

Ivan J. Delgado Orlic

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PERSONAL

Date of birth May 28, 1973
Work U.S. Permanent resident
Spoken languages English, Spanish, and intermediate French

EDUCATION

Aug. 1991 - May 1995 B.S. in Genetics **GPA: 3.97/4.00**. Plant Genetics and Breeding. Purdue University.
Aug. 1995 - Dec. 2001 Ph.D. in Genetics. **GPA: 3.67/4.00**. MSU-DOE-PRL. Advisor: Natasha Raikhel
Feb. 2004 - Mar. 2006 M.B.A. in General Business. **GPA: 4.00/4.00**. Capella University.

EXPERTISE

NUCLEIC ACIDS DNA, RNA, mRNA. Sequencing. Extensive PCR assay development, including quantitative real time PCR. Cloning. Blotting. *In vitro* transcription. Mutagenesis. Microarray analysis. Chemical synthesis of DNA fragments.

GENETICS Mapping (RAPDs; RFLPs; AFLPs). Plant (*Arabidopsis* and rice) and animal (human and mouse) cell transformation. Mice management and genotyping. Library screening.

FDA REGULATIONS Established and maintained GLP, GMP, CLIA, NSY DOH and ISO 17025:2005 certified laboratories. Prepared SOPs, IQ/OQ/PQ, and validation documents. Conducted internal and external audits.

GRANT WRITING Prepared proposals to apply for academic grants and government funded (RFP) contract molecular biology work.

PROTEINS Organelle, membrane and protein purification. 2-D gel electrophoresis. Antibody work. *In vitro* translation. Recombinant protein expression and purification.

LIPIDS Purification and characterization of lipids. Gas and Thin layer chromatography.

CARBOHYDRATES GC/Mass spectrometry of alditol acetates. Methylation analysis.

CELL BIOLOGY Tissue culture (plant and animal cells). Confocal microscopy. Reporter genes assays (GUS, GFP). RNA interference. Enzyme assay development and optimization.

MICROBIOLOGY Transformation and expression systems.

WORK EXPERIENCE

Aug 2005 - Sept 2006 **Senior Scientist and Quality Assurance Manager**
Identigene, Inc., Houston, TX, USA

Oct 2004 - Aug. 2005 **Post-doc. Molecular Genetics of Human Disease. Rett Syndrome.**
Dr. I. Van den Veyver, Baylor College of Medicine, Houston, TX, USA

July 2003 - May 2004 **QA Manager and Scientific Advisor**
SeqWright Inc., Houston, TX, USA

Jan. 2002 - June 2003 **Post-doc. Muscle development, cell cycle control and cancer**
Dr. P. Zhang, Baylor College of Medicine, Houston, TX, USA

Apr. 2002 - Sept 2002 **Scientific Advisor. Chemical synthesis of kilobasepair-sized DNA fragments**
Alfred W. Lasher III. Pres., Picoscript Ltd., Houston, TX, USA

Aug. 1995 - Dec. 2001	Ph.D. The role of <i>Arabidopsis</i> polypeptides that bind the sugar moiety of nucleotide sugars in plant polysaccharide biosynthesis Dr. N. Raikhel, MSU-DOE-PRL, MSU, East Lansing, MI, USA
May 1999 - Aug. 1999	Ph.D. GC/MS analysis of carboxyl-reduced alditol acetates from transgenic <i>Arabidopsis</i> plants altered in Rgp expression Dr. T. Bacic, University of Melbourne, Melbourne, Australia
Dec. 1998	Ph.D. Purification of Golgi vesicles for nucleotide sugar import assays Dr. A. Orellana, Universidad de Chile, Santiago, Chile
March and Sept 1998	Ph.D. Screen for transposable-element-mutagenized <i>Arabidopsis</i> plants Dr. K. Palme, Max-Planck-Institut Fur Zuchtungsforschung, Köln, Germany
May 1995 - Aug. 1995	B.S. Analysis of 7S and 11S globulin storage proteins in soybean inbred lines Dr. K. Kitamura, National Agriculture Research Center, Tsukuba, Japan
May 1994 - Aug. 1994	B.S. AFLP characterization of <i>Phaseolus vulgaris</i> (common bean) genotypes Dr. J. Tohme, International Center for Tropical Agriculture, Cali, Colombia
May 1993 - May 1995	B.S. Phylogenetic analysis of cereals and rust fungi using rRNA genes Dr. J. Bennetzen, Purdue University, West Lafayette, IN, USA

