

Curriculum Vitae

RODRIGO A. VALVERDE

Professor

Department of Plant Pathology and Crop Physiology
Louisiana State University
Baton Rouge, LA 70803

Adjunct Professor

Advanced Biotechnology Program
University of Málaga, Spain

AREA OF RESEARCH INTERESTS

Characterization plant viruses and study their interaction with the host

ACADEMIC RECORD

- B. S. (Agronomy Engineer), University of Costa Rica (1977)
- M. S. (Plant Pathology), University of Arkansas (1980)
- Ph. D. (Plant Science), University of Arkansas (1983)

PROFESSIONAL EXPERIENCE

INSTITUTION	RANK OR POSITION	PERIOD OF APPOINTMENT
Louisiana State University	Professor	1997-present
Louisiana State University	Associate Professor	1992-1997
Louisiana State University	Assistant Professor	1988-1992
Ball PanAm Plant Company, Florida	Plant Pathologist	1987-1988
University of California, Davis	Postdoctoral Researcher	1986-1987
University of California, Riverside	Postdoctoral Fellow	1984-1986
University of Arkansas	Research and Teaching Assistant	1979-1983
Ministry of Agriculture, Costa Rica	Agricultural Extension Agent	1977-1978

SABBATICALS

- 2009-2010: Estación Experimental la Mayora, Consejo Superior de Investigaciones Científicas, Málaga, Spain
- 2002-2003: Estación Experimental Agrícola Fabio Baudrit Moreno, University of Costa Rica, Costa Rica and Estación Experimental El Zaidín, Consejo Superior de Investigaciones Científicas, Granada, Spain
- 1995-1996: Institute of Molecular Biology of Plants, Centre National de la Recherche Scientifique, Strasbourg, France

TEACHING EXPERIENCE

Courses Taught at Louisiana State University

- Plant Virology, PLHL 7040 (1988-present)
- Departmental Seminar, PLHL 7052
- Special Research Problem, PLHL 8900
- Phytonematology, PLHL 7000 (Guest lecturer)
- Practicum in Plant Pathology, PLHL 8800 (Guest lecturer)
- Introduction to pest management, PLHL 2050 (Guest lecturer)
- Host Parasite Interaction and Disease Resistance, PLHL 7080 (Guest lecturer)

Teaching Workshops

- Virus detection using dsRNA, University of Costa Rica, San José, Costa Rica, April 10-21 (2011)
- Virus detection techniques, National Agricultural University of Ukraine, Kiev, Ukraine April (2000)
- Workshop on plant virology at the Universities of Brasilia and Belo Horizonte, Brazil, August (1992)
- Recombinant DNA Technology Workshop, Louisiana State University Agricultural Center, March (1992)
- Plant Virus Identification Workshop, Louisiana State University, Baton Rouge, (1989)
- National Plant Virus Diagnosis Workshop, University of California, Riverside, November (1988)

GRADUATE STUDENTS SUPERVISED

- Florentino J. Fernandes, M. S. Thesis: Identification and frequency of cucurbit viruses in southeastern Louisiana (1989)
- Yong-Hwang Lee, Ph. D. Thesis: Genetic diversity of *Diaporthe phaseolorum* var. *caulivora*, the soybean stem canker pathogen (Minor professor) (1991)
- Chandrasekar Kousik, Ph. D. Thesis: Comparison of Rhizoctonia foliar blights of soybean with respect to infection process, double-stranded RNA components, and evaluation of resistance (Minor professor) (1991)
- Ramon Arancibia, M. S. Thesis: Characterization of a cryptic virus found in pepper cv. Jalapeño (1993)
- Randall Johnson, M. S. Thesis: Epidemiology of tomato spotted wilt virus in Louisiana (1994)
- Francis Can, Ph. D. Thesis: Pest identification and management in tomatillo in Louisiana (1994)
- Indra Ariyaratne, Ph. D. Thesis: Differentiation of tobacco etch virus strains affecting pepper (1995)
- Eliezer Rodrigues de Souto, Ph. D. Thesis: Biological and molecular properties of potyviruses isolates from sweet potato (1998)

