Lis Natali Rodrigues Porto

Ph.D. student
University of Florida
Plant Pathology Department
14625 Co Rd 672
Gulf Coast Research and
Education Center Wimauma,
FL - 33598
(561) 463-1782
rodriguesporto.l@ufl.edu / lisnatali@gmail.com

EDUCATION

2023-current	**Ph.D. student,** Plant Pathology University of Florida, USA
2020-2022	**MSc.,** Horticultural Sciences (Plant Breeding) University of Florida, USA
2014-2019	**B.Sc.,** Agricultural Sciences/ Engineering Universidade Federal de Sao Carlos – UFSCar, Brazil

PUBLICATIONS

Articles/EDIS

1. **Porto, L.N.R.**, Mariano, E.D.A. and Cardoso, J.C., 2023. Composting of fresh vegetable residues and its application in lettuce cultivation. Horticultura Brasileira, 41, p.e2545

2. Sandoya G.V., Rosenthal E., Simko I., **Rodrigues-Porto L**., Wadlington W.E., Bull C.T., Carroll A. Lettuce (*Lactuca sativa* L.) Germplasm Resistant to Bacterial Leaf Spot caused by Race 1 of *Xanthomonas hortorum* pv. *vitians* (Brown, 1918) Moriniére et al. 2020. Journal of Plant Pathology, 2022

3. **Porto LNR,** Raid RN, Sandoya- Miranda G. Downy Mildew of Lettuce in Florida (IFAS/ HS1403). Gainesville: University of Florida Institute of Food and Agricultural Sciences. 2021, from http://edis.ifas.ufl.edu/ hs1403

4. Urashima AS, Mistura TDF, **Porto LNR,** Austin PD, Arias RS. 2020. Genetic diversity of *Puccinia ku*ehnii, the causal agent of orange rust of sugarcane, from Brazil. Journal of Phytopathology, 168(10), pp.581-590

5. **Porto LNR**, Urashima AS. Development of a single pustule inoculation method for *Puccinia kuehnii*, the causal agent of orange rust of sugarcane. Summa Phytopatologica, Botucatu-SP. 2017 (In Portuguese and English)

6. Mistura TF, **Porto LNR**, Urashima AS. How to assess the reaction of sugarcane varieties to *Puccinia kuehnii*? Summa Phytopatologica, Botucatu-SP, 2017 (In Portuguese)

Extension Reports

1. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. A comparison of Orondis Ultra and Picarbutrazox applied at three different timings for management of downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V092. Online Publication https://doi.org/10.1094/PDMR15

2. Raid R.N., G.V. Sandoya, **L. Rodrigues**, A. Hartman. 2021. Evaluation of SAR compounds for management of Rhizoctonia web blight on baby leaf spinach, Spring 2021. Plant Disease Management Reports 15: V111. Online Publication https://doi.org/10.1094/PDMR15

3. Raid R.N., **L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of three SAR compounds applied at different rates for management of Rhizoctonia web blight on baby leaf spinach. Spring 2021. Plant Disease Management Reports 15: V113. Online Publication https://doi.org/10.1094/PDMR15

4. Raid R.N**., L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Efficacy of SARs alone and in alternation with other fungicides for management of Rhizoctonia web blight on baby leaf spinach, Spring 2021. Plant Disease Management Reports 15: V114. Online Publication https://doi.org/10.1094/PDMR15

5. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. Evaluation of Systemic Acquired Resistance Inducers for management of Stemphylium leaf spot on baby leaf spinach, 2021. Plant Disease Management Reports 15: V115. Online Publication https://doi.org/10.1094/PDMR15

6. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. Evaluation of various rates of potassium phosphite for management of

downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V118. Online Publication https://doi.org/10.1094/PDMR15

7. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. Evaluation of Systemic Acquired Resistance Inducers for management of downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V119. Online Publication https://doi.org/10.1094/PDMR15

8. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. A comparison of single or double applications of three different fungicides for management of downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V120. Online Publication https://doi.org/10.1094/PDMR15

