

CURRICULUM VITAE

JAMES FRANCIS WHITE, JR.; Professor

Work Address: Department of Plant Biology
Foran Hall, 59 Dudley Rd.
School of Environmental & Biological Sciences
(SEBS; Cook Campus)
Rutgers University
New Brunswick, NJ 08901
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EDUCATION

Graduate: The University of Texas at Austin, 1984-1987
Ph.D. Mycology/Botany

Auburn University, 1981-1983
M.S. Mycology/Plant Pathology

Undergraduate: Auburn University, 1979-1981
B.S. Biology/Botany

Employment and other professional experience:

Rutgers University (Cook/SEBS)
Chair, Department of Plant Biology & Pathology
July 2002 to 2012.

Director, Graduate Program in Plant Biology
July 2001 to June 2002.

Rutgers University (Cook/SEBS)
Department of Plant Biology & Pathology
Associate Professor
July 1998 to June 2002;
Professor
July 1, 2002 to present

Auburn University at Montgomery
Department of Biology
Assistant Professor; Associate Professor
September 1988 to August 1995;

The Ohio State University
Department of Botany
Postdoctoral Research Associate
1987-1988

Society offices, Committees, Editorships, and Panels:

Member NSF PEET Proposal Evaluation Panel
(Arlington, VA, 1995)

Member Organizing Committee for
Second International Symbiosis Congress
(Woods Hole, MA, 1997)

Member Organizing Committee for
Rutgers Turfgrass Science Symposium
(New Brunswick, NJ, 1996)

Founder and Moderator for Internet Symbiosis
Newsgroup (Jan. 1995 to July 2000)

Member International Scientific Board
Second International Congress on Symbiosis
(Woods Hole, MA. 1997)

Secretary of International Symbiosis Society
(April 1997 – June 2002)

Member Editorial Committee for Mycological
Memoirs (Mycological Society of America
1997-2000)

Member Editorial Board for Book Symbiosis
Edited by Dr. J. Seckbach, Published by
Kluwer Press, The Netherlands (2000)

Member and Chair of Committee on Student
Presentation Awards, Northeast Division
American Phytopathological Society (2000-
present; 2001-2003)

Associate Editor of journal Mycologia
(Mycological Society of America; 2001-
Present)

Invited Panelist of Discussion on
Identifying Minority Students in the
Environmental and Biological Disciplines,
Organization for Tropical Studies Symposium
(Howard University, Washington, D.C. 2004)

Member NSF PEET Proposal Evaluation Panel
(Arlington, VA, 2003)

Member Editorial Board and
Associate Editor (Mycology) for Third
Edition Encyclopedia of Microbiology
(Elsevier; expected completed 2009)

Member NSF Systematic Botany Proposal
Evaluation Panel (Arlington, VA, Oct.,
2008)

Member Organizing Committee for 6th Latin
American Mycological Congress held in Mar
del Plata, Argentina Nov. 10-14, 2008

Organized Symposium 'Biology of Endophytic
Fungi' in the Asian Mycological Congress
held in Taichung Taiwan in 18 Nov. 2009.

Organized Symposium 'Ecology of Endophytic
Fungi' in the MSA/Grass Endophyte Congress
held in Lexington, Kentucky in June, 2010.

Organized Symposium 'The Secret World of
Endophytes' in the International Mycological
Congress held in Edinburgh, Scotland; July,
2010.

Associate Editor for 'Fungal Ecology' (area
= plant endophytes) August 2011 - Present.

Editorial Board Journal 'Mycoscience' (area
= plant endophytes) Feb. 2015 - Present.

Organized Symposium 'The Functional Plant
Microbiome: the Roles of Endophytic and
Epiphytic Microbes' at the International
Symbiosis Congress in Lisbon, Portugal, July
12-18, 2015.

Editorial Board Member 'Scientific Reports (Nature Publishing Group)' (area = plant biology) June 1, 2015 – present.

