

# Curriculum Vitae

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## Emerson Medeiros Del Ponte

Associate Professor  
Plant Pathology

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Campus Universitário s/n Viçosa MG Brazil 36570-000

### Education

2000 - 2004 D. Sc. in Plant Pathology, Universidade Federal de Pelotas, UFPEL, Pelotas, Brazil  
Sandwich period (2003) in Cornell University  
1997 - 1999 M. Sc. in Agronomy, Universidade Federal de Pelotas, UFPEL, Pelotas, Brazil  
1991 - 1996 B. Sc. in Agronomy, Universidade Federal de Pelotas, UFPEL, Pelotas, Brazil

### Employment

2013 – present Associate Professor, Depto de Fitopatologia, UFV, Brazil  
2006 – 2012 Assistant Professor, Depto de Fitossanidade, UFRGS, Brazil  
2005 – 2006 Post-doctoral associate, Dept of Plant Pathology, ISU, Iowa, US

### Teaching

FIP 300 Introductory Plant Pathology, 4 credits (Semester II)  
FIP 395 Introduction to Scientific Research, 2 credits (Semester I)  
FIP 606 Data analysis and visualization in Plant Pathology, 4 credits (Semester I)  
FIP 602 Plant Disease Epidemiology, 4 credits (Semester II)

### Selected Professional activities

2017-present Chair of Graduate Studies Program in Plant Pathology, Universidade Federal de Viçosa  
2017 - present Editor in Chief, Tropical Plant Pathology, Braz. Phytopathol. Soc.  
2016 - present Senior Editor, Plant Disease, American Phytopathol. Soc.  
2013 – 2017 Senior Editor, Tropical Plant Pathology, Braz. Phytopathol. Soc.  
2013 – 2016 Section Editor, Scientia Agricola, Escola Agricultura Luiz de Queiróz  
2009 – 2015 Section Editor, Acta Scientiarum.Agronomy

## Mentoring and supervision

Post-doctoral	Paul David Esker. 2007. Universidade Federal do Rio Grande do Sul Juliano dos Santos. 2010. Universidade Federal do Rio Grande do Sul Lucas de Magalhães Abreu. 2015. Universidade Federal de Viçosa Gláucia Mara Moreira. 2016. Universidade Federal de Viçosa
Doctor of Science	Paulo Roberto Kuhnen Junior. Ecologia, patogenicidade e potencial toxigênico do complexo de espécies <i>Fusarium graminearum</i> em milho e trigo. 2014. Tese (Fitotecnia) - Universidade Federal do Rio Grande do Sul  Piérri Spolti. Intensidade da giberela em trigo, diversidade, ecologia e potencial toxigênico de populações do complexo de espécies <i>Fusarium graminearum</i> . 2013. Tese (Fitotecnia) - Universidade Federal do Rio Grande do Sul
Master of Science	Carolina Fernanda de Ávila. Species and trichothecene genotypes within <i>Fusarium incarnatum-equiseti</i> species complex infecting Brazilian rice. 2017. M. Sc. thesis in Plant Pathology (English)  Franklin Jackson Machado. Giberela do trigo: resistência a fungicidas e metanálise da eficácia do controle químico. 2016. M.Sc. thesis in Plant Pathology (Portuguese)  Leilane Silveira D'ávila. Diversidade de patótipos e estrutura de populações de <i>Magnaporthe oryzae</i> no sul do Brasil. 2014. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese)  Larissa Bitencourt Gomes. Diversidade, potencial toxigênico and patogenicidade de espécies de isoladas de arroz. 2014. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese)  Camila Primieri Nicolli. Reprodução, patogenicidade, e potencial toxigênico <i>Fusarium graminearum</i> , <i>F. meridionale</i> e <i>F. cortaderiae</i> . 2014. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese)  Felipe Dalla Lana da Silva. Modelagem da relação entre a severidade da ferrugem-asiática e a produtividade da soja por meta-análise. 2013. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese).  André Aguiar Schwanck. Aspectos epidemiológicos da mancha parda do arroz irrigado no Estado do Rio Grande do Sul. 2012. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese).  Raquel Stumpf. Prevalência, perfil toxigênico e agressividade de espécies de <i>Fusarium</i> associados aos grãos de milho do Estado do Rio Grande do Sul. 2011. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese)  Paula Astolfi. Aspectos epidemiológicos e moleculares de <i>Fusarium graminearum</i> associado ao trigo e cevada no sul do Brasil. 2010. M. Sc. thesis in Plant Pathology.