9. Raid R.N., **L. Rodrigues**, E. Cooper, P. Watanabe, A. Hartman, G.V. Sandoya. 2021. A comparison of single applications of oxathiapiprolin and fluoxapiprolin at three different rates for management of downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V121. Online Publication https://doi.org/10.1094/PDMR15

10. Raid R.N., **L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of assorted fungicides for management of downy mildew on baby leaf kale, 2021. Plant Disease Management Reports 15: V122. Online Publication https://doi.org/10.1094/PDMR15

11. Raid R.N**., L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of two SAR compounds, Actigard and ProPhyt, alone and in combination, for management of Stemphylium leaf spot and Rhizoctonia web blight on baby leaf spinach, 2020. Plant Disease Management Reports 15: V145. Online Publication https://doi.org/10.1094/PDMR15

12. Raid R.N., **L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of mefentrifluconazole, alone and in combination, for management of Stemphylium leaf spot and Rhizoctonia web blight on baby leaf spinach, 2020. Plant Disease Management Reports 15: V146. Online Publication https://doi.org/10.1094/PDMR15

13. Raid R.N**., L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of fungicides for management of Stemphylium leaf spot and Rhizoctonia web blight on baby leaf spinach, 2020. Plant Disease Management Reports 15:

V147. Online Publication https://doi.org/10.1094/PDMR15

14. Raid R.N**., L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Evaluation of potassium phosphite alone and in alternation with fungicides of differing modes of action for management of Stemphylium leaf spot and Rhizoctonia web blight on baby leaf spinach,2020. Plant Disease Management Reports 15: V148. Online Publication https://doi.org/10.1094/PDMR15

15. Raid R.N., **L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Efficacy of XDE-659 for management of Stemphylium leaf spot and Rizhoctonia web blight on baby leaf spinach, 2020. Plant Disease Management Reports 15: V149. Online Publication https://doi.org/10.1094/PDMR15
16. Raid R.N., **L. Rodrigues**, G.V. Sandoya, A. Hartman. 2021. Efficacy of Quadris Top for management of Stemphylium leaf spot and Rhizoctonia web blight on baby leaf spinach, 2020. Plant Disease Management Reports 15: V150. Online Publication https://doi.org/10.1094/PDMR15

Abstracts

1. **Porto LNR**, Marin MV, Peres NA. Effect of inoculum concentration on disease progress and spread of Pestalotia leaf spot and fruit rot of strawberry. Annual meeting of the American Phytopathological Society, Memphis-TN, 2024

2. **Porto LNR**, Marin MV, Peres NA. Exploring the Phenotypic Diversity of *Neopestalotipsis* spp. Isolates Causing Strawberry Diseases. Annual meeting of the American Phytopathological Society, Denver-CO, 2023

3. **Porto LNR,** Carrol AS, Raid RN, Sandoya- Miranda G. Common resistance identified for multiple diseases affecting the lettuce (*Lactuca sativa* L.) crop in Florida. Fla. State Hort. Soc. (FSHS) Annual Conference, Sarasota-FL, 2022

4. Carrol AS, Manzanero B, Kreutz G, **Porto LNR**, Murray J, Mather Hannah, Sandoya- Miranda G. Germplasm genetic diversity of *Lactuca* spp. in the UF/IFAS Lettuce Breeding Program. Fla. State Hort. Soc. (FSHS) Annual Conference, Sarasota-FL, 2022

5. **Porto LNR,** Raid RN, Sandoya- Miranda G. Common Disease Resistance Identified in Lettuce (*Lactuca sativa* L.). Plant Science Symposium, Wimauma-FL, 2022

6. **Porto LNR,** Raid RN, Sandoya- Miranda G. Lettuce downy mildew differential

cultivars are resistant to other important diseases. Fla. State Hort. Soc. (FSHS) Annual Conference, Daytona Beach-FL, 2021

7. **Porto LNR,** Raid RN, Sandoya- Miranda G. Identification and host resistance control of Lettuce Downy mildew (*Bremia lactucae*) races 7, 8, and 9 in South Florida. 2021 Am. Soc. for Hort. Science (ASHS) Annual Conference, Denver-CO, 2021

8. **Porto LNR**, Raid RN, Sandoya- Miranda G. Screening for resistance to Stemphylium spp. in Florida- adapted baby leaf spinach. Fla. State Hort. Soc. (FSHS) Annual Conference, VIRTUAL, 2020

