CURRICULUM VITAE

CONTACT INFORMATION

Name: Leonardo De La Fuente Berardi

Birth place: Montevideo, Uruguay

Citizenship: USA, Uruguay

Birth date: 06/25/1969

Home address: 660 East Lane, Auburn, Alabama 36830

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EDUCATION

Ph. D. in Plant Pathology (2005)
Department of Plant Pathology, Washington State University, Pullman, Washington, USA.

M. S. in Biology. Minor: Microbiology (2000)
PEDECIBA (Program for the Development of Basic Sciences), University of the Republic, Montevideo, Uruguay.

B. S. in Biochemistry (1996)
School of Sciences, University of the Republic, Montevideo, Uruguay.

RESEARCH INTERESTS

My research interests are focused on the interactions between plants and associated microorganisms. Particularly, I am interested in infection processes, host colonization, biofilm formation, and molecular characterization of bacterial plant pathogens. I am answering research questions about the biology of pathogenic bacteria using a variety of microbiology and molecular biology techniques, as well as nanotechnology.

LANGUAGES

English and Spanish.

MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL ORGANIZATIONS

- Chair of Bacteriology Committee, American Phytopathological Society (2011-2014)
- Associate Editor Phytopathology (2015-present); Spanish Journal of Agricultural Research, Madrid, Spain (2012-present); and Agrociencia, Montevideo, Uruguay (2010-present).
- Member APS Press Editorial Committee (2016-present).
- Participation as expert in several working groups for the European Food and Safety Authority (EFSA) (2015, 2016)
- Panel review member for Pierce's Disease-Glassy Winged Sharpshooter (PD-GWSS) program of the California Department of Food and Agriculture (2014, 2015, 2016), NIFA-AFRI A1121 Plant Associated Microbes and Plant-Microbe Interactions Program (2015), NIFA-SCRI Emergency Citrus Disease Research and Extension (2016), BARD US panel (2016), and Hatch program (2013, Auburn University).
- Ad hoc reviewer for multiple journals (> 120 manuscripts) and proposals submitted to funding agencies in the US (NSF, NIFA-AFRI, CRDF), Canada, Israel, Uruguay and Chile.
- Senator for the Department of Entomology and Plant Pathology, Auburn University (2012-2015)
- Graduate Program Officer (2012-present), Plant Pathology, Auburn University
- Senator of the students of the Department of Plant Pathology at the Graduate and Professional Students Association (GPSA) of the Washington State University (2003-2004).
- Member American Society for Microbiology (2008-present)
- Member American Phytopathological Society (APS) (2002-present).
- Member of the Board of Directors of the Uruguayan Society of Microbiology (SUM) (2000-2001).

SYNERGISTIC ACTIVITIES

1) Design and teaching courses at Auburn University: Molecular Plant Pathology (PLPA8880), Plant-Bacterial Interactions (PLPA7300), Journal Review of Entomology and Plant Pathology (PLPA/ENTM 8930), and Undergraduate Research (PLPA4980); and abroad "Molecular interactions plant-pathogen", "Molecular biology of phytopathogenic bacteria: bioinformatics and experimental approaches" (University of the Republic, Montevideo, Uruguay), "Advanced course on quarantine plant pathogenic bacteria for the European Union" and "Advanced course on *Xylella fastidiosa*, a quarantine plant pathogenic bacterium for the European Union" (Institute for Sustainable

Agriculture, Córdoba, Spain). 2) Trained more than 35 undergraduate, 8 graduate students, 3 postdocs and 1 research assistant in my lab, which collectively obtained 23 awards and fellowships, and completed 5 Honors Thesis. 3) Judge for multiple undergraduate and graduate research presentations competitions. 4) Host to visiting graduate students from abroad. 5) More than 30 presentations at regional, national and international scientific meeting, invited seminars, and outreach presentations in the last 5 years.

