

## Sandra B. Wilson

---

Department of Environmental Horticulture  
101 Mehrhof Hall, Bldg 550  
PO Box 110670  
University of Florida  
Gainesville, FL 32611-0670

Cell (772) 834-7619  
Office (352) 273-4576  
Fax (352) 392-1413  
Email: [sbwilson@ufl.edu](mailto:sbwilson@ufl.edu)  
Website: <http://irrecenvhort.ifas.ufl.edu>

---

### **EDUCATION**

Doctor of Philosophy in Plant Physiology (August, 1996), Clemson University, Clemson, SC.

Master of Science in Horticulture (May, 1993), University of Delaware, Newark, DE

Bachelor of Science in Animal Science (May, 1989), University of Delaware, Newark, DE.

### **PROFESSIONAL EXPERIENCE**

4/2016-present. Professor of Environmental Horticulture, University of Florida, Gainesville, FL. Responsibilities: 60% research: 40% teaching appointment. Changed from 40% to 60% research in June 2018.

10/2014-4/2016. Chair and Professor of Environmental Horticulture, University of Florida, Gainesville, FL. 100% Administration.

7/2011-10/2014. Professor of Environmental Horticulture, University of Florida, Fort Pierce, FL. Responsibilities: 50% teaching, 50% research appointment.

7/2005-7/2011, Associate Professor of Environmental Horticulture, University of Florida, Fort Pierce, FL. Responsibilities: 50% teaching, 50% research appointment.

1/1999-7/2005, Assistant Professor of Environmental Horticulture, University of Florida, Fort Pierce, FL. Responsibilities: 60% teaching, 40% research appointment. Teaching includes instruction of Plant Propagation (PLSC 3221/5222C), Environmental Plant Identification (ORH 3513/5115C) and Annual and Perennial Gardening (ORH 4804/5021C). Development of two new courses in Environmental Horticulture including South Florida Flora and Ecosystems (ORH 4527C) and Florida Native Landscaping (ORH3815/5815C). Research focuses on characterizing the potential invasiveness of ornamental species.

6/96-12/98, Postdoctoral Research Associate, Clemson University, South Carolina. Worked independently in designing and conducting experiments relating to carbohydrate and photosynthetic status of micropropagated plants.

1/98-4-98, Japanese Society for the Promotion of Sciences (JSPS) Postdoctoral Fellow, Chiba University, Chiba, Japan. Collaborative research project with Drs. Toyoki

Kozai and Chieri Kubota. Research focused on analyzing the carbohydrate content and media composition of micropropagated sweetpotato and tomato plantlets grown photoautotrophically and photomixotrophically under enriched CO<sub>2</sub>.

6/93-6/96, Research Assistant, Clemson University, Clemson, South Carolina.

2/91-5/93, Teaching Assistant, University of Delaware, Newark, Delaware.

6/86-5/87, Greenhouse Assistant, University of Delaware, Newark, Delaware.

## **TEACHING EXPERIENCE**

### University of Florida

PLSC 3221/5222C Plant Propagation (currently)

ORH 3815/5815C Native Florida Landscaping (currently)

ORH 4804/5021C Annual and Perennial Gardening (currently)

ORH 3515/5115C Environmental Plant Identification

ORH 4527C South Florida Flora and Ecosystems

### Clemson University

HORT 456/656 --Vegetable Crops Labs

Obtained full responsibility for lab planning, teaching, and grading for two semesters.

Substitute lecturer for class when needed.

### University of Delaware

PLSC 101 --Botany I (General Botany) Labs

PLSC 201 --Botany II (The Plant Kingdom) Labs

Obtained full responsibility for lab planning, teaching, and grading each semester during a three year teaching assistantship. Substitute lecturer for class when needed.

## **PROFESSIONAL DEVELOPMENT IN TEACHING**

Quality scorecard for best practices in online learning

Active learning- Creating excitement in the classroom

Flipping the classroom

Teaching tips-strategies research and theory

Classroom communication- effective discussion and questioning

Distance education pedagogy

Online vs. traditional learning outcomes

Experiential learning and critical thinking

Teaching students to reason

Reasoning and thinking

Technology in the classroom

Enhancing your course with the web

Web-delivered distance education

Using writing to teach the methodology of the discipline

Effective use of small groups in the classroom

How to create a teaching portfolio

The seven habits of highly effective people

## **CREATIVE WORKS OR ACTIVITIES**

Plant this not that: A guide to avoiding invasive species in Florida. 2021. This is a laminated, ring-bound-flipbook written to provide safe alternatives to commonly sold invasive ornamental plants. Twenty-two color entries and descriptions pair an invasive with a list of non-invasive alternatives and cultivars to use instead.

<http://ifasbooks.ifas.ufl.edu/p-1658-plant-this-not-that.aspx>.

Bee web application. 2018-2021. The Florida Friendly Landscaping bee mobile application has been launched (<https://ffl.ifas.ufl.edu/bees>). This includes approximately 100 plant species that attract 12 bee groups. Plant categories include identification features, landscape use (design my bee garden), bee descriptions, and flowering times. Tips for garden design, selecting plants, buying plants, planting, and maintenance are included.

Florida toxic plants application. 2017-2020. The Florida Toxic Plants mobile application has been launched (<https://ffl.ifas.ufl.edu/toxicplants/#/tabs/plant/list>). This includes approximately 125 plant species and over 600 color photos to aid in identification. Plant categories include common landscape plants, weeds, native species, bedding plants, houseplants or cut flowers, and invasive plants. Information included for each species includes what parts of the plant are poisonous, symptoms of exposure, who is susceptible (people, companion animals, livestock), a toxicity scale, and a notes section for further information.

Interactive online plant propagation glossary web and mobile application. 2015-2021. The PropG mobile and web application was launched (<https://propg.ifas.ufl.edu/>). This includes a collection of glossary pages, which are accessed through two methods, a navigational menu system organized by topic categories, and an alphabetical index of terms. The index has an internal search function which allows the user to type in a term. Over 500 propagation terms are defined and accompanied with images and videos.

Research and teaching website. 2002-2022-. <http://irrecenvhort.ifas.ufl.edu>. Includes linked websites for all courses, research projects, and publications.

E-learning website. 2002-2022. Includes weekly PowerPoint lectures, assignments, handouts, lab exercises, quizzes, and digital images. UF Academic Technology, <https://eleariang@ufl.edu>.

Storyline interactions and simulations as a DE supplement to traditional on site lab experiences in plant propagation. 2013-2018. This project was developed as a way for students to interactively review online lecture concepts prior to their associated lab in an effort to synchronize subject knowledge with hands on applications. Self-review quizzes can be found at <http://irrecenvhort.ifas.ufl.edu/Propagation/assignments.html>.

I-Application and web-based multiple-entry key for plant family identification. 2010-2018. This project was developed to assist DE learners in the practical use of botanical terminology and plant anatomy, and introduce students to the distinctive characteristics of common plant families. A menu organizes the different areas of plant anatomy, such as flowers, fruit, and leaves. A user holding a wildflower specimen, for example, can first navigate to the flowers section and enter the number of petals on each flower. After that, the user can choose to put in some information about leaf shape or venation. Eventually, a list of potential families appears which can then be narrowed more.  
<http://hort.ifas.ufl.edu/floragator/families.html>

Interactive Online Native Plant Identification and Ecosystem Review. 2009-2010- This project was developed to incorporate online review opportunities for students enrolled in Florida Native Landscaping. Students can (1) view plant material online and complete interactive quizzes, (2) review plant taxonomy concepts through interactive drag and drop exercises, and (3) review plant associations and site characteristics of 7 major ecosystems. The learning exercises were developed in open code so that they could be modified and used by faculty throughout the world who teach similar subjects.  
<http://irrecenvhort.ifas.ufl.edu/FNL/quizzes/leafquiz.html>

World-wide greenhouse education module. 2006. Through collaboration with University of Arizona, Ohio State University and University of Vermont, this project encompasses developing a multimedia instrument for greenhouse education. This instrument consists of a repository of greenhouse educational materials that address important greenhouse topics including energy conservation, environmental safety, food produce safety, labor efficiency, and manipulation of plant responses in controlled environments. All components of the project can be obtained at:

[https://cals.arizona.edu/GHsimulator/greenhouse\\_content.html](https://cals.arizona.edu/GHsimulator/greenhouse_content.html)

The online digital repository can be found at:  
<http://badger.uvm.edu/dspace/handle/2051/1924>

Virtual plant identification. 2004. A web-based interactive interface was created so that students can learn plant material and landscape principles in different seasons and in different geographic locations. A specialized digital camera apparatus and software were utilized to convert still images into 360 degree panoramic images that were stitched together to create a virtual walk through the IRREC teaching gardens. To enhance nomenclature and identification skills, specific plants within the panorama were hyperlinked to data information sources and high resolution close-up images. This educational instrument can be viewed at  
<http://irrecenvhort.ifas.ufl.edu/virtualgarden/index.htm>.

