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Josh A. Honig

Education

Rutgers, The State University of New Jersey, New Brunswick, NJ
2004-2011
Doctor of Philosophy in Plant Biology and Pathology – Degree conferred January 2011

- Dissertation: "Utilizing molecular genetic tools as a compliment to traditional turfgrass breeding programs"
- GPA: 3.89/4.00

Rutgers, The State University of New Jersey, New Brunswick, NJ
1996-2000
Master of Science in Plant Biology

- Thesis: "Sample Preparation Effects on Saturated Hydraulic Conductivity of Sand-Based Root Zone Material"
- GPA: 3.86/4.00

Cook College, Rutgers, The State University of New Jersey, New Brunswick, NJ
1990–1995
Bachelor of Science in Plant Science – Turfgrass Management option

- GPA: 3.23/4.00

Professional Experience

Rutgers, Department of Plant Biology and Pathology, New Brunswick, NJ
2/14 - present
Assistant Research Professor (*non-tenure track*) – Lead Scientist, Rutgers DNA Genotyping Laboratory

Rutgers, Department of Plant Biology and Pathology, New Brunswick, NJ
2/11- 2/14
Faculty Research Associate (*non-tenure*) – Lead Scientist, Rutgers DNA Genotyping Laboratory

Rutgers, Department of Plant Biology and Pathology, New Brunswick, NJ
2/03 - 1/11
Graduate Student / Laboratory Research Assistant – Sept. 2004 – January 2011
Laboratory Research Assistant – Feb. 2003 – Aug. 2004

Supervisor: Dr. William A. Meyer

Echo Lake Country Club, Westfield, NJ 2/02- 1/03
Assistant Superintendent
Supervisor: Chris Carson

Rutgers, Department of Plant Science, New Brunswick, NJ 1/93-12/01
Graduate Student 1/96-12/01
Undergraduate Research Assistant 1/93-1/96
Supervisor: Dr. James A. Murphy

Walkill Golf Club, Franklin, NJ, 1989-1993
Seasonal grounds crew
Supervisors: Steve Stefkovich and Steve Roberts

Honors and Awards

Ralph Geiger Memorial Scholarship (2008)
Peter Selmer Loft Memorial Scholarship (2008)
Ralph Geiger Memorial Scholarship (2007)
Peter Selmer Loft Memorial Scholarship (2007)
Peter Selmer Loft Memorial Scholarship (2006)
GCSAA Watson Fellowship Award (2006)
New Jersey Turfgrass Foundation Challenge Award (2005)
Peter Selmer Loft Memorial Scholarship (2005)
Peter Selmer Loft Memorial Scholarship (2004)
Ralph Geiger Memorial Scholarship (2001)
Peter Selmer Loft Memorial Scholarship (1993-1996, 1998-2001)
New Jersey Turfgrass Association Scholarship (2000)
2nd Place Graduate Student Poster Contest (CSSA C5– 2000)
2nd Place Graduate Student Oral Paper Contest (CSSA C5– 1999)
National Sports Turf Managers Association Scholarship (2000)
Ralph Engel Scholarship Award (1999)
Selected USGA Intern - Northeast Region (1999)
New York Farmers Club Scholarship (1997-1999)
New Jersey Turfgrass Association Challenge Award (1998)
Runk Memorial Scholarship (1997-1998)
Peter Selmer Loft Challenge Award (1997)
New Jersey Turfgrass Association Hall of Fame Student Scholarship (1997)
Dean's List, Cook College (1994-1995)
New Jersey Merit Scholarship (1990-1994)

Affiliations and Activities

American Society of Agronomy
Crop Science Society of America
Soil Science Society of America
New Jersey Turfgrass Association
Golf Course Superintendents Association of America – Student member
Rutgers University Turf Club (**Founding Member –** 1996, **Fundraising Coordinator** - 1996-2001, **President** - 1996-1997**)**
Rutgers University Soil and Water Conservation Club (**Treasurer –** 1992, **Vice President** -1993, **President** – 1994 - 1995**)**

Administrative Duties

Curriculum/Academic Advisor to the Rutgers Professional Golf Turf Management Program, SEBS Office of Continuing Professional Education *– 10/1/13 – present*

Undergraduate Recruiting Coordinator for the Rutgers Center for Turfgrass Science (recruitment of students for the Plant Biology Undergraduate Program, with specific interest in the Horticulture and Turf Industry Option) *– 02/01/14 - present*

Publications

REFEREED JOURNAL ARTICLES:

Honig, J. A., J. N. Vaiciunas, M. F. Muehlbauer, and T. J. Molnar. 2017. A GBS-based linkage map for *Corylus avellana* and identification of QTL for Eastern Filbert Blight resistance. *In preparation for submission to* PLOS ONE.

Vivés, M., C. Kubik, V. Averello, J. Vaiciunas, S. A. Bonos, W. A. Meyer, and **J. A. Honig**. 2017. Next generation sequencing microsatellite marker database development and genetic diversity of fine fescue cultivars and accessions. *In preparation for submission to* Crop Science.

Muehlbauer, M. F., K. M. Gold, **J. A. Honig**, J. M. Capik, and T. J. Molnar. 2017. Genetic diversity of eastern filbert blight resistant hazelnuts collected from Turkey, Latvia, and Lithuania. *In preparation for submission to* Journal of the American Society for Horticultural Science.

Honig, J. A., J. N. Vaiciunas, E. ZelZion, D. Bhattacharya, and S. A. Bonos. 2017. Transcriptome analysis for perennial ryegrass in response to endophyte and salt stress. *In preparation for submission to* Crop Science.

Novy, A., P. Smouse, S. Luke Flory, **J. A. Honig**, S. A. Bonos, T. Culley and J. M. Hartman. 2017. Genetic Radiation Determines Biogeographic Structure of Invasive Stiltgrass, *Microstegium vimineum*. *In preparation for submission to* American Journal of Botany.

Pyne, R., **J. A. Honig**, J. Vaiciunas, and J. Simon. 2017. Population structure and genetic diversity among *Ocimum* spp. germplasm. *Submitted to* BMC Plant Biology, 22 August 2017.