RESEARCH EXPERIENCE

- Associate Professor (2014-present). Department of Entomology and Plant Pathology. Auburn University, Auburn, Alabama.
- Assistant Professor (2008-2014). Department of Entomology and Plant Pathology. Auburn University, Auburn, Alabama.
- Postdoctoral Research Associate. Department of Plant Pathology and Plant-Microbe Biology, New York State Agricultural Experiment Station, Cornell University, Geneva, NY. 2005-2008.
- Research assistantship. Department of Plant Pathology, Washington State University, Pullman, WA (2001-2005).
- Research Assistant for Project "Reduction of the chemical inputs in a vegetable crop by the use of beneficial rhizospheric microorganisms." Project Director: Philippe Lemanceau (INRA, Dijon, France). Funded by European Union. INCO-DC EU. (1999-2001).
- Research Assistant for Project "Development of a technological approach for the biocontrol of seedling diseases in forage legumes." Project Director: Alicia Arias. Funded by INIA-IDB (1999-2001).
- Research and Teaching Assistant I at the Biochemistry Associate Unit (Department of Biochemistry, Faculty of Science, University of the Republic, Montevideo, Uruguay). Supervisor: Ricardo Ehrlich (1997-2001).
- Research scholar of the Ministry of Education at the Instituto de Investigaciones Biológicas Clemente Estable (Montevideo, Uruguay) Supervisor: Alicia Arias (1996-2000)
- Research and Teaching Assistant I at Nitrogen Fixation and Mycorrhizal Fungi Associate Unit (Department of Microbiology, Faculty of Agrononomy, University of the Republic, Montevideo, Uruguay). Supervisor: Lillián Frioni (1996-1997).
- Research Assistant I for Project "Iron acquisition systems in a rhizobial strain (Rm242)". Project Director: Alicia Arias. Funded by CSIC. Department of Biochemistry, Instituto de Investigaciones Biológicas Clemente Estable (Montevideo, Uruguay) (1996-1997).

- Research scholar for Project "Biological Control of phytopathogens for the improvement of BNF in leguminous". Project Director: Alicia Arias. Funded by IDB-CONICYT. Department of Biochemistry, Instituto de Investigaciones Biológicas Clemente Estable (Montevideo, Uruguay) (1994-1996).

TEACHING EXPERIENCE

1. Teaching graduate course Plant-Bacterial Interactions (PLPA 7300), Department of Entomology and Plant Pathology, Auburn University. 2014- present.
2. Teaching graduate course Physiological and Molecular Plant Pathology (PLPA 8880), Department of Entomology and Plant Pathology, Auburn University. 2010- present.
3. Teaching course Journal Review Entomology and Plant Pathology (PLPA/ENTM 7930/8930). Department of Entomology and Plant Pathology, Auburn University. 2009- present.
4. Teaching undergraduate research for Biological Sciences students (Undergraduate Research PLPA 4980, PLPA 4930, PLPA 4960, BIOL 4980, PLPA 4997 Honors Thesis). 2009- present.
5. Teaching intensive graduate course "Biología molecular de bacterias fitopatógenas: enfoques bioinformáticos y experimentales" ("Molecular Biology of plant pathogenic bacteria: bioinformatics and experimental approaches") funded by CABBIO (Centro Argentino Brasilero de Biotecnología) and ANII (Agencia Nacional de Investigación e Innovación). November 21-December 2, 2016. School of Chemistry (Facultad de Quimica), Universidad de la República, Montevideo, Uruguay.
6. Visiting professor at Universidad de Cordoba, Spain (Spring 2017); Departamento de Agronomía, ETSIAM.
7. Teaching intensive graduate course "Interacciones moleculares planta-patógeno", together with Saul Burdman. Organizer: M.J. Pianzzola (Facultad de Química, Universidad de la Republica, Montevideo, Uruguay). Funded by ANII (Agencia Nacional de Investigación e Innovación) 2009, 2011, 2013.
8. Teaching intensive graduate course "Advanced course on *Xylella fastidiosa*, a quarantine plant pathogenic bacterium for the European Union", 2015 Training Network courses [sponsored by Campus de Excelencia Internacional Agroalimentaria (ceiA3)]. Organizer: B.B. Landa. Cordoba, Spain, October, 2015.
9. Teaching intensive graduate course "Advanced Course On Quarantine Plant Pathogenic Bacteria For The European Union", 2014 Training Network courses [sponsored by Campus de Excelencia Internacional Agroalimentaria (ceiA3)]. Organizer: B. Landa. September, 2014.
10. Teaching at the NanoBioTechnology Center Summer Internship Program (Nanobiotechnology Center, Cornell University). Instructor: Jennifer Weil. 2007.