AWARDS AND HONORS

Fulbright Specialist Roster Candidate (On Roster 4/10/2015-4/10/2020)

AAAS Fellow (2005). One of two Rutgers University Professors named as Fellow of the American Association for the Advancement of Science in 2005 for research on the biology and ecology of endophytic fungi.

Research Excellence Award (Cook College, Rutgers University). For research performance. 1998

Rutgers Board of Trustees **Research Fellowship**. For scholarly excellence. 1998

Alexopoulos Prize (Mycological Society of America). *For innovative mycological research*. 1996

University Distinguished Researcher Award (Auburn University at Montgomery). 1994

Faculty Research Award (Auburn University at Montgomery). 1993

Funding

NSF 1610933 (Division of Electrical, Commun & Cyber Systems): GOALI: Paper-based skin. Aaron Mazzeo, Paul Stansel, Assimina Pelegri, James White, George Weng. (\$400,000), 2016-2018.

USGS/EPA Evaluation of the Role of Microbial Endophytes In Enhancing Invasive Capacity of *Phragmites australis*. (\$93,000) 2016.

NSF (Division of Biological Infrastructure): Digitization TCN: Collaborative: 'The Microfungi Collections Consortium: A Networked Approach to Digitizing Small Fungi with Large

Impacts on the Function of Health of Ecosystems' (\$61,016; with Ning Zhang), 2015-2018.

Rutgers University Turfgrass Science Center: 'Application of Bacterial Endophytes to Enhance Performance of Turfgrasses' (\$15,000), 2015-2016.

Rutgers University Turfgrass Science Center: 'Application of Bacterial Endophytes to Enhance Performance of Turfgrasses' (\$25,000), 2014-2015.

USDA Multi-state Project 3147: 'Protecting Plants from Diseases and Stress Using Endophytic Microbes' (\$10,000), 2014-2015.

USGS/EPA Evaluation of the Role of Microbial Endophytes In Enhancing Invasive Capacity of *Phragmites australis*. (\$57,000)(with Monica Torres), 2013-2015.

Application of Bacterial Endophytes in Ornamental Plants. John E. Christina C. Craighead Foundation. (\$105,000), 2014-2015.

Application of Bacterial Endophytes in Ornamental Plants. John E. Christina C. Craighead Foundation. (\$57,000), 2013-2014.

USDA Proposal 2008-01633; Title: Agricultural Competitiveness in NJ and the US: New Crop Options (\$100,000; with Mike Lawton, Albert Ayeni, and Mark Robson), 2008 - 2012.

NSF STEM Program grant 'Project Super' NSF 0726650. This grant provides scholarships to female students and supports a program of research and academic mentoring, (\$599,706; with Joan Bennett and Regina M. Riccioni), 2007-2012.

NSF: Systematic Studies in Gnomoniaceae (Diaporthales); National Science Foundation; PEET (\$750K; with A. Rossman and L Castlebury), 2004 - 2010.

NIH/NSF/USDA: Conservation/Pharmaceutical Res. (Building New Pharmaceutical Capabilities in Central Asia); National Institute of Health and National Science Foundation Program ICBG (\$3.7M over 5 years) (with Ilya Raskin [PI], G. Zylstra, J. Kukor, L. Struwe...), 2004-2009.

Sloan Foundation: Developing the Barcode System of Identification for Fungi (\$65,000; with Amy Rossman and Mary Palm), 2007-2008.

USDA-ARS Cooperative Agreement: Resolving Problems in Classification and Identification of Plant Pathogenic Fungi (\$210,000), 2009-2012.

Lundell Herbarium Grant [University of Texas] (\$500.00). 1986.

National Science Foundation Instrumentation Grant [DIR 8907860] for Ultramicrotome (\$22,000.00). 1989.

Auburn University at Montgomery, Junior Faculty Fellowship Award (\$2,000.00). 1990.

National Science Foundation, Systematic Biology Program. Systematic and Biological Studies of Balansieae (Ascomycetes) [BSR 8922157] (\$111,765.00 for 3 years). 1990.

