



Mass Agricultural Experiment Station Mass. Water Resources Research Center

UMass Extension

UMass Cranberry Station Facilities and Services



Mass Agricultural
Experiment
Station

Mass. Water Resources Research Center

UMass Cranberry Station

Facilities

Extension Faculty in Departments



Agriculture Program

Program

4-H Youth Development



UMass Extension



Nutrition Education Program



Clean Energy Extension

Extension Faculty in Departments



Extension Faculty are responsible for conducting, disseminating, and applying research in practical ways to address some of our Commonwealth's most pressing needs. Ideally, should bridge the divide between fundamental research and extension.

16 NTT Extension Professors (+ 2 active searches) are housed in 5 departments and the Cranberry Station. They also hold administrative roles.

Funding support is split between CNS and CAFE (40/60 or 50/50). Extension Faculty teach at a limited level (10-20% of the time), Research (20-40%), and Extension (50%)

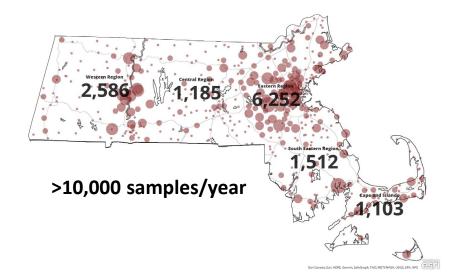


Services





Soil and Nutrient Testing Lab





Plant Diagnostic Lab
-Diagnostics and IPM recommendations



Pesticide Education Program

Crop and Animal Research and Education Farm, South Deerfield





Cold Spring Orchard Research and Education Center, Belchertown

The Center for Agriculture, Food and the Environment

Mass Agricultural Experiment Station Mass. Water Resources Research Center

UMass Extension UMass Cranberry Station

Facilities

Joseph Troll Turf Research Farm, South Deerfield





Equine and Livestock Research and Education Farm, Hadley, MA



Mass Agricultural Experiment Station

Mass. Water Resources Research Center

UMass Extension UMass Cranberry Station

Facilities



UMass Cranberry Station, East Wareham

- New Bogside Building and Renovated Lab: \$8M+ investment; Env. Bond Bill and Chancellor's Office
- Certificate of Occupancy granted October
 2023
 - 11 Acres Research Farm on-site; lease 7 Acres in Myles Standish Forest
 - 1 large and 1 small plastic house, shops, garage





Cranberry Station Personnel

Specialists in Plant Pathology, Entomology, Environmental Physiology, Hydrology (ARS), Plant Nutrition/Cultural Practices, and Weed Science/Integrated Pest Management



Mass. Water Resources Research Center

UMass Extension UMass Cranberry Station

Facilities



\$3.3M Federal Capacity Grant Funding

Mass Agricultural Experiment Station



77 Faculty funded by projects across 4 Colleges and Schools



CAFE Summer Scholar Undergraduate Program and Graduate student summer RAs associated with projects



Contribute funds for equipment purchases for Capacity Grant Research



Administration and research support personnel

77 Faculty Research Projects on Capacity Funds

School of Public Health & Health Sciences

Nutrition

School of Education

College of Social and Behavioral Sciences

- Resource Economics
- Landscape Architecture and Regional Planning

College of Natural Sciences

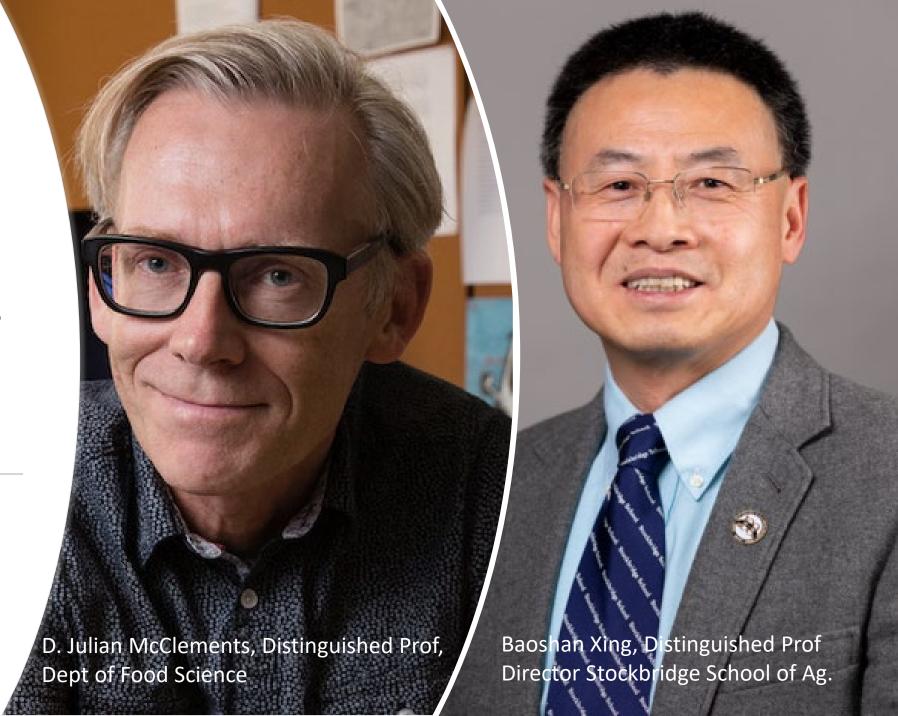
- Stockbridge School of Agriculture
- Veterinary & Animal Sciences
- Microbiology
- Biology
- Environmental Conservation
- Food Science
- Earth, Geographic, and Climate Sciences
- Center of Agriculture, Food & the Environment