Muehlbauer, M. F., K. M. Gold, **J. A. Honig**, N. Zhang, B. I. Hillman, and T. J. Molnar. 2017. Characterization of genetic diversity and population structure of the eastern filbert blight fungus (*Anisogramma anomala*) on cultivated hazelnut (*Corylus avellana*) using microsatellite markers. S*ubmitted to* Pytopathology, 29 June 2017.

Honig, J. A., V. Averello, J. N. Vaiciunas, W. A. Meyer, and S. A. Bonos. An update on the classification of Kentucky bluegrass (*Poa pratensis* L.) cultivars and accessions based on microsatellite markers. *Submitted to* Crop Science, 06 June 2017. CROP-2017-06-0353-OR

Pyne, R. M., **J. A. Honig**, J. Vaiciunas, A. Koroch, C. A. Wyenandt, S. A. Bonos, J. E. Simon. A first linkage map and downy mildew resistance QTL discovery for sweet basil (*Ocimum basilicum*) facilitated by double digestion restriction site associated DNA sequencing (ddRADseq). *Accepted to* PLOS ONE, 23 August 2017.

Koch, E. D., **J. A. Honig**, J. Vaiciunas, and S. A. Bonos. 2016. Endophyte effect on salinity tolerance in perennial ryegrass. *Accepted to* International Turfgrass Society Research Journal, 1 November 2016.

Honig, J. A., E. Zelzion, N. E. Wagner, C. Kubik, V. Averello, J. Vaiciunas, D. Bhattacharya, S. A. Bonos, and W. A. Meyer. 2016. Microsatellite (SSR) identification in perennial ryegrass (*Lolium perenne* L.) using next generation sequencing. *Accepted to* Crop Science, 26 September 2016. doi:10.2135/cropsci2016.07.0608

Jespersen, D., E. Merewitz, Y. Xu, **J. A. Honig**, S. A. Bonos, W. A. Meyer, and B. Huang. 2016. Quantitative trait loci associated with physiological traits for heat tolerance in creeping bentgrass. 56: 1314-1329.

Honig, J. A., V. Averello, C. Kubik, J. N. Vaiciunas, W. A. Meyer, and S. A. Bonos. 2015. Classification of bentgrass (*Agrostis*) cultivars and accessions based on microsatellite (SSR) markers. Genetic Resources and Crop Evolution. *Accepted* 3 August 2015. doi:10.1007/s10722-015-0307-6

Johnson-Cicalese, J., N. Vorsa, J. Polashock, **J. A. Honig**, and D. Ward. 2015. Heritability of fruit rot resistance in American cranberry. Journal of the American Society for Horticultural Science. 140(3):233-242.

M. F. Muehlbauer, **J. A. Honig**, J. M. Capik, J. N. Vaiciunas, and T. J. Molnar. 2014. Characterization of Eastern Filbert Blight-Resistant Hazelnut Germplasm using Microsatellite Markers. Journal of the American Society for Horticultural Science. 139:399-432.

Honig, J. A., C. Kubik, M. Majewski, C. Poulsen, E. Weibel, K. Amundsen, S. E. Warnke, W. A. Meyer, and S. A. Bonos. 2014. A PCR-based linkage map of *Agrostis stolonifera* and identification of QTL markers for dollar spot resistance. Molecular Breeding. 34:185-203.

Capik, J. M., M. Muehlbauer, A. Novy, **J. A. Honig**, and T. J. Molnar. 2013. Eastern Filbert Blight Resistant Hazelnuts from Russia, Ukraine, and Poland. HortScience. 48:466-473.

Georgi, L., J. Johnson-Cicalese, **J. A. Honig**, S. Parankush Das, V. Rajah, D. Bhattacharya, N. Bassil, J. Rowland, J. Polashock, and N. Vorsa. 2013. The first genetic map of the American cranberry: exploration of synteny conservation and quantitative trait loci. Theoretical and Applied Genetics. 126:673–692.

Honig, J. A., S.A. Bonos and W.A. Meyer. 2012. Classification of Kentucky bluegrass (*Poa pratensis* L.) cultivars and accessions based on microsatellite markers. HortScience. 47:1356–1366.

Novy, A., S. L. Flory, **J. A. Honig**, S. Bonos, and J.M. Hartman. 2012. Characterization of polymorphic microsatellites for the invasive grass *Microstegium vimineum* (Poaceae). American Journal of Botany. 99(2):56-58.

Kubik, C., **J. A. Honig,** and S.A. Bonos. 2011. Characterization of 215 simple sequence repeat markers in creeping bentgrass (*Agrostis stolonifera* L.). Molecular Ecology Resources. 11:872-876.

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Cortese, L. M., **J. A. Honig**, C. Miller and S.A. Bonos. 2010. Genetic diversity of twelve switchgrass populations using molecular and morphological markers. Bioenergy Research. 3:262-271.

Kubik, C., **J. A. Honig**, W.A. Meyer and S.A. Bonos. 2009. Genetic diversity of creeping bentgrass cultivars using SSR markers. International Turfgrass Society Research Journal. 11:533-547.

Murphy J. A., H. Samaranayake**,** T. J. Lawson, **J. A. Honig**, and S. Hart. 2005. Seeding date and cultivar impact on establishment of bentgrass in soil containing annual bluegrass seed. International Turfgrass Society Research Journal. 10:410-415.

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Abraham, E., M. Aa, **J. A. Honig**, C. Kubik and S.A. Bonos. 2005. The use of SCAR markers to identify Texas x Kentucky bluegrass hybrids. International Turfgrass Society Research Journal. 10:495-500.

Murphy, J. A., H. Samaranayake, **J. A. Honig**, T. J. Lawson, and S. L. Murphy. 2005. Creeping Bentgrass Establishment on Amended-Sand Root Zones in Two Microenvironments**.** Crop Sci. 45: 1511-1520.