11. Supervision of REU (Research Experience for Undergraduates) student (Nanobiotechnology Center, Cornell University). Professors: Harvey Hoch and Mingming Wu. 2007.
12. Teaching Assistant in graduate and undergraduate course General Plant Pathology. Department of Plant Pathology, Washington State University (Pullman, WA, USA). Professor: Timothy D. Murray. 2004.
13. Teaching Assistant in Metabolism Workshops for the course of Biochemistry for B.Sc. in Biology. (Department of Biochemistry, Faculty of Sciences, University of the Republic, Montevideo, Uruguay). Instructor: Susana Castro. 2000.
14. Teaching Assistant for graduate course "Molecular basis of biocontrol in the rhizosphere." (PEDECIBA-Biology. Department of Biochemistry, Instituto de Investigaciones Biológicas Clemente Estable, Montevideo, Uruguay). Instructor: Alicia Arias, Linda Thomashow, Philippe Lemanceau and Nora Altier. 1999.
15. Teaching of 40-hours laboratory course "Metabolites involved in biocontrol activity of fluorescent *Pseudomonas.*" Associate Unit Biochemistry Instituto de Investigaciones Biológicas Clemente Estable (Department of Biochemistry, Faculty of Science, University of the Republic. Montevideo, Uruguay). Instructor: Leonardo De La Fuente. 1999-2000.
16. Teaching of 40-hour lab course "Iron acquisition systems in biocontrol rhizobacteria." Associate Unit Biochemistry Instituto de Investigaciones Biológicas Clemente Estable (Department of Biochemistry, Faculty of Science, University of the Republic. Montevideo, Uruguay). Instructor: Leonardo De La Fuente. 1997-1998.
17. Teaching Assistant in labs (40 hours) for Biochemistry course (Faculty of Science, University of the Republic. Montevideo, Uruguay). Topics: iron acquisition in rhizobacteria, gel filtration. 1994-1997.

GRANTS AND HONORS

1. NIFA-SCRI-CDRE. 2016-2020. Development of Tools for Evaluating and Communicating Short Term Solutions for HLB. Gabriel, D., M. Davis, N. Killiny, P. Roberts (University of Florida); L. De La Fuente (Auburn University); K. Jones (Florida State University); W. Ma, G. Vidalakis (UC Riverside); O. Alabi (Texas A&M); Y.-P. Duan (USDA-ARS), and A. Castañeda (Instituto Colombiano Agropecuario, Colombia).
2. NIFA-SCRI-CDRE. 2016-2018. NIFA Centers of Excellence: Multifunctional Surface/Sub-Surface/Systemic Therapeutic (CoE:MS3T) Technology for HLB Management. S. Santra, L. Tetard, A. Gesquiere, K. Chumbimuni-Torres, W. H. Lee (University of Central Florida); Johnson, E., J. Graham (CREC, University of Florida); L. De La Fuente (Auburn University); N. Labbe (University of Tennessee); J. Lopez (Texas A&M); and E. Grafton-Cardwell (UC Riverside).

3. BARD (Israel/US). 2015-2016. Novel strategies and methodologies to control and study *Candidatus* Liberibacter diseases. O. Bahar (Volcani Center, Israel), L. De La Fuente and B. Falk (UC Davis, US).
4. CABBIO (Centro Argentino Brasilero de Biotecnología) and ANII (Agencia Nacional de Investigación e Innovación). 2016. Grant to teach in Uruguay the graduate course "Biología molecular de bacterias fitopatógenas: enfoques bioinformáticos y experimentales" ("Molecular Biology of plant pathogenic bacteria: bioinformatics and experimental approaches"). This course is offered for student in Latin America coming from Argentina, Brazil, Paraguay, Chile, Colombia and Uruguay. L. De La Fuente, S. Burdman, J.C. Setubal, E. Orellano, J. Huguet-Tapia, M.I. Siri, M.J. Pianzzola.
5. Scientific Advisory Board member for project "XfACTORS (*Xylella fastidiosa* Active Containment Through a Multidisciplinary-Oriented Research Strategy)", funded by the European Union, Horizon 2020.
6. 2015-2016 Provost's Award for Faculty Excellence in Fostering Undergraduate Research and Creative Scholarship, Auburn University.
7. 2015, 2016 Dean's Grantsmanship Award, College Of Agriculture, Auburn University.
8. Campus de Excelencia Internacional Agroalimentaria (ceiA3), Spain. Grant for teaching "Advanced course on *Xylella fastidiosa*, a quarantine plant pathogenic bacterium for the European Union", 2015 Training Network courses. October 5-9, 2015, Cordoba, Spain.
9. CDFA-PD/GWSS Program (California Department of Food and Agriculture). 2015-2016. Genome editing of TAS4, MIR828 and targets MYBA6/A7: a critical test of *Xylella fastidiosa* infection and spreading mechanisms in Pierce's disease. C.D. Rock (Texas Tech University), and L. De La Fuente.
10. NIFA-AFRI. 2015-2018. Calcium regulation of interactions between a xylem-inhabiting pathogenic bacterium and host plants. De La Fuente, P. Cobine, and A. Rashotte (Auburn University).
11. Bayer CropScience. 2015-2017. Root Colonization Impact on Efficacy of Plant Growth Promotion by PGPR, Votivo and Serenade. J. Kloepper, and L. De La Fuente.
12. NIFA-SCRI-CDRE. 2015-2020. Zinkicide™ A Nanotherapeutic for HLB. Johnson, E., J. Graham, M. Dewdney, A. Singerman, M. D. Danyluk (CREC, University of Florida); S. Santra, L. Tetard, A. Gesquiere (University of Central Florida); L. De La Fuente (Auburn University); L. Petridis (Oak Ridge National Laboratory); R. M. Johnson (The Ohio State University); and J. Gleason, B. Chamberlin (New Mexico State University).
13. AU-IGP (Auburn University Internal Grants Program), Level 3. 2014-2016. "Ca^{2+} transcriptional regulation in bacterial pathogens studied by microfluidics". De La Fuente, C. Arias, P. Panizzi.