- Donald Dufresne, M. S. Thesis: Effects of coinfections of Andean potato mottle virus with two potyviruses in pepper (1998)
- Pongtharin Lotrakul, Ph. D. Thesis: Biological and molecular properties of sweet potato leaf curl virus (2000)
- Jeonggu Sim, Ph. D. Thesis: Detection and identification of sweet potato viruses (2001)
- Dina Gutierrez, Ph. D. Thesis: Molecular diversity and coat protein expression of sweet potato leaf curl virus (2008)
- Favio Herrera, M. S. Thesis: Is the foliar yellow vein of some ornamental plants caused by plant viruses? (2014)
- Surasak Khankhum, Ph. D. Thesis: Persistent RNA viruses of common bean (*phaseolus vulgaris*): distribution and interaction with the host and acute plant viruses (2016)
- Cesar Escalante, M. S. Thesis: Comparison of two near-isogenic lines of bell pepper (*Capsicum annum*): one endornavirus-infected and the other endornavirus-free (2017)
- Rachel Hershlag, M. S. Thesis: Occurrence of putative endornaviruses in non-cultivated plant species and characterization of a novel endornavirus in *Geranium carolinianum* (2017)
- Cesar Escalante, Ph. D. Thesis: Endornaviruses of pepper (*Capsicum* spp.) and interactions of bell pepper endornavirus with the host and plant pathogens (In progress)
- David Galo, M. S. Thesis: Isolation of microorganisms associated with Roseau cane (*phragmites australis*) affected by die-off (In progress)
- Heather Cizek, M. S. Thesis: Evaluation of the response of Roseau cane (*phragmites australis*) to the effect of two biotic stresses: aphids and plant pathogens (In progress)

Committee Member /Thesis Reviewer, International Students

- Calendario Ortega Acosta, Ph. D. candidate, Colegio de Postgraduados, Montecillo, México (2020)
- Happyyness Gabriel Mollel, Ph. D., University of Málaga, Spain (2019)
- Jamie Wan Ling Ong, Ph. D., Murdoch University, Australia (2016)
- Helena Trenado, Ph. D., University of Málaga, Spain (2009)
- Rodolfo De La Torre Almaraz, Ph. D., Colegio de Postgraduados, Montecillo, México (1995)

INVITED LECTURESHIPS/SEMINARS

- Department of Plant Pathology and Microbiology, University of California, Riverside, October 29, 2020
- Center for Agrifood Research and Technology of Aragón, Zaragoza, Spain, May 20, 2019
- Department of Botany, Warsaw University of Life Sciences, Poland, May 15, 2019
- University of Malaga, Spain, April 18-19, 2018
- Azalea Society of America, Hammond, LA, March 31, 2017
- Museum of Natural Science, Louisiana State University, October 14, 2016
- Annual meeting of the American Phytopathological Society, Tampa, FL, August, 2016
- Annual meeting of the Costa Rican Society of Agronomy, San José, Costa Rica, October 24-27, 2016
- Department of Plant Pathology, University of Nebraska, Lincoln, NE, November 13, 2015
- Biological Sciences Department, Tulsa University, Tulsa, OK, March 15, 2015
- Annual meeting of the Mexican Society of Phytopathology, Mexico, July 20-24, 2014
- The 2014 Southern Region Master Gardener Conference, Baton Rouge, LA, October 21-24, 2014
- LSU Fascination of Plants Day Symposium, Baton Rouge, May 13, 2013
- National conference of the Society for Advancement of Chicanos/Hispanics and Native Americans in Science, San Jose, CA, October 27-30, 2011
- University of Costa Rica, San José, Costa Rica, April 10-21, 2011
- Centre for Research in Agricultural Genomics, Barcelona, Spain, February 19, 2010

