

Qi Mu, Ph.D.

Assistant Professor

Molecular Plant Breeding and Genomics, Department of Plant and Soil Sciences

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E-Mail: qimu@udel.edu | Phone: 614.813.3182ORCID : <https://orcid.org/0000-0001-9093-9123>**Education**

Iowa State University, Ames, IA, USA	Plant Breeding	Ph.D., 2021
The Ohio State University, Wooster, OH, USA	Horticulture and Crop Science	M.S., 2015
China Agricultural University, Beijing, China	Horticultural Science	B.S., 2012

Research and Professional Experience

2023-current	Assistant Professor, Molecular Plant Breeding and Genomics, University of Delaware
2021-2023	Postdoc Research Associate, Iowa State University
2016-2021	Graduate Research Assistant, Iowa State University
2015-2016	Lab Technician I Iowa State University
2013-2015	Graduate Research Associate, The Ohio State University
2010-2012	Undergrad Research Assistant, China Agricultural University

Peer-reviewed Journal Publications[Google Scholar Citations](#) = 631, *H-Index* = 7, *i10-Index* = 7

1. Mu Q, Guo T, Li X, Yu J. 2022. Phenotypic plasticity in plant height shaped by interaction between genetic loci and diurnal temperature range. **New Phytologist**. Feb; **233(4):1768-79**. *Impact Factor: 10.32*
2. Guo T, Mu Q, Wang J, Vanous A, Onogi A, Iwata H, Li X, Yu J, 2020. Dynamic effects of interacting genes underlying rice flowering time plasticity and global adaptation. **Genome Research**. **30(5)**, pp.673-683. *Impact Factor: 9.043*
3. Char SN, Wei J, Mu Q, Li X, Zhang ZJ, Yu J, Yang B, 2020. An *Agrobacterium* - delivered CRISPR/Cas9 system for targeted mutagenesis in sorghum. **Plant Biotechnology Journal**. **18(2)**, pp.319-321. *Impact Factor: 13.26*
4. Wu Y, Guo T, Mu Q, Wang J, Li Xin, Wu Y, Tian B, Wang ML, Bai G, Perumal R, Trick HN, Bean SR, Dweikat IM, Tuinstra MR, Morris G, Tesso TT, Yu J, Li X, 2019. Allelochemicals targeted to balance competing selections in African agroecosystems. **Nature Plants**, **5(12)**, pp.1229-1236. *Impact Factor: 15.79*
5. Li Xin, Guo T, Mu Q, Li X and Yu J, 2018. Genomic and environmental determinants and their interplay underlying phenotypic plasticity. **Proceedings of the National Academy of Sciences**, **115(26)**, pp.6679-6684. *Impact Factor: 12.78*
6. Mu Q, Huang Z, Chakrabarti M, Illa-Berenguer E, Liu X, Wang Y, Ramos A, van der Knaap E. 2017. Fruit weight is controlled by *Cell Size Regulator* encoding a novel protein that is expressed in maturing tomato fruits. **PLOS Genetics**, **13(8):e1006930**. *Impact Factor: 6.02*
7. Van der Knaap E, Chakrabarti M, Chu YH, Clevenger JP, Illa-Berenguer E, Huang Z, Keyhaninejad N, Mu Q, Sun L, Wang Y, Wu S. 2014. What lies beyond the eye: the molecular mechanisms regulating tomato fruit weight and shape. **Frontiers in Plant Science**, **5**, p.227. *Impact Factor: 6.627*

Grants

PI, Plant and Soil Science Hatch Research Capacity Grant (funded, \$50,000)	2023 - 2025
<i>“Developing a population, genomic resources, and phenomics tools for genetic dissection of early vigor in maize”</i>	
PI, Iowa State University Postdoctoral Seed Grant Award (funded, \$2,500)	2022
<i>“Genomic Selection of Complex Traits in Peanuts: A Pilot Study”</i>	

Synergistic Activities**Teaching Activities**

Guest lecturer, AGRON 520 Plant Breeding Method, ISU	Spring 2021
Workshop lecturer, 2020 ASA-CSSA-SSSA International Annual Meeting	Nov 2020
Guest lecturer, AGRON 523 Molecular Plant Breeding, ISU	Spring 2020
Teaching Assistant, AGRON 183 Basic Skills for Agronomists, ISU	Fall 2019

Services

Judge, CSSA C01 Crop Breeding and Genetics division student poster competition, ASA-CSSA-SSSA International Annual Meeting	2022
Mentor, National Association of Plant Breeders Diversity Travel Award Awardee	2020
Senator, Department of Agronomy, Graduate and Professional Student Senate, ISU	2018 - 2019
Co-Chair, 2019 R.F. Baker Plant Breeding Symposium, ISU	2018 - 2019
President, Plant Breeding Graduate Student Organization, ISU	2018 - 2019
Search Committee, Program Coordinator I, Department of Agronomy, ISU	2018
Speaker Committee, 2018 R.F. Baker Plant Breeding Symposium, ISU	2017 - 2018

Honors and Awards

Research Excellence Award, Iowa State University	2021
1 st place, CSSA Society-Wide Student Competition, ASA-CSSA-SSSA International Annual Meeting	2020
Crop Science Graduate Student Scholarship (\$2,000), Crop Science Society of America (CSSA)	2020
Gerald O. Mott Meritorious Graduate Student Award in Crop Science, CSSA	2020
Poster Award (2 nd Place), CSSA C7 Genomics, Molecular Genetics and Biotechnology, Plant and Animal Genome (PAG) XXVIII Conference	2020
Poster Award (1 st Place), 7th annual R. F. Baker Plant Breeding Symposium, Iowa State University	2020
Francis and Beatriz (Castro) Mar Graduate Scholarship (\$1,500), Iowa State University	2020
Brown Graduate Fellowship (\$10,000), Iowa State University	2018 - 2019
Best Oral Presentation Award, 6 th ISU Graduate and Professional Student Research Conference,	2019
Monsanto Travel Award (\$1,500), Iowa State University	2019
C. R. Weber Award for Excellence in Plant Breeding (\$500), Iowa State University	2018
Poster Award (3 rd Place), Predictive Plant Phenomics Symposium, Iowa State University	2018
Peter J. Loesch Jr. Memorial Fund Travel Award (\$800), Iowa State University	2017

Professional Affiliations

Crop Science Society of America (CSSA)
National Association of Plant Breeders (NAPB)
American Association for the Advancement of Science (AAAS)
Gamma Sigma Delta Agriculture Honor Society