9. **Porto LNR**, Raid RN, Sandoya- Miranda G. Understanding Lettuce Downy Mildew, Pathogen Distribution and Available Host Resistance in Florida. Fla. State Hort. Soc. (FSHS) Annual Conference, VIRTUAL, 2020

10. Murray J, **Porto LNR**, Sandoya- Miranda G. Race 1 Fusarium Wilt in Florida Lettuce. South Florida Graduate Research Symposium, Homestead-FL, 2019

11. **Porto LNR**, Raid RN, Sandoya- Miranda G. Identification of Lettuce Downy Mildew races in Florida. South Florida Graduate Research Symposium, Homestead-FL, 2019

12. **Porto LNR**, Ecker GB, Arias RS, Cano L, Rott P, Urashima AS. Sugarcane cultivars susceptible to orange rust can host sub-populations of *Puccinia kuehnii* capable of infecting resistant cultivars. Annual meeting of the American Phytopathological Society, Cleveland -OH, 2019

13. **Porto LNR**, Cano LM, Chaulagain B, Hincapie M, Urashima AS, Rott PC. Identification of effectors as molecular markers to genotype isolates of *Puccinia kuehnii*, the causal agent of sugarcane orange rust. ISSCT XII Pathology Workshop, Coimbatore-India, 2018

14. **Porto LNR**, Arias R, Urashima AS. Single pustule inoculation to examine the diversity of the Brazilian orange rust pathogen from various origins and uredinia. International Congress of Plant Pathology (ICPP), Boston-MA, 2018

15. Cano LM, Oppelaar TS, **Porto LNR**, Chaulagain B, Hincapie M, Sood S, Zheng Q, Comstock JC, Urashima AS, Rott PC. Identification of effector homologs in the sugarcane orange rust pathogen *Puccinia kuehnii*. In: Sugar journal 33:34, Bonita Springs-FL, 2018

16. **Porto LNR**, Cano LM, Chaulagain B, Hincapie M, Rott PC, Urashima AS.

Investigations into pathogenic and genomic variation of *Puccinia kuehnii* using single uredinia. In: Sugar journal 6:18, Bonita Springs-FL, 2018

17. **Porto LNR**, Urashima AS. Investigation on DNA extraction technique from single pustule of *Puccinia kuehnii* of sugar cane. XXXXI Paulista Congress of Phytopathology, Marilia-SP, 2018

18. **Porto LNR**, Urashima AS. Comparison between inoculation methodologies multi pustule and single pustule of *Puccinia kuehnii* in sugar cane. In: XXXX Paulista Congress of Phytopathology, Campinas-SP. Summa Phytopathologica. Botucatu: Associação Paulista de Fitopatologia, v. 43. p. 107-107, 2017

19. **Porto LNR**, Pereira DHD, Cardoso JC. The viability of food residue to grow lettuce (*Lactuca sativa*) cultivation. XXIII Scientific Initiation Congress, Araras-SP. v.23, 2016. Grant National Council of Scientific Research (CNPq)

20. Mistura TF, Urashima AS, **Porto LNR**, Sakuno C, Arias R. Genetic and phenotypic diversity of *Puccinia kuehnii* of sugarcane from Brazil. Annual meeting of the American Phytopathological Society. Saint Paul: APS, v. 106. p. S4, 139, Tampa-FL, 2016

21. **Porto LNR**, Mistura TF, Urashima AS. New methodology to assess reaction of sugar cane varieties to *Puccinia kuehnii*. XXXIX Paulista Congress of Phytopathology Summa Phytopatologica, Escola Superior de Agricultura "Luiz de Queiroz" (ESALQ), Piracicaba – SP, 2016

22. **Porto LNR**, Oliveira KB, Cardoso JC. Potential of citronella grass and cloves of India extract to control pests and disease of kale. XXII Scientific Initiation Congress and 7th Initiation in Technological Development and Innovation Congress (CIDTI), Sao Carlos-SP, v. 22, 2014. Grant University Extension Program (ProExt)