COMPUTER KNOWLEDGE

Sequence analysis	GCG; DNA Star; Sequencher; Database search (BLAST)
Microarray analysis	GeneSpring software for microarray analysis
Quantitative real time PCR	ABI Prism 7000 SDS software for real time PCR
Software specialist	MSOffice (Excel, Powerpoint, Word), WordPerfect
Internet development	HTML, Java, Macromedia web design studio (Dreamweaver)
Graphic artist	Macromedia Flash and Freehand, Adobe Photoshop and Illustrator

PARTICIPATION AND PRESENTATIONS IN SCIENTIFIC MEETINGS

- Fifty-fifth Annual Meeting, American Society of Human Genetics (ASHG), **2005**, Salt Lake City, Utah, USA
- Sixth Annual Symposium, Rett Syndrome Research Foundation (RSRF), **2005**, Chicago, IL, USA
- Molecular Biology of Muscle Development and Regeneration Meeting, **2003**, Banff, Alberta, Canada
- Twelfth International Conference on Arabidopsis Research, **2001**, Madison, WI, USA
- Tenth International Conference on Arabidopsis Research, **1999**, Melbourne, Australia
- Annual Meeting, American Society of Plant Physiologists (ASPP), **1998**, Madison, WI, USA
- Gordon Research Conference on Plant Cell Walls, **1997**, Tilton, NH, USA
- Eighth International Conference on Arabidopsis Research, **1997**, Madison, WI, USA
- Cloning plant genes known only by phenotype, **1994**, Plant Molecular Genetics Institute, Saint Paul, MN, USA

TEACHING EXPERIENCE

March 2004	Secondary school certification	2002 - 2003	Advisor to M.D./Ph.D. students
Fall 1999	Plant Biotechnology (BOT 416)	Spring 1998	Plant Biochemistry (BCHM 856)
Spring 1997	Plant Physiology (BOT 415)	Fall 1994	Genetics (Gen 320)

SELECTED PUBLICATIONS

- Drakakaki G, **Delgado I**, Meinke D, Raikhel NV (**2006**) Arabidopsis RGP1 and RGP2 are essential for pollen development. **Plant Physiology**. Submitted.
- Delgado I**, K Dong, Thatcher K, LaSalle J, Van den Veyver I (**2006**) Expression profiling of clonal lymphocyte cell cultures from Rett syndrome patients. **BMC Medical Genetics** 7:61.
- Delgado I**, Huang X, Jones S, Zhang L, Hatcher R, Gao B, Zhang P (**2003**) Dynamic gene expression during the onset of myoblast differentiation in vitro. **Genomics** 82: 109-121
- Delgado I**, Wang Z, De Rocher A, Keegstra K, Raikhel NV (**1998**) Cloning and Characterization of *AtRgp1*: A reversibly autoglycosylated protein implicated in cell wall biosynthesis. **Plant Physiology** 116: 1339-1349

REFERENCES

1. Alfred Lasher (President, Picoscript Ltd, LLP - www.picoscript.com).
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E-mail: awlasher@lasher.com
2. Bruce Simmons (Account Manager, Genomic Services, Agencourt Biosciences Corporation - www.agencourt.com).
Cell: 281-250-5777. E-mail: bruce.simmons@agencourt.com
3. William Chenault (Account Manager, Eppendorf - www.eppendorfna.com).
Cell: 281-686-5138. Office: 281-683-1115.
E-mail: chenault.w@eppendorf.com.
4. Miguel Landers, Ph.D. (Post-doc, Baylor College of Medicine - www.bcm.edu).
Cell: 860-798-4918. Lab: 713-798-4918. E-mail: landers@bcm.tmc.edu

For additional information, please go to:

www.ivaan.com