

CURRICULUM VITA

Thomas J. Gianfagna

Plant Biology Department
Rutgers–The State University of New Jersey
59 Dudley Road
New Brunswick, NJ 08901

Education

Ph.D. Plant Physiology, Cornell University, 1980
M.S. Plant Physiology, Virginia Polytechnic Institute, 1975
B.S. Biology, State University of New York at Binghamton, 1973

Professional Experience

Professor, Rutgers University, 00-present
Visiting Scientist, Waksman Institute of Microbiology 92-93
Associate Professor, Rutgers University 87-99
Assistant Professor, Rutgers University 81-86
Research Associate, Michigan State University, MSU-DOE Plant Research Laboratory 80-81

Professional service

Associate Editor, *Plant Growth Regulation*, Springer, 1997-present
Editor-in-Chief, *Plant Growth Regulation*, Kluwer Academic Publishers, 1993-1996
Associate Editor, *Plant Growth Regulation*, Kluwer Academic Publishers, 1988-1992

Member, Advisory Board, Ornamental Horticulture Curriculum, Mercer County Community College, Trenton, NJ 1995-present

Teaching

Introduction to Horticulture (11:776:211) 3 credits, 35 students (100%)

Research Interests

Plant-endophyte interactions in cacao, coffee and grasses, medicinal chemistry of *Lilium longiflorum*, postharvest disease control in cut-flowers and fruit

Publications in peer-reviewed journals (84, 1981-2016)

Selected recent publications:

Tang W, Munafò JP Jr, Palatini K, Esposito D, Huang M-T, Komarnytsky S, Ho, C-T, Gianfagna TJ 2015. Hepatoprotective Activity of Easter Lily (*Lilium longiflorum* Thunb.) Bulb Extracts in Mice on a High Fat Diet. *J Agric Food Chem* 63(44):9722-8

Munafò JP Jr and Gianfagna TJ. 2015. Chemistry and Biological Activity of Steroidal Glycosides from the *Lilium* Genus. *Natural Products Reports* 32: 454-477

Munafò JP Jr and Gianfagna TJ. 2015. Quantitative Analysis of Phenylpropanoid Glycerol Glucosides in Different Organs of Easter Lily (*Lilium longiflorum* Thunb.). J Agric Food Chem 63 (19): 4836–4842
Burgess, P., Gianfagna, T., and B. Huang. 2013. Fatty Acid Metabolism in Leaves and Roots Associated with Improved Drought Tolerance in *Agrostis stolonifera* Expressing *SAG12-ipt* Gene Controlling Cytokinin Synthesis. Int. Turfgrass Soc. Research J. 12:497-502.

Esposito D, Munafò JP Jr, Lucibello T, Baldeon M, Komarnytsky S, Gianfagna TJ (2013) Steroidal glycosides from the bulbs of Easter lily (*Lilium longiflorum* Thunb.) promote dermal fibroblast migration *in vitro*. J Ethnopharm 148(2):433-40

Merewitz EB, Du H, Yu W, Liu Y, Gianfagna T, Huang B.(2012) Elevated cytokinin content in *ipt* transgenic creeping bentgrass promotes drought tolerance through regulating metabolite accumulation Journal of Experimental Botany 63 :1315-1328

Rajmohan N, Gianfagna TJ, Meca G, Moretti A, Zhang N. (2011) Molecular identification and mycotoxin production of *Lilium longiflorum*-associated fusaria isolated from two geographic locations in the United States. Eur J Plant Path 131:631-642

Merewitz, EB, Gianfagna T, Huang B. (2011) Cytokinin-regulation of protein accumulation in leaves and roots associated with improved drought tolerance in creeping bentgrass expressing a senescence-activated gene (*SAG12-ipt*) for cytokinin synthesis. J. Exp. Bot. 62:5311-33

Munafò Jr, JP Gianfagna TJ (2011) Antifungal Activity and Fungal Metabolism of Steroidal Glycosides of Easter Lily (*Lilium longiflorum*) by the Plant Pathogenic Fungus, *Botrytis cinerea* J. Agric Food Chem 59(11):5945-54

Chaves, FC, Gianfagna, TJ, Aneja, M Posado, F, Peterson, SW, Vega, FE (2011) *Aspergillus oryzae* NRRL 35191 from coffee, a non-toxicogenic endophyte with the ability to synthesize kojic acid. Mycological Progress 11:263–267

Munafò, Jr, JP, Gianfagna, TJ (2011) Quantitative Analysis of Steroidal Glycosides in Different Organs of Easter Lily (*Lilium longiflorum* Thunb.) by LC-MS/MS. J. Agric Food Chem J. Agric. Food Chem. 2011, 59, 995–1004

Posada FJ, Chaves FC, Gianfagna TJ, Pava-Ripoll M, Hebbar, P (2010) Establishment of the fungal entomopathogen *Beauveria bassiana* as an endophyte in cocoa pods. Revista U.D.C.A Actualidad & Divulgación Científica 12 (3): 71-78

Merewitz, EB, Gianfagna T, Huang B. (2010) Photosynthesis, Water Use, and Root Viability Under Water Stress as Affected by Expression of *SAG12-ipt* Controlling Cytokinin Synthesis in *Agrostis stolonifera*. J. Exp. Bot. 62(1): 383-395

Munafò Jr., JP, Ramanathan, A, Jimenez, L, Gianfagna TJ (2010) Isolation and Structural Determination of Steroidal Glycosides from the Bulbs of Easter Lily (*Lilium longiflorum* Thunb.). J. Agric Food Chem 58:8806-8813

Recent Presentations

3rd Flavor Fragrance and Perception Symposium. 12.07.15. New Brunswick, NJ. Use of anti-microbial Essential Oils for Postharvest Disease Control in Fruit and Cut-Flowers

NJ Master Gardeners Fall Conference. 10.01.16. New Brunswick, NJ The Chocolate Tree—From Ancient Crop to Modern Medicine.

What is Natural? Symposium. 12.15.16. Jamesburg, NJ. The Chocolate Tree—From Ancient Crop to Modern Medicine.