Rutgers Agricultural Experiment Station, Turf Grass Research Support. Systematic Studies on Grass Endophytes in Great Britain (\$10,000.00; collaboration with Dr. C. R. Funk). 1991.

Center for Interdisciplinary Studies in Turfgrass Science Research support. Systematic Studies on Grass Endophytes in Great Britain (\$10,000.00; collaboration with Dr. C. R. Funk). 1992.

Center for Interdisciplinary Studies in Turfgrass Science. Sugar Utilization in Relation to the Induction of Choke Disease in the Turfgrass Pathogen *Epichloë typhina* (\$76,708.00 for 2 years; collaboration with Dr. Faith Belanger). 1992.

National Science Foundation, RUI Research Grant (DEB-9224647). Systematic and Biological Studies of Balansieae (\$118,000.00 for 3 years; for period Sept. 1993 to Sept. 1996). 1993.

Auburn University at Montgomery, Research Grant-in-Aid (\$3,600.00). 1994.

Center for Interdisciplinary Studies in Turfgrass Science, Studies on Endophytes in Tierra del Fuego, Argentina

(\$10,000.00; collaboration with Dr. C. R. Funk). 1994.

National Science Foundation, Systematic and Biological Studies of Balansieae (\$150,000.00 for three years; Sept. 1996 to Dec. 1999). 1996.

National Geographic Society, Endophytes of the Patagonian Grassland (\$20,500.00 for two years; Jan. 1997 to Dec. 1998). 1996.

Center for Turfgrass Science, Studies on Endophytes in Turfgrasses. (\$53,000.00). 1999-2000.

Burlington County, *Aspergillus fumigatus* sampling project. (\$150,000.00). 1997-2000.

Merck Study Agreement, Clavicipitaceae Fermentation and Development Studies. (\$167,000.00). 2001-2003.

Center for Turfgrass Science, Studies on Endophytes in Turfgrasses. (\$54,000.00). 2000-2001.

Cook Programmatic Enhancement Grants, Microbial Bioprospecting in Support of New Jersey Agriculture and Industry (with Jerome Kukor, Anthony Artuso, Tamar Barkay, Doug Eveleigh, M. Häggblom, Lee Kerkhof, Don Kobayashi, Jim White, Lily Young, Gerben Zylstra). (\$199,714). 2000-2004.

Strategic Resource and Opportunity Analysis Program (SROA6):
Microbial Bioprospecting and High-Throughput Screening in Support of New Jersey Agriculture and Industry, (with Jerome Kukor, Anthony Artuso, Tamar Barkay, Doug Eveleigh, M. Häggblom, Lee Kerkhof, Don Kobayashi, Jim White, Lily Young, Gerben Zylstra). (\$120,600). July, 2001-June, 2001.

National Starch & Chemical Company Grant-in-Aid. For Industrial Mycological Studies. (\$12,300), 2001.

PATENTS

U.S. patent No. 6,544,512 B1 (filed March 2, 2000; granted April 8, 2003) "Use of *Phoma glomerata* as a hyperparasite in the biocontrol of fungal diseases in plants" Inventor: J. F. White, Jr.

U.S. patent pending No. PCT/US16/43408. (Filed July 21, 2016).

"Compositions and Methods Comprising Endophytic Bacterium for Application to Grasses to Increase Plant Growth, Suppress Soil Borne Fungal Diseases, and Reduce Vigor of Weedy Competitors". Inventors: White JF, Kowalski K, Kingsley K.

U.S. Provisional Patent Application No. 62/541,395. (Filed August 4, 2017) Compositions and Methods Comprising Endophytic Bacterium for Application to Target Plants to Increase Plant Growth, and Increase Resistance to Abiotic and Biotic Stressors. James White and Ivelisse Irizarry.

Canadian Patent Application; RU Ref. 2018-018CA (Filed August 4, 2017) Compositions and Methods Comprising Endophytic Bacterium for Application to Target Plants to Increase Plant Growth, and Increase Resistance to Abiotic and Biotic Stressors. James White and Ivelisse Irizarry.

