
BIOGRAPHICAL SKETCH

NAME: Bruce Clarke	POSITION TITLE: Extension Specialist/Professor, Turfgrass Pathology
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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Rutgers University	PhD	1982	Plant Pathology
Rutgers University	BS	1977	Forest Management

EMPLOYMENT HISTORY

Director, Center for Turfgrass Science, New Jersey Agricultural Experiment Stn., Rutgers University	1993-present
Vice Chair, Department of Plant Biology & Pathology, Rutgers University	2001-present
Ralph Geiger Endowed Chair in Turfgrass Science, Department of Plant Biology & Pathology, Rutgers University	2005-2011
Chair, Department of Plant Pathology, Rutgers University	1999-2001
Extension Specialist. Department of Plant Biology & Pathology, Rutgers Cooperative, Rutgers University	2008-present
Extension Specialist. Department of Extension Specialists, Rutgers Cooperative Extension, Rutgers University	1997-2008
Associate Extension Specialist, Department of Extension Specialists, Rutgers Cooperative Extension, Rutgers University	1988-1997
Assistant Extension Specialist, Department of Extension Specialists, Rutgers Cooperative Extension, Rutgers University	1982-1988

PROFESSIONAL ACTIVITIES

Member of the American Phytopathological Society (1978-present), NED-APS President (00-01), Vice-President (99-00) and Secretary Treasurer (98-99), American Society of Agronomy (1993-present), American Association for the Advancement of Science (1978-present), Crop Science Society of America (1993-present), European Turfgrass Society (2008-present), International Turfgrass Society (1985-present; President-Elect [2009-2013], Board of Directors [2001-2009]).

Associate Editor - Plant Disease (1997-1999).

Journal Reviewer (Plant Disease, Phytopathology, Crop Sci., Agronomy Journal, Soil Biology and Biochemistry, Mycological Research, Journal of the International Turfgrass Res. Soc, Journal of Turfgrass Management, etc).

TEACHING EXPERIENCE

16:765:536. *Plant Disease Diagnostics* (graduate course) - 1982-present (alternate even # yrs)

11:776:408 *Turfgrass Pest Science* (undergraduate course) - 1999-present (alternate odd # yrs)

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HONORS AND AWARDS

Fellow Award – American Phytopathological Society (2012)
Visionary Leadership Award - Epsilon Sigma Phi National Extension Society (2011)
Distinguished Alumni Award - Graduate School, Rutgers Univ. (2008)
Dennis Fenton Graduate Alumni Award - Cook College, Rutgers University (2007)
Outstanding Professor of the Year Award - Graduate Student Assn., Rutgers (2007)
Team Research and Extension Award - Rutgers Cooperative Extension (2011, 2007, 1996)
Fellow Award - Crop Science Society of America (2006); American Society of Agronomy (2004)
Ralph Geiger Endowed Chair - Rutgers University (2005)
Distinguished Service Award - Golf Course Superint. Assn. NJ (2003)
Extension Excellence Award - Rutgers Cooperative Extension (2003)
John Reid Lifetime Achievement Award - Metro. Golf Course Sup. Assn. – (2002)
Weisblat Award for Excellence in Research, Teaching, and Outreach - NJ Agric. Exp. Stn. (2001)
Hall of Fame Award - New Jersey Turfgrass Assn. (1996)
Recognition Award - New Jersey Turfgrass Assn. – (1987)

INVITED RESEARCH AND EXTENSION PRESENTATIONS

Presents over 50 invited research/extension presentations each year at international, national and state conferences.

GRADUATE AND POST DOCTORAL ADVISING

Doctoral Thesis: Primary Advisor - 6
Masters Thesis: Primary Advisor 8
Graduate Committee Member - 20
Post-Doctoral Fellows/ Visiting Scientists -7

PUBLICATIONS (SINCE 2007)

Journal Publications (*indicates senior author was one of Clarke's graduate students or was from Clarke's Laboratory).

Inguagiato*, J.C., Murphy, J.A., and Clarke, B.B. 2012. *Sand topdressing rate and interval effects on anthracnose disease severity of an annual bluegrass putting green*. Crop Sci. (In Press)

Roberts*, J.A., B.B. Clarke, and J.A. Murphy. 2012. *Anthracnose disease of annual bluegrass putting green turf as affected by lightweight rolling and equipment traffic*. Agron. J. (In Press).

Zhao,S., B.B. Clarke, Q. Shen, J. Hu, L. Zhang and N. Zhang 2012. *Development and application of a TaqMan real-time PCR assay for rapid detection of Magnaporthe poae*. Mycologia: (In Press)

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Beirn*, L.A., M. Moy, W.A. Meyer, B.B. Clarke, and J.A. Crouch. 2011. *Molecular analyses of turfgrass rusts reveals the widespread distribution of Puccinia coronata as a pathogen of Kentucky bluegrass in the U.S.* Plant Dis. 95:1547-1557

Espevig, T., M. DaCosta, L. Hoffman, T. S. Aamlid, A. Tronsmo, B. B. Clarke and B. Huang. 2011. *Freezing tolerance and carbohydrate changes of two Agrostis species during cold acclimation.* Crop Sci. 51:1188-1197.

