CURRICULUM VITAE

FABIO ANDRÉS GÓMEZ CANO

**Present Address**

Department of Biochemistry and Molecular Biology

603 Wilson Rd, Rm. 210, Michigan State University,

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**Education**

2007-2013 B.Sc., Biology, Deparment of Biology, Universidad Nacional de Colombia,

Colombia. Thesis work: Cloning candidate resistance genes RXam1 and

RXam2 in the binary vector whit the 35S promoter for stable genetic

transformation in cassava (*Manihot esculenta* Crantz). PI, Dr. Camilo Lopez

2013-2015 M.Sc., Biology. Biological Science. Universidad de los Andes, Colombia.

Thesis work: Metabolic Network Reconstruction of *Manihot esculenta* Crantz.

2018-present PhD student. Department of Biochemistry and Molecular Biology. Michigan

State University. USA.

**Fellowships**

2019-2020-The NRT-IMPACTS (Integrated training Model in Plant And CompuTational Sciences)

**Academic Experience**

8/2017 – 8/2018: Visiting Scholar –Grotewold Lab, Michigan State

University, USA

4/2015 – 8/2017: Visiting Scholar – CAPS Computational Biology

Laboratory (CCBL) and Grotewold Lab, The Ohio State

University, USA

8/2014 – 12/2014: Assistant Professor, Cellular Biology – Laboratory, Biology

Department, Universidad de los Andes, Colombia

1/2014 – 5/2014: Assistant Professor, Cellular Biology – Laboratory, Biology

Department, Universidad de los Andes, Colombia

8/2013 – 12/2013: Assistant Professor, Cellular Biology – Laboratory, Biology

Department, Universidad de los Andes, Colombia

**Peer Reviewed Publications**

Zhou P, Li Z, Magnusson E, **Gomez-Cano F**, Crisp PA, Noshay J, Grotewold E, Hirsch C, Briggs SP, Springer NM., Meta Gene Regulatory Networks in Maize Highlight Functionally Relevant Regulatory Interactions. Plant Cell. Mar 17. pii: tpc.00080.2020. doi: 10.1105/tpc.20.00080

Gomez-Cano L, **Gomez-Cano F**, Dillon F, Alers-Velazquez Roberto, Doseff A, Grotewold E, Gray J. (2020). Discovery of modules involved in the biosynthesis and regulation of maize phenolic compounds. Plant Science 291, 110364

Jiang N, Lee YS, Mukundi E, **Gomez-Cano F**, Rivero L, Grotewold E. (2020). Diversity of genetic lesions characterizes new Arabidopsis flavonoid pigment mutant alleles from T-DNA collections. Plant Science 291, 110335.

**Gómez-Cano F**, Soto J, Restrepo S, Bernal A, López-Kleine L, López C., (2018). Gene Co-Expression Network for Xanthomonas-Challenged Cassava Reveals Key Regulatory Elements of Immunity Processes. European Journal of Plant Pathology 153 (4), 1083-1104.

Yang F., Li W., Jiang N., Yu H., Morohashi K., Ouma W.Z., Morales-Mantilla D.E., **Gomez-Cano F.A**., Mukundi E., Prada-Salcedo L.D., Velazquez R. A., Valentin J., Mejía-Guerra M.K., Gray J., Doseff A.I., and Grotewold E. (2017). A Maize Gene Regulatory Network for Phenolic Metabolism. Mol. Plant. 10, 498–515.

Mukundi E, **Gomez-Cano F**, Ouma W.Z and Grotewold E. (2017) Design of Knowledge Bases for Plant Gene Regulatory Networks. Springer Protocols: Methods Mol Biol.1629: 207-223.

Alvarez-Silva MC, Álvarez-Yela AC, **Gómez-Cano F**, Zambrano MM, Husserl J, Danies G, Restrepo S, González-Barrios AF. (2017) Compartmentalized Metabolic Network Reconstruction of Microbial Communities to Determine The Effect Of Agricultural Intervention On Soils. PLoS One. 12(8): e0181826.

Soto Sedano JC, Mora Moreno RE, Mathew B, Léon J, **Gómez Cano FA**, Ballvora A, López Carrascal CE. (2017) Major Novel QTL for Resistance to Cassava Bacterial Blight Identified through a Multi-Environmental Analysis. Front Plant Sci. 8: 1169.

Muñoz-Bodnar A, Perez-Quintero AL, Gomez-Cano F, Gil J, Michelmore R, Bernal A, Szurek B, Lopez C. (2014) RNAseq Analysis of Cassava Reveals Similar Plant Responses Upon Infection with Pathogenic and Non-pathogenic Strains of *Xanthomonas axonopodis* pv. manihotis. Plant Cell Rep. Vol 33 (11): 1901-1912.

**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. 59 th Annual Maize Genetics Conference 2017. St. Louis, Missouri, USA.

Mejia-Guerra MK., Li, W., **Gomez-Cano F**., Dosseff A, Grotewold E., Genome-wide characterization of maize promoter regions and repeat architecture. 58 th Annual Maize Genetics Conference 2016. Jacksonville, Florida, USA.

**Gomez-Cano F.,** Álvarez-Silva M.C., Alvarado C., Zarate C., Jimenez E., Pardo C., Botero D., Gonzalez A., Bernal A., Reconstruction of Genome-Scale Metabolic Networks of Species of the Genus Xanthomonas with Different Pathogenic Behavior. 5th Xanthomonas Genomics Conference 2015. Bogota – Colombia.

**Scientific Activities**

*Scientific Publication Reviewer*

2017 - Plant and Cell Physiology

**Courses and Workshops**

2014 4th Practical Summer Workshop in Functional Genomics. Center for Applied

Plant Sciences. The Ohio State University. USA

2014 Bioinformatics Workflows in the Cloud: Sequence analysis reach to everyone.

Universidad de los Andes, Colombia.