PUBLICATIONS

EDITED BOOKS

1. White, J., and M. S. Torres (editors). 2009. *Defensive Mutualism in Microbial Symbiosis*. Taylor & Francis Publishers, NY. 430 pages; ISBN: 9781420069310.
2. Dighton, J., J. F. White, Jr., and P. Oudemans (editors). 2005. *The Fungal Community: Its Organization and Role in the Ecosystem* (Third edition). CRC Press, Boca Raton, FL. 936 pages; ISBN 0824723554.
3. White, J.F., Jr. C. W. Bacon, J. Spatofora, N. Hywel-Jones (editors). 2004. *The Clavicipitalean Fungi*. Marcel-Dekker, New York. 640 pages; ISBN-10: 0824742559; ISBN-13: 978-0824742553.
4. Bacon, C. W., and J. F. White, Jr. (editors). 2000. *Microbial Endophytes*. Marcel-Dekker, New York. 514 pages; ISBN 0824788311.
5. Bacon, C. W., and J. F. White, Jr. (editors). 1994. *Biotechnology of *Acremonium* endophytes of grasses*. CRC Press, Boca Raton, FL. 226 pages; ISBN-10: 0849362768; ISBN-13: 978-0849362767.

6. Dighton, J., and J. F. White, Jr. (editors). 2017. *The Fungal Community: Its Organization and Role in the Ecosystem* (Forth edition). Taylor & Francis Publishers, NY.

PUBLISHED ARTICLES AND BOOK CHAPTERS

(List includes peer reviewed; exclusive of abstracts;
Reverse chronological order)

208. Wei Li, Long Chu, James F. White, Jr., Zhi Xiong, Xinya Li, Qiaohong Li, Sihui Zhao, Haiyan Li. 2017. Diversity and heavy metal tolerance of endophytic fungi from *Chenopodium ambrosioides*, a hyperaccumulator of Pb-Zn from contaminated soils. *J. Plant Interactions*.
207. White JF, Kingsley KI, Kowalski KP, Irizarry I, Micci A, Soares MA, Bergen MS. 2017. Disease protection and allelopathic interactions of seed-transmitted endophytic pseudomonads of invasive reed grass (*Phragmites australis*). *Plant and Soil* DOI: 10.1007/s11104-016-3169-6
206. Ivelisse Irizarry and James F. White. 2017. Application of bacteria from non-cultivated plants to promote growth, alter root architecture and alleviate salt stress of cotton. *Journal Applied Microbiology*.
205. Michael Krings, Carla J. Harper, James F. White, Manfred Barthel, Jochen Heinrichs, Edith L. Taylor' Thomas N. Taylor. 2017. Fungi in a *Psaronius* root mantle from the Rotliegend (Asselian, lower Permian/Cisuralian) of Thuringia, Germany. *Review of Paleobotany and Palynology*.
204. Jingjin Xie, Qiang Chen, Poornima Suresh, Subrata Roy, James F. White, and Aaron D. Mazzeo. 2017. Paper-based Plasma Sanitizers. *PNAS* DOI: 10.1073/pnas.1621203114
203. Satish K Verma, Kathryn Kingsley, Marshall Bergen, Camille English, Matthew Elmore, Ravindra N Kharwar, James F White. 2017. Bacterial endophytes from rice cut grass (*Leersia oryzoides* L.) increase growth, promote root gravitropic response, stimulate root hair formation, and protect rice seedlings from disease. *Plant and Soil*. DOI: 10.1007/s11104-017-3339-1