Universidade Federal do Rio Grande do Sul (Portuguese)

Piérri Spolti. Epidemiologia e controle de doenças do complexo fuligem e sujeira de mosca em macieira. 2009. M. Sc. thesis in Plant Pathology. Universidade Federal do Rio Grande do Sul (Portuguese)

## Selected publications

Names underlined, members of the DelPonte laboratory. Asterisk, corresponding author.

2018

Lofgren L, Riddle J, Dong Y, Kuhnem PB, Cummings JA, Del Ponte EM, Bergstrom GC, Kistler HC\* (2018) A high proportion of NX-2 genotype strains are found among *Fusarium graminearum* isolates from northeastern New York State. *European Journal of Plant Pathology* 150:791-6.

Dalla Lana F, Paul PA, Godoy CV, Utiamada CM, da Silva LH, Siqueri FV, Forcelini CA, Jaccoud-Filho DS, Miguel-Wruck DS, Borges EP, Juliatti FC, Campos HD, Nunes J, Carneiro LC, Canteri MG, Ito MF, Meyer MC, Martins MC, Balardin RS, Furlan SH, Carlin VJ, Del Ponte EM\* (2018) Meta-analytic modeling of the decline in performance of fungicides for managing soybean rust after a decade of use in Brazil. *Plant Disease* 102:807-17

Pazdiora PC, da Rosa Dorneles K, Forcelini CA, Del Ponte EM, Dallagnol LJ\* (2018) Silicon suppresses tan spot development on wheat infected by *Pyrenophora tritici-repentis*. *European Journal of Plant Pathology* 150:49-56

2017

Lehner MS, Pethybridge SJ, Meyer MC, Del Ponte EM\* (2017) Meta-analytic modelling of the incidence–yield and incidence–sclerotial production relationships in soybean white mould epidemics. *Plant Pathology* 66:460-8. 10.1111/ppa.12590

Del Ponte EM\*, Pethybridge SJ, Bock CH, Michereff SJ, Machado FJ, Spolti P (2017) Standard area diagrams for aiding severity estimation: scientometrics, pathosystems, and methodological trends in the last 25 Years. *Phytopathology* 107:1161-74. 10.1094/PHYTO-02-17-0069-FI

Machado FJ, Santana FM, Lau D, Del Ponte EM\* (2017) Quantitative review of the effects of triazole and benzimidazole fungicides on *Fusarium* head blight and wheat yield in Brazil. *Plant Disease* 101:1633-41. 10.1094/PDIS-03-17-0340-RE

Savary S\*, Djurle A, Yuen J, Ficke A, Rossi V, Esker PD, Fernandes JM, Del Ponte EM, Kumar J, Madden LV, Paul P, McRoberts N, Singh PK, Huber L, Pope de Vallavielle C, Saint-Jean S, Willocquet L (2017) A white paper on global wheat health based on scenario development and analysis. *Phytopathology* 107:1109-22. 10.1094/PHYTO-01-17-0027-FI

Lehner MS, Del Ponte EM, Gugino BK, Kikkert JR, Pethybridge SJ\* (2017) Sensitivity and efficacy of boscalid, fluazinam, and thiophanate-methyl for white mold control in snap bean in New York. *Plant Disease* 101:1253-8. 10.1094/PDIS-12-16-1731-RE

Lehner MS, de Paula Júnior TJ, Del Ponte EM, Mizubuti ES, Pethybridge SJ\* (2017) Independently founded populations of *Sclerotinia sclerotiorum* from a tropical and a temperate region have similar genetic structure. *PloS one* 12(3):e0173915. 10.1371/journal.pone.0173915