- Department of Plant Pathology, University of Arkansas, Fayetteville, AR, February, 2008
- International *Trichoderma* and *Gliocladium* Workshop and VII National Congress of Phytopathology, San José, Costa Rica, May 21-23, 2008
- Instituto Valenciano de Investigaciones Agrarias, Valencia, Spain, 2002
- Mustafa Kemal University Faculty of Agriculture, Antakya, Turkey, April 15-18, 2001
- Cukurova University, Faculty of Agriculture, Adana, Turkey, April 19, 2001
- International Conference on Sweet Potato: Food and Health for the Future, Lima, Peru, 26-29 July, 2001
- International Workshop on Sweet Potato Cultivar Decline Study. Miyakonojo, Japan, September 8-9, 2000
- National Agricultural University of Ukraine, Kiev, Ukraine, June, 2000
- Annual Meeting of the Sweetpotato Council of the United States, Inc. Lafayette, LA , January 23-27, 1999
- Institute of Plant Molecular Biology. Strasbourg, France, November, 1995
- Texas Pepper Conference, Weslaco, TX, June 1, 1995
- Annual Meeting of the American Phytopathological Society-Caribbean Division. San Jose, Costa Rica. May 1991
- Annual Meeting of the Quebec Society for the Protection of Plants. Quebec, Canada, June 1990
- Department of Plant Pathology, University of Arkansas, Fayetteville, AR, 1989
- American Phytopathology Society Annual Meeting, San Diego, CA, 1988

VISITING SCIENTISTS

- Eliezer Rodrigues de Souto, Visiting professor, Universidade Estadual de Maringa, Brazil (2015)
- Rodolfo De La Torre, Visiting Scientist, Universidad Nacional Autónoma de México, México (2013)
- Rodolfo De La Torre, Visiting Fulbright Scholar, Universidad Nacional Autónoma de México, México (1998)
- Max Melnichuck, Pre-doctoral Student, National Agricultural University of Ukraine, Kiev, Ukraine (1997)
- Max Melnichuck, Post-doctoral Student, National Agricultural University of Ukraine, Kiev, Ukraine (2000)
- Houston Hobbs, Postdoctoral Researcher, USDA/ARS, Mississippi State University, MS (1990-1997)

HONORS AND AWARDS

- Erasmus+ STAFF Mobility Scholarship, Warsaw University of Life Sciences, Warsaw, Poland (2020)
- Fulbright Specialist (2019-2022)
- Service Award, LSU Inter-Institutional Biological and Recombinant DNA Safety Committee, Louisiana State University (2010)
- Research Fellowship Award by the Ministry of Education, government of Spain, Malaga, Spain (2010)
- Outstanding Achievement Award, Costa Rican Society of Plant Pathologists, San Jose, Costa Rica (2005)
- Tipton Team Research Award, in Recognition for Excellence in Research, Louisiana State University (2002)
- Research Fellowship Award by the Ministry of Education, government of Spain, Granada, Spain (2002)
- Honor Diploma, National Agricultural University of Ukraine, Kiev, Ukraine (2000)
- Teacher Merit Honor Roll, College of Agriculture and Gamma Sigma Delta, Louisiana State University (1998)
- Fulbright Scholar, Centre National de la Recherche Scientifique, Strasbourg, France (1995)
- International Leadership Award, City of Baton Rouge, Louisiana (1993)
- Outstanding Thesis Award, University of Costa Rica, San José, Costa Rica (1978)

DEPARTMENTAL SERVICE

- Chair of the Department program review “Self-Study Document”, (2005)
- Chair of the Department Graduate Student Admissions Committee (1993-2000)
- Member of the Department Graduate Student Admissions Committee (2000-present)
- Faculty Representative to Departmental Student Association (1997-2005) (2019-present)