202. William Pietro-Souza, Ivani Souza Mello, Suzana Junges Vendruscullo, Gilvan Ferreira da Silva, Cátia Nunes da Cunha, James Francis White, Marcos Antônio Soares. 2017. Structure and function of the endophytic fungi community are influenced by mercury. PLoS ONE 12(7):e0182017 .
201. M. Tadych and J. W. White. 2017. Endophytic microbes. Encyclopedia of Microbiology (4th Edition). Academic Press. DOI: 10.1016/B978-0-12-809633-8.13036-5
200. James White. 2017. Syntrophic imbalance and the etiology of bacterial endoparasitism diseases. Medical Hypothesis 104C: 14-15.
199. Satish Kumar Verma, Kathryn Kingsley, Ivelisse Irizarry, Marshall Bergen, Ravindra Nath Kharwar, James F White, Jr. 2017. Seed vectored endophytic bacteria modulate development of rice seedlings. J. Applied Microbiology 122: 1680-1691.
198. James F. White, Jr., Kathryn Kingsley, Carla Harper, Qiang Chen, Satish K. Verma, Lara Brindisi, Xiaoqian Chang, April Micci, Marshall Bergen. 2017. Reactive Oxygen Defense Against Endoparasitic Prokaryotes and the Origin of Eukaryotes. In: Transformative paleobotany: Papers to commemorate the life and legacy of Thomas N. Taylor (Eds: Michael Krings, Carla J. Harper, N. Ruben Cuneo, and Gar W. Rothwell). Elsevier
197. Zambell C, White JF. 2017. Community assembly of phyllosphere endophytes: a closer look at fungal life-cycle dynamics, competition and phytochemistry in the shaping of the fungal community. Chapter in The Fungal Community: its Organization and Role in the Ecosystem (4th Edition), eds. Dighton J, White JF.
196. Bacon C, White JF. 2016. Microbial Endophytes: Evolution, Diversity, Community Functions, and Regulation. Chapter in book: Understanding Terrestrial Microbial Communities (Book in Press), Publisher: Springer International Publishing, Editor: CJ Hurst.
195. White JF, Tadych M, Torres MS, Bergen MS, Irizarry I, Chen

- Q, Zambell C. 2016 Endophytic Microbes, Evolution and Diversification of. In: Kliman, R.M. (ed.), Encyclopedia of Evolutionary Biology. vol. 1, pp. 505–510. Oxford: Academic Press.
194. Yanwisetpakdee B, Lotrakul P, Prasongsuk S, Seelanan T, White JF, Eveleigh DE, Kim SW, Punnapayak H. 2016. Associations among halotolerance, osmotolerance and exopolysaccharide production of *Aureobasidium melanogenum* strains from habitats under salt stress. *Pak. J. Bot* 48(3): 1229–1239
193. Soares MA, Li HY, Kowalski KP, Bergen M, Torres MS, White JF. 2016a. Functional role of bacteria from invasive *Phragmites australis* in promotion of host growth. *Microbial Ecology* DOI: 10.1007/s00248-016-0793-x.
192. Soares MA, Li HY, Kowalski KP, Bergen M, Torres MS, White JF. 2016b. Evaluation of the functional roles of fungal endophytes of *Phragmites australis* from high and low saline sites. *Biological Invasions* DOI 10.1007/s10530-016-1160-z.
191. Siqueira KA, Brissow ER, Santos JL, White JF, Santos FR, de Almeida EG, Soares MA. 2016. Endophytism and bioactivity of endophytic fungi isolated from *Combretum lanceolatum* Pohl ex Eichler. *Symbiosis* DOI: 10.1007/s13199-016-0427-6
190. Mariusz Tadych, Nicholi Vorsa, Yifei Wang, James White. 2015. Interactions between cranberries and fungi: The proposed function of organic acids in virulence suppression of fruit rot fungi. *Frontiers in Microbiology* 6:835, DOI: 10.3389/fmicb.2015.00835
189. Marcos Soares, Hai-Yan Li, Marshall Bergen, James White. 2015. Functional role of an endophytic *Bacillus amyloliquefaciens* in enhancing growth and disease protection of invasive English ivy (*Hedera helix* L.). *Plant and Soil* DOI: 10.1007/s11104-015-2638-7
188. Hai-Yan Li, Marcos Soares, Monica Torres, James White. 2015. Endophytic bacterium, *Bacillus amyloliquefaciens*, enhances ornamental hosta resistance to diseases and insect pests. *Journal of Plant Interactions* 10:224–229
187. Charles Bacon, James White. 2015. Functions, Mechanisms and Regulation of Endophytic and Epiphytic Microbial

