Curriculum vitae

FÉLIX ALBERTO GUZMÁN DÍAZ

Department of Biology,
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EDUCATION

August 2006-present
Ph.D. student at the Department of Biology, University of Utah, USA.

Master of Science in Biology, 2007
Universidad del Valle, Cali, Colombia
Degree: Magister en Ciencias-Biología

B. Sc. Thesis
Development of a molecular tool to allow worldwide comparison of *Capsicum* germplasm

Bachelor of Science in Biology, 2000
Universidad del Valle, Cali, Colombia
Degree: Biologist (major in Genetics)

B. Sc. Thesis
Title: Study of genetic erosion during multiplication of seed at CIAT's germplasm bank, using wild common bean as model.

PROFESSIONAL EXPERIENCE

June 2005 – March 2006

Visiting fellow, Department of Plant Breeding & Genetics, Cornell University, Ithaca, NY, USA.

I carried out the laboratory experiments related to the development of a molecular tool to allow worldwide comparison of *Capsicum* germplasm. This activity implicated the molecular characterization of a selection of *Capsicum* germplasm representing confirmed taxa in the family using a panel of SSR markers. It was undertaken by the International Plant Genetic Resources Institute (IPGRI) and Cornell University.

August 2004 – May 2005

Visiting researcher, International Plant Genetic Resources Institute (IPGRI), America's office, c/o CIAT, Cali, Colombia.

My responsibility was assist in the molecular data analyses and redaction of a couple of publications linked to the molecular component of home gardens genetic resources (Contribution of Home Gardens to the *in situ* Conservation of Plant Genetic Resources in Farming Systems) carried out by the International Plant Genetic Resources Institute (IPGRI).

February 2002 – August 2004

Technical assistant, International Plant Genetic Resources Institute (IPGRI), America's office, c/o CIAT, Cali, Colombia.

My duties were the following: 1) Work on an updated new version of a training module on molecular techniques, 2) Assist in the preparation of another learning module on genetic diversity analysis with molecular data and 3) I carried out the laboratory experiments related to the molecular component of home gardens genetic resources (Contribution of Home Gardens to the *in situ* Conservation of Plant Genetic Resources in Farming Systems) carried out by the International Plant Genetic Resources Institute (IPGRI) at CIAT's laboratory from May of 2002 to June of 2003. The laboratory activities involved the molecular characterization of *Capsicum* germplasm from Cuba and Guatemala, using AFLPs, plus *Phaseolus lunatus* in Cuba.

I enjoy fieldwork and have the capacity to endure long laboratory hours. I think I have the patience and perseverance to search for information in literature that could support laboratory results. I am able to get around in a new environment and am inclined to believing that I have an amiable disposition, which helps me to get things done.

PUBLICATIONS

In International Journals with Refereed System

Castiñeiras, L., F.A. Guzmán, M.C Duque T. Shagarodsky, R. Cristóbal and M. C. de Vicente. 2007. AFLPs and morphological diversity of *Phaseolus lunatus* L. in Cuban home gardens: approaches to recovering the lost *ex situ* collection. Biodiversity and Conservation 16:2847-2865.

Guzmán, F.A., H. Ayala, C. Azurdia, M.C. Duque and M.C. de Vicente. 2005. AFLP assessment of genetic diversity of *Capsicum* genetic resources in Guatemala: Home gardens as an option for conservation. Crop Science 45:363–370.

In International Journals without Refereed System

Guzmán, F.A., O. Toro, C. Ocampo, I. Sánchez, H. Cárdenas and D. Debouck. 2001. Observations about risks of genetic erosion and drift during multiplication and regeneration of germplasm, using wild common bean as model. Annual Report of the Bean Improvement Cooperative (BIC), USA, Vol. 44: 29-30.

In Proceedings of Congresses and Symposiums

Guzmán, F.A., S. Moore F., M.C. de Vicente and M. Jahn. 2006. Development of a molecular tool to allow worldwide comparison of *Capsicum* germplasm. *In* PAA/Solanaceae 2006. Genomics meets biodiversity. Madison, Wisconsin, 23-27 July 2006.

de Vicente, M.C., F.A. Guzmán, J. Engels and V. Ramanatha Rao. 2005. Genetic characterization and its use in decision making for the conservation of crop germplasm. Pp. 121-128 *in* International workshop the role of biotechnology for the characterization and conservation of crop, forestry, animal and fishery genetic resources. FAO, FOBIOTECH, ECOGENE, SIGA. Turin, Italy, 5-7 March 2005.

Guzmán, F.A., I. Sánchez, H. Cárdenas and D. Debouck. 2000. Genetic erosion control in a germplasm bank. P. 264 *in* Memorias del XVIII Congreso Nacional de Fitogenética: Notas científicas. SOMEFI. Chapingo, Mexico.

Other type of Publications (Magazin)

Guzmán, F. A. & M.C. de Vicente. 2004. Linking *in situ* and *ex situ* conservation through home gardens. *In:* Italia. Geneflow – 2004, Special section p.19 – 19.