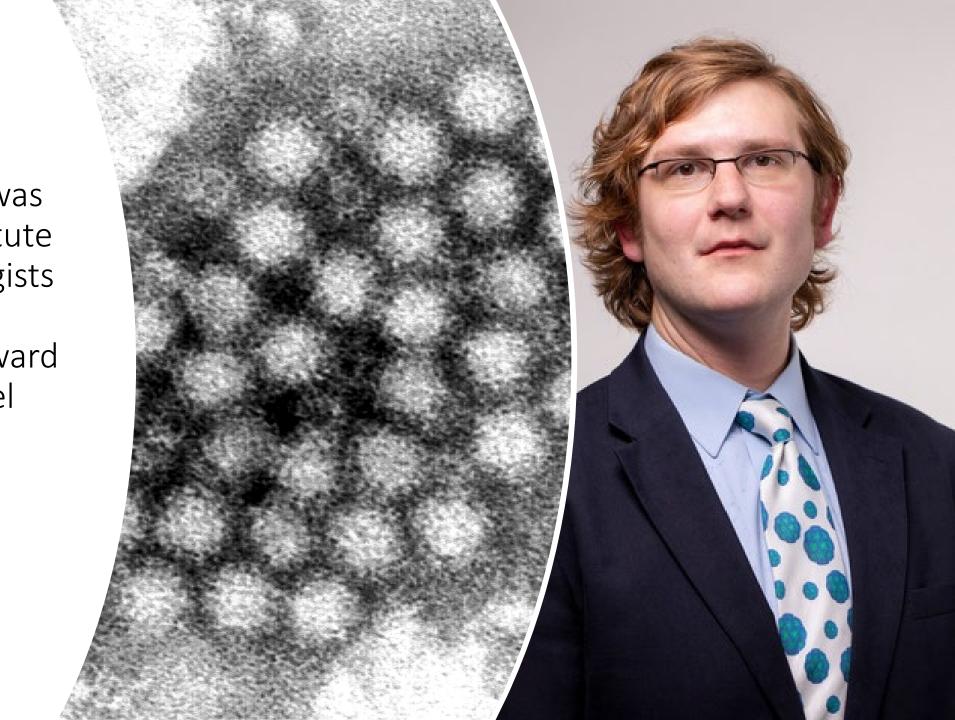




Research.com's 2024 top researcher lists



Matthew Moore was awarded the Institute of Food Technologists 2024 Outstanding Young Scientist Award in honor of Samuel Cate Prescott











f X

Lynne Adler from Dept of Biology won the 2023 Mahoney Life Sciences Prize

RESEARCH ARTICLE | BIOLOGICAL SCIENCES | Ø

Flowering plant composition shapes pathogen infection intensity and reproduction in bumble bee colonies

Lynn S. Adler 📵 🖾 , Nicholas A. Barber 💿 , Olivia M. Biller 📵 , and Rebecca E. Irwin 📵 Authors Info & Affilial Edited by Nils Chr. Stenseth, University of Oslo, Oslo, Norway, and approved April 10, 2020 (received for review January 3, 2020)

May 11, 2020 117 (21) 11559-11565 https://doi.org/10.1073/pnas.2000074117

Lynne McLandsborough of the Dept of Food Science won the 2024 Mahoney Life Sciences prize





3 | Food Microbiology | Research Article | 5 April 2023

Oil-Based Sanitization in Low-Moisture Environments: Delivery of Acetic Acid with Water-in-Oil Emulsions

Authors: Shihyu Chuang, Mrinalini Ghoshal, Lynne McLandsborough D M | AUTHORS INFO & AFFILIATIONS







CAFE funds approx. 70 graduate students each summer with capacity funds







Key Partners and Stakeholders

The UMass Extension Board of Public Overseers

Massachusetts State Agencies

- Department of Agricultural Resources
- Department of Energy Resources
- Department of Conservation Resources
- Division of Fisheries and Wildlife
- Department of Transitional Assistance

Non-Profits

- MA 4-H Foundation
- Massachusetts Food System Collaborative
- Community Involved in Sustainable Agriculture (CISA)
- Southeastern Massachusetts Agricultural Partnership (SEMAP)
- The Massachusetts Forest Alliance

Agriculture Commodity Groups

- Massachusetts Farm Bureau Federation
- Cape Cod Cranberry Growers Association
- Massachusetts Fruit Growers Association
- New England Vegetable and Berry Growers Association
- Massachusetts Nursery and Landscape Association
- Massachusetts Association of Landscape Professionals
- Massachusetts Association of Lawn Care Professionals
- Massachusetts Flower Growers
- New England Floriculture, Inc.
- Massachusetts Arborists Association
- UMass Alumni Turf Group
- New England Regional Turfgrass Foundation
- New England Sports Turf Managers Association
- Golf Course Superintendents Association of New England





Challenges

- Meeting 1:1 funding match by the Commonwealth of Massachusetts in a transparent and auditable manner
- Assuring Farms have research-active faculty and staff.
- Aging infrastructure in laboratories and farm facilities

Future Opportunities

- Increasing support of Massachusetts constituents in urban areas
- Climate change adaptation
- Greater alignment with State Agencies -Regulation - clean energy, soil, food policy