Communities of Plants. Symbiosis DOI:
10.13140/RG.2.1.1956.9124

186. Wen-An Zhou, James White, Marcos Soares, Hai-Yan Li. 2015. Diversity of fungi associated with plants growing in geothermal ecosystems and evaluation of their capacities to enhance thermotolerance of host plants. *Journal of Plant Interactions* DOI: 10.1080/17429145.2015.1101495
185. Surendra K. Gond, Marshall S. Bergen, Mónica S. Torres, James F. White. 2015. Effect of bacterial endophyte on expression of defense genes in Indian popcorn against *Fusarium moniliforme*. *Symbiosis* DOI: 10.1007/s13199-015-0348-9
184. Surendra K. Gond, Mónica S. Torres, Marshall S. Bergen, Zane Helsel, James F. White. 2015. *Induction of salt tolerance and up-regulation of aquaporin genes in tropical corn by rhizobacterium Pantoea agglomerans*. *Letters in Applied Microbiology* doi:10.1111/lam.12385.
183. Kurt P. Kowalski, Charles Bacon, Wesley Bickford, Heather Braun, Keith Clay, Michele Leduc-Lapierre, Elizabeth Lillard, Melissa McCormick, Eric Nelson, Monica Torres, James White and Douglas A. Wilcox. 2015. Advancing the science of microbial symbiosis to support invasive species management: A case study on *Phragmites* in the Great Lakes. *Frontiers in Microbiology* 01/2015; 6:95. DOI: 10.3389/fmicb.2015.00095
182. James F White, Qiang Chen, Monica Torres, Robert Mattera, Ivelisse Irizarry, Mariusz Tadych, Marshall Bergen. 2015. Collaboration between grass seedlings and rhizobacteria to scavenge organic nitrogen in soils. *AoB PLANTS* 01/2015; doi: 10.1093/aobpla/plu093
181. Surendra K. Gond, Marshall S. Bergen, Monica S. Torres, James F. White. 2014. Endophytic *Bacillus* spp. produce antifungal lipopeptides and induce host defense gene expression in maize. *Microbiological Research* 12/2014; DOI: 10.1016/j.micres.2014.11.004

180. Christopher B Zambell, James F White. 2014. In the forest vine *Smilax rotundifolia*, fungal epiphytes show site-wide spatial correlation, while endophytes show evidence of niche partitioning. *Fungal diversity* 12/2014; DOI 10.1007/s13225-014-0316-3.
179. S. K. Gond, R. N. Kharwar, J. F. White. 2014. *Will fungi be the new source of the blockbuster drug taxol?* *Fungal Biology Reviews* 11/2014;
178. Miguel Beltran-Garcia, James F White, Fernanda M Prado, Katia R Prieto, Lydia F Yamaguchi, Monica S Torres, Massuo J Kato, Marisa H G Medeiros, Paolo Di Mascio. 2014. Nitrogen acquisition in *Agave tequilana* from degradation of endophytic bacteria. *Scientific Reports* 11/2014; 4:6938. DOI: 10.1038/srep06938.
177. James F White, Mónica S Torres, Raymond F Sullivan, Rabih E Jabbour, Qiang Chen, Mariusz Tadych, Ivelisse Irizarry, Marshall S Bergen, Daphna Havkin-Frenkel, Faith C Belanger. 2014. Occurrence of *Bacillus amyloliquefaciens* as a systemic endophyte of vanilla orchids. *Microscopy Research and Technique* DOI: 10.1002/jemt.22410.
176. James F. White, Mónica S. Torres, Mohini P. Somu, Holly Johnson, Ivelisse Irizarry, Qiang Chen, Ning Zhang, Emily Walsh, Mariusz Tadych, Marshall Bergen. 2014. Hydrogen peroxide staining to visualize intracellular bacterial infections of seedling root cells. *Microscopy Research and Technique*. 05/2014; DOI: 10.1002/jemt.22375
175. Mariusz Tadych, Marshall S. Bergen, James F. White. 2014. *Epichloë* spp. associated with grasses: new insights on life cycles, dissemination and evolution. *Mycologia* 04/2014; 106(2): 181-201.
174. Adrian Leuchtmann, Charles Wilson Bacon, Christopher L Schardl, James F White, Mariusz Tadych. 2014. Nomenclatural realignment of *Neotyphodium* species with genus *Epichloe*. *Mycologia* 04/2014; 106(2): 202-215.
173. Meyer WA, Torres MS, White JF, Jr. 2013. Biology and applications of fungal endophytes in turfgrasses. Chapter 20, pp 713-731, Stier JC, Horgan BP, Bonos SA (Eds.), *Turfgrass: Biology, Use, and Management*. Agronomy Monograph 56. American Agronomy Society, Madison, WI. ISSN 0065-4663.
172. James F. White Jr, Mónica S. Torres, Holly Johnson, Ivelisse Irizarry, Mariusz Tadych. 2013. A Functional View