Honig, J. A. and J.A. Murphy. 2001. Antecedent water content and air encapsulation effects on physical properties of sand root zone material. Journal of Turfgrass Science (incorporating The International Journal of The Sports Turf Research Institute, STRI, UK). 77:24-37

Murphy J. A., **J. A. Honig**, H. Samaranayake, T.J. Lawson and S.L. Murphy. 2001. Creeping bentgrass establishment on root zones varying in sand sizes. International Turfgrass Society Research Journal. 9:573-579.

Bonos, S. A., E. Watkins, **J. A. Honig**, M. Sosa, T. Molnar, J.A. Murphy and W.A. Meyer. 2001. Breeding cool-season turfgrasses for wear tolerance using a wear simulator. International Turfgrass Society Research Journal. 9:137-145.

<u>NON-REFEREED JOURNAL ARTICLES</u>:

Muehlbauer, M., **J. A. Honig** and T. J. Molnar. 2017. The use of chloroplast gene sequences to confirm maternal backgrounds of powdery mildew resistant putatively interspecific hybrid dogwood (*Cornus kousa* x *C. florida*) seedlings. *Submitted to* Acta Horticulturae, 06 April 2017.

Bonos, S.A., M. Koch, **J. A. Honig**, T. Gianfagna and B. Huang. 2009. Evaluating cool-season turfgrasses for salinity tolerance. USGA Green Section Record Nov/Dec 2009: 6-9.

Murphy, J.A., H. Samaranayake, **J. A. Honig**, T.J. Lawson and S.L. Murphy. 2004. Turfgrass establishment on various rootzones. USGA Green Section Record. 42(6):7-10.

Murphy, J.A., H. Samaranayake, **J. A. Honig**, T.J. Lawson and S.L. Murphy. 2004. Creeping bentgrass establishment on sand-based rootzones varying in amendment. USGA Turfgrass and Environmental Research Online. 3(10):1-15.

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Molnar, T. J., J. J. Lombardoni, M. F. Muehlbauer, **J. A. Honig**, S. A. Mehlenbacher, and J. M. Capik. 2017. Progress breeding for resistance to eastern filbert blight in the eastern United States. *In* Proceedings of the 9th International Congress on Hazelnut. Samsun, Turkey. August 15-19, 2017.

Honig, J. A., E. Zelzion, N. E. Wagner, C. Kubik, V. Averello, J. Vaiciunas, D. Bhattacharya, S. A. Bonos, and W. A. Meyer. 2016. Next Generation Sequencing-based discovery of microsatellite (SSR) markers in perennial ryegrass (*Lolium perenne* L.). 13th International Turfgrass Research Conference. New Brunswick, NJ. July 16-21, 2017.

Pyne, R., A. Wyenandt, A. Koroch, **J. A. Honig**, and J. E. Simon. 2017. Mapping the Sweet Basil (*Ocimum basilicum*) Volatilome. 4th Flavors, Fragrances & Perception Symposium of Rutgers Center for Sensory Sciences and Innovation. New Brunswick, NJ. June 8, 2017.

Honig, J. A., J. Viaciunas, M. Muehlbauer, and T. J. Molnar. 2017. Combining field and lab data to reach new heights in the Rutgers hazelnut breeding program. *In* Proceedings of the 26th Rutgers Turfgrass Symposium. New Brunswick, NJ. January 13, 2017.

Pyne, R., **J. A. Honig**, J. Vaiciunas, S. A. Bonos, A. Wyenandt, and J. Simon. 2016. A First Genetic Map of Sweet Basil (*Ocimum basilicum*) Facilitated by Double Digestion Restriction Site Associated DNA Sequencing (ddRADseq). National Association of Plant Breeders (NAPB) National Meeting. Raleigh, NC. August 15-17, 2016.

Orton, T., P. Nitzsche, **J. A. Honig** and V. Donderalp. 2016. Genomics to detect and measure departures from autogamy in domesticated tomato. 4th International Conference on Plant Genomics. Brisbane, Australia. July 14-15, 2016.

Averello, V., C. Kubik, J. Vaiciunas, S. A. Bonos, W. A. Meyer and **J. A. Honig**. 2016. Classification of tall fescue (Festuca arundinacea Schreb.) cultivars and collections using chloroplast microsatellite (cpSSR) markers. p.45. *In* Proceedings of the 25th Rutgers Turfgrass Symposium. March 18, 2016.

Averello, V., C. Kubik, J. Vaiciunas, S. A. Bonos, W. A. Meyer and **J. A. Honig**. 2016. Classification of tall fescue (Festuca arundinacea Schreb.) cultivars and collections using nuclear microsatellite (nuSSR) markers. p.46. *In* Proceedings of the 25th Rutgers Turfgrass Symposium. March 18, 2016.

Bonos, S. A., E. Koch, J. Vaiciunas, **J. A. Honig**, W. A. Meyer, U. Zelzion and D. Battacharya. 2016. Differential gene expression of salt-stressed perennial ryegrass. p. 47. *In* Proceedings of the 25th Rutgers Turfgrass Symposium. March 18, 2016.

Molnar, T. J., **J. A. Honig**, and S. Melhenbacher. 2016. Securing and Expanding the U.S. Hazelnut Industry through Breeding for Resistance to Eastern Filbert Blight. *In* Proceedings of the 25th Rutgers Turfgrass Symposium. New Brunswick, NJ. March 18, 2016.

Averello, V., C. Kubik, J. Vaiciunas, W. A. Meyer, S. A. Bonos and **J. A. Honig**. 2016. Genetic Diversity of tall fescue (*Lolium arundinaceum* (Schreb.) Darbysh.) cultivars and collections using chloroplast microsatellite (cpSSR) markers. Plant and Animal Genome Conference XXIV. San Diego, CA. January 8-13, 2016.

Averello, V., C. Kubik, J. Vaiciunas, W. A. Meyer, S. A. Bonos and **J. A. Honig**. 2015. Genetic diversity of tall fescue (*Lolium arundinaceum* (Screb.) Darbysh.) cultivars using microsatellite (SSR) markers. American Society of Agronomy - Crop Science Society of America - Soil Science Society of America Annual Meetings. Minneapolis, MN. November 15-18, 2015.

