

Biographical Sketch

JOSH A. HONIG

Dept of Plant Biology and Pathology
School of Environmental and Biological Sciences (formerly Cook College)
Rutgers University, The State University of New Jersey
59 Dudley Rd. Foran Hall, New Brunswick, NJ 08901
Phone: 848-932-6281; Fax: 732-932-9441
e-mail: honig@sebs.rutgers.edu

EARNED DEGREES

Ph.D. Rutgers University, Plant Biology. 2011
M.S. Rutgers University, Plant Biology. 2000
B.S. Rutgers University, Plant Science 1995

EMPLOYMENT HISTORY

2015-present Assistant Professor - Director, Rutgers DNA Genotyping Laboratory, Rutgers University, School of Environmental and Biological Sciences, Dept of Plant Biology and Pathology

2011-2015 Faculty Research Associate – Director, Rutgers DNA Genotyping Laboratory, Rutgers University, School of Environmental and Biological Sciences, Dept of Plant Biology and Pathology

2002-2004 Laboratory Research Technician, Rutgers University, School of Environmental and Biological Sciences, Dept of Plant Biology and Pathology

2001- 2002 Assistant Superintendent – Echo Lake Golf Club, Westfield, NJ

TEACHING EXPERIENCE

Turfgrass Management- 11:776:304. Undergraduate Course. – (66.6%) Every Fall semester.
Turfgrass Soil Fertility. Rutgers Office of Continuing Professional Education. Rutgers Professional Golf Turf Management School Certificate Program–Every Fall and Every Winter.
Golf Course Putting Green Construction. Rutgers Office of Continuing Professional Education. Rutgers Professional Golf Turf Management School Certificate Program–Every Fall and Every Winter.

PROFESSIONAL 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

EXTERNAL GRANTS/CONTRACTS RECEIVED:

PI or Co-PI on 10 grants and contracts for \$9,491,822.00 in external funding.

1. **J. A. Honig**, S. A. Bonos, and W. A. Meyer. 2018-2020. Simple Sequence Repeat (SSR) Genotyping and Next Generation Sequencing GBS (ddRAD-Seq) of 2017 National Turfgrass Evaluation Program Kentucky bluegrass test. \$35,600.00. National Turfgrass Evaluation Program.
2. E. Watkins, S. A. Bonos, N. Anderson, S. Bauer, B. S. Bushman, B. Clarke, A. Hegman, **J. A. Honig**, B. Horgan, B. Huang, P. Koch, A. Kowaleski, W. A. Meyer, J. A. Murphy, K. Nelson, A. Patton, S. Shekhar, C. Yue, and N. Zhang. 2017-2021. Increasing low-input turfgrass adoption through breeding, innovation, and public education. \$5,488,602.00. USDA-NIFA – SCRI competitive grant (2017-03196).
3. S. A. Mehlenbacher, N. Wiman, T. J. Molnar, **J. A. Honig**, B. Hillman, S. Josiah, D. Farar. 2016-2021. Genomic tools, genetic resources, and outreach to expand commercial U.S. hazelnut production. \$3,100,000.00. USDA-NIFA, SCRI competitive grant (2016-51181-25412).
4. T. J. Molnar, S. A. Melhenbacher, and **J. A. Honig**. 2014-2015. Securing and expanding the U.S. hazelnut industry through breeding for resistance to eastern filbert blight. \$500,000. USDA-NIFA – AFRI competitive grant.
5. **J. A. Honig**, S. A. Bonos, and W. A. Meyer. 2012-2014. Simple Sequence Repeat (SSR) Genotyping of 2011 National Turfgrass Evaluation Program Kentucky bluegrass test. \$32,800. National Turfgrass Evaluation Program.
6. S.A. Bonos, **J.A. Honig**, and C. Kubik. 2007-2008. Confirmation of QTL markers for dollar spot resistance in creeping bentgrass. \$50,000. United States Golf Association.
7. S.A. Bonos, **J.A. Honig**, T. Gianfagna, B. Huang and W.A. Meyer. 2007-2009. Evaluation of perennial ryegrass, creeping bentgrass and Kentucky bluegrass for salt tolerance. \$75,000. United States Golf Association.
8. S.A. Bonos, **J.A. Honig**, T. Gianfagna, B. Huang and W.A. Meyer. 2006-2008. Evaluation and selection of salt tolerant cool-season turfgrasses. \$45,000. OJ Noer Research Foundation.
9. J.A. Murphy, **J.A. Honig**, S.L. Murphy, D. Giminez and B.B. Clarke. 2001-2004. Longer Term Assessment of Putting Green Root Zone Mixes Under Two Microenvironments. \$90,000. United States Golf Association and Golf Course Superintendents Association of America.
10. J.A. Murphy, **J.A. Honig**, W.A. Meyer and B.B. Clarke. 1998-2000. Cultivar and Traffic Effects on Population Dynamics of *Agrostis* spp. and *Poa annua* Mixtures. \$74,820. United States Golf Association.

