**CURRICULUM VITAE**

**LEIDY MARIEL CRUZ GOMEZ**

**Present Address**

Department of Biochemistry and Molecular Biology

603 Wilson Rd, Rm. 201, Michigan State University,

East Lansing, MI 48824-6473, USA

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**Education**

2009 - 2014 B.Sc. Biology, Faculty of Basics Science, Universidad Pedagogica y Tecnologica de Colombia, Thesis work: COMPARING INOCULATION METHODS TO EVALUATE THE GROWTH OF Xanthomonas axonopodis pv. manihotis ON CASSAVA PLANTS. PI, Dr. Camilo Lopez.

**Skills**

* I have large experience with several molecular biology techniques such as gene cloning, competent cells production, PCR and primer design, plant tissue culture, CRISPR-CAS9 construct designing, DNA/RNA/protein plant extraction, and western blot. Also, I have experience with several techniques to interrogate protein-protein and protein-DNA interaction such as Yeast-one hybrid, Yeast-two hybrid, and bi-fluorescent complementation. In the context of functional assay, I have experience with transient and stable plant transformation, and maize protoplast transformation. Designing of antibodies for protein-immunoprecipitation assay. Growing and crossing Arabidopsis, Camelina, and maize.
* I have experience working on teams-collaboration projects, and also, I am able to work independently with limited supervision.
* Proficient use of various types of computer software (Word, Excel. PowerPoint, Outlook)
* As lab manager:
  + I have developed a deep understanding of laboratory practices, time management, multi-task laboring.
  + Experience in personnel management and conflict resolution
  + Coordinate scheduling of lab usage
  + Ability to make independent judgments and to respond calmly, quickly and logically in a crisis situation
  + Managing the entire chemical and supply inventory and maintaining an accurate record of all the chemicals used in the lab.
  + Actively support aspects of research
  + Calibrate lab instrumentation and maintain lab equipment
  + Works together to learn new protocols and technologies
  + Recommends purchase, locates, negotiates prices, and orders equipment and supplies for funded research. Maintains vendor contacts and backup purchase documentation files for reference or reporting, as needed.
  + Supervises the work of staff and/or student workers assisting in the laboratory
  + Provide instruction to lab users on the proper use of lab equipment, lab safety, protocols and procedures related to conducting experiments.
  + Manage interactions with the Environmental Health and Safety office to maintain chemical inventories and ensure appropriate waste disposal

**Internships**

2/2012 - 12/2012 National University of Colombia, Manihot Biotec, Academic Internships: class attendance

**Academic Experience**

08/2017 - present Visiting scholar, Grotewold lab, Michigan State University, USA

12/2015 - 8/2017 Visiting scholar, Grotewold lab, Ohio State University, USA

2/2012 - 6/2014 Lab member, Manihot Biotec, National University of Colombia, COLOMBIA

11/2010 - 11/2011 Research Assistant, Group of Studies in Genetics and Molecular Biology (GEBIMOL), Universidad Pedagogica y Tecnologica de Colombia, COLOMBIA

**Professional Experience**

8/2017– Present Visiting Scholar-Lab manager, Grotewold Lab, Michigan State University, USA

12/2015 - 08/2017 Visiting scholar, Grotewold Lab, Ohio State University, USA

04/2015 - 07/2015 Volunteering, New York Botanical Garden, USA

02/2014 - 07/2014 Research assistant, Manihot Biotec, National University of Colombia, COLOMBIA.

**Peer Reviewed Publications**

A. MUÑOZ BODNAR, **L. M. CRUZ-GOMEZ**, A. BERNAL, BORIS SZUREK, C. E. LOPEZ CARRASCAL. “COMPARING INOCULATION METHODS TO EVALUATE THE GROWTH OF XANTHOMONAS AXONOPODIS V. MANIHOTIS ON CASSAVA PLANTS.”. Acta Biológica Colombiana, 2014. Published in May issue 2015. Keywords: Bacterial growth, Cassava, inoculation methods.

K. E. ALEJANDRA OTALORA ACEVEDO, C. CAMARGO-BURITICA, **L. M. CRUZ-GOMEZ**, "EVALUACION DE DOS METODOS DE EXTRACION DE ADN TOTAL EN UN GRUPO DE LEPIDOPTEROS (Colias dimera)". Journal of the Colombian Association of Biological Sciences. *ISSN:* 0120-4173. *v.*23 *fasc.* N/A. 379-,2011. Keywords: Extracción de ADN, Lepidóptera, Colias dímera, SNET, Sambrook

**Posters Presentation**

Gomez-Cano F., **Cruz-Gomez M**., Gray J., Dosseff A, Grotewold E., Combinatorial Gene Regulation of Maize Phenylpropanoid Genes. 61th Annual Maize Genetics Conference 2019. St. Louis, Missouri, USA.

Gomez-Cano F., **Cruz-Gomez M**., Gray J., Dosseff A, Grotewold E., Predicting Novel Gene Regulatory Interactions by Combining Different Datasets. 59th Annual Maize Genetics Conference 2017. St. Louis, Missouri, USA.

D. Rojas-Sánchez, **L. Cruz-Gómez.,** Poster display: USE OF THE FERNOS IN SANTA MARÍA (BOYACÁ UPTC. IV) Colombian Congress of Ethnobiology: Diversity of Knowledge and Biocultural Memory in Colombia. 2013. Bogota, Colombia.

K. Otálora, **L. Cruz-Gómez,** C. Camargo EVALUATION OF TWO METHODS FOR TOTAL DNA EXTRACTION IN A GROUP OF LEPIDOPTERS (Colias dimera).. UPTC. XLVI National Congress of Biological Sciences, "International Year of Forests 2011". 2011. Medellin. Colombia.

**CONFERENCES, SEMINARS AND COURSES**

7/24/2013 ASSISTANT: IV symposium of the Colombian network of Evolutionary Biology. Bogotá, COLOMBIA

03/2012 Session V of the Congress of Environmental Technology Sciences, "Territory, Culture, History, Heritage and Environment" Tunja, COLOMBIA