

Of Special Interest

Foundation Building, a look at IRBT from the beginning.

IRBT represented at ASPB in Merida, Mexico.

Updated IRBT website.



Serving interest in Interspecific Reproductive Barriers of Tomato (IRBT) and the plant reproduction community.

Building a Foundation

Research in IRBT got its start in 2006 with the help of a Small Grant for Exploratory Research (SGER) from the National Science Foundation (NSF). Research enabled by this grant formed the basis for a larger proposal that was funded by the NSF, Plant

Genome Research Project entitled "Using Genomics Tools to Identify Interspecific Reproductive Barriers in Tomato". More details of this grant can be found at our website, www.irbtomato.org, just look for the 'NSF Plant Genome' link.

Two years of primary research, meetings, conferences and collaboration are laying the ground work for an identifiably productive and exciting second half of the 2008 year for IRBT.

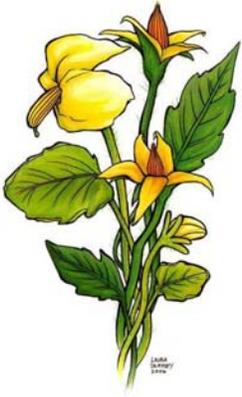
IRBT Represented at ASPB Plant Biology 2008

Recently four members representing three IRBT laboratories attended the 2008 ASPB meeting held in Merida Mexico. Gloria Lopez-Casado from the Rose lab at Cornell University presented a research poster entitled "Identification of Interspecific Reproductive Barriers in Tomato

Through Comparative Proteomics". Using the powerful quantitative comparative proteomics technique (iTRAQ) this project will help to identify candidate proteins involved in the mechanisms of interspecific reproductive barriers in tomato.

A second research poster entitled "Self-Incompatibility Factors in Unilateral Incongruity in Tomato" was presented by Dr. Patricia Bedinger from Colorado State University. To read the full abstracts go to the Publications link at www.irbtomato.org





New content for irbtomato.org

For those interested in taking a guided tour of tomato reproduction, you can now visit the link **“Guided tour of Tomato Reproduction”** where an interactive Power Point link will take you through the basics behind sexual reproduction in tomato.

Advanced reproductive biologists will also be

interested in checking out our Protocols link which includes the step-by-step techniques behind controlled **tomato pollinations** and **in-vitro tomato pollen germination**.

The site also includes a **list** of the tomato and wild tomato-like Solanum species that

IRBT is working with. The table gives the current nomenclature, old nomenclature, and some notes on mating habits and the collection location of these accessions.