange and communication within cotton scientific community and with the *Arabidopsis* model genome community.
6. Develop standardized nomenclature for DNA markers, maps and etc.

Program Description

ICGI2001 Workshop
June 5-7, 2001



**ICGI2001
Workshop is open
to all public and
commercial
scientists with an
interest in cotton
genetics/genomics**

June 5,2001

08:30-12:00

Introductions and general comments

Welcome (CIRAD)

Cotton as part of GFAR (Global Forum for Agricultural Research)

Examples of International consortia in plants (INIBAP, Arabidopsis, other)

1:30-6:00

Current state of research activities on cotton genetics and genomics

-Genetic mapping, QTL analysis

-Physical mapping

-Functional genomics (including *Arabidopsis* as a model system)

-Genetic resources, cytogenetics of *Gossypium*

-Bioinformatics

June 6,2001

08:30-12:00 ICGI functional business

-ICGI presentation (summary of Canberra meeting)

-Collaborative efforts

-Public/private interactions

1:30-5:00 ICGI functional business (cont.)

-Sharing of resources

-ICGI future funding (NSF-RCN, EU)

-ICGI global recruitment

WORKSHOP DINNER

June 7,2001

08:30-12:00 ICGI Structural business

-Year one accomplishments

-ICGI funding

-ICGI Steering Committee membership

-ICGI Advisory Committee

-Publications (website, newsletter, proceedings)

-Planning 2002 meetings and beyond (PAG, WCRC3 and etc.)

1:30-5:00 Visits and tours

Tour 1 – CIRAD Cotton Technology Laboratory

Tour 2 – Plant Biotechnology and Genetic Resources Laboratories

ICGI2001 Workshop
June 5-7, 2001



**Centre de Cooperation
Internationale en Recherche
Agronomique pour
Developpement
Avenue Agropolis
BP5035
34032 Montpellier
Cedex 1, France**

**ICGI International
Steering Committee
Members:**

*C Brubaker (CSIRO,
Australia)*
*RG Cantrell (NM State Univ,
USA)*
T Wilkins (UC Davis USA)
M Giband (CIRAD, France)
*B Lyon (Univ Sydney,
Australia)*

Workshop Venue and Accomodations

The ICGI2001 workshop will be held at CIRAD Research Center in Montpellier, France. The conference hotel for lodging is listed below (this hotel is at walking distance from CIRAD):

Hotel Heliotel,

Rond-Point Agropolis,

Route de Mende, 34980 Montferrier sur Lez, FRANCE

FAX: (+33) 4 67 41 54 54 PHONE: (+33) 4 67 41 54 00

Email: heliot@wanadoo.fr

Internet: <http://www/heliotel.fr>

To be eligible for the preferential rate (299FFr/night, including breakfast) mention CIRAD-CA/Cotton Program at time of booking.

Questions regarding local arrangements can be directed to :

Marc Giband (Email marc.giband@cirad.fr)

Phone: (+33) (0) 4 67 61 57 35

Fax: (+33) (0) 4 67 61 56 05

If planning to attend workshop please RSVP to M Giband (above) or RG Cantrell (email rcantrel@nmsu.edu).

ICGI Steering Committee and Facilitators

In addition to the ICGI Steering Committee, who will act as workshop facilitators, a number of key public cotton participating scientists (CPS) have agreed to attend. These include: R Kohel (US), S Saha (US), L May (US), D Gessler (US), A Paterson (US), L Dennis (AUS), JM Lacape (FRANCE).

ICGI2001 Sponsors

Generous financial support from the following made ICGI2001 possible: Monsanto, Delta and Pineland Co., Stoneville Pedigreed Seed Co., CIRAD , Cotton Research and Development Corporation (AUS), Cotton Incorporate (USA), Cotton Foundation (USA), Syngenta, Aventis, and Dow AgroSciences.