Plant propagation CD for online instruction. 2006-2010. The CD was developed with co-instructor Mack Thetford in cooperation with IFAS Communication Systems for web-based delivery of Plant Propagation (PLS 3221). Online instruction complementing each subject module. Contains: (1) narrative PowerPoint lectures given by nationally recognized experts including 11 faculty from 4 universities, including UF; (2) video of propagation practices at 4 nurseries specializing in different aspects of ornamental plant

production, (3) video of live demonstrations of several propagation practices, (4) question and answer dialogue with experts at several nurseries, (5) animation of pollination and fertilization in angiosperms, (6) lecture review sheets, and (7) narration of 18 chapters. Contents of the CD can be viewed at <http://irrecenvhort.ifas.ufl.edu/Propagation/index.html>

Digital pollination and fertilization in angiosperms. 2002. The project was developed in cooperation with the Office of Academic Training to illustrate the process of pollination and fertilization in angiosperms, including coinciding digital animation and voice automation of: (1) anther and ovule development, (2) pollination, (3) 14 steps of fertilization, and (4) embryogenesis. This learning exercise can be viewed at <http://irrecenvhort.ifas.ufl.edu/Propagation/modules.html>

IFAS-wide web-based multimedia database of native Florida plants. 2002. The project was developed in cooperation with IFAS Information Technology to input high quality images of native plants into a universal web-based interface software program (Web Taxonomy, <http://orb.ifas.ufl.edu>).

## **HONORS**

2022. Superior Accomplishment Award. Academic Personnel. IFAS, University of Florida.

2021. Florida-Friendly Landscaping™ Faculty of the Year Award. University of Florida.

2022. ASHS Extension Division Education Materials Award Nomination-Bulletin. Plant this, not that: A guide to avoiding invasive species in Florida. (McIntryre, Gutner, Pinkerton and Wilson)

2022. ASHS Extension Division Education Materials Award Nomination-App. Florida Friendly Bee Gardens Mobile Web App (Wilson, Momol, Kalaman, Mallinger, Wilber, Wichman, Knox, Marvin, Bain, Lewis, and Kavalan)

2022. ASHS Extension Division Education Materials Award Nomination-Leaflet. A Beginners Guide to Begonia-3 part series. (Huo, Jinori, Wilson)

2018. International Plant Propagator's Society Southern Region Fellow Award. IPPS.

2018. Outstanding Graduate Educator Career Award. American Society for Horticultural Science.

2015. Fellow Award. American Society for Horticultural Science ASHS.

2012. Outstanding Education Publication Award. American Society for Horticultural Science.

2011. Roche Professorship, College of Agriculture and Life Sciences. University of Florida.

2009. Outstanding Undergraduate Educator Career Award. American Society for Horticultural Science.

2007. Gold Award for Educational Project. Association for Communication Excellence.

2006. Undergraduate Teacher of the Year. College of Agriculture and Life Sciences, University of Florida.

2006. Best Dissertation Award. Ph.D. graduate student co-advisor. University of Florida.

2005. Fellow Award. North American Colleges and Teachers of Agriculture (NACTA).

1998. Fellowship for international research collaboration. Japanese Society for the Promotion of Sciences.

1997. Outstanding Young Woman in Science Award.

1994. Student Travel Award. American Society for Horticultural Sciences.

1993. Women of Excellence Award, 1993 recipient. College of Agriculture, University of Delaware.

1993. Certificate of Appreciation for Outstanding Service to Teaching. Center for Teaching Effectiveness, University of Delaware.

1992. Student Travel Award, American Society for Horticultural Sciences.

1992. Student Travel Award, Commission on the Status of Women.

1992. Norman Childers Graduate Student Award, Best student presentation. NEASHS meetings, Amherst, MA.

1986-1988. Carvel Scholarship, University of Delaware.

1995. O.A. Newton Scholarship, University of Delaware.

**LEADERSHIP DEVELOPMENT**

American Society for Horticulture Sciences Workshop. 2020. Leadership: Another part of your career as a horticulturist.

Academic Administrators Leadership Seminar Series Program. 2015-2016. Four part series providing insight into various management issues including HR topics, legal tips,

tenure and promotion, privacy and security, university budget and fiscal accountability, and conflict resolution.

American Society for Horticultural Sciences Vice President, Education Division. 2012-2015. Elected position providing leadership decisions in budgets, programs, and policy.

Advanced Leadership Program for Academics. 2012-2013. Ongoing development of faculty in leadership positions with an emphasis on exploring the application of the UF Leadership/management Competency Model.

Faculty Senate. 2012-2015. A university-wide institution through which shared governance is practiced by recommending and consulting on academic activities, policy, faculty development, strategic planning and department/unit/college representation .

Roche Professorship. 2010-2012. A two year term working within CALS to provide leadership to faculty and staff in distance education pedagogy. Project includes several focus groups and a graduate student survey to assess the quality of online learning, leadership in the annual teaching enhancement symposium, and planning a teaching grants workshop to advance excellence educational grant writing.

LEAD21 National Internship Program. UGA Fanning Institute, 2010-2011. A year long program with specific goals to (1) enhance application of skills and knowledge learning in nine leadership competencies, (2) develop a peer leadership network to enhance personal leadership practice, collaboration and diversity of perspective, and (3) develop and implement an individual leadership process. The training process also included discussion on a number of text references such as 'The 360° Leader', 'The Work of Leadership', 'Going from Good to Great', 'The 21 Irrefutable Laws of Leadership', 'Leading Change and Navigating Success- Bridging the Gap', and 'What Got you Here Won't Get you There'

## **PROFESSIONAL ORGANIZATIONS**

American Society for Horticultural Science

International Society for Horticultural Science

Southern Nursery Association

Florida State Horticultural Society

Florida Nursery, Growers and Landscape Association

Florida Native Plant Society

Florida Exotic Pest Plant Council

International Plant Propagators Society

Gamma Sigma Delta

North American Colleges and Teachers of Agriculture

## **SERVICE TO ASHS**

-Vice President, Education Division 2013-2015, responsible for Graduate and Undergraduate Poster competitions, Scholar's Ignite, and all associated working groups and committees

- Member, graduate educator award (2021-2022), Nominations committee (2021-2022)
- Member, Technical committee (2021-2022)
- Chair, Fellows selection committee, 2018-19 and 2020-21
- Authored or co-authored 32 refereed manuscripts in the Journal of ASHS, HortScience, or HortTechnology.
- Invited speaker, 45 oral or poster contributions at ASHS
- Student competition judge
- Session moderator
- Co founder of Invasive Plant Working Group
- Chair, Invasive Plant Working Group
- Chair, Plant propagation working group
- Coordinated special hot topics workshop on Mooks
- Chair, undergraduate educator award committee
- Coordinated special workshop on prevention and screening of invasive species
- Invited panelist for graduate mentoring (2021)
- Invited podcast speaker for paper selected (2022)

### **SERVICE TO IPPS**

- Board member 2013-2015
- Ad hoc student membership committee 2017-2018
- Membership Committee 2013-2015
- Student competition judge
- Speaker
- Moderator

### **INTERNATIONAL ACTIVITIES**

Australia	International Society of Horticultural Sciences, co-author
Portugal	Invited speaker, International Horticulture Congress, Lisbon.
China	University of Florida—Huazhong Agricultural University Bilateral symposium on horticultural science. Wuhan, China, Dec 8, 2018. Invited speaker.
Spain	Presented a paper at the International Society for Horticultural Science (ISHS) Research Symposium on Greenhouse Cooling- methods, technologies and plant response, Almeria. Symposium included tours of commercial greenhouse production and technological advances in environmental control.
Honduras	(2009) Invited speaker, Zomorano Seminar Series, via polycom

(2006) Invited speaker, Zomorano University. Traveled with several UF faculty to Honduras to visit with faculty and staff

(2006) Invited speaker, Zomorano Seminar Series, via polycom

Costa Rica

(2007) Completion of intensive Spanish learning program at Intensa School, San Jose; Visited with faculty at University of Costa Rica to discuss potential research collaboration.

(2006) UF-Short term Scholar's program, supervised and hosted undergraduate student from EARTH University for a research project conducted at Kraft Gardens (commercial foliage plant producer), Fort Pierce.

(2005) Invited speaker, EARTH University, Guácimo de Limón

(2003) Student/Faculty horticultural tour focused on learning about commercial plant production, landscaping, botanical gardens, and nature preserves throughout Costa Rica including: Agricola Poco Sol in La Tigra (foliage cutting producer), Arenal botanical garden, Manuel Antonio national park, Carara Biological Reserve, Cafe Christina organic coffee production, Fides Plants (unrooted cuttings of flowering plants), Twyford tissue culture labs, Linda Vista flower seed production, and others.

Holland

Horticultural tour focused on commercial greenhouse production, nursery production, industry research and ornamental gardens throughout Holland including Hem Genetics, Keukenhof Gardens, Aalsmeer Flower Auction, Kudelstaart potted orchid production, PanAmerican Seed Europe & Ball FloraPlant, Rijnbeek & Zoon, Lekkerkerk Plants, Fides Goldstock Breeding, Zaanse Schans and Volendam; Palis Het Loo and Kroller-Muller Museum and others.