14. Campus de Excelencia Internacional Agroalimentaria (ceiA3), Spain. Grant for teaching "Advanced Course On Quarantine Plant Pathogenic Bacteria For The European Union", 2014 Training Network courses. September 15-19, 2014, Cordoba, Spain.
15. Keynote speaker at the "X Encuentro Nacional de Microbiólogos, Sociedad Uruguaya de Microbiología", April 15-16 2013, Montevideo, Uruguay. Presentation: "Calcio modula la formación de biofilm en la bacteria fitopatógena *Xylella fastidiosa*."
16. AAES (Alabama Agricultural Experiment Station) Hatch Grant. 2012-2014. "Understanding metal remodeling of host plant during *Xylella fastidiosa* infection".
17. 2012 Schroth Faces of the Future-New Frontiers in Plant Bacteriology award, American Phytopathological Society.
18. Elected University Senator (2012-present) of the Department of Entomology and Plant Pathology, Auburn University.
19. Graduate Program Officer for Plant Pathology in the Department of Entomology and Plant Pathology (July 2011-present)
20. Invited key note speaker at the 44th Brazilian Phytopathological Society meeting, Bento Gonçalves, RS, Brazil. August 2011.
21. NSF-DMS (National Science Foundation, Division of Mathematical Sciences). 2011-2014. "Collaborative Research: Investigating the development and treatment of plant diseases caused by the bacterium *Xylella fastidiosa* using theoretical and experimental methods". N. Cogan, L. De La Fuente.
22. ANII (Agencia Nacional de Investigación e Innovación). 2009, 2011, 2013, 2016. Grant to teach in Uruguay the graduate course "Interacciones moleculares planta-bacterias fitopatógenas" ("Molecular Interactions Plant-Phytopathogenic Bacteria". L. De La Fuente, S. Burdman, M.J. Pianzzola).
23. AU-IGP (Auburn University Internal Grants Program). 2011. Inhibitory properties of new polymers against animal and plant bacterial pathogens. L. De La Fuente, M. Auad.
24. NIFA-AFRI. 2010-2014. "Ionomics of the plant pathogen *X. fastidiosa*: Trace elements and nutrients in disease progression". P. Cobine-L. De La Fuente.
25. FCPRAC - Florida Citrus Advanced Technology Program. 2010-2012. "Infection traits and growth of '*Candidatus* Liberibacter asiaticus' inside microfluidic chambers." L. De La Fuente, M. Hilf, T. Gottwald, H. Hoch.
26. AAES (Alabama Agricultural Experiment Station) Hatch Grant. 2009-2011. "Role of mineral nutrients in the infection process of *Xylella fastidiosa*".
27. Storkan-Hanes-McCaslin Foundation. 2004-2005. Grant: "Ecology of rhizosphere fluorescent *Pseudomonas* spp. involved in suppression of soilborne pathogens."

28. Graduate and Professional Students Association of the Washington State University. Graduate student travel grant to attend the 2004 APS Annual Meeting held at Anaheim, California (USA).
29. APS Student Travel Award to attend the 2003 APS Annual Meeting held at Charlotte, North Carolina (USA).
30. International Foundation for Science (IFS) (Sweden). 1999-2000. Grant: "Native fluorescent *Pseudomonas* as biocontrol agents of alfalfa seedling diseases."