Bonos, S. A., J. Vaiciunas, E. Zelzion, D. Bhattacharya, W. A. Meyer, E. Koch and **J. A. Honig**. 2015. Transcriptome analysis of salt-stressed perennial ryegrass. American Society of Agronomy - Crop Science Society of America - Soil Science Society of America Annual Meetings. Minneapolis, MN. November 15-18, 2015.

Jespersen, D., **J. A. Honig**, S. A. Bonos, W. A. Meyer and B. Huang. 2015. Quantitative trait loci associated with delayed heat-induced senescence in creeping bentgrass. American Society of Agronomy - Crop Science Society of America - Soil Science Society of America Annual Meetings. Minneapolis, MN. November 15-18, 2015.

Pyne, R., **J. A. Honig**, J. Vaiciunas, and J. Simon. 2015. Genetic relationships between basil (*Ocimum* spp.) germplasm provide insights for downy mildew resistance breeding. American Society for Horticultural Science Annual Conference. New Orleans, LA. August 4-7, 2015.

Kelly, M., W. A. Jackson, **J. A. Honig**, J. Vaiciunas, and J. Grabosky. 2015. Testing to establish the phylogenetic relationships among *Acer saccharum* and its close relatives. Rutgers Aresty Research Center 11th Annual Undergraduate Research Symposium. New Brunswick, NJ. April 24, 2015.

Jespersen, D., F. Belanger, **J. A. Honig**, W. A. Meyer, S. A. Bonos and B. Huang. 2015. Development and confirmation of candidate gene markers for selection of heat tolerance in creeping bentgrass. p. 19. *In* Proceedings of the 24th Rutgers Turfgrass Symposium. New Brunswick, NJ. January 16, 2015.

Koch, E.D., S. A. Bonos, **J. A. Honig**, and J. Vaiciunas. 2014. The effect of endophyte on salinity tolerance in perennial ryegrass. American Society of Agronomy - Crop Science Society of America - Soil Science Society of America Annual Meetings. Long Beach, CA. November 2-5, 2014.

Mann, C., V. Averello, J. Vaicunias, C. Kubik, L. Beirn, J. Crouch, **J. A. Honig** and S.A. Bonos. 2014. Identification of SSR markers to study genetic diversity of *Colletotrichum navitas,* the causal organism of switchgrass anthracnose. Northeast Woody/Warm Season Biomass Consortium Annual Meeting. Geneva, NY. July 28-30, 2014.

Mattera III, R., **J. A. Honig**, J. Vaiciunas, J. M. Capik, and T. J. Molnar. 2014. A Comparative Genetic Diversity Analysis of Big-bracted

Dogwoods. American Society for Horticultural Science Annual Conference. Orlando, FL. July 29, 2014.

Morey, K., M. Muehlbauer, **J. A. Honig**, J. M. Capik, and T. J. Molnar. 2014. Genetic Characterization of Eastern Filbert Blight-resistant Hazelnut Seedlings from Turkey, Latvia, and Lithuania. American Society for Horticultural Science Annual Conference. Orlando, FL. July 28, 2014.

Muehlbauer, M., T. J. Molnar, **J. A. Honig**, K. Morey, and N. Zhang. 2014. Genetic Diversity of *Anisogramma anomala* and Its Implications for Breeding Eastern Filbert Blight Resistant Hazelnuts. American Society for Horticultural Science Annual Conference. Orlando, FL. July 28, 2014.

Honig, J. A., V. Averello, C. Kubik, J. N. Vaiciunas, W. A. Meyer, and S. A. Bonos. 2014. Genetic Diversity of Bentgrass (*Agrostis*) Cultivars and Accessions Using Microsatellite (SSR) Markers. *In* Proceedings of the 23rd Annual Rutgers Turfgrass Symposium. New Brunswick, NJ. Jan 17, 2014.

Johnson-Cicalese, J., N. Vorsa, J. Polashock, and **J. A. Honig**. 2014. Heritability of Fruit Rot Resistance in American Cranberry. Annual Meeting of the Northeast Branch of the American Society for Horticultural Science. Philadelphia, PA. January 6-8, 2014.

Meyer, W. A., S. A. Bonos and **J. A. Honig**. 2013. Increasing the Diversity of Cool-Season Turfgrass Germplasm Resources to Meet the Challenges of Climate Change. American Society of Agronomy - Crop Science Society of America - Soil Science Society of America Annual Meetings. November 3-6, 2013.

Muehlbauer, M. F., **J. A. Honig**, J. Vaiciunas, J. Capik, and T. Molnar. 2013. Hazelnuts: A Promising Novel Biofuel Feedstock. Rutgers-NSF IGERT Project - Graduate Trainees Showcase and Stakeholders Summit. New Brunswick, NJ. August 26-28, 2013.

Muehlbauer, M. F., J. M. Capik, **J. A. Honig**, G. Cai, B. Hillman, and T. J. Molnar. 2013. Assessing genetic diversity of *Anisogramma anomala* isolates found throughout North America. 2013 American Phytopathological Society – Mycological Society of America Joint Meeting. August 10 – 14, 2013.

Morey, K. M., M. F. Muehlbauer, J. Capik, **J. A. Honig**, and T. J. Molnar. 2013. Genetic Diversity Study of New Jersey Isolates of *Anisogramma anomala.* Rutgers Aresty Research Center 9th Annual

Undergraduate Research Symposium. New Brunswick, NJ. April 19, 2013.

Molnar, T. J., J. M. Capik, M. F. Muehlbauer, and **J. A. Honig**. Molecular tools support the efficient utilization of new hazelnut germplasm in breeding. 2013. Annual Meeting of the Northeast Branch of the American Society for Horticultural Science. Rutgers University, New Brunswick, NJ. January 3-4, 2013.