of Plant Microbiomes: Endosymbiotic Systems that Enhance Plant Growth and Survival. ISBN: 978-81-322-1574-5 In book: Advances in Endophytic Research, Publisher: Springer-Verlag, Editors: Verma, Gange

171. White JF, Crawford H, Torres MS, Mattera R, Irizarry I, Bergen MS. 2012. A proposed mechanism for nitrogen acquisition by grass seedlings through oxidation of symbiotic bacteria. Symbiosis doi:10.1007/s13199-012-01
170. Tadych, M. Bergen, M.S., Johnson-Cicalese, J., Polashock, J.J., Vorsa, N., White, J.F., Jr. 2012. Endophytic and pathogenic fungi of developing cranberry ovaries from flower to mature fruit: diversity and succession. Fungal Diversity 1-16.
169. White, J.F., Jr., Bacon, C.W. 2012. The secret world of endophytes in perspective. Fungal Ecology 5: 287-288.
168. Walker, D.M., Castlebury, L., Rossman, A.Y., White, J.F., Jr. 2012. New molecular markers for fungal phylogenetics: Two genes for species-level systematics in the Sordariomycetes (Ascomycota). Molecular Phylogenetics and Evolution
167. Tadych, M., Ambrose, K.V., Bergen, M.S., Belanger, F.C, White, J.F., Jr. 2012. Taxonomic placement of *Epichloë poae* sp. nov. and horizontal dissemination to seedlings via conidia. Fungal Diversity 1-15.
166. Torres, M.S., White, J.F., Hinton, D.M., Bacon, C.W. 2011. Endophyte-mediated adjustments in host morphology and physiology and effects on host fitness traits in grasses. Fungal Ecology. DOI:10.1016/j.funeco.2011.05.006.
165. Mejía LC, Castlebury LA, Rossman AY, White JF, 2011. New species, phylogeny, host associations, and geographic distribution of genus *Cryptosporella* (Gnomoniaceae, Diaporthales). Mycologia 103: 379-399.
164. Mejía LC, Rossman AY, Castlebury LA, Yang, ZL, White JF Jr., 2011. *Occultocarpon*, a new monotypic genus of Gnomoniaceae on *Alnus nepalensis* from China. Fungal Diversity DOI 10.1007/s13225-011-0108-y.
163. Krings, M., T. N. Taylor, J. F. White, Jr. 2011. Fungal sporocarps from the Carboniferous: An unusual specimen

