

Ricardo I. Alcalá-Briseño

Contact Information Department of Plant Pathology cell phone: (352) 460-8011  
University of Florida work phone: (352) 273-4632  
Gainesville, FL 32611 USA E-mail: ralcala@ufl.edu, ricardoi.alcalab@gmail.com

Education Ph.D., Plant Pathology  
University of Florida,  
*Department of Plant Pathology, Food Systems Institute, & Emerging Pathogens Institute*  
Gainesville, Florida, USA. May 2021.

Dissertation Topic: “Virome Network Analysis: A network framework for studying landscape agroecological of plant viromes for disease management.

Advisor: Karen A. Garrett

M.Sc., Plant Biotechnology  
CINVESTAV-IPN. Research Center of Advance Studies at National Polytechnic Institute  
*Department of Genetic Engineering*  
Irapuato, Guanajuato, Mexico. August, 2012.

Thesis Topic: “Characterization of Sugarcane mosaic virus (SCMV) –CAM6–1, an approach to identify the molecular mechanism of virus –host interaction in two different hosts: sugarcane and maize”

Advisor: Laura Silva-Rosales

B.S., Biology  
University of Guadalajara, University Center of Biological and Agricultural Sciences (CUCBA)  
Guadalajara, Jalisco, Mexico, Feb, 2008.

Thesis Topic: “Development of RNA chromatography to identify proteins that interact with the 5’ UTR of Sugarcane mosaic virus (SCMV) infecting maize”

Research done in the *Department of Genetic Engineering* at CINVESTAV -IPN.  
Irapuato, Guanajuato. Feb 2007 – Feb 2008.

Advisor: Laura Silva-Rosales

Honors and Awards  
International Outstanding Achievement Award 2018. College of Agriculture and Life Sciences,  
University of Florida.

Scholarships  
2019–2021 Research Assistantship (University of Florida). Jul 2019 – May 2021.

Manuscript in preparation

Etherton BA, Choudhury R, , Xing Y, Alcalá Briseño RI, Crane JH, Evans E, Wasielewski J, Stelinski LL, Ploetz R, Grogan K, Garrett KA. Regional network analysis to understand the effects of farmer management decisions on the avocado laurel wilt epidemic in Florida

Publications

2020

Alcalá-Briseño RI, Casarrubias-Castillo K, López-Ley D, Garrett KA, Silva-Rosales L. Network analysis of the papaya orchard virome from two agroecological regions of Chiapas, Mexico. *mSystems*. 5(1):0423-19. (<https://doi.org/10.1128/mSystems.00423-19>)

Books and book chapters

Garrett KA, Alcalá-Briseño RI, Andersen KF, Choudhury RA, Dantes W, Fayette J, Fulton JC, Poudel R, Staub CG. 2020. Adapting disease management systems under global change. *Emerging Plant Diseases and Global Food Security*. Ristaino, JB, and Records, A. Eds. APS Publications. ISBN 9780890546383

Proceedings Alcalá-Briseño RI, Rodríguez-Ríos D, Echegoyen-Nava R, Alvarado Y, Zaina S, Lund G. Identification of DNA methylation targets of in transgenics mice lung by HpaII methyltransferase (HpaMT). *Avances de la investigación científica en el CUCBA*. XVIII semana de la investigación científica. pp. 178-181. Carbajal S. y Pimientos-Barrios E (eds). Universidad de Guadalajara y Consejo Estatal de Ciencia y Tecnología. Gobierno del Estado de Jalisco. Zapopan, Jal. México. 2007 (ISBN 9789702712800).

Invited Presentations Master lecture at the *Symposium of the Peru Potato Virome: Project results and closure*. Papaya Virome in Southeast Mexico: Discovery of associations of viruses using viral metagenomics and network analysis. International Potato Center (CIP). Lima, Peru. March 19, 2019.

Upcoming Presentations

Plex Sulá AI\*, Alcalá Briseño RI, Xing Y, Etherton BA, Andersen KF, Andrade-Piedra JL, Dita Rodríguez MA, Hodson D, Jarvis A, Kreuze JF, Sonder K, Suresh LM, Garrett KA. Geographic disease risk analysis for major crops of Central America and Mexico: regional analyses and global