Muehlbauer, M., **J. A. Honig**, J. Vaiciunas, and T. J. Molnar. 2012. Genetic Diversity and Cluster Analysis of Eastern Filbert Blight Resistant Hazelnut (*Corylus* spp.) Germplasm. American Society for Horticultural Science 2012 Annual Conference. Jul 30 – Aug 4, 2012.

Georgi, L., J. Johnson-Cicalese, **J. A. Honig**, S. P. Das, V. D. Rajah, D. Bhattacharya, N. Bassil, J. Rowland, J. Polashock, and N. Vorsa. The First Genetic Map of American Cranberry and Identification of Quantitative Trait Loci for Fruit Rot Resistance. American Society for Horticultural Science 2012 Annual Conference. Jul 30 – Aug 4, 2012.

Bonos, S.A., E.N. Weibel, T.J. Lawson, **J. A. Honig**, M. Majewski, E. Koch, M. Koch, and L. Cortese. 2012. Improvements in Breeding for Disease Resistance in Bentgrass using Classical and Molecular Approaches. p.19. *In* Proceedings of the 21st Annual Rutgers Turfgrass Symposium. New Brunswick, NJ. Jan 6, 2012.

Honig, J. A., S.A. Bonos, and W.A. Meyer. 2011. Molecular genetic characterization of Kentucky bluegrass (*Poa pratensis* L.) cultivars and accessions using microsatellite (SSR) markers. p.23. *In* Proceedings of the 20th Annual Rutgers Turfgrass Symposium. New Brunswick, NJ. Jan 13-14, 2011.

Honig, J. A., S.A. Bonos, and W.A. Meyer. 2010. Classification of Kentucky Bluegrass (*Poa pratensis* L.) Cultivars and Accessions Using SSR Markers. *In* Agronomy Abstacts.A.S.A.,Madison WI.

Novy, A. P. E. Smouse, J. M. Hartman, L. Struwe, **J. A. Honig**, C. Miller, M. Alvarez and S. Bonos. 2010. An evolutionary ecology approach to marsh restoration with *Spartina alterniflora*. Evolution (Society for the Study of Evolution), Portland, Oregon, June 27, 2010.

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Bonos, S. A., E. Weibel, **J. A. Honig,** C. Kubik and S. Warnke. 2008. The identification of SSR QTL markers for dollar spot resistance in creeping bentgrass. *In* Agronomy Abstacts. A.S.A., Madison WI.

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Bonos, S.A., C. Kubik, **J. A. Honig** and E. Weibel. 2006. The identification of quantitative trait loci for dollar spot resistance in creeping bentgrass. p. 24. *In* Proceedings of the 15th Annual Rutgers Turfgrass Symposium. Jan 12-13, 2006.

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Proceedings of the Twelfth Annual Rutgers Turfgrass Symposium. Jan 9-10, 2003.

Samaranayake, H., J.A. Murphy, T.J. Lawson, **J. A. Honig**, M. Sosa. 2002. Traffic effects on bentgrasses grown as putting green turf. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy. J.A., H. Samaranayake, **J. A. Honig**, T.J. Lawson, D. Giminez. 2002. Root mass relationships with physical properties of sand based root zones. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy, J.A., **J. A. Honig**, H. Samaranayake and T.J. Lawson. 2002. Root zone testing: Are new standards needed? *In* Proceedings of the Eleventh Annual Rutgers Turfgrass Symposium. Jan 10-11, 2002.

Honig, J. A. and J.A. Murphy. 2001. Comparison of methods to remove encapsulated air from laboratory sand root zone samples. *In* Agronomy Abstracts. ASA, Madison, Wi.

Honig, J. A., T.J. Lawson, H. Samaranayake, M. Sosa and J.A. Murphy. 2001. Changes in physical properties of sand root zones over time. *In* Agronomy Abstracts. ASA, Madison, Wi.

Honig, J. A., H. Samaranayake, M. Sosa, T.J. Lawson and J.A. Murphy. 2001. Temporal changes in soil physical properties of root zones mixtures varying in sand size distribution. *In* Proceedings of the Tenth Anniversary Rutgers Turfgrass Symposium. Jan 11-12, 2001.

Murphy. J.A., H. Samaranayake, **J. A. Honig**, and T.J. Lawson. 2001 Annual bluegrass invasion in bentgrasses under traffic. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy, J.A., **J. A. Honig,** H. Samaranayake, T.J. Lawson and M. Sosa. 2001. Creeping bentgrass response to root zone mixes in two different environments. *In* Proceedings of the Tenth Anniversary Rutgers Turfgrass Symposium. Jan 11-12, 2001.

Samaranayake, H., J.A. Murphy, **J. A. Honig**, T.J Lawson, M. Sosa, W.A. Meyer and B.B. Clarke. 2001. Cultivar and traffic effects on population dynamics of Agrostis spp. And Poa annua mixtures. *In* Proceedings of the Tenth Anniversary Rutgers Turfgrass Symposium. Jan 11-12, 2001.

Honig, J. A., T.J. Lawson and J.A. Murphy. 2000. Physical properties of root zone mixes varying in sand size distribution. *In* Agronomy Abstracts. ASA, Madison, Wi.

Honig, J. A., T.J. Lawson and J.A. Murphy. 2000. Physical properties of root zone mixes varying in amendment source. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy. J.A., **J. A. Honig**, H. Samaranayake and T.J. Lawson. 2000. Traffic tolerance of bentgrasses grown on soil and sand root zones. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy. J.A., **J. A. Honig**, H. Samaranayake and T.J. Lawson. 2000. Bentgrass performance on sand root root zones in two microenvironments. *In* Agronomy Abstracts. ASA, Madison, Wi.

Honig, J. A. and J.A. Murphy. 1999. Water temperature effect on USGA saturated hydraulic conductivity. *In* Agronomy Abstracts. ASA, Madison, Wi.

Honig, J. A. and J.A. Murphy. 1999. Antecedent water content and saturation method affect saturated hydraulic conductivity. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy. J.A., **J. A. Honig**, T.J. Lawson and S.L. Murphy. 1999. Performance of creeping bentgrass as affected by root zone mixtures. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy. J.A., **J. A. Honig** and T.J. Lawson. 1999. Seeding date and bentgrass cultivar effects on annual bluegrass invasion. *In* Agronomy Abstracts. ASA, Madison, Wi.