- Traquairia. Rev. Palaeobotany and Palynology 168: 1-6.
162. Mejía LC, Castlebury LA, Rossman AY, White JF, 2011. Systematic review of the genus *Plagiostoma* Fuckel (Gnomoniaceae) based on morphology, host-associations, and a four-gene phylogeny. *Studies in Mycology* 63: 1-72.
161. Alvarez-Loayza, P., J. F. White Jr., M. S. Torres, N. Gil, J-C. Svenning, H. Balslev, T. Kristiansen. 2011. Light converts endosymbiotic fungus to pathogen, influencing seedling survival and recruitment of host. *PLoS ONE* 6(1):e16386.
160. Leopoldo J. Iannone, James F. White Jr., Liliana M. Giussani; Daniel Cabral and M. Victoria Novas. 2010. *Neotyphodium* endophytes in Argentina, host diversity and distribution. *Mycological Progress* 10: 9-19, DOI: 10.1007/s11557-010-0669.
159. Torres, M.S., and J.F. White Jr. 2010. Grass endophyte-mediated plant stress tolerance: alkaloids and their functions. Pages 479-496. In: Seckbach and M. Grube (eds.) *Symbiosis and Stress*. Springer, Dordrecht.
158. Martin Grube, James F. White, Jr. and Joseph Seckbach. 2010. *Symbiosis and stress*. Pages 21-41, In: Seckbach and M. Grube (eds.) *Symbiosis and Stress*. Springer, Dordrecht.
157. Walker, D.M., Rossman, A.Y., Castlebury, L.A., Mejia, L.C., Sogonov, M.V. and White, J.F. 2010. A systematic study of the genus *Gnomoniopsis* (Gnomoniaceae, Diaporthales) based on a three gene phylogeny, host associations, and morphology. *Mycologia* 102: 1479-1496.
156. Tadych M., Chaverri P., Bergen M., White Jr., J.F. 2009. *Moelleriella zhongdongii*: stroma development and identification of hirsutella-like and *Aschersonia* synanamorphs. *Mycological Research* 113: 611-615; DOI: 10.1016/j.mycres.2009.01.011 (online February 7, 2009).
155. Crouch J.A., B.B. Clarke, J.F. White, Jr. and B.I. Hillman. 2009. Systematic analysis of the falcate-spored graminicolous *Colletotrichum* and a description of six new species of the fungus from warm-season grasses. *Mycologia* 101: 717-732.
154. RODRIGUEZ, RJ; WHITE, JF; ARNOLD, AE. 2009. Fungal endophytes: diversity and functional roles. *NEW PHYTOLOGIST* 182: 314-330.

153. Torres, M.S. and J.F. White Jr. 2009. Free-living and saprotrophs to plant endophytes. Pages 422-430 in Encyclopedia of Microbiology, 3rd edition (Moselio Schaechter, Ed.), Elsevier.
152. White, J.F. Jr. and M.S. Torres 2010. Is plant endophyte-mediated defensive mutualism the result of oxidative stress protection? *Physiologia Plantarum* Published Online: Nov 16 2009 4:07PM_DOI: 10.1111/j.1399-3054.2009.01332.x
151. White, J. F. Jr. and M. S. Torres. 2009. Symbiosis, defensive mutualism and variation on the theme. In *Defensive Mutualism in Microbial Symbiosis*, eds. J. F. White, Jr. and M. S. Torres, CRC Press., Boca Raton, Florida, pp. 3-8.
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1. Author or Co-author of 80+ GenBank DNA sequence accessions pertaining to fungi in the Clavicipitaceae. A substantial percentage of the ribosomal DNA sequences of gramicolous Clavicipitaceae available in public databases comes from the lab of the candidate. These accessions are available and permanently archived at <http://www.ncbi.nlm.nih.gov>. Each

accession is approximately 1 page in length and may be considered to represent electronic publications.

2. Author or Co-author of 19 rDNA sequence accessions pertaining to genera *Phoma* and *Ampelomyces*. These accessions are available and permanently archived at <http://www.ncbi.nlm.nih.gov>. Each accession is approximately 1 page in length.
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Membership in Graduate Programs:

Member Plant Biology Graduate Faculty

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Member Molecular Biosciences Graduate Faculty

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Dr. Hai-Yan Li (Visiting Scientist; 2013-2014)

Dr. Surendra Gond (Visiting Scientist; 2013-2014)

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