Njambere, E.N., B.B. Clarke, and N. Zhang. 2011. *Dimeric oligonucleotide probes enhance diagnostic microarray performance.* Journal of Microbiological Methods 86:52–61.
doi:10.1016/j.mimet.2011.03.015

Njambere, E. N., B. B. Clarke, S. A. Bonos, J. A. Murphy, R. Buckley, S. Tirpak, and N. Zhang. 2011. *First Report of Brown Ring Patch Caused by Waitea circinata var. circinata on Poa annua and Agrostis stolonifera in New Jersey.* Plant Dis.95: 78.

Roberts*, J. A., B. B. Clarke, and J. A. Murphy. 2011. *Irrigation Quantity Effects on Anthracnose Disease of Annual Bluegrass.* Crop Sci.51: 2044-1252.

Inguagiato*, J.C., J.A. Murphy, and B.B. Clarke. 2010. *Anthracnose development on annual bluegrass affected by seedhead and vegetative growth regulators.* Applied Turf Sci.:
DOI:10.1094/ATS-2010-0923-01-RS

Crouch*, J.A., L.A. Beirn, L.M. Cortese, S.A. Bonos, and B.B. Clarke. 2009. *Anthracnose disease of switchgrass caused by the novel fungal species Colletotrichum navitas.* Mycological Res 113: 1411-1421.

Bonos, S.A., E.N. Weibel, T.J. Lawson and B.B. Clarke. 2009. *Tolerance of Creeping Bentgrass Cultivars and Selections to Anthracnose in New Jersey.* Online. Applied Turf Sci.:
DOI:10.1094/ATS-2009-0806-01-BR

Crouch*, J.A., B.B. Clarke, and B.I. Hillman. 2009. *What is the value of ITS sequence data in Colletotrichum systematics and species diagnosis? A case study using the falcate-spored graminicolous Colletotrichum group.* Mycologia 101(5): 648-656 (available on-line; DOI: 10.3852/08-231).

Crouch*, J.A., B.B. Clarke, J.F. White, and B.I. Hillman. 2009. *Systematic analysis of the falcate-spored graminicolous Colletotrichum and a description of six new species from warm season grasses.* Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Inguagiato*, J.C., J.A. Murphy, and B.B. Clarke. 2009. *Anthracnose of annual bluegrass putting green turf influenced by trinexapac-ethyl application interval and rate.* J. Int.Turf Soc. 11: 207-218

Inguagiato*, J.C., J.A. Murphy, and B.B. Clarke. 2009. *Anthracnose disease and annual bluegrass putting green performance affected by mowing practices and lightweight rolling.* Crop Sci.49: 1454-1462

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Crouch*, J.A., L.P. Treadway, B.B. Clarke, and B.I. Hillman. 2009. *Phylogenetic and population genetic divergence correspond with habitat for the pathogen Colletotrichum cereale and allied taxa across diverse grass communities*. Molecular Ecology 18:123-135.

Crouch*, J.A., B.M. Glasheen, M.A. Giunta, B.B. Clarke, and B.I. Hillman. 2008. *The evolution of transposon repeat-induced point mutation in the genome of Colletotrichum cereale: Reconciling sex, recombination and homoplasy in an "asexual" pathogen*. Fungal Genet. Biol. 45:190-206. doi:10.1016/j.fgb.2007.08.004

Crouch*, J.A., B.M. Glasheen, W. Uddin, B.B. Clarke, and B.I. Hillman. 2008. *Patterns of diversity in populations of the turfgrass pathogen Colletotrichum cereale as revealed by transposon fingerprint profiles*. Crop Sci. 48:1203-1210.

Inguagiato*, J.C., J.A. Murphy, and B.B. Clarke. 2008. *Anthracnose severity on annual bluegrass as influenced by nitrogen fertilization, growth regulators, and verticutting*. Crop Sci. 48:1595-1607.

Fidanza, M.A., B.B. Clarke, M.L. Agnew, J.E. Kaminski, and T.R. Reed. 2007. *Pesticide application research demonstrated at a field day event*. JOE 45: 11AW7 (www.joe.org/joe/2007february/iw7.shtml)

Taxonomy: New Descriptions of Plant Pathogenic Fungi

Colletotrichum cereale Manns sensu lato Crouch, Clarke, and Hillman. 2009. Phytopathology 96:46–60.

Colletotrichum axonopodi J.A. Crouch, B.B. Clarke, J.F. White et B.I. Hillman, sp. nov. 2009. Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Colletotrichum hanaui J.A. Crouch, B.B. Clarke, J.F. White et B.I. Hillman, sp. nov. 2009. Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Colletotrichum jacksonii J.A. Crouch, B.B. Clarke, J.F. White et B.I. Hillman, sp. nov. 2009. Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Colletotrichum miscanthi J.A. Crouch, B.B. Clarke, J.F. White et B.I. Hillman, sp. Nov. 2009. Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Colletotrichum nicholsonii J.A. Crouch, B.B. Clarke, J.F. White et B.I. Hillman, sp. nov. 2009. Mycologia 101 (5): 717-732 (available on-line; DOI: 10.3852/08-230).

Plant Variety Protection Certificates

Meyer, W.A. C.R. Funk, B.B. Clarke and T. Molnar. 2009. United States Plant Variety Protection Certificate no. 200400132. *'Mercury' Kentucky bluegrass*. Issued Feb. 17, 2009.

Meyer, W. A. K. Hignight, B. B. Clarke and B. Fitzgerald. 2007. United States Plant Variety Protection Certificate no. 20040051. *'Riverside' tall fescue*. Issued May 23, 2007.