

# Ronnie Dewberry

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 1655 Lake Drive  
Haslett, MI 48840

## About me

Plant Breeding PhD student at Michigan State University. Excellent academic history, reliable interpersonal skills, and eclectic experiences from botany, horticulture, and plant pathology laboratories. Currently seeking a research lab that studies plant biochemistry or molecular biology and is using novel strategies to breed for nutritional & recreational traits in plants.

## Education

2021 BS in Horticulture  
College of Agricultural and Life Sciences  
University of Wisconsin-Madison

2017 AA in Liberal Arts  
Bard College, Annandale-on-Hudson, NY

## Manuscripts Published or in Progress

Hayes, M. M., **Dewberry, R. J.**, Babujee, L., Moritz, R., & Allen, C. (2022). Validating methods to eradicate plant-pathogenic *Ralstonia* strains reveals that growth in planta increases bacterial stress tolerance. *Microbiology Spectrum*. <https://doi.org/10.1128/spectrum.02270-22>

**Dewberry, RJ**, AN Truchon, JL Prom, JM Jacobs, and C. Allen. 202x. Development and validation of a highly sensitive protocol to detect *Ralstonia solanacearum* in latently infected geranium tissue. In preparation.

**Dewberry, RJ\***, P Sharma\*, JL Prom, NA Kinscherf, TM Lowe-Power, R Mazloom, M Arif, M Stulberg, LS Heath, K Eversole, GA Beattie, BA Vinatzer\*, and C Allen\* 202x. Cool virulence in *Ralstonia solanacearum* is quantitative and widely distributed, suggesting revision of the race 3 biovar 2 Select Agent definition. In preparation

\*Denotes equal contributions

## Awards and Honors

Dean's List-2018, 2019, 2020, 2021  
University of Wisconsin-Madison

Gavin & Mary Weis Research Scholarship, - 2020  
University of Wisconsin-Madison

## Research Poster Presentations at Conferences

Int'l Alliance for Phytobiomes 2022, Denver, CO

UW-Madison Dep't of Bacteriology 36<sup>th</sup> Kenneth B. Raper Symposium, Madison WI

APS Plant Health 2022, Pittsburgh PA

## Research Experience

**Research Intern**, University of Wisconsin-Madison, May 2021-August 2023

Advisor: Dr. Caitilyn Allen

Performed several biological and diagnostic assays to characterize disease of regulated *Ralstonia solanacearum* bacterial strains on potato. Also served as lab manager with duties including maintaining financial accounts and equipment, supervising undergraduate researchers and technicians, and ensuring biosafety and federal compliancy.

**Research Assistant**, University of Wisconsin-Madison, Sept. 2020-May 2021.

Advisor: Dr. Edgar Spalding

Performed high throughput PCR reactions on Arabidopsis seedlings containing genetic knockouts related to LAZY, a family of genes that play a role in gravitropism. Also assisted with agrobacterium transformation on seedlings using the floral dipping method.

**Research Assistant**, University of Wisconsin-Madison, Sept. 2019-May 2021.

Advisor: Dr. Amaya Atucha

Pruned and trained cold tolerant-hybrid grapes and investigated how canopy practices impacted tannin and pigment accumulation. Also helped discover how different concentrations and timings of fertilizer application impacted vegetative and fruiting load in cranberries, and isolated potentially beneficial mycorrhizae from cranberry roots.

## Non-Academic Jobs

**Custodian**, University Housing, December 2017-March 2022

Performed sanitation duties with a team to solve issues in public and private facilities. Occasionally interacted with customers to assist with parking and ensure satisfaction with service.

## References

**Caitilyn Allen**, Professor

Russell laboratories, 1630 Linden Dr, Madison, WI 53706

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**Edgar Spalding**, Professor

Birge Hall, Lincoln Dr, Madison, WI 53706

(608)- 265-5294

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**Amaya Atucha**, Associate Professor

1575 Linden Dr, Madison WI 53706

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