Nicolli CP, Machado FJ, Spolti P, Del Ponte EM\* (2017) Fitness traits of deoxynivalenol and nivalenol-producing *Fusarium graminearum* species complex strains from wheat. *Plant Disease*. First look 10.1094/PDIS-12-17-1943-RE

2016

D'Ávila LS, Lehner MS, Filippi MC, Scheuermann KK, Del Ponte EM\* (2016) Genetic structure and mating type analysis of the *Pyricularia oryzae* population causing widespread epidemics in southern Brazil. *Tropical Plant Pathology* 41:297-305. 10.1007/s40858-016-0101-9

Vaughan M, Backhouse D, Del Ponte EM\* (2016) Climate change impacts on the ecology of *Fusarium graminearum* species complex and susceptibility of wheat to Fusarium head blight: a review. *World Mycotoxin Journal* 9:685-700. 10.3920/WMJ2016.2053

Schwanck AA, Del Ponte EM\* (2016) Measuring lesion attributes and analyzing their spatial patterns at the leaf scale using digital image analysis. *Plant Pathology* 65:1498-508. 10.1111/ppa.12526

Castanares E, Dinolfo MI, Del Ponte EM, Pan D, Steinglenin SA\* (2016) Species composition and genetic structure of *Fusarium graminearum* species complex populations affecting the main barley growing regions of South America. *Plant Pathology* 65:930-9. 10.1111/ppa.12470

Kuhnem PR, Ward TJ, Silva CN, Spolti P, Ciliato ML, Tessmann DJ, Del Ponte EM\* (2016) Composition and toxigenic potential of the *Fusarium graminearum* species complex from maize ears, stalks and stubble in Brazil. *Plant Pathology* 65:930-9. /10.1111/ppa.12497

Bock CH\*, Chiang KS, Del Ponte EM (2016) Accuracy of plant specimen disease severity estimates: Concepts, history, methods, ramifications and challenges for the future. *CAB Reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 11(032):21.

2015

Del Ponte EM\*, Spolti P, Ward T, Gomes LB, Nicolli CP, Kuhnem PR, da Silva CN, Tessmann DJ (2015) Regional and field-specific factors affect the composition of Fusarium head blight pathogens in subtropical no-till wheat agroecosystem of Brazil. *Phytopathology* 105:246-54. 10.1094/PHYTO-04-14-0102-R

Dalla Lana E, Ziegelmann PK, Maia AHN, Godoy CV, Del Ponte EM\* (2015) Meta-analysis of the relationship between crop yield and soybean rust severity. *Phytopathology* 105:307-315. 10.1094/PHYTO-06-14-0157-R

Kuhnem PR, Spolti P, Del Ponte EM, Cummings JA, Bergstrom GC\* (2015) Trichothecene genotype composition of *Fusarium graminearum* not differentiated among isolates from maize stubble, maize ears, wheat spikes, and the atmosphere in New York. *Phytopathology* 105:695-699. 10.1094/PHYTO-10-14-0266-R.

Schwanck AA, Meneses PR, Faria CRJ, Funck GRD, Maia AHN, Del Ponte EM\* (2015) *Bipolaris oryzae* seed borne inoculum and brown spot epidemics in the subtropical lowland rice-growing region of Brazil. *European Journal of Plant Pathology* 142:875-885. 10.1007/s10658-015-0659-y

Nicolli CP, Spolti P, Tibola CS, Fernandes JMC, Del Ponte EM\* (2015) Fusarium head blight and trichothecene production in wheat by *Fusarium graminearum* and *F. meridionale* applied alone or in mixture at post-flowering. *Tropical Plant Pathology* 40:134-140. 10.1007/s40858-015-0017-9

Gomes LB, Ward TJ, Badiale-Furlong E, Del Ponte EM\* (2015) Species composition, toxigenic potential and pathogenicity of *Fusarium graminearum* species complex isolates from southern Brazilian rice. *Plant Pathology* 64: 980-987. 10.1111/ppa.12332

2014

Spolti P, Del Ponte EM, Dong Y, Cumming JA, Bergstrom GC\* (2014) Assessment of triazole sensitivity in a contemporary population of *Fusarium graminearum* from New York wheat and competitiveness of a tebuconazole-resistant isolate. *Plant Disease* 98:607-613. 10.1094/PDIS-10-13-1051-RE

Spolti P, Del Ponte EM, Cumming J, Dong Y, Bergstrom GC\* (2014) Fitness attributes of *Fusarium graminearum* isolates from wheat in New York possessing a 3-ADON or 15-ADON trichothecene genotype. *Phytopathology* 104:513-519. 10.1094/PHYTO-07-13-0206-R.