PUBLICATIONS

1. **Kandel, P.P., S.M. Lopez, R.P.P. Almeida, and L. De La Fuente.** 2016. Natural competence of *Xylella fastidiosa* occurs at a high frequency inside microfluidic chambers mimicking the bacterium's natural habitats. *Applied and Environmental Microbiology,* 82:5269 –5277.
2. **Parker, J.K., H. Chen, S.E. McCarty, L. Liu, and L. De La Fuente**. 2016. Calcium transcriptionally regulates the biofilm machinery of *Xylella fastidiosa* to promote continued biofilm development in batch cultures. *Environmental Microbiology,* 18(5), 1620–1634.
3. **Candresse, T., Winters, S., L. De La Fuente, M.A. Jacques, C. Bragard and others**. 2016. EFSA PLH Panel (EFSA Panel on Plant Health). Susceptibility of *Citrus* spp., *Quercus ilex* and *Vitis* spp. to *Xylella fastidiosa* strain CoDiRO. *EFSA Journal* 2016; 14(10):4601 [19 pp.]. doi:10.2903/j.efsa.2016.4601
4. **Winters, S., L. De La Fuente, M.A. Jacques, C. Bragard and others**. 2016. EFSA PLH Panel (EFSA Panel on Plant Health). Statement on diversity of *Xylella fastidiosa* subsp. *pauca* in Apulia. *EFSA Journal* 2016; 14(8):4542, 19 pp. doi:10.2903/j.efsa.2016.454
5. **Winters, S., C. Bragard, L. De La Fuente, S. Parnell and others**. 2016. EFSA PLH Panel (EFSA Panel on Plant Health). Treatment solutions to cure *Xylella fastidiosa* diseased plants. *EFSA Journal* 2016; 14(4):4456 [12 pp.]. doi: 10.2903/j.efsa.2016.4456
6. **Winters, S., C. Bragard, L. De La Fuente, S. Parnell and others**. 2016. EFSA PLH Panel (EFSA Panel on Plant Health). Scientific opinion on four statements questioning the EU control strategy against *Xylella fastidiosa*. *EFSA Journal* 2016; 14(3):4450 [24 pp.]. doi: 10.2903/j.efsa.2016.4450.
7. **Navarrete, F., and L. De La Fuente.** 2015. Zinc detoxification is required for full virulence and modification of the host leaf ionome by *Xylella fastidiosa*. *Molecular Plant-Microbe Interactions,* 28(4):497-507.

8. **Parker, J.K., L.F. Cruz, M.R. Evans, and L. De La Fuente**. 2015. Presence of calcium-binding motifs in PilY1 homologs correlates with Ca-mediated twitching motility and evolutionary history across diverse bacteria. *FEMS Microbiology Letters*, 362(4):1-9.

9. **Oliver, J.E., P. A. Cobine, and L. De La Fuente.** 2015. *Xylella fastidiosa* isolates from both subsp. *multiplex* and *fastidiosa* cause disease on southern highbush blueberry (*Vaccinium* sp.) under greenhouse conditions. *Phytopathology*, 105(7):855-862.

10. **Winters, S., C. Bragard, L. De La Fuente, E. Rogers and others**. 2015. EFSA PLH Panel (EFSA Panel on Plant Health). Scientific opinion on *Vitis* sp. response to *Xylella fastidiosa* strain CoDiRO. EFSA Journal 2015; 13(11):4314. 20 pp. doi:10.2903/j.efsa.2015.4314.

11. **Whidden, M., N.G. Cogan, M.R. Donahue, F. Navarrete, and L. De La Fuente.** 2015. A two-dimensional multiphase model of biofilm formation in microfluidic chambers. *Bulletin of Mathematical Biology*, 1-19. DOI 10.1007/s11538-015-0115-3.

12. **Sibaja B., E. Culbertson, P. Marshall, R. Boy, R.M. Broughton, A. Aguilar Solano, M. Esquivel, J.K. Parker, L. De La Fuente, and M.L. Auad.** 2015. Preparation of alginate–chitosan fibers with potential biomedical applications. *Carbohydrate Polymers*, 134:598-608.

13. **Leite, B., R. Dziedzic, Cruz, L.F., A.L. Gillian-Daniel, C. Nielsen, and L. De La Fuente.** 2015. The use of microcontact printing of thiols to evaluate attachment of *Xylella fastidiosa* under distinct conditions of calcium availability. Microscopy and Microanalysis 21 (Suppl 3), doi:10.1017/S143192761500433X.