UNIVERSITY SERVICE

- Member of the College of Agriculture Dean Committee (outstanding dissertation selection) (2015-2018)
- Faculty advisor to the Latin American Student Association (2011-2013)
- Member of the College of Agriculture Appeals Committee (2006-2010)
- Co-chair of the Basic Animal and Plant Biology AgCenter Committee (2005-2007)
- Board of Governors, LSU Faculty Club, Inc. (2005-2006)
- Member of the Louisiana State University/Louisiana Agriculture Center Inter-Institutional Biological and Recombinant DNA Safety Committee (IBRDSC) (2003-2018)
- LSU participant in the National Research Council Assessing of Research Doctorate Programs (2006)
- Member of the College of Agriculture Graduate Council (2001-2003)
- Member of Academic Program Review panel, Department of Biological Sciences, LSU (2002)
- Member of the Awards Committee, LSU Chapter, Gamma Sigma Delta (1993-chair 1995)
- College of Agriculture Policy Committee (1999)
- Judge at the Louisiana Science and Engineering Fair (1989-2004)
- Faculty advisor to the Latin American Student Association (2010-2012)

PROFESSIONAL SERVICE

Peer Reviewer

- Agronomía Mesoamericana, Acta Agronómica, Archives of Virology, Crop Protection, European Journal of Plant Pathology, HortScience, Journal of General Virology, Journal of Virological Methods, Journal of Plant Pathology, Phytopathology, Plant Disease, Plant Health Progress, Revista Mexicana de Fitopatología, Virus Genes, and Virus Research.
- Associate Editor: Revista Mexicana de Fitopatología (1996-present)
- Associate Editor Plant Disease (2015, 2018)

Member of Grant Review Panels

- National Science Foundation (2015)
- US-Israel Binational Agricultural Research and Development Fund (BARD) (2016, 2017)
- Plant Biosecurity, NIFA (2008 and 2009)

Grant Reviewer

- USDA/CSREES Biosecurity Grant Program, US-Israel Binational Agricultural Research and Development Fund (BARD), USDA-National Research Initiative Competitive Grants Program, USDA-Small Business Innovation Research Grants, Caribbean Initiative Advisory Group-Tropical Agriculture Research Proposals (USDA), Member of a Review Team of the Sweetpotato Quarantine Program of the USDA National Germplasm Research Laboratory, Quarantine Unit, The International Foundation for Science, Stockholm, Sweden

INTERNATIONAL LEADERSHIPS

- Chair of the International Committee of Virus Taxonomy Plant Virus Subcommittee: Family Endornaviridae (2011-present)
- Member of the organizing committee for the 4th Conference of the International Working Group on Legume and Vegetable Viruses, Málaga, Spain (2011)
- Member of a team that prepared Memorandum of Understanding between LSU AgCenter and Chulalongkorn University, Thailand (2014)
- Member of the organizing committee of the 8th International Plant Virus Epidemiology Symposium, Aschersleben, Germany (2002)
- Prepared and successfully established a Memorandum of Understanding between the Louisiana State University and Agricultural and Mechanical College, Louisiana State University Agricultural Center and Universidade Estadual de Maringa, Brazil (2012)

AMERICAN PHYTOPATHOLOGICAL SOCIETY (APS) COMMITTEES/SERVICE

- Chair APS/APHIS Widely Prevalent Virus Committee (2010-present)
- Faculty Mentor in Diversity and Equality, APS annual meeting in Austin, TX (2013)
- Plant Virology Committee (1986-1990)
- Tropical Plant Pathology Committee (2004-2007)
- Youth Programs Committee (1995-1997)
- Membership Committee, Southern Division-APS (1992-1993)
- Local Arrangements Committee Southern Division-APS Meeting (1995)

RESEARCH SUPPORT/GRANT ACTIVITIES

More than one million in grants from various agencies including USDA/ARS, US-Israel Binational Agricultural Research and Development (BARD), California Pepper Commission, Louisiana Board of Regents, Louisiana Soybean and Grain Research and Promotion Board, Fulbright, Government of Spain, University of Costa Rica, The International Potato Center, USDA/APHIS/PPQ, Louisiana Sweetpotato Advertising and Development Commission, The McIlhenny Company.