International

(2010) International Participant, Pathways to Effective International Engagement Workshop, IFAS International Programs

(2004) Presented a paper at the International Society for Horticultural Science (ISHS) International Symposium on protected culture in a mild-winter climate, Kissimmee, FL. Symposium included tour and overview of NASA research laboratories for plant production in space.

(2002-present) Member of the International Plant Propagator's Society

Canada	Presented two papers at the International Society for Horticultural Science (ISHS) and American Society for Horticultural Science (ASHS) combined research meetings in Toronto.
Puerto Rico	Collaboration with University of Puerto Rico (T-STAR grant) to test alternatives to peat for container-grown tropical ornamentals and nutrient management practices.
Italy	Student/faculty horticultural tour focused on learning about the commercial plant production, university research, and world famous ornamental gardens throughout Italy including: Villa d-Este Gardens, Villa Lante Gardens, Vatican garden, Chigi Cetinali Gardens, Orto Botanico Gardens, Villa Torriggiani Gardens, Florence woody landscape production and interior trees, Albenga greenhouse production, University of Turin, Isola bella-Lake Maggiore Gardens, and others.
Japan	JSPS Fellow, Chiba University  Collaboration with Mitsui chemicals, Japan, and Clemson University, SC, to test photoselective plastic films in Florida.  (2000) Invited speaker, International Symposium on transplant production in closed systems, Chiba, Japan.

## GRADUATE COMMITTEE ACTIVITIES

### Ph.D. Chair/Co-Chair

Alexander Schaller	2024	Selection and breeding of pomegranate for pathogen resistance and ornamental use.
Zhaoyuan Lian	2022	Identifying novel snapdragons through genetics and propagation
Kornelia Fillmer	2021	Propagation and production of underutilized native wildflowers in Florida
Adrienne Smith	2015	An innovative strategy for invasive plant control: Restoration of stable native plant ecosystems using <i>Ruellia simplex</i> (Mexican petunia) invaded floodplain forests as a model system.
Niels Proctor	2014	Assessing and projecting the competitive advantage ornamental invasives have over natives in varying Florida conditions.
Carmen V.-Aracama	2005	Physiological and anatomical basis for differences in <i>in vitro</i> and <i>ex vitro</i> growth performance of sea oats ( <i>Uniola paniculata</i> L.) genotypes.

#### D.P.M. Chair

Teagan Young	2024	Cutting propagation of four <i>Psychotria</i> taxa.
Lindsay Mikell	2024	Propagation and production of ornamental natives for landscape use in Florida
Julia Rycyna	2021	Evaluation of non-invasive alternatives to common invasive ornamentals in Florida
Heather Kalaman	2020	Efficacy of native and non-native popular ornamentals as valuable resources for native bees

#### Ph.D. Committee Member

S. (Brooks) Parrish	2024	Marker development and disease resistance of lantana
Joanna Jaramillo	2025	Pollinator resources of native and nonnative ornamentals
Brooke Moffis	2026	Multispecies lawns: An alternative strategy for water conservation and ecosystem functions
Julian Gionori	2023	Development of begonias with enhanced heat tolerance and stem rot resistance
Wayne Hobbs	2022	Efficacy of online course development in extension
Rachelle Deak	2024	Interactions between overused ornamental plant varieties and land development: Effects on long-term plant invasion.
JianJian Xu	2022	Somatic embryogenesis in orchid production
Jamielyn Daugherty	2022	Effective use of distance education in plant science.
Gabriel Campbell	2020	Propagation, production and outplanting of <i>Asclepias humistrata</i>
Anita Neal	2018	Distribution, biology, and management of <i>Myllocerus undecimpustulatus undatus</i> Marshall (Coleoptera: Curculionidae) in the landscape and horticulture industry in Florida.

Sean Fromang	2012	Doctor of Plant Medicine
Anne Frances	2008	Establishment and management of native wildflowers on Florida roadsides and former pastures.
Lucy Treadwell	2006	Effects of simulated herbivory on the growth and reproductive capability of the invasive exotic shrub Brazilian peppertree, <i>Schinus terebinthifolius</i> .
Marisa Zansler	2004	Florida's ornamental plant industry: A cross-section and time-series estimation of nursery profitability.

#### M.S. Chair/Co-Chair

Lindsay Mikell	2022	Propagation and production of an ornamental native, <i>Zanthoxylum fagara</i> .
Teagan Young	2022	Cutting propagation of <i>Psychotria</i> spp.
Julia Rycyna	2021	Evaluation of non-invasive alternatives to common invasive ornamentals in Florida
Heather Kalaman	2020	Efficacy of native and non-native popular ornamentals as valuable resources for native bees
Thomas Smith	2021	Seed and vegetative propagation of <i>Vachellia farnesiana</i> .
Carlee Steppe	2019	The propagation and evaluation of <i>Baldina angustifolia</i> and <i>Paronychia erecta</i> for landscape use in Florida.
JianJian Xu	2018	Breeding novel forms of Lantana and Caladium.
Jerry Renick	2018	Propagation systems for nursery production.
Kornelia Fillmer	2016	Sequencing of a Tobamovirus species.
Joy Stanilka	2015	Competencies and critical thinking on and off campus.
Alex Kroenke	2015	Lantana evaluation and germination.
Kara Kruger	2013	National ornamental grass trialing.
Kristin Wald	2013	Effects of silicon on marigold production.
Adrienne Smith	2011	Effects of media composition on container production of native wildflowers.
Alison Heather	2009	A study on propagation methods for two native wildflowers: <i>Polygonella polygama</i> and <i>Polygonella robusta</i> .
Kari Ruder	2006	Propagation and production of <i>Dalea feayi</i> .
Helen Danielson	2005	Production and performance of <i>Gaillardia</i> cultivars and ecotypes.
Susan Blass	2005	Visual quality, flowering and consumer preference of new native and non-native cultivar releases.
Emily Barnett	2004	Evaluating the spread and impacts of <i>Ruellia tweediana</i> in natural areas.

#### M.S. Committee Member

Vanessa Rostan	2024	Influence of pesticide formulation and application timing on contamination of floral resources in ornamental plants
Yifan Jing	2023	Micropropagation and acclimatization of <i>Monstera</i>
Andres Ochoa	2019	Germination ecology and seed desiccation tolerance of <i>Linum arenicola</i> , an endangered species from South Florida

Rebecca Perry	2020	Investigating the effects of plant diversity and nutrients on drivers of monarch fitness and abundance
Jonathan Jasinski	2012	Effect of meta-topolin on acclimatization of a wide range of sea oats genotypes
Natalie Hooton	2011	Propagation and production of <i>Chrysopsis godfreyi</i> ecotypes.
James Sadler	2013	Sea oats cryopreservation.
Sean Fromang	2011	Toxicity of simazine and norflurazon on ( <i>Lemna minor</i> ) duckweed
Rueben Koch	2011	Leaching of fipronil in Florida soils.
Kristin Campbell	2010	Germination biology of the invasive <i>Lantana camara</i> and native <i>Lantana depressa</i> .
Ed Skvarch	2007	Development and analysis of distance continuing education units for licensed pesticide application holders.
Matt Moyer	2004	Plant growth regulation and breeding of phygelius.

## PUBLICATIONS

### Books

Davies, F.T., B.L. Geneve, and S.B. Wilson. 2018. Hartmann and Kester's Principles and Practices of Plant Propagation. 9<sup>th</sup> edition. Prentice Hall, Upper Saddle River, NJ.

Wilson, S.B. and G. Campbell. 2021-2022. Propagation of native plants for Florida's landscapes and gardens. University of Florida Press. In progress.

### Refereed Journal Articles (\*designates graduate student)

Wilson, S.B., C. Steppe\*, and M. Kane. 2022. Micropropagation of *Paronychia erecta*, a native species with ornamental potential. Native Plants J. In preparation.

Wilson, S.B., R. Mallinger, H. Kalaman, and E. Momol. 2022. A novel mobile application for Florida Friendly bee gardening. HortTechnology. In preparation.

Xu, J., S.B. Wilson, W.A. Vendrame and D.G. Beleski. 2022. Micropropagation of sweet acacia (*Vachellia farnesiana*), an underutilized tree with ornamental value. In vitro Cellular and Developmental Biology-Plant. J. Submitted.

Young, T.\*, S.B. Wilson, M. Thetford and J. Coole. 2022. Cutting propagation of four Florida native taxa of wild coffee (*Psychotria* sp.) for ornamental use. Native Plants J. In press.

Campbell-Martinez\*, G., M. Thetford, D. Miller, S.B. Wilson and C. Gomez. 2022. Effect of fertilizer rate, substrate, and container type on greenhouse performance of sandhill milkweed. HortScience. Submitted for internal review.