SELECTED PUBLICATIONS (refereed journals)

Research publications:

Jackson, W., **J. A. Honig**, P. Smouse, and J. Grabosky. 2020. Genetic Provenance Structure Within the Hard Maple Species Complex. *Accepted to Canadian Journal of Forest Research*, March 11, 2021.

Bonos, S.A., E.N. Weibel, **J.A. Honig**, J. A. Murphy, L.H. Chappell and W.A. Meyer. 2020. Divot recovery of cool-season turfgrass species and mixtures in low maintenance fairways. *Accepted to International Turfgrass Society Research Journal*, September 1, 2020

Honig, J. A., M. F. Muehlbauer, J. M. Capik, C. Kubik, J. N. Vaiciunas, S. A. Mehlenbacher, and T. J. Molnar. 2019. Identification and mapping of eastern filbert blight resistance quantitative trait loci in European hazelnut using double digestion restriction site associated DNA sequencing. *Journal of the American Society for Horticultural Science*. 144:295-304. <https://doi.org/10.21273/JASHS04694-19>

Muehlbauer, M. F., J. Tobia, **J. A. Honig**, N. Zhang, B. I. Hillman, K. Morey-Gold, and T. J. Molnar. 2019. Population differentiation within *Anisogramma anomala* in North America. *Phytopathology*. 109:1074-1082. <https://doi.org/10.1094/PHYTO-06-18-0209-R>

Chu, P. G. M. Wilson, T. P. Michael, J. Vaiciunas, **J. A. Honig**, and E. Lam. 2018. Sequence-guided approach to genotyping plant clones and species using polymorphic NB-ARC-related genes. *Plant Molecular Biology*. 98:219–231. <https://doi.org/10.1007/s11103-018-0774-1>
(*Awarded Journal Cover Photo*)

Honig, J. A., V. Averello, C. Kubik, J. Vaiciunas, B. Shaun Bushman, S. A. Bonos and W. A. Meyer. 2018. An update on the classification of Kentucky bluegrass (*Poa pratensis* L.) cultivars and accessions based on microsatellite markers. *Crop Science*. 58:1776-1787. doi:10.2135/cropsci2017.11.0689

Pyne, R., **J. A. Honig**, J. Vaiciunas, C. A. Wyenandt, and J. Simon. 2018. Population structure and genetic diversity among *Ocimum* spp. germplasm. *BMC Plant Biology*. 18:69. <https://doi.org/10.1186/s12870-018-1284-7>

Pyne, R. M., **J. A. Honig**, J. Vaiciunas, A. Koroch, C. A. Wyenandt, S. A. Bonos, J. E. Simon. 2017. 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). *PLoS ONE* 12(9):e0184319. <https://doi.org/10.1371/journal.pone.0184319>

Honig, J. A., E. Zelzion, N. E. Wagner, C. Kubik, V. Averello, J. Vaiciunas, D. Bhattacharya, S. A. Bonos, and W. A. Meyer. 2017. Microsatellite (SSR) identification in perennial ryegrass (*Lolium perenne* L.) using next generation sequencing. *Crop Science*. 57(Suppl1):S-331-S-340. doi:10.2135/cropsci2016.07.0608

Koch, E. D., **J. A. Honig**, J. Vaiciunas, and S. A. Bonos. 2017. Endophyte effect on salinity tolerance in perennial ryegrass. *International Turfgrass Society Research Journal*. 13:1–7 (2017). doi: 10.2134/itsrj2016.05.0444.

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. 2016. Classification of bentgrass (*Agrostis*) cultivars and accessions based on microsatellite (SSR) markers. *Genetic Resources and Crop Evolution*. 63:1139–1160. doi:10.1007/s10722-015-0307-6