Murphy, J.A., S.L. Murphy, **J. A. Honig**, H. Motto, B.B. Clarke, R. Tate, and E. Gaulin. 1998. Assessing root zone mixes for putting greens over time under two environmental conditions. *In* Proceedings of the Seventh Annual Rutgers Turfgrass Symposium. Jan 15-16, 1998.

TECHNICAL REPORTS:

Honig, J. A., D.A. Smith, S.A. Bonos, W.A. Meyer, J.A. Murphy, B.B. Clarke, W.K. Dickson, T. J. Lawson and J.B. Clark. 2004. Performance of bentgrass cultivars and selections in New Jersey turf trials. 2003 Rutgers Turfgrass Proceedings. Vol. 35.

Bonos, S.A., J.A. Murphy, W.A. Meyer, B.B. Clarke, K.A. Plumley, W.K. Dickson, J.B. Clark**, J. A. Honig** and D.A. Smith. 1999. Performance of bentgrass cultivars and selections in New Jersey turf trials. 1998 Rutgers Turfgrass Proceedings. 30: 33-48.

J.A. Murphy, W.A. Meyer, W.K. Dickson, J.B. Clark**,** S.A. Bonos, D.A. Smith, **J. A. Honig**, M.E. Secks and B.B. Clarke. 1998. Performance of bentgrass cultivars and selections in New Jersey turf trials. 1997 Rutgers Turfgrass Proceedings. 29: R1-R13.

Bonos, S.A., J.A. Murphy, W.A. Meyer, W.K. Dickson, M.E. Secks, J.B. Clark**,** D. Smith, **J. A. Honig** and B.B. Clarke. 1997. Performance of bentgrass cultivars and selections in New Jersey turf trials. 1996 Rutgers Turfgrass Proceedings. 28: 21-34.

Honig, J. A., J.A. Murphy, W.K. Dickson, M.E. Secks and J.B. Clark. 1996. Performance of bentgrass cultivars and selections in New Jersey turf trials. 1995 Rutgers Turfgrass Proceedings. 27: 39-48.

Invited Presentations

Honig, J. A., and T. J. Molnar. 2017. Combining field and lab data to reach new heights in the Rutgers hazelnut breeding program. Rutgers Center for Turfgrass Science Research Symposium. January 13, 2017. New Brunswick, NJ.

Honig, J. A. 2014. Genetic Diversity of Bentgrass (*Agrostis*) Cultivars and Accessions Using Microsatellite (SSR) Markers. Rutgers Center for Turfgrass Science Research Symposium 2014. January 17, 2014. New Brunswick, NJ.

Honig, J. A. 2013. Overview of the Rutgers University/NJAES DNA Genotyping Laboratory. NJAES Board of Managers Meeting. February 28, 2013. New Brunswick, NJ.

Honig, J. A. 2011. Molecular genetic characterization of Kentucky bluegrass (*Poa pratensis* L.) cultivars and accessions using microsatellite (SSR) markers. Rutgers Center for Turfgrass Science Research Symposium 2011. January 14, 2011. New Brunswick, NJ.

Honig, J. A. 2007. Myths and misunderstandings about USGA versus California putting greens. New Jersey Turfgrass and Landscape Expo 2007. December 5, 2007. Atlantic City, NJ.

Honig, J. A. 2001. Rutgers sand based root zone research. National Sports Turf Managers Association Conference 2001. January 20, 2001. Tampa, Florida.

Honig, J. A. 2000. The Bentgrasses: Past and Present. New Jersey Turfgrass and Landscape Expo 2000. December 11, 2000. Atlantic City, NJ.

Honig, J. A. 1999. Sand based Root Zone Research at Rutgers University. US Silica Sand Co. Annual Meetings. June, 1999. Port Elizabeth, NJ.

Teaching

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2017: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 9 students (6 registered undergraduates; 3 graduate students registered as Special Problems course). Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – 3 lectures on 'Turfgrass Regional Concerns'. Spring 2017. 10 week program. 90 minute lecture. 1x per week. 39 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – 2 lectures on 'Sand Based Putting Green Construction'. Spring 2017. 10 week program. 90 minute lecture. 1x per week. 39 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – 2 lectures on 'Chemical/Pesticide Calibration and Safety'. Fall 2016. 10 week program. 90 minute lecture. 1x per week. 41 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Advanced Technologies in Biosciences – 11:126:444 – 3 credits. Spring 2016: 3 lectures on 'DNA Genotyping and Genotyping by Sequencing'. 80 minute period 2x per week. 16 students. Rutgers University, School of Environmental and Biological Sciences.

Rutgers Professional Golf Turf Management School – 2 lectures on 'Chemical/Pesticide Calibration and Safety'. Fall 2015. 10 week program. 90 minute lecture. 1x per week. 33 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – 3 lectures on 'Turfgrass Regional Concerns'. Fall 2015. 10 week program. 90 minute lecture. 1x per week. 39 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Advanced Technologies in Biosciences – 11:126:444 – 3 credits. Spring 2015: 3 lectures on 'DNA Genotyping and Genotyping by Sequencing'. 80 minute period 2x per week. 21 students (18 registered; 3 auditing). Rutgers University, School of Environmental and Biological Sciences.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2014: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 10 students (7 registered; 3 auditing). Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2013. 10 week program. 80 minute lecture. 1x per week. 48 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Spring 2013. 3 Lectures. 80 minutes per lecture. 48 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2012: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 9 students. Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2012. 10 week program. 80 minute lecture. 1x per week. 29 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Fall 2012. 3 Lectures. 80 minutes per lecture. 29 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2012. 10 week program. 80 minute lecture. 1x per week. 46 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Spring 2012. 3 Lectures. 80 minutes per lecture. 46 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2011: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 10 students. Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2011. 10 week program. 80 minute lecture. 1x per week. 42 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Fall 2011. 3 Lectures. 80 minutes per lecture. 42 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2011. 10 week program. 80 minute lecture. 1x per week. 41 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Spring 2011. 3 Lectures. 80 minutes per lecture. 41 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2010: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 8 students. Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2010. 10 week program. 80 minute lecture. 1x per week. 34 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Putting Green Construction. Fall 2010. 3 Lectures. 80 minutes per lecture. 34 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2010. 10 week program. 80 minute lecture. 1x per week. 40 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2009: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 10 students. Rutgers University, School of Environmental and Biological Sciences, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2009. 10 week program. 80 minute lecture. 1x per week. 37 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2009. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, School of Environmental and Biological Sciences, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2008: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 14 students. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2008. 10 week program. 80 minute lecture. 1x per week. 35 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2008. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2007: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 13 students.

Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2007. 10 week program. 80 minute lecture. 1x per week. 40 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2007. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2006: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 11 students. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2006. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2006. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2005: 2/3 of class lectures for the semester - 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 8 students. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2005. 10 week program. 80 minute lecture. 1x per week. 28 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2005. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2004: 1/3 of class lectures for the semester. 80 minute period 2x per week, and Full semester 160 minute laboratory -1x per week. 9 students. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2004. 10 week program. 80 minute lecture. 1x per week. 45 students each semester. Rutgers University, Cook College, Office of Continuing Professional Education.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Spring 2004. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Undergraduate Course – Turfgrass Management – 11:776:304 – 4 credits. Fall 2003. 160 minute laboratory. 1x per week. 17 students. Additional 3 guest lectures for lecture section of class: Introduction to soils, soil physical properties, soil chemical properties and fertility. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Rutgers Professional Golf Turf Management School – Soils II: Soil chemistry and fertility. Fall 2003. 10 week program. 80 minute lecture. 1x per week. 45 students. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Understanding sand based root zone putting green construction. 80 minute lecture. 45 students. March 5, 2002. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Structure of clays. 80 minute lecture. 45 students. January 17, 2002. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Soil texture and physical properties. 80 minute lecture. 45 students. January 10, 2002. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Introduction to Soils and Soil Classification. 80 minute lecture. 45 students. January 4, 2002. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Sand based root zone construction. 80 minute lecture. 45 students. March 2, 2001. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. USGA soil physical property testing. 160 minute laboratory. 45 students. February 22, 2001. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Sand based root zone construction. 80 minute lecture. 45 students. November 6, 2000. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. USGA soil physical property testing. 160 minute laboratory. 45 students. October 11, 2000. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Fine and Sports Turf – Undergraduate class. Understanding sand based root zone construction for putting greens and sports fields. 80 minute lecture. 10 students. April 10, 2000. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Sand based root zone construction. 80 minute lecture. 45 students. February 24, 2000. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Soils I, Rutgers Professional Golf Turf Management School. Sand based root zone construction. 80 minute lecture. 45 students. December 3, 1999. Rutgers University, Cook College, Office of Continuing Professional Education.

Guest Lecture: *In* Turfgrass Management – Undergraduate Class. Turfgrass Soil Physical Properties. 13 students. October 28, 1999. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Guest Lecture: *In* Turfgrass Management – Undergraduate Class. Annual Bluegrass/Creeping Bentgrass competition. 15 students. October 14, 1998. Rutgers University, Cook College, Department of Plant Biology and Pathology.

Competitive External Grants

E. Watkins, S. A. Bonos, N. Anderson, S. Bauer, B. S. Bushman, B. Clarke, A. Hegeman, **J. A. Honig**, B. Horgan, B. Huang, P. Koch, A. Kowalewski, W. A. Meyer, J. A. Murphy, K. Nelson, A. Patton, S. Shekhar, C. Yue, and N. Zhang. National Institute of Food and Agriculture (USDA-NIFA), Specialty Crops Research Initiative, Grant Number 2017-03196. Increasing low-input turfgrass adoption through breeding, innovation, and public education.

Duration: 09/11/2017 – 08/31/2021
Commitment: $5.4 million

S. A. Mehlenbacher (PI), N. Wiman (CO-PI), T. J. Molnar (CO-PI), **J. A. Honig (CO-PI)**, B. Hillman (CO-PI), S. Josiah (CO-PI), D. Farar (CO-PI). National Institute of Food and Agriculture (USDA-NIFA), Specialty Crops Research Initiative, Grant Number 2016-51181-25412. Genomic tools, genetic resources, and outreach to expand commercial U.S. hazelnut production.

Duration: 09/16/2016 – 08/31/2021
Commitment: $3.1 million (Rutgers portion: $1,081,365)

T. J. Molnar (PI), **J. A. Honig (CO-PI)**, and S. A. Mehlenbacher (CO-PI). National Institute of Food and Agriculture (USDA-NIFA). Securing and Expanding the U.S. Hazelnut Industry through Breeding for Resistance to Eastern Filbert Blight.

Duration: 09/15/2014 – 09/14/2016
Commitment: $500,000

National Turfgrass Evaluation Program. Simple Sequence Repeat (SSR) Genotyping of 2011 National Turfgrass Evaluation Program Kentucky bluegrass test. **J. A. Honig (PI)**, S. A. Bonos (CO-PI), and W. A. Meyer (CO-PI).