- Universidad Nacional del Centro del Perú. Identificación de complejo viral y manejo integrado de piña (*Ananas comosus*) en la selva central de Junín. \$20,000 (2020-2021)
- Cotton Incorporated. Further Defining the Threat of Cotton leaf roll-dwarf virus to Louisiana Cotton Production. \$4,000 (2020)
- USDA /ARS. Evaluation of the response of Roseau Cane to the Simultaneous Effect of Two Biotic Stresses: Insects and Plant Pathogens. \$40,260 (2019-2021)
- USDA/APHIS/PPQ. The Role of Scale Insects, Soil Chemistry and Plant Pathogens on Roseau Cane Die-Offs. \$425,000 (2018-2020)
- Louisiana Soybean and Grain Research and Promotion Board. Survey for Soybean Green Stem Disorder and Investigations on Graft and Seed Transmission. \$17,000 (2016-2017)
- Louisiana Soybean and Grain Research and Promotion Board. Fungal Infection, Transformation & Gene Silencing by a Plant Virus. \$10,000 (2016-2017)

- Louisiana Soybean and Grain Research and Promotion Board. Survey for Soybean Green Stem Disorder and Investigations on Graft and Seed Transmission. \$17,000 (2015-2016)
- Louisiana Sweetpotato Advertising and Development Commission. Research on Plant Pathology. \$6,700 (2015)
- US-Israel Binational Agricultural Research and Development Fund (BARD). Interactions between Bell pepper endornavirus and Acute Viruses in Bell Pepper and Effect to the Host. \$95,000 (2014-2015)
- Louisiana Soybean and Grain Research and Promotion Board. Surveying Louisiana Soybeans for Soybean vein necrosis and Soybean mottle mosaic. \$20,000 (2013-2014)
- Louisiana Soybean and Grain Research and Promotion Board. Surveying Louisiana Soybeans for Soybean vein necrosis and Soybean mottle mosaic. \$6,500 (2011-2012)
- Virus Detection Using dsRNA. University of Costa Rica, San José, Costa Rica, \$10,000 (2011)
- Louisiana Soybean and Grain Research and Promotion Board. Identification of Plant Viruses of Soybean in Louisiana. \$8,500 (2008-2010)
- Louisiana Soybean and Grain Research and Promotion Board. The Soybean Green Plant Problem: An Evaluation of Possible Influencing Factors. \$12,000 (2008-2010)
- Government of Spain, Ministry of Education. Non-pathogenic dsRNA Plant Viruses: Molecular and Biological Interactions with Pathogenic Plant Viruses of Tomato and Pepper. \$20,000 (2010)
- Louisiana Board of Regents. Molecular Characterization of dsRNA Viruses Infecting Rice and *Rhizoctonia solani*. \$10,000 (2008-2009)
- Louisiana Sweetpotato Advertising and Development Commission. Research on Sweet Potato Diseases. \$58,000 (1999-2008).
- Discover Life in America/All Taxa Biodiversity Inventory. Investigation on Fern Viruses. \$5,000 (2006)
- Survey for Viruses in Sweetpotato and Wild Relative Species and for Field Resistance to Viruses in Sweet potato Breeding Lines. USDA/ARS/ Cooperative Agreement \$7,805 (2004-2006)
- USDA. Technology Transfer and Market Development for the Gulf Coast Satsuma Mandarin Industry. \$14,444 (2002-2003)
- USDA Technology Transfer and Market Development for the Gulf Coast Satsuma Mandarin Industry. \$18,088 (2001)
- Government of Spain, Ministry of Education. Etiology of Whitefly-associated Viral Diseases of Sweetpotato in Spain. \$15,000 (2002)
- USDA/CSREES. Detection and Identification of Citrus tristeza virus Strains in Louisiana. \$17,000 (1999-2000)
- USDA/APHIS. Sweet potato virus survey. \$10,000 (1999-2000)