14. **De La Fuente, L., F. Navarrete, J.E. Oliver, L.F. Cruz and P.A. Cobine.** 2015. The influence of metal elements on virulence in plant pathogenic bacteria. In *Virulence mechanisms of plant pathogenic bacteria*, American Phytopathological Society (APS) Press, St. Paul, Minnesota, USA. N. Wang, L. De La Fuente, J. Jones, J. Ham, F. White, G. Sundin, S. Hogenhaut, C. Roper (Eds.).

15. **Zaini, P.; S. Burdman, M. Igo, J.K. Parker and L. De La Fuente.** 2015. Fimbrial and afimbrial adhesins involved in bacterial attachment to surfaces. In *Virulence mechanisms of plant pathogenic bacteria*, American Phytopathological Society (APS) Press, St. Paul, Minnesota, USA. N. Wang, L. De La Fuente, J. Jones, J. Ham, F. White, G. Sundin, S. Hogenhaut, C. Roper (Eds.).

16. **Cursino, L., D. Athinuwat, K.R. Patel, C.D. Galvani, P.A. Zaini, Y. Li, L. De La Fuente, H.C. Hoch, T.J. Burr, and P. Mowery.** 2015. Characterization of the *Xylella fastidiosa* PD1671 Gene encoding degenerate c-di-GMP GGDEF/EAL domains, and its role in the development of Pierce's disease. PLoS ONE 10(3): e0121851. doi:10.1371/journal.pone.0121851.

17. **Cruz, L.F., J.K. Parker, P.A. Cobine, and L. De La Fuente.** 2014. Calcium-enhanced twitching motility in *Xylella fastidiosa* is linked to a single PilY1 homolog. *Applied and Environmental Microbiology*, 80 (23):7176-7185.

18. **Oliver, J.E., S. A. Sefick, J. K. Parker, T. Arnold, P. A. Cobine, and L. De La Fuente.** 2014. Ionome changes in *Xylella fastidiosa*-infected *Nicotiana tabacum* correlate with virulence and discriminate between subspecies of bacterial isolates. *Molecular Plant-Microbe Interactions*, 27(10):1048-1058.

19. **Navarrete, F., and L. De La Fuente.** 2014. *Xylella fastidiosa* response to zinc: decreased culturability, increased exopolysaccharide production, and resilient biofilms under flow conditions. *Applied and Environmental Microbiology*, 80 (3):1097-1107.

20. **Parker, J.K., S. R. Wisotsky, E. G. Johnson, F. M. Hijaz, N. Killiny, M. E. Hilf, and L. De La Fuente.** 2014. Viability of '*Candidatus* Liberibacter asiaticus' prolonged by addition of citrus juice to culture medium. *Phytopathology*, 104 (1):15-26.

21. **Cai, W., L. De La Fuente, C. R. Arias.** 2013. Biofilm formation by the fish pathogen *Flavobacterium columnare*: development and parameters affecting surface attachment. *Applied and Environmental Microbiology*, 79(18): 5633-5642.

22. **De La Fuente, L., J.K. Parker, J.E. Oliver, S. Granger, P.M. Brannen, E. van Santen, and P.A. Cobine**. 2013. The bacterial pathogen *Xylella fastidiosa* affects the leaf ionome of plant hosts during infection. *PLoS ONE*, 8(5): e62945. doi:10.1371/journal.pone.0062945.

23. **Cogan, N.G., M.R. Donahue, M. Whidden, and L. De La Fuente.** 2013. Pattern formation exhibited by biofilm formation within microfluidic chambers. *The Biophysical Journal*, 104(9):1867-1874.

24. **Cobine, P., L. Cruz, F. Navarrete, D. Duncan, M. Tygart, and L. De La Fuente**. 2013. *Xylella fastidiosa* differentially accumulates mineral elements in biofilm and planktonic cells. *PLoS ONE*, 8(1): e54936. doi:10.1371/journal.pone.0054936.

25. **Mavrodi, D. M., O.V. Mavrodi, L. De La Fuente, B.B. Landa, D.M. Weller, and L.S. Thomashow.** 2016. Management of plant pathogens and pests using microbial biological control agents. In *Plant Pathology Concepts and Laboratory Exercises*, 3rd ed. CRC Press (Taylor & Francis), USA, 2014. ISBN 9781466500815. R. N. Trigiano and B. H. Owley (Eds).

26. **Yanes, M.L., L. De La Fuente, N. Altier and A. Arias**. 2012. Characterization of native fluorescent *Pseudomonas* isolates associated with alfalfa roots in Uruguayan agroecosystems. Biological Control, 63(3): 287-295.