AWARDS AND HONORS

2023	Grinter Graduate School Fellowship
2021	134th Florida State Horticultural Society Student Travel Award, Daytona Beach, Florida
2021	118th American Society for Horticultural Sciences Student Travel Award, Denver, Colorado
2019	Research Internships Abroad (BEPE) - Sao Paulo Research Foundation (FAPESP). Development of molecular markers to identify different

physiologic races of *Puccinia kuehnii*, the causal agent of orange rust of sugarcane, Belle Glade, Florida

2018-2019 Sao Paulo Research Foundation (FAPESP) Scholarship. Phenotypic and genotypic diversity of *Puccinia kuehnii*, the causal agent of orange rust, at a breeding site of sugarcane varieties, Sao Paulo, Brazil

2016-2017 National Council for Scientific and Technological Development (CNPq) Scholarship. The viability of food residue to grow lettuce (*Lactuca sativa*), Sao Paulo, Brazil

2014-2015 Extension Program (ProExt) Scholarship. Potential of citronella grass (*Citronella* spp.) and cloves (*Syzygium aromaticum*) extract to control pests and disease of kale, Sao Paulo, Brazil

BACKGROUND EXPERIENCE

Sept 2022–May 2023 **UNIVERSITY OF FLORIDA | Wimauma, FL – USA**
Researcher assistant

- UF/IFAS Plant Pathology Program- **Plant Pathology Department**
- Supervisor: Dr. Natalia Peres
- Working with various pathogens affecting strawberry on research related to methods for conventional and molecular identification of fungal pathogens, and evaluation of management strategies

Jan 2020–May 2022 **UNIVERSITY OF FLORIDA | Belle Glade, FL – USA**
Master's degree

- UF/IFAS Lettuce Breeding Program- **Horticultural Department**
- Supervisor: Dr. Germàn Sandoya Miranda, and committee members: Dr. Richard N. Raid, Dr. Gary Vallad and Dr. Vance Whitaker.
- Thesis topic: Resistance to Downy Mildew (*Bremia Lactucae*) and to other Threatening Diseases in Lettuce
    - Identifying disease resistance against five different pathogens such as *Bremia lactucae*, *Xanthomonas hortorum* pv. *vitians*, *Fusarium oxysporum* f.sp. *lactucae*, *Cercospora* spp., and *Meloidogyne javanica* occurring in lettuce crop

Jan 2019–Aug 2019 **UNIVERSITY OF FLORIDA | Belle Glade, FL – USA**
Internship

- UF/IFAS Lettuce Breeding Program- **Horticultural Department**
- Research on diseases in lettuce and spinach
    - Experiment planning, execution, and evaluation
    - Field sample collection, pathogen identification, screening of lettuce

genotypes for resistance to bacterial leaf spot (*Xanthomonas hortorum* pv. *vitians*), lettuce downy mildew (*Bremia lactucae*) isolate collection, and greenhouse and molecular work with fusarium wilt of lettuce (*Fusarium oxysporum* f.sp. *lactucae*)

- Field sample collection, pathogen identification of stemphylium (*Stemphylium botryosum* f.sp. *spinacea*) in spinach

March 2018–Jun 2018 **UNIVERSITY OF FLORIDA | Belle Glade, FL – USA**
Internship

- UF/IFAS Laboratory of Phytopathology- **Plant Pathology Department**
- Research on orange rust (*Puccinia kuehnii*) of sugarcane
  - Laboratory research project associated with investigating the genomics of orange rust in order to improve the control of this disease in Florida
  - Specific training: lean (i) scientific reasoning for control of plant diseases, (ii) critical thinking for development and implementation of research projects to target specific information goals for improved control of sugarcane diseases (iii) the importance of patience, detail, and follow-through in development and completion of research projects, (iv) the nature of interdisciplinary research to answer complex agricultural problems
  - Working directly with Dr. Philippe Rott and Dr. Liliana Cano on research related to sugarcane diseases in Florida

2017 **UNIVERSIDADE FEDERAL DE SAO CARLOS – UFSCar | Araras, SP – Brazil**
Teaching assistant (TA)