Smith, T.P\*. S.B. Wilson, S.C. Marble, and J.J Xu. 2022. Propagation for commercial production of sweet acacia (*Vachellia farnesiana*): A native plant with ornamental potential. *Native Plants J.* In press.

Zhaoyuan, L.\*, C. D. Nguyen, L. Liu, G. Wang, J. Chen, S. Wang, G. Yi, S.B Wilson, H. Gong and H. Huo. 2022. Improved genetic transformation by applying developmental regulators through *Agrobacterium* injection of adult plants or *in-vitro* tissue culture. *Plant Biotechnology J.* 1-14: doi: 10.1111/pbi.13837.

Trigiano, R.N., S.L. Boggess, C.R. Wyman, D. Hadziabdic, and S. Wilson. 2021. Propagation methods for the conservation and preservation of the endangered whorled sunflower. *Helianthus verticillatus*. *Plants*. 10,1565 <https://doi.org/10.3390/plants10081565>.

Campbell\*, G.E., C. Steppe\*, S.B. Wilson and M. Thetford. 2022. Effect of temperature, light and seed provenance on germination of *Paronychia erecta*: a native plant with ornamental potential. *Native Plants J.* 23:56-64.

Kalaman\*, H., S.B. Wilson, R.E. Mallinger, G.W. Knox, and E. van Santen. 2022a. Evaluating native and non-native ornamentals as pollinator plants in Florida: I. Floral abundance and insect visitation. *HortScience*. 57:126-136. <https://doi.org/10.21273/HORTSCI16123-21>.

Kalaman\*, H., S.B. Wilson, R.E. Mallinger, G.W. Knox, T. Kim\*, and K. Begcy. 2022b. Evaluation of native and non-native ornamentals as pollinator plants in Florida: II. Floral resource value. *HortScience*. 57:137-143. <https://doi.org/10.21273/HORTSCI16124-21>.

Campbell-Martínez\*, G.E., C. Steppe\*, S.B. Wilson, M. Ball, and C. Peterson. 2021. Effects of temperature, seed provenance, and substrate on germination of the endemic and threatened paper nailwort (*Paronychia chartacea* ssp. *chartacea*). *Florida Scientist*. 85(1):1-9.

Graves, N.\*, G. Campbell-Martinez\*, M. Thetford, D. Miller, and S.B. Wilson. 2021-2022. Conservation and reestablishment of Florida panhandle golden asters (*Chrysopsis* spp. I. Reproduction characteristics and germination requirements. *Native Plants J.* 22:315-322. <https://doi.org/10.3368/npj.22.3.315>.

Campbell-Martinez\*, G., M. Thetford, C. Steppe\*, S.B. Wilson, and D. Miller. 2021. Germination of coastalplain honeycombhead (*Balduina angustifolia*) in response to photoperiod, temperature, and gibberellic acid. *Seed Science and Technology*. 49(3):287-303. <https://doi.org/10.15258/sst.2021.49.3.09>.

Wilson, S.B., J. Rycnya\*, Z. Deng, and G. Knox. 2021. Summary of 26 heavenly bamboo) selections evaluated for invasive potential in Florida. *HortTechnology*. 31:367-381. <https://doi.org/10.21273/HORTTECH04798-21>.

Wilson, S.B., C. Steppe\*, Z. Deng, and G. Knox. 2020. Landscape performance and invasive potential of 8 *Lantana montevidensis* cultivars grown in north and central Florida. *HortScience*. 55:1737-1743. <https://doi.org/10.21273/HORTSCI15120-20>

Deng, Z., S.B. Wilson, and D. Czarnecki\*. 2020. 'UF-1013-1': An infertile cultivar of *Lantana camara*. *HortScience*. 55:953-958. <https://doi.org/10.21273/HORTSCI14911-20>.

Fetouh, I.F., Z. Deng, S.B. Wilson, C.R. Adams, G. Knox. 2020. Induction and characterization of tetraploids in Chinese privet (*Ligustrum sinense* Lour.). *Scientia Horticulturae*. 271:1-7. <https://doi.org/10.1016/j.scienta.2020.109482>

Lian\*, Z., C.D. Nguyen, S.B. Wilson, J. Chen, and H. Huo. 2020. An efficient protocol for Agrobacterium-mediated genetic transformation of *Antirrhinum majus*. *Plant Cell Tiss Org Cult*. 142:527-536. <https://doi.org/10.1007/s11240-020-01877-4>

Kalaman\*, H., G.W. Knox, S.B. Wilson, and W. Wilber. 2020. A master gardener survey: Promoting pollinator-friendly plants through education and outreach. *HortTechnology*. 30:163-167. <https://doi.org/10.21273/HORTTECH04460-19>.

Quian, R., S. Brooks\*, S.B. Wilson, G.W. Knox and Z. Deng. 2020. Morphological and cytological characterization of five porterweed (*Stachytarpheta*) selections. *HortScience*. 56:330-335. <https://doi.org/10.21273/HORTSCI15594-20>.

Steppe\*, C., S.B. Wilson, Z. Deng, K. Druffel, and G.W. Knox. 2019. Morphological and cytological comparisons of eight varieties of trailing lantana (*Lantana montevidensis*) grown in Florida. *HortScience*. 54:2134-2138. <https://doi.org/10.21273/HORTSCI14443-19>.

Bechtloff\*, A., C. Reinhardt-Adams, S.B. Wilson, and Z. Deng. 2019. Alternatives to potentially invasive plant species for the horticultural industry in the southeast United States. *J. Environmental Horticulture*. 37(1): 9-18.

Wilson, S.B., R.L. Geneve and F.T. Davies. 2018. An online study tool for reviewing plant propagation terms and concepts. *HortTechnology*. 28(6):851-854.

Thetford, M., A. O'Donoughue\*, S.B. Wilson, H. Perez. 2018. Landscape performance of 3 *Polygonella* wildflower species native to Florida. *Native Plants Journal*. 19:239-247. doi:10.3368/npj.19.3.239.

Albano, J.A., J. Altland, D.J. Merhaut, S.B. Wilson, and P.C. Wilson. 2017. Irrigation water acidification to neutralize alkalinity for nursery crop production: Substrate pH, electrical conductivity, and nutrient concentrations; and plant nutrition and growth. *HortScience*. 52:1401-1405.

Deng, Z., S.B. Wilson, X. Ying and D.M. Czarnecki II\*. 2017. Infertile *Lantana camara* cultivars 'UF-1011-2' and 'UF-1013A-2A. HortScience 52:652-657.

Fetouh, M.I., A. Kareem, G.W. Knox, S.B. Wilson and Z. Deng. 2016. Induction, identification, and characterization of tetraploids in Japanese privet (*Ligustrum japonicum*). HortScience. 51:1371-1377.

Wilson, P.C., G. Gruber, Y. Lin, P. Kumar, D. Niebch and S. Wilson. 2016. Influence of three citrus herbicides on potential production of *Sorghum bicolor* 'Topper 76-6' as a bioenergy crop. Bull Environ. Contam. Toxicol. 97:639-645.

Smith\*, A.M., C. Reinhardt Adams, C. Wiese, and S.B. Wilson. 2016. Re-vegetation with native species does not control the invasive *Ruellia simplex* in a floodplain forest in Florida, USA. Applied Vegetation Science. 19:20-30.

Smith\*, A.M., S.B. Wilson, C. Reinhardt Adams, and C. Wiese. 2015. Germination of native species: Efforts to guide revegetation in a Mexican petunia-invaded floodplain in Florida, USA. Ecological Restoration. 33:237-241.

Freyre, R., S.B. Wilson, G.W. Knox, C. Uzdevenes, L. Gu, and K.H. Quensenberry. 2015. Breeding and genetic studies of *Ruellia simplex* (Mexican petunia). Eucarpia Symposium, Belgium. Acta Hort. 1087:113-120.

Smith\*, A.M., C. Reinhardt Adams, C. Wiese, and S.B. Wilson. 2015. Suppression of the ornamental invasive Mexican petunia (*Ruellia simplex*) by native species in a greenhouse study. Ecological Restoration. 33(2) 207-214.

Wilson, S.B., G.W. Knox, Z. Deng, K.L. Nolan, and J. Aldrich. 2014. Landscape performance and fruiting of nine heavenly bamboo selections grown in northern and southern Florida. HortScience. 49:706-713.

Irani, T., S.B. Wilson, D. Slough, and M. Rieger. 2014. Graduate student experiences on and off Campus: Social connectedness and perceived isolation. J. Distance Education. 27(2), online.

Smith, A.M., S.B. Wilson, M. Thetford, K.L. Nolan, and C. Adams. 2014. Performance of nine Florida native wildflower species grown in varying container substrates. Native Plants Journal. 15:75-86.

Freyre, R. and S.B. Wilson. 2014. *Ruellia simplex* R10-105-Q54 ('Mayan Pink'). HortScience. 49:499-502.

Wilson, S.B., G.W. Knox, K.L. Nolan, and J. Aldrich. 2014. Landscape performance and fruiting of 12 privet selections grown in northern and southern Florida. HortTechnology. 24:148-155.