27. **Sang-Dal, K., L. De La Fuente, D.M. Weller, and L.S. Thomashow**. 2012. Colonizing ability of *Pseudomonas fluorescens* 2112, among collections of 2,4-diacetylphloroglucinol-producing *Pseudomonas fluorescens* spp. in pea rhizosphere. *Journal of Microbiology and Biotechnology*, 22(6): 763-770.

28. **Cruz, L.F., P.A. Cobine, and L. De La Fuente.** 2012. Calcium increases surface attachment, biofilm formation, and twitching motility in *Xylella fastidiosa*. *Applied and Environmental Microbiology*, 78(5):1321-1331.

29. **Parker, J.K., J. Harvird, and L. De La Fuente**. 2012. Differentiation of *Xylella fastidiosa* strains via multi-locus sequence analysis of environmentally-mediated genes (MLSA-E). *Applied and Environmental Microbiology*, 78(5):1385-1396.

30. **Burdman, S., O. Bahar, J.K. Parker, and L. De La Fuente**. 2011. Involvement of type IV pili in pathogenicity of plant pathogenic bacteria. Genes, 2:706-735.

31. **Cursino, L., C.D. Galvani, D. Athinuwat, P.A. Zaini, Y. Li, L. De La Fuente, H.C. Hoch, T.J. Burr, and P. Mowery**. 2011. Identification of *pilL* as a component of a chemosensory operon that controls twitching motility and virulence in *Xylella fastidiosa*. *Molecular Plant-Microbe Interactions*, 24:1198-1206.

32. **De La Fuente, L., and S. Burdman**. 2011. Pathogenic and beneficial plant-associated bacteria. *In* Agricultural Sciences, [Ed.Rattan Lal], *in* Encyclopedia of Life Support Systems (EOLSS), Developed under the Auspices of the UNESCO, Eolss Publishers, Oxford ,UK, [http://www.eolss.net]

33. **De La Fuente, and H. Hoch.** 2011. Promises and realities of nanotechnology for plant pathology. *Tropical plant pathology*, 36:13-15.

34. **Bahar, O., L. De La Fuente and S. Burdman**. 2010. Assessing adhesion, biofilm formation and motility of *Acidovorax citrulli* using microfuidic flow chambers. *FEMS Microbiology Letters,* 312:33-39.

35. **Cursino, L., Y. Li, P. Zaini, L. De La Fuente, H.C. Hoch and T.J. Burr.** 2009. Twitching motility and biofilm formation are associated with *tonB1* in *Xylella fastidiosa*. *FEMS Microbiology Letters,* 299:193-199

36. **Zaini, P., L. De La Fuente, H.C. Hoch and T.J. Burr.** 2009. Grapevine xylem sap enhances biofilm development by *Xylella fastidiosa*. *FEMS Microbiology Letters*, 295:129-134.

37. **De La Fuente, L., T.J. Burr, and H.C. Hoch**. 2008. Autoaggregation of *Xylella fastidiosa* cells is influenced by type I and type IV pili. *Applied and Environmental Microbiology*, 74: 5579-5582.

38. **De La Fuente, L., O.V. Mavrodi, N. Bajsa, and D.V. Mavrodi.** 2008. Antibiotics produced by fluorescent *Pseudomonas*. In *Prospects and Applications for Plant-Associated Microbes. A Laboratory Manual, Part A: Bacteria,* pp. 249-255. S. Sorvari and A. M. Pirttilä (Eds.). BioBien Innovations, Piikkiö, Finland.

39. **De La Fuente, L., O.V. Mavrodi, N. Bajsa and D.V. Mavrodi**. 2008. Detection of antibiotic biosynthetic genes of biocontrol fluorescent *Pseudomonas* by PCR (Experimental procedures). In *Prospects and Applications for Plant-Associated Microbes. A Laboratory Manual*, pp. 81-84. Sorvari and A. M. Pirttilä (Eds.), BioBien Innovations, Piikkiö, Finland.

40. **De La Fuente, L., T.J. Burr, and H.C. Hoch.** 2007. Mutations in type I and type IV pilus biosynthetic genes affect twitching motility rates in *Xylella fastidiosa*. *Journal of Bacteriology*, 189:7507-7510.

41. **De La Fuente, L., E. Montanes, Y. Meng, Y. Li, T.J. Burr, H.C. Hoch, and M. Wu.** 2007. Assessing adhesion forces of type I and type IV pili of *Xylella fastidiosa* using a microfluidic flow chamber. *Applied and Environmental Microbiology*, 73:2690-2696.

