

Freddy Magdama
Professor



<https://scholar.google.com/citations?user=6FiHakgAAAAJ&hl=es>

EDUCATION

Ph.D. Plant Pathology and International Agriculture and Development, 2017, Penn State University, Pennsylvania, United States of America

B. Eng. Agricultural and Biological Engineering, 2010, ESPOL University, Guayaquil, Ecuador

SERVICE ON THIS FACULTY (5 years)

2017-present, Professor

OTHER RELATED EXPERIENCE

CONSULTING AND PATENTS (n/a)

STATE IN WHICH REGISTERED (n/a)

PUBLICATIONS LAST FIVE YEARS (13 of 15 Selected)

1. Figueiredo Silva, Felipe, Scott Kaplan, Freddy Arturo Magdama Tobar, Matthew D. Potts, Ramon Leonardo Espinel Martinez, and David Zilberman. Estimating Worldwide Benefits from Improved Bananas Resistant to Fusarium Wilt Tropical Race 4. *Journal of the Agricultural and Applied Economics Association*. 1-15. <https://doi.org/10.1002/jaa2.41>. (2023).
2. Quevedo, Adela, Magdama, Freddy, Castro, Jessenia, & Vera-Morales, Marcos. Interacciones ecológicas de los hongos nematófagos y su potencial uso en cultivos tropicales. *Scientia Agropecuaria*. 13(1), 97-108. <https://dx.doi.org/10.17268/sci.agropecu.2022.009>. (2022).
3. Villavicencio Mirian, Sosa Daynet, Vera Marcos, Espinoza Fernando, Quevedo Adela, Magdama Freddy, Serrano Lizette, Pérez-Martínez Simón, Castañeda-Ruiz Rafael F. *Zanclospora bicolorata* sp. nov. from Ecuador. *Mycotaxon*. 135 (4), pp. 895-900. (2020).
4. Quevedo Adela, Sosa Daynet, Vera Marcos, Espinoza Fernando, Magdama Freddy, Serrano Lizette, Villavicencio Mirian, Castañeda-Ruiz Rafael F. *Beltrania nodulosa* sp. nov. from Ecuador. *Mycotaxon*. 135(4), pp. 853-860. (2020).
5. Vera Marcos, Sosa Daynet, Magdama Freddy, Quevedo Adela, Espinoza Fernando, Serrano Lizette, Villavicencio Mirian, Choez-Guaranda Iván, Pérez-Martínez Simón, Castañeda-Ruiz Rafael F. *Similitrichoconis wongii* gen. & sp. nov. from Ecuador. *Mycotaxon*. 135 (4), pp. 829-838. (2020).
6. María Fernanda González, Freddy Magdama, Luis Galarza, Christian Romero. Evaluation of the sensitivity and synergistic effect of *Trichoderma reesei* and mancozeb to inhibit under in vitro conditions the growth of *Fusarium oxysporum*.

- Communicative & Integrative Biology. 13(1), pp. 160-169, DOI: 10.1080/19420889.2020.1829267.(2020).
7. Magdama, F., Monserrate-Maggi, L., Serrano, L., García Onofre, J., & Jiménez-Gasco, M. del M. Genetic Diversity of *Fusarium oxysporum* f. sp. cubense, the *Fusarium* Wilt Pathogen of Banana, in Ecuador. *Plants*, 9(9), 1133. doi:10.3390/plants9091133. (2020).
 8. Magdama Freddy, Sosa Daynet, Espinoza Fernando, Serrano Lizette, Pérez-Martínez, Simón, Malosso Elaine, Hernández-Restrepo Margarita, Castañeda-Ruiz Rafael F. *Guayaquil* sp. nov., typified by *Idriella cubensis*. *Mycotaxon*. 135(3), pp. 501-512. (2020).
 9. Serrano Lizette, Sosa Daynet, Magdama Freddy, Espinoza Fernando, Quevedo Adela, Vera Marcos, Villavicencio Miriam, Maridueña Gabriela, Pérez-Martínez Simón, Malosso Elaine, Ramos-García Beatriz, Castañeda-Ruiz Rafael F. *Neomyrmecridium asymmetricum* sp. nov. from Ecuador. *Mycotaxon*. 135 (1), pp. 151-165. (2020).
 10. Kai Zhang, Weihua Guo, Daynet Sosa, Freddy Magdama, Lizette Serrano, Elaine Malosso, De-Wei Li, Rafael F. Castañeda-Ruiz. Phylogeny and morphology of *Ellismarsporium parvum* and the new combination *E. varium*. *Mycotaxon*. 135, pp. 443-452. (2020).
 11. Fernando Espinoza, Daynet Sosa, Lizette Serrano, Adela Quevedo, Freddy Magdama, Marcos Vera, Simón Pérez-Martínez, Elaine Malosso, Rafael F. Castañeda-Ruiz. *Bactrodesmium pulcherrimum* sp. nov. from Ecuador. *Mycotaxon*. 134, pp. 627-632. (2019).
 12. Magdama F, Monserrate-Maggi L, Serrano L, Sosa D, Geiser DM, Jiménez-Gasco MdM. Comparative analysis uncovers the limitations of current molecular detection methods for *Fusarium oxysporum* f. sp. cubense race 4 strains. *PLoS ONE* 14(9): e0222727. <https://doi.org/10.1371/journal.pone.0222727>.(2019).
 13. Daynet Sosa, Adela Quevedo, Fernando Espinoza, Lizette Serrano, Freddy Magdama, Marcos Vera, Simón Pérez-Martínez, Elaine Malosso, Rafael F. Castañeda-Ruiz. *Coronosporidium ecuadorianum* gen. & sp. nov. from submerged decaying leaf from Ecuador. *Mycotaxon* 134: 111-117 <https://doi.org/10.5248/134.111>. (2019).

PROFESSIONAL SOCIETIES

HONORS AND AWARDS

Recognition for Innovative research: “Cuartiles Mayores” award, 2021, ESPOL University, Guayaquil

Recognition of scientific research achievement on banana and plantain, 2017, Board of the scientific committee of the banana world summit of Ecuador, Guayaquil

Recognition of high scholarship and outstanding achievement, The Honor Society of Agriculture Gamma Sigma Delta, 2016, The Pennsylvania State University chapter, Pennsylvania

INSTITUTIONAL AND PROFESSIONAL SERVICE (LAST FIVE YEARS)

Interinstitutional Task force for the prevention of Fusarium Tropical Race 4 in Ecuador

TIME DISTRIBUTION

25% Teaching, 50% Research, 25% Management