Wilson, S.B. and A.L. Flory. 2012. FloraGator: A novel, interactive and online multiple entry key for identifying plant families. *HortTechnology*. 22:410-412.

Freyre, R., A. Moseley, S.B. Wilson, and G.W. Knox. 2012. Fruitless *Ruellia simplex* R10-102 ('Mayan Purple') and R10-108 ('Mayan White'). *HortScience*. 47:1808-1814.

Freyre, R., A. Moseley, S.B. Wilson, and G.W. Knox. 2012. Breeding and evaluating for landscape performance and fruitlessness in Mexican Petunia (*Ruellia*, *Acanthaceae*). *HortScience*. 47:1245-1251.

Czarnecki, D.M., S.B. Wilson, G.W. Knox, R. Freyre, and Z. Deng. 2012. UF-T3 and UF-T4: Two sterile *Lantana camara* cultivars. *HortScience*. 47:132-137.

Thetford, M., A.H. O'Donoughue, S.B. Wilson and H.E. Pérez. 2012. Softwood cutting propagation of three *Polygonella* wildflower species native to Florida. *J. Prop. Ornamental Plants*. 12(1):58-62.

Campbell\*, K.R., S.B. Wilson, P.C. Wilson, and Z. He. 2011. Interactive online tools for teaching plant identification. *HortTechnology* 21:504-508.

Wilson, S.B., G.W. Knox, Z. Deng, and R. Freyre. 2010. Characterizing the invasive potential of ornamental plants. *Proceedings of the XXVIII International Horticulture Congress on Science and Horticulture for People. Acta Horticulturae*. 937:1183-1192.

Heather\*, A.E, H.E. Pérez, and S.B. Wilson. 2010. Non-deep physiological dormancy in seeds of two *Polygonella* species with horticultural potential. *HortScience*. 45:1854-1858.

Valero-Aracama\*, C., M.E. Kane, S.B. Wilson, and N.L. Philman. 2010. Substitution of benzyladenine with meta-topolin during shoot multiplication increases acclimatization of difficult- and easy-to-acclimatize sea oats (*Uniola paniculata* L.) genotypes. *Plant Growth Regulation*. 60:43-49.

Fitz-Rodriguez\*, E., C. Kubota, G. Giacomelli, M. Tignor, S. Wilson, and M. McMahon, 2010. Dynamic modeling and simulation of greenhouse environments under several scenarios: A web-based application. *Computers and Electronics in Agriculture*, Elsevier 70: 105-116.

Wilson, S.B., G.W. Knox, K.L. Muller, R. Freyre, and Z. Deng. 2009. Seed production and viability of eight porterweed selections grown in northern and southern Florida. *HortScience* 44:1842-1849.

Rhoades\*, E.B., T. Irani, M. Tignor, S. Wilson, C. Kubota, and G. Giacomelli, and M. McMahon. 2009. A case study of horticulture education in a virtual world: A web-based multimedia approach. *NACTA Journal*. 53:42-48.

Wilson, S.B. and G.W. Knox. 2009. Landscape performance of green fountain grass alternatives grown in northern and southern Florida. *HortTechnology*. 19:471-476.

Wilson, S.B., K.L. Muller, P.C. Wilson, M.R. Incer, P.J. Stoffella, and D.A. Graetz. 2009. Evaluation of new container media for *Aglaonema* production. *Communications in Soil Science and Plant Analysis*. 40:2673-2687.

Wilson, P.C. and S.B. Wilson. 2010. Effects of bromacil and simazine on growth and reproduction of *Vallisneria americana*. *Environ. Toxicol. Chem.* 29:201-211.

Irani, T., G. Roberts, S.B. Wilson, and E.B. Rhoades. 2009. Evaluation of the effect of multi-site distance education on knowledge gained in a plant propagation course. *Quarterly Review of Distance Education*. 10:27-36.

Valero-Aracama\*, C., M.E. Kane, S.B. Wilson, and N.L. Philman. 2008. Comparative growth, morphology and anatomy of easy- and difficult-to acclimatize sea oats (*Uniola paniculata*) genotypes during in vitro culture and ex vitro acclimatization. *J ASHS*. 133:830-843.

Wilson, S.B., K.L. Muller, J.A. Gersony, and B.T. Scully. 2008. The linear garden: A unique, inexpensive and effective way to facilitate plant identification and roadside beautification. *HortTechnology*. 18:318-319.

H.E. Danielson\*, R.K. Schoellhorn, S.B. Wilson, and J.G. Norcini. 2007. Use of plant growth regulators for producing more compact blanketflower. *HortTechnology*. 17:552-556.

Tignor, M.E., S.B. Wilson, G.A. Giacomelli, C. Kubota, E. Fitz\*, T.A. Irani, E. Rhoades, and M.J. McMahon. 2007. Multi-institutional cooperation to develop digital media for interactive greenhouse education. *HortTechnology*. 17:397-399.

Xia, Y.P., P.J. Stoffella, Z.L. He, M.K. Zhang, D.V. Calvert, X. Yang and S.B. Wilson. 2007. Leaching potential of heavy metals, nitrogen, and phosphate from compost - amended media. *Compost Science & Utilization*. 15(1):29-33.

H.E. Danielson,\* J.G. Norcini, S.B. Wilson, R.K. Schoellhorn, and D.L. Miller. 2007. Growth, flowering, and survival of firewheel (*Gaillardia pulchella* Foug.) based on seed source and growing location. *J. Native Plants*. 8:25-39.

Valero-Aracama, C., S.B. Wilson, M.E. Kane, and N.L. Philman. 2007. Influence of in vitro growth conditions on in vitro and ex vitro photosynthetic rates of easy- and difficult-to-acclimatize sea oats (*Uniola paniculata* L.) genotypes. *In vitro Cell. Dev. Biol. Plant*. 43:237-246.

Valero-Aracama, C., M.E. Kane, S.B. Wilson, J.C. Vu, J. Anderson, and N.L. Philman. 2006. Photosynthetic and carbohydrate status of easy- and difficult-to-acclimatize sea

oats (*Uniola paniculata* L.) genotypes during in vitro culture and ex vitro acclimatization. *In vitro Cell. Dev. Biol. Plant.* 42:572-583.

Wilson, S.B. and G.W. Knox. 2006. Landscape performance, flowering, and seed viability of fifteen *Miscanthus sinensis* taxa grown in northern and southern Florida. *HortTechnology.* 24:137-142

Wilson, S.B. and P.J. Stoffella. 2006. Using compost for container production of ornamental wetland and flatwood species native to Florida. *J. Native Plants.* 7:293-300.

Wilson, S.B., L.K. Mecca, H.E. Danielson, D.A. Graetz, and P.J. Stoffella. 2006. Container and field evaluation of three native shrubs grown in compost-based media. *Compost Science & Utilization.* 14(3):178-183.

Knox, G.W. and S.B. Wilson. 2006. Evaluating north and south Florida landscape performance and fruiting of ten cultivars and a wildtype selection of *Nandina domestica*, a potentially invasive shrub. *J. Environ. Hort.* 24:137-142.

Wilson, P.C., S.B. Wilson, and D. Haunert. 2006. Toxicity of Norflorazon to the Aquatic macrophyte *Vallisneria americana* (Michz.) *J. Toxicol. Environ. Health.* 69:1167-1179.

Xia, Y., H.E. Zhen-Li, P.J. Stoffella, D.V. Calvert, Z. Ming-Kui, Y. Xiae-E, and S.B. Wilson. 2005. Effect of compost amendment on heavy metals, nitrogen and phosphorus in a peat-based container medium. *Pedosphere.* 15:792-796.

Wilson, S.B. and H.E. Danielson. 2005. Interactive virtual plant identification and use. *Hort Technology.* 15:729-730.

Wilson, P.C., P.D. Strimple, S.B. Wilson, and J.P. Albano. 2005. Non-target deposition of methiocarb applied to a foliage plant staging area. *Bull. Environ. Contamin. Toxicol.* 74:509-517.

Wilson, S.B., M. Thetford, L.K. Mecca, and J.S. Raymer. 2004. Evaluation of 14 *Buddleja* taxa grown in western and southern Florida: I. Visual quality, growth and development. *HortTechnol.* 14:605-612.

Wilson, S.B., M. Thetford, L.K. Mecca, J.S. Raymer, and J. Gersony. 2004. Evaluation of 14 *Buddleja* taxa grown in western and southern Florida: II. Seed production and germination. *HortTechnol.* 14:612-618.

Wilson, S.B., P.J. Stoffella, L.K. Mecca, and D.A. Graetz. 2004. Compost utilization for containerized production of ornamental hammock species native to Florida. *J. Native Plants.* 5:186-194.

Wilson, S.B., P.C. Wilson, and J.A. Albano. 2004. Growth and development of the native *Ruellia caroliniensis* and invasive *Ruellia tweediana*. *HortScience*. 39:1015-1019.