Kuhnem, PR, Del Ponte EM, Dong Y, Bergstrom GC\* (2014) *Fusarium graminearum* isolates from wheat and maize in New York show similar range of aggressiveness and toxigenicity in cross-species pathogenicity tests. *Phytopathology* 105:441-448. 10.1094/PHYTO-07-14-0208-R

2012

Del Ponte EM\*, Garda-Bufferon, J, Badiale-Furlong E (2012) Deoxynivalenol and nivalenol in commercial wheat grain related to *Fusarium* head blight epidemics in southern Brazil. *Food Chemistry* 132:1087-1091. 10.1016/j.foodchem.2011.10.108

Astolfi P, Reynoso MM, Ramirez L, Chulze SN, Alves TCA, Tessmann DJ, Del Ponte EM\* (2012) Genetic population structure and trichothecene genotypes of *Fusarium graminearum* isolated from wheat in southern Brazil. *Plant Pathology* 61:289-295. 10.1111/j.1365-3059.2011.02515.x

Spolti P, Valdebenito-Sanhueza RM, Laranjeira FF, Del Ponte EM\* (2012) Comparative spatial analysis of the sooty blotch/flyspeck disease complex, bull's eye and bitter rots of apples. *Plant Pathology* 61:271-280. 10.1111/j.1365-3059.2011.02524.x

Spolti P, Barros NC, Gomes LB, dos Santos J, Del Ponte EM\* (2012) Phenotypic and pathogenic traits of two species of the *Fusarium graminearum* complex possessing either 15-ADON or NIV genotype. *European Journal of Plant Pathology* 133:621-629.10.1007/s10658-012-9940-5

2011

Spolti P, Schneider L, Sanhueza RMV, Batzer J, Gleason ML, Del Ponte EM\* (2011) Improving sooty blotch and flyspeck severity estimation on apple fruit with the aid of a diagrammatic scale. *European Journal of Plant Pathology* 129:21-29, 2011. 10.1007/s10658-010-9636-7

Del Ponte EM\*, Maia AHN, Santos TV, Martins EJ, Bathgen W (2011) Early-season warning of regional soybean rust epidemics using El Niño/Southern Oscillation information. *International Journal of Biometeorology* 55:575-583. 10.1007/s00484-010-0365-6

Gleason ML\*, Batzer JC, Sun G, Zhang R, Arias MMD Sutton TB, Crous PW, Ivanovich M, McManus PS, Cooley DR, Mayr U, Weber RWS, Yoder KS, Del Ponte EM, Biggs AR, Oertel B (2011) A New view of sooty blotch and flyspeck. *Plant Disease* 95:368-383. 10.1094/PDIS-08-10-0590

Astolfi P, dos Santos J, Schneider L, Gomes LB, Silva CN, Tessmann DJ, Del Ponte EM\* (2011). Molecular survey of trichothecene genotypes of *Fusarium graminearum* species complex from barley in Southern Brazil. *International Journal of Food Microbiology* 148: 197-201. 10.1016/j.ijfoodmicro.2011.05.019

2009

Scoz LB, Astolfi P, Reartes DS, Schmale D, Moraes MG, Del Ponte EM\* (2009) Trichothecene mycotoxin genotypes of *Fusarium graminearum* sensu stricto and *Fusarium meridionale* in wheat from southern Brazil. *Plant Pathology* 58:344-351. 10.1016/j.ijfoodmicro.2011.05.019

Scherm H\*, Christiano RSC, Esker PD, Del Ponte EM, Godoy CV (2009) Quantitative review of fungicide efficacy trials for managing soybean rust in Brazil. *Crop Protection* 28:774-782. 10.1016/j.cropro.2009.05.006