Dra. Belinda Román Avilés

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Courses: BIOL3415, BIOL4915, BIOL3031, CIBI3001

Education:
Ph.D. Plant Breeding and Genetics- Crop and Soil Sciences
Michigan State University, 2001-2004

M.S. Agronomy- Plant Breeding
University of Puerto Rico Mayagüez, 1999- 2001

B.S. Agriculture Extension
University of Puerto Rico Mayagüez, 1994-1998

Professional Affiliations:
Colegio Agrónomos de Puerto Rico

Research Interests:
Mostly focus research on plant response to environment, plant pathogens, and plant genetics. Environmental pollution and human's vs plant health are some of the research topics worked with in the past as part of integrating students from biology into studying plants. Currently working on seeds and evolutionary characteristics vs environmental constrains.

Publications:
Román- Avilés, B., J.M. Lewis, and J.D. Kelly. 2011. 4. *Fusarium* genetic control: A long term strategy. In: Control of *Fusarium* Disease. Research Signpost. Kerala, India. p.65-108 ISBN: 978-81-308-0470-5

Bonilla Avilés, L. L., C. Estévez de Jensen, L. I. Rivera Vargas, and **B. Román Avilés.** 2011. Identification of powdery mildew in ornamentals and herbs in Puerto Rico. Abstracts, Phytopathology 101(6): (Supplement) S276

Kelly, J.D., G.V. Varner, **B. Roman**, and B. Long. 2009. Registration of 'Fuji' Otebo Bean. Journal of Plant Registrations. 3(3): 223-225

Kelly, J.D., G.V. Varner, B. Long, and **B. Roman**. 2008. Release of 'Fuji' Otebo Bean. Annual Report of the Bean Improvement Cooperative. 51:290

Román- Avilés, B. and J.D. Kelly. 2005. Identification of QTL conditioning resistance to *Fusarium* root rot in *Phaseolus vulgaris* L. Crop Sci 45: 1881- 1890

Román- Avilés, B. and J.S. Beaver. 2004. Inheritance of heat tolerance in common bean of Andean origin. J. Agric. Univ. Puerto Rico 87: 113- 121

Román- Avilés, B., S.S. Snapp and J.D. Kelly. 2004. Evaluation of bean classes for root traits differences associated with root rot resistance. Ann. Rep. Bean Improv. Coop. 47:59- 60

Román- Avilés, B., S.S. Snapp and J.D. Kelly. 2004. Assessing root traits associated with root rot resistance in common bean. Field Crop Res. 86: 147- 156

Román- Avilés, B., 2004. QTL analysis of resistance to *Fusarium* root rot in Andean bean populations and the influence of root architecture on disease development. Ph.D. Dissertation. Michigan State University, East Lansing, MI

Snapp, S.S., W. Kirk, **B. Román**, and J. Kelly. 2003. Root traits play a role in integrated management of *Fusarium* root rot in snap beans. HortScience 38: 187- 191

Román- Avilés, B., S.S. Snapp, J.D. Kelly, and W.W. Kirk. 2003. *Fusarium* root rot of common beans. Extension Bulletin- Michigan State University, Cooperative Extension Service (USA). No. E2876, 2p.

Román- Avilés, B. and J.S. Beaver. 2001. Heritability of heat tolerance of an Andean bean population. Ann. Rep. Bean Improv. Coop. 44: 49- 50

Román- Avilés, B. 2001. Heredabilidad de tolerancia al calor en una población de habichuela (*Phaseolus vulgaris* L.) de origen Andino. M.S. Thesis. University of Puerto Rico, Mayagüez, P.R. 56p.

Abstracts and Presentations:

Román-Avilés, B. June 1, 2018. "Banco de Semillas y Manejo de Plagas". Comunidad Santa Teresita, Cidra, P.R. Worshop: Blue Angels of the University of Puerto Rico at Cayey

Román-Avilés, B., Santos Loyo, N., Colon Santiago, P., Otero Vázquez, A.J. and Vázquez-Calle, F. March 15, 2015. About the effects of electromagnetic exposure in Puerto Rico: A questionnaire survey. 35th Annual Research and Education Forum. Recinto de Ciencias Médicas, Río Piedras, P.R. Poster Session A (Abstract A024 p.27)

Roman-Aviles, B. February 20, 2014. "The plant immune system: A review summary". Oral presentation to Sociedad Nacional de Honor de Biología Capítulo Zeta Épsilon, University of Puerto Rico at Cayey, PR

Román, B., Santos, N. and Colon, P. January 21, 2014. 'Sobre el efecto de la exposición electromagnética a través de las antenas de comunicación en Puerto Rico'. Speaker at the Professional Development Activity at UPR-Cayey

Román, B., Santos, N., Colon, P., and Otero, A. Octubre 17, 2013. 'Las antenas de transmisión; efecto ecológico y sobre los humanos'. Oral presentation at the 12mo Simposio Ambiental at the University of Puerto Rico at Cayey, PR

Roman-Aviles, B. January 18, 2011. "Amplification and direct sequencing of UPR-Cayey Library Fungal rRNA genes utilizing previously identified markers". Speaker at the Professional Development Activity at UPR-Cayey.

Others:
DISTANCE EDUCATION SEED ANALYST PROGRAM COURSES: from Colorado State University 2000-2001- Seed anatomy and identification & Seed development and metabolism

Participated in the Second Summer Course Entitled: Global Warming and Extreme Climate Phenomenon which took place from May 2-6, 2008 at the Hotel El Convento Old San Juan, PR

2002-2014: Developed and offer a 'Biotechnology Certification' through the Continuing Education Office at the University of Puerto Rico at Cayey