- Louisiana Soybean and Grain Research and Promotion Board: Delayed Maturity in Soybeans: Causes and Management Options. \$10,000 (1999-20000)
- The McIlhenny Company. Research on Pepper Viruses. \$32,000 (1993-2000)
- Louisiana Sweet potato Advertising and Development Commission. Research on Sweetpotato Viruses. \$4,625 (1998-1999)
- Louisiana Soybean and Grain Research and Promotion Board. Delayed Maturity in Soybeans: Causes and Management Options. \$23,000 (1998-1999)
- Abbot & Cobb Seed Company. Plant Pathology Research on Viruses. \$2,000 (1997-1998)
- California Pepper Commission. Maintaining and Improving a Collection of Pepper Isolates of Tobacco etch virus, Pepper mottle virus, and Potato virus Y. \$2,000 (1996-1997)
- California Pepper Commission. Maintaining and Improving a Collection of Pepper Viruses. \$5,500 (1996-1997)
- The Fulbright Commission. Cloning and Sequencing a dsRNA Inducing Male Sterility in Broad Bean. \$25,000 (1995-1996)
- California Pepper Commission. Maintaining and Improving a Collection of Pepper Viruses. \$10,000 (1995-1996)
- USDA-ARS Evaluation of Capsicum Accessions for Resistance to Potato virus Y, Tobacco etch, and Pepper mottle Viruses and their Potential to Differentiate Strains of these Viruses. \$20, 291 (1994-1995)
- USDA-IPM Southern Regional. Vectors and Hosts of Tomato Spotted wilt virus in Southeastern United States. \$98,672 (1991-1993)
- The American Society for Virology. Travel Grant to Attend the International Virology Congress. \$1,000 (1990)
- USDA-IPM Southern Regional. Vectors and Hosts of Tomato Spotted Wilt Virus in Southeastern United States. \$80,576 (1989-1991)
- The International Potato Center. Studies on Sweet potato Chlorotic Leaf Distortion. \$25,000 (1989-1991)
- Biomedical Research Support Grant (equipment grant). \$19,704 (1988)
- USDA/ARS. The Satellite Virus of Tobacco mosaic virus. \$90,000 (1986)

PUBLICATIONS

Books/ Book Chapters

- Tzanetakis, I. E., Sabanadzovic, S., and Valverde R. A. 2021. Amalgaviruses (*Amalgaviridae*). In: Encyclopedia of Virology 4th Edition, D. Banford and M. Zuckerman, Eds., Academic press (In press).

