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Educational Background

Ph.D. Plant Pathology, 2016
Michigan State University

B.Sc. Plant and Soil Science, 2012
University of Massachusetts

Profile

I am a UConn Extension Specialist supporting Connecticut's greenhouse and nursery industries. I collaborate with researchers at UConn and surrounding universities to deliver accurate disease management recommendations and integrated pest management strategies. Before joining UConn, I worked in private industry on ornamental diseases to support the development of fungicide labels. My current focus is integrated management of diseases affecting greenhouse and nursery production, with a focus on downy mildews, *Phytophthora*, and fungal pathogens. This work reflects the diversity of bedding, flower, perennial, and shrub crops grown in Connecticut.

Extension and Outreach

The goal of my extension program is to assist growers and green industry professionals in making disease management decisions that are safe and effective. This is accomplished by 1) providing up to date information on disease identification and control options, 2) introducing integrated pest management tools, and 3) supporting regional and statewide efforts in extension.

Research Interests

Currently, my research focuses on applied management of diseases of flowers including rusts, Pythium and Phytophthora root rot, and powdery mildew. I am interested in pathogen detection, biological control methods, and fungicide resistance.

Bulletins and Factsheets

Finish Times of Connecticut Bedding Plants https://ipm-cahnr.media.uconn.edu/wp-content/uploads/sites/3216/2025/08/Finish-Times-of-Connecticut-Bedding-Plants-2.pdf

Managing Botrytis on Poinsettia https://ipm-cahnr.media.uconn.edu/wp-content/uploads/sites/3216/2025/02/Botrytis-on-Poinsettia-Fact-Sheet.pdf

Managing Phytophthora in the Greenhouse https://ipm-cahnr.media.uconn.edu/wp-content/uploads/sites/3216/2025/03/Phytophthora-Factsheet.pdf

Fungicides for Bedding Plants in Connecticut https://ipm-cahnr.media.uconn.edu/wp-content/uploads/sites/3216/2026/01/Bulletin-Bedding-Fungicides.pdf

Scientific Publications

Bhatta, Usha, Charles Krasnow, Carmit Ziv, and Lina M. Quesada-Ocampo. 2025. A Diagnostic Guide for Fusarium Root Rot of Sweetpotato. Plant Health Progress 26: 206-213.

Krasnow, C. S., Cohen, F., Sadhasivam, S., Raphael, G., Sionov, E., & Ziv, C. 2025. Sweet Pepper cv. Lai Lai Ripeness Stage Influences Susceptibility to Mycotoxinogenic *Alternaria alternata* Causing Black Mold. The Plant Path. J. 41: 266-279.

Krasnow, Charles S., Usha Bhatta, Ginat Raphael, Lina M. Quesada-Ocampo, and Carmit Ziv. 2024. A Diagnostic Guide for Fusarium Fruit Rot of Pumpkin and Winter Squash. Plant Health Progress 25: 527-535.

Krasnow, C., Raphael, G., and Ziv, C. 2023. Fludioxonil and low temperature inhibit growth of *Cladosporium cladosporioides* isolated from sweet pepper postharvest. J. Plant Pathol. 1-11.

Krasnow, C., Norman, D. 2022. Efficacy of Postiva for management of bacterial diseases of ornamental crops, MDPI Authors: Applied Microbiology 2.2: 302-308.

Krasnow, C., Raphael, G., and Ziv, C. 2022. First Report of Fruit Rot of Pepper Caused by *Cladosporium cladosporioides* in Israel. Plant Disease. 106: 2533.

Krasnow, C, et al. 2021 First Report of Stem and Foliage Blight of Chrysanthemum Caused by *Phytophthora drechsleri* in the United States. Plant Disease 105: 3765.

Krasnow, C, et al. 2020 First Report of Poinsettia Wilt Caused by *Amphobotrys ricini* (syn. *Botryotinia ricini*) in Florida. Plant Disease 104:3064-3064.

Jeon, S., Krasnow, C.S., Bhalsod, G.D., Harlan, B.R., Hausbeck, M.K., Safferman, S.I., and Zhang, W. 2019. Control of *Phytophthora capsici* diseases in greenhouse squash by fast-flow filtration. Acta Horticulturae.

Hausbeck, M.K., Krasnow, C.S., and Linderman, S.D. 2020. Methyl bromide alternatives for *Phytophthora capsici* on Michigan's cucurbit crops. Acta Horticulturae 1270: 307-314.

Jeon, S., Krasnow, C.S., Bhalsod, G.D., Harlan, B.R., Hausbeck, M.K., Safferman, S.I., and Zhang, W. 2019. Rapid sand filtration of recycled irrigation water controlled Pythium root rot of poinsettia in greenhouse. HortTechnology 29(5):578-589. Featured on the journal cover.

Krasnow, C., Hausbeck, M., and Wiriyajitsomboon, P. 2017. First Report of Pythium Root Rot of Cabbage Caused by *Pythium jasmonium* in Michigan. Plant Disease 101:1683.

Charles S. Krasnow, Andrew A. Wyenandt, Wesley L. Kline, J. Boyd Carey, and Mary K. Hausbeck. 2017. Evaluation of Pepper Root Rot Resistance in an Integrated Phytophthora Blight Management Program. Hortscience 27:408-415.