Wirth, F.F., K.J. Davis, and S.B. Wilson. 2004. Florida nursery sales and economic impacts of 14 potentially invasive ornamental plant species. *J. Environ. Hort.* 22:12-16.

Zhang, M.K., Z.L. He, P.J. Stoffella, D.V. Calvert, X.E. Yang, Y.P. Xia, and S.B. Wilson. 2004. Solubility of phosphorus and heavy metals in potting media amended with yard waste-biosolids compost. *J. Environ. Quality*. 33:373-379.

Wilson, P.C., S.B. Wilson, and P.J. Stoffella. 2003. Pesticide screening in a commercial yard waste:biosolid compost. *Compost Science & Utilization*. 11:282-288.

Moller, D. and S.B. Wilson. 2003. Characterizing potential invasiveness of fourteen *Buddleja* cultivars in South Florida. *J. Undergrad. Ed.* 5(2):1-12.

Wilson, S.B. and L.A. Mecca. 2003. Seed production and germination of eight cultivars and the wild type of *Ruellia tweediana*: A potentially invasive ornamental. *J. Environ. Hort.* 21:137-143.

Wilson, S.B. and M. Thetford. 2003. A new strategy for teaching plant propagation by distance education. *HortTechnology*. 13:577-578.

Wilson, S.B., P.J. Stoffella, D.A. Graetz. 2003. Compost amended media and irrigation system influence containerized perennial salvia. *J. Amer. Soc. Hort. Sci.* 128: 128:260-268.

Adkins, S., L. Breman, C.A. Baker, and S.B. Wilson. 2003. First Report of *Tomato spotted wilt virus* in Blackberry Lily in North America. *Plant Disease*. 87:102.

Kubota, C., M. Ezawa, S.B. Wilson, and T. Kozai. 2002. In situ estimation of carbon balance of in vitro sweet potato and tomato plantlets cultured with varying initial sucrose concentrations in the medium. *J. Amer. Soc. Hort. Sci.* 127:963-970.

Wilson, S.B., P.J. Stoffella, and D.A. Graetz. 2002. Development of compost-based media for containerized perennials. *Scientia Hort.* 93:311-320.

Tignor, M.E., S.B. Wilson, and P.C. Wilson. 2002. Development of an undergraduate plant science course promoting environmental awareness, native flora, and critical thinking skills. *NACTA Journal*. 46(1):26-32.

Wilson, S.B. and N.C. Rajapakse. 2001. Use of photoselective plastic films to control growth of three perennial salvias. *J. Applied Hort.* 3:71-74.

Wilson, S.B. and N.C. Rajapakse. 2001. Use of photoselective plastic films to control growth of Lisianthus. *HortTechnology*. 11:581-584.

Wilson, S.B. and N.C. Rajapakse. 2001. Growth regulation of sub-tropical perennials by photoselective plastic films. *J. Environ. Hort.* 19:65-68.

Wilson, S.B., N.C. Rajapakse, and R.E. Young. 2001. Carbohydrate status and post storage recovery of micropropagated hosta plantlets stored at varying temperatures in light or darkness. *Acta Hort.* 543:265-273.

Wilson, S.B., P.J. Stoffella, and D.A. Graetz. 2001. Use of compost as a media amendment for containerized production of two sub-tropical perennials. *J. Environ. Hort.* 19:37-42.

H. Jeongwook, S.B. Wilson, and T. Kozai. 2001. A forced ventilation micropropagation system for photoautotrophic production of sweetpotato plug plantlets in a scaled-up culture vessel. I. Growth and uniformity. *HortTechnology* 11:90-94.

Wilson, S.B., H. Jeongwook, C. Kubota, and T. Kozai. 2001. A forced ventilation micropropagation system for photoautotrophic production of sweetpotato plug plantlets in a scaled-up culture vessel. II. Carbohydrate status. *HortTechnology* 11:95-99.

Wilson, S.B., P.J. Stoffella, and D.A. Graetz. 2001. Evaluation of compost as an amendment to commercial mixes used for container-grown golden shrimp plant production. *HortTechnology* 11:31-35.

Wilson, S.B., P.J. Stoffella, and D.A. Graetz. 2001. Compost-amended media for growth and development of Mexican heather. *Compost Science & Utilization* 9 (1):60-64.

Wilson, S.B., C. Kubota, and T. Kozai. 2000. Effects of medium sugar on growth and carbohydrate status of sweetpotato and tomato plantlets in vitro. In C. Kubota and C. Chun, eds. *Transplant production in the 21<sup>st</sup> century*. Kluwer academic publishers, Dordrecht, The Netherlands.

Wilson, S.B., N.C. Rajapakse, and R.E. Young. 2000. Use of low temperature to improve storage of in vitro broccoli seedlings under various light qualities. *J. Veg. Crop Prod.* 6(2):51-67.

Wilson, S.B., N.C. Rajapakse, and R.E. Young. 2000. Media composition and light affect storability and post storage recovery of micropropagated hosta plantlets. *HortScience* 35:1159-1162

Wilson, S.B., K. Iwabuchi, N.C. Rajapakse, and R.E. Young. 1998. Responses of broccoli seedlings to light quality during low temperature storage in vitro. I. Morphology and survival. *HortScience* 33:1253-1257.

Wilson, S.B., K. Iwabuchi, N.C. Rajapakse, and R.E. Young. 1998. Responses of broccoli seedlings to light quality during low temperature storage in vitro. II. Sugar content and photosynthetic efficiency. HortScience 33:1258-1261.

### Conference Proceedings/Reports

Wilson, S.B. 2020. Expanding our plant palette: The role of natives and non-invasive cultivars. Proc. Fla. State Hort. Soc. Keynote address, 133:xx-xxiv.

Ginori, J.\*, H. Hequian, and S.B. Wilson. 2020-2021. Protocol development for genome size estimation of Begonia accessions. Florida Society of Horticulture Sciences Annual Conference (Virtual). Oct. 19. (poster). Proc. Fla. State Hort. Soc., Scientific note: 133:179.

Moffis, B., B. Iannone, W. Wilber, A. Dale, B. Unruh, J. Rycyna, S.B. Wilson. 2020-2021. Multispecies lawns: an alternative strategy for water conservation and ecosystem functions. Florida Society of Horticulture Sciences Annual Conference (Virtual). Oct. 19. (poster). Proc. Fla. State Hort. Soc., Scientific note: 133-181-182. <http://fshs.org/wp-content/uploads/2021/05/2020-FSHS PROC FINAL.pdf>

Deng, Z., S.B. Wilson, and D. Czarnecki\*. 2020-2021. 'UF-1013-1': An infertile cultivar of *Lantana camara*. Proc. Fla. State Hort. Soc. 133:183-188.

Quian, R., S. Brooks\*, S.B. Wilson, G.W. Knox and Z. Deng. 2020-2021. Morphological and cytological characterization of five porterweed (*Stachytarpheta*) selections. Proc. Fla. State Hort. Soc. 133:189-194.

Steppe, C., S.B. Wilson, Z. Deng, K. Druffel, and G.W. Knox. 2019. Morphological and cytological comparisons of eight varieties of trailing lantana. Proc. Fla. State Hort. Soc. In press.

Kalaman, H., G.W. Knox, S.B. Wilson, and W. Wilber. 2019. A master gardener survey: Promoting pollinator-friendly plants through education and outreach. Proc. Fla. State Hort. Soc. In press.

Trigiano, R.N., S.B. Wilson, and C.N. Steppe. 2018. Whorled sunflower (*Helianthus verticillatus*)—A potential landscape plant. Comb. Proc. Intern. Plant Prop. Soc. 68: <http://www.ips.org/proceedings-volume/whorled-sunflower-helianthus-verticillatus-a-potential-landscape-plant/110>

Xu, J., Z. Deng, and S.B. Wilson. 2018. Progress in genetic sterilization of *Lantana camara* through ploidy manipulation. Proc. Fla. State Hort. Soc.

Wilson, S.B., F.T. Davies, and R. Geneve. 2017. Hartmann and Kester's Principles and Practices of Plant Propagation: A Sneak Preview of the 9th Edition. Comb. Proc. Intern. Plant Prop. Soc. 67. 1212, 291-296. DOI: 10.17660/ActaHortic.2018.1212.68

Campbell-Martinez, G., N. Hooton, M. Thetford, D. Miller and S. Wilson. 2017. Propagating and out planting Florida panhandle coastal *Chrysopsis* spp. Comb. Proc. Intern. Plant Prop. Soc. 67: ActaHortic. 1212, 357-360. DOI: 10.17660/ActaHortic.2018.1212.82

Krueger, K., S.B. Wilson, K. Moore, G.W. Knox, and Z. Deng. 2013. National ornamental grass trial-University of Florida, Ft. Pierce 1<sup>st</sup> year results. Proc. South. Nurs. Assoc. 58:184-186.