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ABSTRACTS (LAST 5 YEARS)

1. **Traore, S.M., L. F. Cruz, J.E. Oliver, A.M. Rashotte, P.A. Cobine, and L. De La Fuente.** Addition of calcium to plants through watering, increases the virulence of *X. fastidiosa* in a model plant host. American Phytopathological Society meeting, Tampa, Florida, July 31-August 4, 2016
2. **Chen, H.[*G], P.P Kandel[*G], L.F. Cruz, and L. De la Fuente.** Virulence traits and disease development by *Xylella fastidiosa* are impaired in a deletion mutant on *mopB*, a gene encoding for an abundant outer membrane protein. American Phytopathological Society meeting, Tampa, Florida, July 31-August 4, 2016
3. **Kandel, P.P.[*G], R. Almeida, and L. De La Fuente**. *Xylella fastidiosa* isolates differ in the ability to undergo genetic recombination. American Phytopathological Society meeting, Tampa, Florida, July 31-August 4, 2016.
4. **Mendis, H., E. Feliciano, S Santra, M. Young, P. Rajasekaran, E.G. Johnson, L. De La Fuente**. Evaluation of the novel antimicrobial compound Zinkicide™ to control growth and biofilm formation in vitro of citrus bacterial pathogens. American Phytopathological Society meeting, Tampa, Florida, July 31-August 4, 2016.
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7. **Parker, J.K., Chen, H.[*G], and L. De la Fuente.** Analysis by RNA-Seq of *Xylella fastidiosa* evidences transcriptional regulation exerted by calcium that is correlated with prolonged biofilm formation over time. International Society for Molecular Plant-Microbe Interactions (IS-MPMI) meeting, Portland, Oregon, July 17-21, 2016.

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11. **Chen, H., P. P. Kandel, J. K. Parker, L. F. Cruz, and L. De La Fuente**. Impact of outer membrane protein MopB on the biofilm formation of *Xylella fastidiosa*. Meeting Southern Division, American Phytopathological Society 2015. Atlanta, GA, January 31-February 2, 2015. Phytopathology, Vol. 105, No. 4. (2015)
12. **P. P. Kandel, and L. De La Fuente.** Genetic recombination of *Xylella fastidiosa* cultured in microfluidic chambers with grapevine sap. Meeting Southern Division, American Phytopathological Society 2015. Atlanta, GA, January 31-February 2, 2015.
13. **Cai, W.*[G], L. De La Fuente, and C. R. Arias**. Effect of Ca^{2+} on biofilm formation by fish pathogens. Aquaculture America 2015. New Orleans, LA, February 19-22, 2015.
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23. **Kandel, P.*[G], and L. De La Fuente.** 2014. Chemical and physical parameters affecting natural competence of a bacterial plant pathogen. Auburn University Graduate forum, March 2014, Auburn, AL.
24. **Arias, C., W. Cai*[G], and L. De La Fuente**. 2014. Understanding biofilm formation by *Flavobacterium columnare*. 39th Annual Eastern Fish Health Workshop, Shepherdstown, West Virginia, April 28 – May 2, 2014
25. **Auad, M.L., B. Sibaja*[G], E. Culbertson, L. De La Fuente, and M. Esquivel Alfaro**. 2014. Preparation of alginate-chitosan fibers for biomedicalapplications. XIV SLAP/XII CIP meeting, Porto de Galinhas, PE, Brazil, October 12-16, 2014. Poster presentation.
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37. **Evans, M., L. Cruz, and L. De La Fuente**. 2013. Site-Directed Mutagenesis of Genes Putatively Involved in the Response to Calcium by the Bacterial Plant Pathogen *Xylella fastidiosa.* Poster Presentation (Evans). Research Week, April 1-4 2013, Auburn University, Auburn, Alabama.
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51. **Wisotsky, S.R., J.K. Parker, M.E. Hilf, K.R. Sims, P.A. Cobine, and L. De La Fuente**. 2012. Mineral composition of media supporting viability of '*Candidatus* Liberibacter asiaticus'. Poster Presentation (Wisotsky): 98th Southeastern Branch of the American Society for Microbiology Conference, Athens, GA, October 26-28, 2012.
52. **Cogan, N., M. Donahue, Navarrete, F., L. De La Fuente**. 2012. Combining experimental and theoretical investigations of the dynamics of biofilm infections in plants. ASM Conference on Biofilms, Miami, FL.
53. **Parker, J.K., and L. De La Fuente**. 2011. Analysis of environmentally-mediated genes of the pathogen *Xylella fastidiosa* to define relationships between isolates from different plant hosts. 111th General Meeting American Society for Microbiology, New Orleans, LA, May 21-24.
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