- Valverde, R. A., Khalifa, M., Okada, R., Fukuhara, T., and Sabanadzovic, S. 2019. The Online (10th) Report of the International Committee on Taxonomy of Viruses. *Endornaviridae*. https://talk.ictvonline.org/ictv-reports/ictv_online_report/positive-sense-rna-viruses/w/endornaviridae
- Valverde, R. A. and Sabanadzovic, S. 2014. Diseases caused by viruses. Pages 51 -55 in: Compendium of rhododendron and azalea diseases and pests, 2nd ed. R. G. Linderman and D. M. Benson, Eds. The American Phytopathological Society Press. S. Paul, MN.
- Valverde, R. A. and Clark, C. A. 2013. Begomoviruses. Pages 86-88 in: Compendium of sweetpotato diseases, pests, and disorders 2nd ed. C. A. Clark, D. M. Ferrin, T. P. Smith, and G. J. Holmes, Eds. The American Phytopathological Society Press. St. Paul, MN.
- Rao, G. P., Valverde, R. A., and Dovas, C. I. 2008. Techniques in Diagnosis of Plant Viruses Studium Press LLC, Houston, USA. 302 pp.
- Valverde, R. A. 2008. DsRNA as a detection and diagnostic tool for plant viruses. Pages: 49-60 in Techniques in diagnosis of plant viruses. Studium Press, LLC, Houston, USA.
- Valverde, R. A., Clark, C. A., Kokkinos, C. D., and Gutierrez, D. L. 2008. Sweet potato viral diseases. Pages: 251-272 in Characterization, diagnosis and management of plant viruses. Volume 1: Industrial crops. G. P. Rao, S. M. Khurana, and L. Lenardon eds. Studium Press, Houston, USA.
- Valverde, R. A. 2003. Andean potato mottle virus pepper strain. Page 26, In: Compendium of pepper diseases. The American Phytopathological Society. St. Paul, MN. USA.
- Clark, C. A., Fuentes, S., Hurtt, S., Moyer, J., Salazar, L., and Valverde, R. A. 2001. Some symptoms caused by viruses and virus-like agents in *Ipomoea batatas* and related species. Centro Internacional de la Papa/LSU Agricultural Center. Lima, Peru. 14 pp.
- Valverde, R. A. 1996. Spring Beauty Latent Bromovirus. Pages 1174-1175 in: Viruses of Plants. Brunt, A., Crabtree, K., Dallwitz, M., Gibbs, A., and Watson, L. Ed. CAB International. University Press, Cambridge, UK.
- Valverde, R. A., and Fulton, J. P. 1996. Comoviruses: Identification and Diseases Caused. Pages 17-33 in: The Plant Viruses: Polyhedral Virions and Bipartite RNA Genomes. Harrison, B. D., Ed. Plenum Publishing. New York, NY.
- Dodds, J. A., Valverde, R. A., and Matthews, D. M. 1988. Detection and interpretation of dsRNAs. Pages 309-326 in: Viruses of Fungi and Simple Eukaryotes. Koltin, Y. and Leibowitz, M. J., Eds. Marcel Dekker, Inc. New York, NY.

Articles in Refereed Journals

- Hershlag, R., Okada, R. Alcala-Briseño, R., Rodrigues de Souto, E., and Valverde, R. A. 2020. Identification of a novel endornavirus in *Geranium carolinianum* and occurrence in plants within three agroecosystems. *Virus Research* 288: (in press). doi.org/10.1016/j.virusres.2020.198116
- Price, T., Valverde, R. A., Raghuvinder, S., Davis, J., Brown, S., and Jones, H. 2020. First report of cotton leafroll dwarf virus in Louisiana. *Plant Health Progress* 21:142-143. doi: 10.1094/PHP-03-20-0019-BR
- Otulak-Kozziel, K., Kozziel, E., Escalante, C., and Valverde, R. A. 2020. Ultrastructural analysis of cells from bell pepper (*Capsicum annuum*) infected with bell pepper endornavirus. *Frontiers in Plant Science* 11:491. doi: 10.3389/fpls.2020.00491