Freyre R, A. Moseley, C. Reinhardt-Adams, A.G.W. Knox, S.B. Wilson and Z. Deng. 2013. Breeding *Ruellia* spp. at the University of Florida. Proc. VIIth International Symposium on New Floricultural Crops. Eds.: G. Facciuto and M.I. Sanchez. Acta Hort. 1000:423-428.

Freyre, R., S.B. Wilson, and G.W. Knox. 2014. Breeding *Ruellia* and trialing for sterility at the University of Florida. Combined Proceedings International Plant Propagators Society. Acta Hort 1055:431-435. <https://doi.org/10.17660/ActaHortic.2014.1055.91>

S.B. Wilson. 2012. A new online multiple entry key for identifying plant families. Proc. South. Nurs. Assoc. 57:225-228.

Wilson, S.B. and G.W. Knox. 2011. Landscape performance and invasive potential of 12 *Ligustrum sinense*, *Ligustrum lucidum* and *Ligustrum japonicum* cultivars grown in north and south Florida. Proc. South. Nurs. Assoc. 56:361-367

Stoffella, P.J., Z.L. He, S.B. Wilson, M. Ozores-Hampton and N.E. Roe 2014. Compost utilization in subtropical horticultural cropping systems Proc 1<sup>st</sup> IS on Organic Matter Management and Compost in Horticulture. Acta Hort. 1018, ISHS, 95-108.

Wilson, S.B., G.W. Knox, Z. Deng, and R. Freyre. 2010. Non-invasive alternatives to *Stachytarpheta cayennensis* (Nettleleaf porterweed) grown in north and south FL. Proc. South. Nurs. Assoc. 55:1-5.

Heather, A.E., H.E. Pérez, and S.B. Wilson. 2009. Alleviating seed dormancy of two native wildflowers: *Polygonella polygama* and *Polygonella robusta*. Proc. South. Nurs. Assoc. 54:435-441.

Heather, A.E., S.B. Wilson, H.E. Pérez, and M. Thetford. 2009. Vegetative propagation of two Florida native wildflower species: *Polygonella polygama* and *Polygonella robusta*. Comb. Proc. Int. Plant Prop. Soc. 59:114-121.

Knox, G.W., S. Park Brown, S.B. Wilson, K. Muller, J. Mangandi, and J. Aldrich. 2009. Initial Performance of 12 Roses Grown in North, Central and South Florida under Low Maintenance Conditions. *Proc. South. Nurs. Assoc.* 54:245-249.

Thetford, M., A.E. Heather, H.E. Perez, and S.B. Wilson. 2008. Propagation of wildflowers from wild-collected seeds or cuttings. *Comb. Proc. Int. Plant Prop. Soc.* 58:555-560.

Wilson, S.B. and G.W. Knox. 2008. Ornamental performance of 10 fountain grass taxa grown in north and south Florida. *Proc. South. Nurs. Assoc.* 53:105-110.

Hammond, H.D., R.K. Schoellhorn, S.B. Wilson, and J.G. Norcini. 2007. Evaluation of *Gaillardia* cultivars and ecotypes for landscape performance in north central Florida. *Proc. South. Nurs. Assoc.* 52:10-12.

Tignor, M.E., G.A. Giacomelli, S.B. Wilson, C. Kubota, E. Fitz, T.A. Irani, E. Rhoades, and M.J. McMahon. 2006. Development of a web-based multi-media resource for environmental control modeling and greenhouse education. *Acta Hort.* 719:303-310.

Hammond, H.D., R.K. Schoellhorn, S.B. Wilson, and J.G. Norcini. 2006. Use of florel and sumagic to control the growth of torch blanketflower (*Gaillardia pulchella* Foug. 'Torch'). *Proc. South. Nurs. Assoc.* 51:342-344.

Wilson, S.B., G.W. Knox, and L.K. Mecca. 2005. Evaluating fifteen *Miscanthus sinensis* taxa in north and south Florida. *Proc. South. Nurs. Assoc.* 50:554-558.

Valero-Aracama, C., S.B. Wilson, M.E. Kane, and N.L. Philman. 2004. Starch utilization during *in vitro* rooting of easy- and difficult-to-acclimatize sea oats (*Uniola paniculata* L.) genotypes. *Comb. Proc. Inter. Plant Prop. Soc.* 54: 22-27.

Danielson, H.E., S.B. Wilson, R.K. Schoellhorn, and P.J. Stoffella. 2004. Container and field-evaluation of *Gaillardia pulchella* production in compost-based media. *Comb. Proc. Inter. Plant Prop. Soc.* 54:77-82.

Wilson, S.B., L.A. Krumfolz, and J.A. Gersony. 2004. Design, development and use of an ornamental teaching garden at the Indian River Research and Education Center, University of Florida. *Acta Hort.* 641:137-143. Refereed.

Wilson, S.B., M. Thetford, and W. Vendrame. 2004. Restructuring a plant propagation course for distance education. *Acta Hort.* 641:111-116. Referred.

Wilson, S.B., L.K. Mecca, and P.J. Stoffella. 2004. Evaluation of compost as a viable medium amendment for containerized perennial production. *Acta Hort.* 659:697-703.

Knox, G.W., S.B. Wilson, and L.K. Mecca. 2004. Evaluating eleven *Nandina domestica* taxa in north and south Florida. *Proc. South. Nurs. Assoc.* 49:555-559.

Wilson, S.B., T.M. Minton, L.K. Mecca, and J. Gersony. 2004. Ornamental teaching gardens: design, development, and use. EDIS publication, University of Florida.

Wilson, S.B. 2003. Characterizing invasive ornamental species of Florida. Proc. Inter. Plant Prop. Soc. 53:40-44.

Mecca, L.K., S.B. Wilson, M. Thetford, J.S. Raymer, and E.L. Barnett. 2003. Assessing visual quality, growth and seed production of 14 *Buddleja* cultivars grown in west and south Florida. Proc. South. Nursery Assoc. 48:68-71.

Wirth, F.F., K.J. Davis, and S.B. Wilson. 2003. Market Analysis of 14 Potentially Invasive Ornamental Plant Species in Florida. Economic Information Report, University of Florida. EIR 03-1, March.

Thetford, M. and S.B. Wilson. 2002. Integrating web technology with traditional teaching of plant propagation. Proc. Inter. Plant Prop. Soc. 52.

Zansler, M.L., S.B. Wilson, and S.D. Thornsby. 2002. Florida's ornamental plant industry: an estimation of profitability. Proc. South. Nursery Assoc. 47:557-560.

Davis, K.J., F.F. Wirth, and S.B. Wilson. 2002. Florida Nursery Sales of 14 Potentially Invasive Ornamental Plant Species. Proc. South. Nursery Assoc. 47:557-560.

Valero-Aracama, C., M.E. Kane, S.B. Wilson, and N.L. Philman. 2002. Genotypic differences of in vitro propagated Sea Oats (*Uniola paniculata* L.). Proc. South. Nursery Assoc. 47:357-360.

Albano, J.A., P.C. Wilson, and S.B. Wilson. 2002. The effects of irrigation water alkalinity on production of Thryallis (*Galphimia glauca*). Proc. South. Nursery Assoc. 47:51-55.

Wilson, P.C., P. Strimple, S.B. Wilson and J.A. Albano. 2002. Methiocarb deposition and dissipation at a South Florida ornamental nursery. Proc. South. Nursery Assoc. 47:580-584.

Krumfolz, L.A. and S.B. Wilson. 2002. Assessing the reproductive potential of *Ruellia brittoniana* cultivars. Proc. South. Nursery Assoc. 47:99-103.

Xia, Y.P., M.K. Zhang, X.E. Yang, Z.L. He, P.J. Stoffella, and S.B. Wilson. 2002. Effects of compost amendment on concentrations and extractability of heavy metals, nitrate, and phosphate in peat-based media. Proc. Composting in the Southeast Conference and Exposition.

Wilson, S.B. and M. Thetford. 2001. The integration of traditional teaching and distance delivery of plant propagation statewide. Proc. Inter. Plant Prop. Soc. 51:83-85.

Wilson, S.B., N.C. Rajapakse, and R.E. Young. 2001. Carbohydrate status and post storage recovery of micropropagated hosta plantlets stored at varying temperatures in light or darkness. *Acta Hort.* 543:265-273. Refereed.

Krumfolz, L.A., S.B. Wilson, and N.C. Rajapakse. 2001. Growth control of *Salvia* x 'Indigo Spires' by photoselective plastic films. *Proc. Fla. State Hort Soc.* 114.

Wilson, S.B. and P.C. Wilson. 2001. Assessment of germination, nutrient uptake and photosynthetic efficiency for evaluating the potential invasiveness of *Ruellia brittoniana*. *Proc. Fla. State Hort. Soc.* 114.

Wilson, S.B. and P.C. Wilson. 2001. Characterizing the potential invasiveness of ornamental plants in the Florida landscape. *Proc. Southern Nursery Assoc.* 46:472-475.

Wilson, S.B. and N.C. Rajapakse. 2000. Growth regulation of golden shrimp plant by photoselective plastic films. *Proc. Southern Nursery Assoc.* 45:279-283.