Duration: 2013-2014
Commitment: $32,000

United States Golf Association. *Confirmation of QTL markers for dollar spot resistance in creeping bentgrass.* S. A. Bonos, **J. A. Honig,** and C. Kubik

Duration: 2007-2009
Commitment: $50,000

United States Golf Association. *Evaluation of perennial ryegrass, creeping bentgrass and Kentucky bluegrass for salt tolerance.* S. A. Bonos, **J. A. Honig,** T. Gianfagna, B. Huang and W. A. Meyer

Duration: 2007-2010
Commitment: $75,000

OJ Noer Research Foundation. *Evaluation and selection of salt tolerant cool-season turfgrasses.* S. A. Bonos, **J. A. Honig,** T. Gianfagna, B. Huang and W. A. Meyer

Duration: 2006-2009
Commitment: $45,000

United States Golf Association and Golf Course Superintendents Association of America. *Longer Term Assessment of Putting Green Root Zone Mixes Under Two Microenvironments*. J. A. Murphy, **J. A. Honig**, S. L. Murphy, D. Giminez and B. B. Clarke

Duration: 2001-2004
Commitment: $90,000

United States Golf Association. *Cultivar and Traffic Effects on Population Dynamics of Agrostis spp. and Poa annua Mixtures*. J. A. Murphy, **J. A. Honig**, W. A. Meyer and B. B. Clarke

Duration: 1998-2000
Commitment: $74,820

State Extension Presentations

2010 Rutgers/NJTA Research Field Days. Characterization of Kentucky Bluegrass cultivars and accessions using DNA markers. 200 participants over 2 days.

2001 Rutgers/NJTA Research Field Day. Sand-based root zone research update. 200 participants.

2000 Rutgers/NJTA Research Field Day. Sand-based root zone research update. 150 participants.

2000 Rutgers/NJTA Research Field Day. Creeping bentgrass/annual bluegrass competition studies. 150 participants.

1999 Rutgers/NJTA Research Field Day. Sand-based root zone research update: Amendments used in golf putting green root zone construction. 175 participants.

1999 Rutgers/NJTA Research Field Day. Sand-based root zone research update: Sand-size distributions used in golf putting green root zone construction. 175 participants.

1999 Rutgers/NJTA Research Field Day. Creeping bentgrass/annual bluegrass competition studies. 175 participants.

1998 Rutgers/NJTA Research Field Day. Sand-based root zone research update: Amendments used in golf putting green root zone construction. 150 participants.

1998 Rutgers/NJTA Research Field Day. Sand-based root zone research update: Sand-size distributions used in golf putting green root zone construction. 150 participants.

1998 Rutgers/NJTA Research Field Day. Creeping bentgrass/annual bluegrass competition studies. 150 participants.

1997 Rutgers/NJTA Research Field Day. Sand-based root zone construction in two microenvironments. 175 participants.

1997 Rutgers/NJTA Research Field Day. Creeping bentgrass/annual bluegrass competition studies. 175 participants.

1996 Rutgers/NJTA Research Field Day. Control of annual bluegrass in creeping bentgrass cultivars using Ethofumesate (Prograss). 175 participants.

Service

Audio and Visual Committee Chair: 13th International Turfgrass Research Conference. Hosted by Rutgers University, Center for Turfgrass Science. New Brunswick, NJ. July 16-21, 2017.

Technical Tour Committee Member: 13th International Turfgrass Research Conference. Hosted by Rutgers University, Center for Turfgrass Science. New Brunswick, NJ. July 16-21, 2017.

Chair, Symposium Organizing Committee: 26th Annual Rutgers Turfgrass Symposium. New Brunswick, NJ. October 2016 – January 2017.

Manuscript review: Utilization of Genomic Simple Sequence Repeat Markers to Study Diversity and reproductive biology of *Danthonia spicata.* Crop Science. Nov. 2016.

Editor: Proceedings of the 25th Rutgers Turfgrass Symposium. New Brunswick, NJ. March 18, 2016.

Manuscript review: Genome Sequencing and High-Density Genetic Map for European Hazelnut (*Corylus avellana* L.). Tree Genetics and Genomes. Nov. 2015.

Undergraduate Recruiting Coordinator for the Rutgers Center for Turfgrass Science (recruitment of students for the Plant Biology Undergraduate Program, with specific interest in the Horticulture and Turf Industry Option) – 02/01/14 – *present*

Curriculum/Academic Advisor to the Rutgers Professional Golf Turf Management Program, SEBS Office of Continuing Professional Education – 10/1/13 – *present*

Lead Scientist, Rutgers DNA Genotyping Laboratory (Core Facility - serving all of Rutgers School of Environmental and Biological Sciences) – 2011 – *present*

Student Mentoring

GRADUATE STUDENTS:

Justin Lombardoni – Ph. D. Graduate Committee member – 2017– *present*
Research project(s): hazelnut breeding and genetics; hazelnut genetic diversity using Genotyping by Sequencing (GBS)

Lauren Poster – 2017– *present*
Research project(s): Blueberry genetic diversity using SSR markers

Phillip Vines – Ph. D. Graduate Committee member – 2016 – *present*
Research project(s): Genotyping By Sequencing (GBS) for Perennial Ryegrass genetic linkage mapping

Megan Muehlbauer – Ph. D. Graduate Committee member – 2012 – *present*
Research project(s): Hazelnut genetic diversity; *Anisograma anomola* genetic diversity

Robert Pyne – 2014 – *present*
Research project(s): Basil genetic diversity; Genotyping By Sequencing (GBS) for Basil genetic linkage mapping

Vincenzo Averello – M.S. Graduate Committee member – 2013 – *present*
Research project(s): Tall Fescue genetic diversity

Stephanie Fong – 2014 – *present*
Research project(s): Cranberry genetic linkage mapping

April Jackson – 2014 – *present*
Research project(s): Maple population genetics

Melodie Vives (visiting M.S. Graduate student) – 2014 – 2015
Research project(s): Dogwood genetic diversity; Fine Fescue genetic diversity

Robert Mattera – M.S. Graduate Committee member – 2013 – 2015
Research project(s): Dogwood genetic diversity

Ari Novy – 2011 – 2012
Research projects(s): *Microstegium* genetic diversity/population genetics

UNDERGRADUATE STUDENTS:

Janine Tobia – 2016 – *present*
Research project(s): Genetic diversity of Hazelnut germplasm

Julianne Davis – 2014 – 2015
Research project(s): qRT-PCR test development for detection of Hazelnut pathogens

Megan Kelly – 2014 – 2015
Research project(s): Maple genetic diversity

Kaitlin Morie – 2014
Research projects(s): Hazelnut genetic diversity

Vincenzo Averello – 2011 – 2012

Research project(s): Kentucky bluegrass genetic diversity