Articles in Refereed Journals

- McCanless, A., Hultgren, A., Escalante, C., Ardt, A., and Valverde, R. A. 2019. *In-vitro* effect of two digestive enzymes and pH on the dsRNA of endornaviruses of bell pepper and melon. *Annals of Microbiology* 69:1583-1587. doi.org/10.1007/s13213-019-01530-2
- Alcalá-Briseño, R.I., Lotrakul, P., and Valverde, R. A. 2019. Genome sequence and phylogenetic analysis of a novel comovirus from tabasco pepper (*Capsicum frutescens*). *Virus Genes* 55:854-858. doi: 10.1007/s11262-019-01707-6
- Otulak-Koziel, K., Koziel, E., and Valverde, R. A. 2019. The respiratory burst oxidase homolog D (RbohD) cell and tissue distribution in potato–potato virus Y (PVYNTN) hypersensitive and susceptible reactions. *International Journal of Molecular Sciences*. 20:2741. doi: 10.3390/ijms20112741
- Valverde, Khalifa, M. A., Okada, R., Fukuhara, T., Sabanadzovic, S., and ICTV Report Consortium. 2019. ICTV Virus Taxonomy Profile: *Endornaviridae*. *Journal of General Virology* 100:1204-1205. doi 10.1099/jgv.0.001277
- Hershlag, R., Escalante, C., Rodrigues de Souto, E., Kankhum, S., Okada, R., and Valverde, R. A. 2019. Occurrence of putative endornaviruses in non-cultivated plant species in South Louisiana. *Archives of Virology* 164:1863-1868. doi.org/10.1007/s00705-019-04270-5
- Valverde, R. A., Escalante, C., and Khankhum, S. 2019. Endornaviruses in plants: mutualists or parasites. Pages 39-40 (e-Xtra) in: *Manipulating Wild and Tamed Phytobiomes: Challenges and Opportunities*. *Phytobiomes Journal* 3:3-21Phytobiomes. e-Xtra (pages 106-107). doi.org/10.1094/PBIOMES-01-19-0006-W
- Escalante, C. and Valverde, R. A., 2019. Morphological and physiological characteristics of endornavirus-infected and endornavirus-free near-isogenic lines of bell pepper (*Capsicum annuum*). *Scientia Horticulturae* 250:104-112. doi.org/10.1016/j.scienta.2019.02.043
- Okada, R., Alcalá-Briseño, R. I., Escalante, C., Sabanadzovic S., Valverde, R. A. 2018. Genomic sequence of a novel endornavirus from *Phaseolus vulgaris* and occurrence in mixed infections with two other endornaviruses. *Virus Research* 257:63-67.
- Escalante, C., Bollich, P., and Valverde R. A. 2018. Soybean vein necrosis-associated virus naturally infecting yard-long bean (*Vigna. unguiculata* ssp. *sesquipedalis*) and soybean (*Glycine max*) in Louisiana. *Plant Disease* 102:2047. doi.org/10.1094/PDIS-03-18-0469-PDN
- Alcalá-Briseño, R. I., Okada, R., Herrera, F., and Valverde, R. A. 2018. A novel endornavirus isolated from cluster bean (*Cyamopsis tetragonoloba*). *Archives of Virology* 163:2279-2282.
- Escalante, C., Alcalá-Briseño, R. I., and Valverde, R. A. 2018. First report of a mixed infection of pepper mild mottle virus and tobacco mild green mosaic virus in pepper (*Capsicum annuum*) in the United States. *Plant Disease* 102:1469. doi.org/10.1094/PDIS-11-17-1847-PDN
- Khankhum, S. and Valverde, R. A. 2018. Physiological traits of endornavirus-infected and endornavirus-free common bean (*Phaseolus vulgaris*) cv Black Turtle Soup. *Archives of Virology* 163:1051-1056. doi 10.1007/s00705-018-3702-4
- Khankhum, S., Escalante, C., Rodrigues de Souto, E., and Valverde R. A. 2017. Extraction and electrophoretic analysis of large dsRNAs from desiccated plant tissues infected with plant viruses and biotrophic fungi. *European Journal of Plant Pathology* 147:431-441. doi: 10.1007/s10658-016-1014-7

Articles in Refereed Journals

- Valverde, R. A. and De La Torre-Almaraz, R. 2017. Extraction and purification of large dsRNAs from virus-infected plants and fungi: applications in virus detection and identification. *Revista Mexicana de Fitopatología* 35:80-105. doi: 10.18781/R.MEX.FIT.1606-9
- Okada, R., Kiyota, K., Moriyama, H. Fukuhara, T., and Valverde, R. A. 2017. Molecular and biological properties of an endornavirus infecting winged bean (*Psophocarpus tetragonolobus*). *Virus Genes* 53:141-145. doi: 10.1007/s11262-016-1398-7
- Khankhum, S., Sela, N., Osorno, J. M., and Valverde, R. A. 2016. RNAseq Analysis of endornavirus-infected vs. endornavirus-free common bean (*Phaseolus vulgaris*) cultivar Black Turtle Soup. *Frontiers in Microbiology* 7:1905. doi.10.3389/fmicb.2016.01905
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