Argentina

http://www.Arabidopsis.org/info/2010_projects/Argentina.jsp
Contact: Jorge J. Casal
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Current Research Projects:

- *Transcriptome analysis in plant-pathogen interactions: plant genes required for susceptibility to fungal infection.*

Malena Alvarez, malena@dqb.fcq.unc.edu.ar
CIQUIBIC-CONICET, Facultad Ciencias Quimicas, Universidad Nacional de Cordoba. Province of Córdoba
http://www.ciquibic.gov.ar/

- *The genetic network involved in plant responses to the light environment: transcriptome analysis in phytochrome and cryptochrome mutants.*

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http://www.ifeva.edu.ar/en/staff/casal.htm

- *Functional analysis of genes involved in the biogenesis of the cytochrome c-dependent respiratory chain.*

Daniel H. Gonzalez, dhgonza@fbcb.unl.edu.ar
Facultad de Bioquímica y Ciencias Biológicas. Universidad Nacional del Litoral. Province of Santa Fe

- *Role of senescence associated genes in the formation of lytic vacuoles during senescence.*

Juan José Guiamet, jguiamet@museo.fcnym.unlp.edu.ar
Instituto de Fisiología Vegetal, Universidad de La Plata. Province of Buenos Aires

- *Genes involved in Potassium and Sodium transport.*

Guillermo E. Santa-Maria, gsantama@pop.unsam.edu.ar
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- *Regulatory genes involved in the control of transcription of genes of the photosynthetic antenna.*

Roberto J. Staneloni, RStaneloni@Leloir.org.ar
Instituto Leloir. Buenos Aires

- *Functional analysis of oxidative stress-regulated genes.*

Estela M. Valle, evalle@fbioyf.unr.edu.ar
Instituto de Biología Molecular y Celular de Rosario (IBR-CONICET), Facultad Ciencias Bioquimicas y Farmaceuticas, Universidad Nacional de Rosario. Province of Santa Fe

- *Identification of key components for retrograde signaling between mitochondria and nucleus in higher plants by transcriptomic, proteomic and functional analyses of respiratory complex mutants in Arabidopsis.*

Eduardo Zabaleta (ezabalet@mdp.edu.ar)
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- *Regulatory genes involved in the biogenesis of mitochondrial Fe-S proteins. Metabolic analysis of Arabidopsis mutants deficient in enzymes involved in carbon metabolism.*

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Arabidopsis genomics tools and resources:

- Recombinant inbred lines (RILs) between Landsberg *erecta* and Nossen produced by Jorge J. Casal in collaboration with the groups of Allan Lloyd (University of Texas) and Javier Botto (University of Buenos Aires), are available at the Arabidopsis Biological Resource Center (ABRC), Ohio State University, USA.
- The first Affymetrix workstation in Latin America has gone to Arabidopsis research groups. ANPCYT has granted an Affymetrix workstation to a consortium integrated mainly by research groups listed above. The equipment has been installed at IFEVA.

Major funding sources for Arabidopsis functional genomics:

- ANPCYT (Agencia Nacional de Promoción Científica y Técnológica), http://www.agencia.secyt.gov.ar/
- CONICET (Consejo Nacional de Investigaciones Científicas y Técnicas), http://www.conicet.gov.ar/
- FIRCA (NIH), http://www.fic.nih.gov/programs/firca.html
- TWAS (Third World Academy of Sciences), http://www.twas.org/