ICGI 2001 WORKSHOP PARTICIPANTS

David Anderson	Phytogen Seed Co.	USA
Tony Arioli	Aventis Crop Science	Australia
Fermin Azanza	Syngenta Seeds	France
Claire Billot	CIRAD-Amis	France
Curt L. Brubaker	CSIRO Plant Industry	Australia
Roy G. Cantrell	New Mexico State University	USA
Stefano A Cerri	Univ. Montpellier	France
Hana Chair	CIRAD-CA	France
Brigitte Courtois	CIRAD-Amis	France
Liz Dennis	CSIRO Plant Industry	Australia
Jean-Vincent Escalant	International Network for the Improvement of Banana and Plantain (INIBAP)	France
Deqiu Fang	Delta and Pine Land Company	USA
Damian Gessler	National Center for Genome Resources	USA
Marc Giband	CIRAD-CA	France
Bernard Hau	CIRAD-CA	France
William V. Hugie	Delta and Pine Land Company	USA
Russell J. Kohel	USDA/ARS	USA
Jean-Marc Lacape	CIRAD-CA	France
Philippe Leroy	Institut National de la Recherche Agronomique	France
Bruce R. Lyon	The University of Sydney	Australia
O. Lloyd May	University of Georgia	USA
Swarup K. Mukharjee	Mahyco Life Sciences Research Center, Maharashtra Hybrid Seeds Co.Ltd	India
Trung-Bieu Nguyen	CIRAD-CA	France
Hubert Omont	IPGRI c/o INIBAP	France
Catherine Pannetier	Laboratoire de Biologie Cellulaire, INRA	France
Andrew Paterson	Plant Genome Mapping Laboratory, University of Georgia	USA
Valasubramanian Ramaiah	Mahyco Life Sciences Research Center, Maharashtra Hybrid Seeds Co.Ltd	India
Ange-Marie Risterucci	CIRAD-Amis	France
Sukumar Saha	USDA/ARS	USA
Ivan Schuster	Instituto de Biotecnologia Aplicada a Agropecuaria, BIOAGRO	Brazil
Frank Shotkoski	Syngenta	USA
Mauricio Ulloa	USDA-ARS	USA
Thea A. Wilkins	University of California-Davis	USA
Robert Wright	Aventis Crop Science	Belgium

ICGI 2001 WORKSHOP AGENDA

June 5, 2001

INTRODUCTIONS AND GENERAL COMMENTS

Welcome	Marc Giband/Jean-Marc Lacape
CIRAD and it's Annual Crops Department	Jean-Luc Khalfaoui
CIRAD's Cotton Program	Jean-Philippe Deguine

EXAMPLES OF INTERNATIONAL CONSORTIA IN PLANTS

Cotton as part of GFAR (Global Forum for Agricultural Research)	Hubert Omont
INIBAP	Jean-Vincent Escalant
ITMI	Philippe Leroy

CURRENT STATE OF RESEARCH ACTIVITIES ON COTTON GENETICS AND GENOMICS

Genetic mapping, QTL analysis	Andy Paterson
Physical mapping	Russ Kohel
Functional genomics (including <i>Arabidopsis</i> as a model system)	Liz Dennis
Genetic resources, cytogenetics of <i>Gossypium</i>	Lloyd May & Sukamar Saha
Bioinformatics	Damian Gessler

June 6, 2001

ICGI FUNCTIONAL BUSINESS

Summary of Canberra meeting	Curt Brubaker
Public/private interactions	Open discussion
Collaborative efforts	Open discussion
Sharing of resources	Open discussion
ICGI future funding (NSF-RCN, EU)	Roy Cantrell
ICGI global recruitment	Thea Wilkins

June 7, 2001

ICGI STRUCTURAL BUSINESS

Year one accomplishments	Bruce Lyon
ICGI funding	Roy Cantrell
ICGI Steering Committee membership	Open discussion
ICGI Advisory Committee	Open discussion
Publications (website, newsletter, proceedings)	Thea Wilkins
Planning 2002 meetings and beyond (PAG, WCRC3 and etc.)	Open discussion

VISITS AND TOURS

Tour 1 – CIRAD Cotton Technology Laboratory	CIRAD
Tour 2 – Biotrop	CIRAD