- Dr. Alfredo Urashima's teaching assistant
- Class: Phytopathology
  - Prepare required materials for practical classes including
    i. isolation of several plant pathogens
    ii. planting and maintenance of plant hosts to be inoculated
    iii. plates with several media
  - Assignments and exam correction

2016 **UNIVERSIDADE FEDERAL DE SAO CARLOS – UFSCar | Araras, SP – Brazil**
Teaching assistant (TA)

- Dr. Milena Spegiorin Moreno's teaching assistant
- Class: Topics in Mathematics II
  - Office hours to assist the students on assignments and classes questions

2015– 2019 **UNIVERSIDADE FEDERAL DE SAO CARLOS – UFSCar | Araras, SP – Brazil**
Internship

- Laboratory of Molecular Genetics and Diagnosis supervised by Dr. Alfredo Urashima
  - Citrus, sugarcane, peanuts, leaf, and root vegetable diagnosis
  - Diagnosis techniques: classical, molecular (PCR), and serological

2014– 2016 **UNIVERSIDADE FEDERAL DE SAO CARLOS – UFSCar | Araras, SP – Brazil**
Internship

- Research Group on Horticultural and Landscape Plants supervised by Dr. Jean Carlos Cardoso
  - Experiment planning, design, execution, evaluation, and statistics
  - Experiments to test non-chemical controls against pests and diseases in several vegetables

2011– 2012 **UNIVERSIDADE DE SAO PAULO – USP | Sao Paulo, SP – Brazil**
Librarian

- Organizing and managing all resources in the library
- Assist library visitors in conducting research and locating resources

PROFESSIONAL MEMBERSHIP

- Member of the American Society of Plant Pathology
- Secretary of the Gulf Coast PostDoc and Student Association (GCPSA)

CONFERENCES AND WORKSHOPS

2024 Poster presentation at Annual Meeting of the *American Phytopathological Society* (APS), Memphis- U.S.

2023 Poster presentation at Annual Meeting of the *American Phytopathological Society* (APS), Colorado- U.S.

Oral presentation at Florida Phytopathological Society (FPS), Florida- U.S.

2022 Oral presentation at *Plant Science Symposium*, Florida- USA

2021 Oral presentation at *134th Florida State Horticultural Society* (FSHS), Florida- USA

Oral presentation, and student presentation competition at *118th American Society for Horticultural Sciences* (ASHS), Colorado- USA

2020 Two poster presentations at *133rd Florida State Horticultural Society*

(FSHS), Florida- USA

2019 Two poster presentations at *South Florida Graduate Research Symposium*, Florida- USA

Poster presentation at *Annual meeting of the American Phytopathological Society* (APS), Ohio- USA

2018 Oral presentation at *XII Pathology Workshop*- Sugarcane Breeding Institute (ISSCT), Tamil Nadu- India

Oral presentation at *International Congress of Plant Pathology* (ICPP), Boston- USA

Oral presentation at Annual Meeting of *American Society of Sugarcane Technologists* (ASSCT), Florida- USA

2017 Poster presentation at *Paulista Association of Phytopathology*, Campinas- Brazil

Poster presentation at *XXXXI Paulista Congress of Phytopathology*, Sao Paulo- Brazil

Poster presentation *XXIII Scientific Congress*, Araras- Brazil

2016 Poster presentation at Annual Meeting of the *American Phytopathological Society* (APS), Tampa- USA

Oral presentation at *XXXIX Paulista Congress of Phytopathology,* Piracicaba- Brazil

Poster presentation at *VIII Technological Development and Innovation Conference*, Araras- Brazil

Poster presentation at *First Soil Fertility and Plant Nutrition Symposium* (SIFERT), Araras- Brazil

2014 Poster presentation at *XXI UFSCar Scientific Conference*, Sao Paulo- Brazil

PERSONAL DETAILS

Address 14625 Co Rd 672
Gulf Coast Research and Education
Center University of Florida
Wimauma, FL – 33598

Mobile: +1 (561) 463-1782
E-mail: rodriguesporto.l@ufl.edu /
LinkedIn: https://www.linkedin.com/in/lis-natali-rodrigues-porto-527739165
Scholar.google:https://scholar.google.com/citations?user=cZNxVcsAAAAJ&hl=en