Krumfolz, L.A., S.B. Wilson, and P.J. Stoffella. 2000. Use of compost as a media amendment for containerized production of the perennial, Cat Whiskers. *Proc. Southern Nursery Assoc.* 45:68-72

Minton, T.M. F.F. Wirth, and S.B. Wilson. 2000. Florida's changing foliage industry: 1987-1997. *Proc. Southern Nursery Assoc.* 45:505-508.

Wilson, S.B. and S.D. Thornsby. 2000. Incorporation of peer learning in an agricultural curriculum. *Teaching and Learning Paper TLP00-13*, University of Florida.

Tignor, M.E., S.B. Wilson. 1999. Sowing the seeds of a new horticultural sciences teaching program. *Proc. Fla. State Hort. Soc.* 112:255:260.

Kubota, C., M. Ezawa, S.B. Wilson, and T. Kozai. 1998. Carbon balance of tomato and sweetpotato plantlets cultured with different initial sucrose concentrations in the medium. *Jap. Soc. Environ. Cont. Biol.* 1:313-314.

Wilson, Sandra B., C. Ray, N.K.D. Ranwala, K. Brock, B.A. Fortnum, and D.R. Decoteau. 1996. Methyl bromide alternatives in fresh market tomato production. *Clemson University Vegetable Report.* 7:45-47.

Decoteau, D.R., S.B. Wilson, C.L. Ray, and H.H. Graham. 1996. A plant physiologist's view of the perception of light and color by plants. *Proc. 26<sup>th</sup> Nat. Ag. Plastics Con.* 158-163.

Adelberg, J. S. Wilson, K. Iwabuchi, and R. Young. 1996. Research on micropropagation of ornamental crops: the automated laboratory. Clemson University Professional Turf Grass and Landscape Update. 23.

Wilson, Sandra B., K.H. Brock, B.A. Fortnum, and D.R. Decoteau. 1994. Alternatives to methyl bromide fumigation in tomato production. Clemson University Vegetable Report. 6:79-80.

Decoteau, D.R., D. Ranwala, M.J. McMahon, and S.B. Wilson. 1994. The Lettuce Growing Handbook. McDonald's Corporation.

### **Peer Reviewed IFAS Extension/EDIS Publications**

Malakhova, O., W.L. Wilber, S.B. Wilson, K.A. Russo, J.C. Jones, B.L. Moffis, B.V. Iannone. 2022. Getting Into the “weeds”: An Introduction to common lawn plants and their ecological benefits in North Central Florida. EDIS publication, University of Florida, IFAS. In press.

McIntyre, T., R. Gutner, and S. Wilson. 2021. Concepts for sustainable landscape mosaics. EDIS publication, University of Florida, IFAS. ENH1341  
[doi.org/10.32473/edis-EP605-2021](https://doi.org/10.32473/edis-EP605-2021).

Ginori, J., H. Huo, Z. Deng, and S.B. Wilson. 2022a. A beginner's guide to Begonias: Seed propagation. EDIS publication, University of Florida, IFAS.  
<https://edis.ifas.ufl.edu/publication/EP619>.

Ginori, J., H. Huo, Z. Deng, and S.B. Wilson. 2022b. A beginner's guide to Begonias: Cutting propagation. EDIS publication, University of Florida, IFAS.  
<https://edis.ifas.ufl.edu/publication/EP621>.

Lian, Z., H. Huo, S.B. Wilson, and J. Chen. 2020. Development of a model mutagenesis system for snapdragon. EDIS publication, University of Florida, IFAS. ENH1320. <https://edis.ifas.ufl.edu/ep584>.

Adams, C.A., C. Wiese, L.C. Lee, S.B. Wilson, A. Smith, and R. Freyre. 2018, 2014. Managing Mexican petunia (*Ruellia simplex* C. Wright) in the home landscape. EDIS publication, University of Florida, IFAS. ENH1237. <http://edis.ifas.ufl.edu/EP498>

Knox, G.W. and S.B. Wilson. 2018, 2009. 'Firepower' nandina (*Nandina domestica*): A noninvasive nandina for Florida. EDIS publication, University of Florida, IFAS. ENH1116/EP381. <http://edis.ifas.ufl.edu/EP381>

Knox, G.W., S.B. Wilson, Z. Deng, and R. Freyre. 2018, 2013. Alternatives to invasive plants commonly found in north Florida landscapes. EDIS publication, University of Florida, IFAS. ENH1206. <http://edis.ifas.ufl.edu/ep467>

Knox, G.W., R. Freyre, S.B. Wilson and Z. Deng. 2018, 2013. Alternatives to invasive plants commonly found in central Florida landscapes. EDIS publication, University of Florida, IFAS. ENH1207. <http://edis.ifas.ufl.edu/ep468>.

Knox, G.W., S.B. Wilson, Z. Deng, and R. Freyre. 2018, 2013. Alternatives to invasive plants commonly found in south Florida landscapes. EDIS publication, University of Florida, IFAS. ENH1222. <http://edis.ifas.ufl.edu>

Wilson, S.B., J.A. Gersony, K.L. Nolan, J.C. Broda, and E.A. Skvarch. 2021, 2017, 2014, 2013. Recommended native landscape plants for Florida's Treasure Coast. ENH1082. <http://edis.ifas.ufl.edu/ep348>

Deng, Z. and S.B. Wilson. 2017. 'Bloomify Red' and 'Bloomify Rose' two infertile Lantana camara cultivars for production and use in Florida.

<http://edis.ifas.ufl.edu/ep544>. EP544.

Hupp, K.S., A.M. Fox, S.B. Wilson, E.L. Barnett, and R.K. Stocker. 2016, 2013, 2009. Natural area weeds: Mexican petunia (*Ruellia tweediana*). EDIS publication, University of Florida, IFAS. ENH1155. <http://edis.ifas.ufl.edu/ep415>.

Knox, G.W. and S.B. Wilson. 2016, 2010. 'Harbour Dwarf' nandina (*Nandina domestica*): Noninvasive in south Florida and recommended with caution in central and north Florida. EDIS publication, University of Florida, IFAS. ENH1158. <http://edis.ifas.ufl.edu/ep418>.

Deng, Z., D.M. Czarnecki II, S.B. Wilson, G.W. Knox, and R. Freyre. 2015, 2012. UF-T3 and UF-T4: Two sterile *Lantana camara* varieties. <http://edis.ifas.ufl.edu/ep463>. ENH1202.

Wilson, S.B., T.M. Minton, L.K. Mecca, and J.A. Gersony. 2003. Ornamental teaching gardens: Design, development, and use. EDIS Publication FE469, University of Florida, IFAS. <http://edis.ifas.ufl.edu/FE469>

## Non Refereed Trade Journals

A.M. Smith, C.R. Adams, S.B. Wilson. 2014. Mexican petunia (*Ruellia simplex*) invasions: management challenges and research opportunities. *Wildland Weeds*. Spring. 16:20-22.

Norcini, J., A. Frances, S. Wilson, K. Muller, D. Miller, D. Gordon, and C. Reinhardt-Adams. 2007. Glyphosate is an effective tool for initial establishment of native wildflowers. *Better Roadsides Magazine*. 77:8-12.

Wilson, S.B. and P.J. Stoffella. 2005. Evaluation of compost as a viable medium amendment for containerized ornamental production. *Ornamental Outlook*. 14(8):24-25.

Rajapakse, N.C. and S.B. Wilson. 2002. Photoselective greenhouse films can control growth. *GMPro*. 22(4):52-59.

Wilson, S.B., P.J. Stoffella, and L.A. Krumfolz. 2001. Containerized perennials make good use of compost. *BioCycle*. 42:59-61.

Wilson, S.B. and N.C. Rajapakse. 2001. Using plastic films to regulate perennial growth. *American Nurseryman*. 194(8):50

Wilson, S.B., L.A. Krumfolz, and P.J. Stoffella. 2001. Capitalizing with compost. *Ornamental Outlook*. 10(10):24.

Wilson, S.B., L.A. Krumfolz, and P.J. Stoffella. 2001. Research shows compost a viable growing medium. *American Nurseryman*. 194(1):16.

Wilson, S.B., L.A. Krumfolz, and N.C. Rajapakse. 2001. Photoselective films for height control. *Ornamental Outlook*. 10(10):12-13.

N.C. Rajapakse, T. Cerny, and S.B. Wilson. 2000. Photoselective greenhouse covers for plant growth regulation. *Flower Tech Magazine*. 3(8):32-38.

## Abstracts

C. Lewis, E. Momol, T. Wichman, J. Bossart, C. Kavalan, J. Daniels, S.B. Wilson, C. Marble, J. Unruh and W. Wilber. 2022. Mobile Web Apps Promote Florida-Friendly Landscaping™. *HortScience* (poster).

Moffis, B., Wilber, W., Dale, A., Unruh, B., Rycyna J., Wilson, S. and Iannone, B. Multispecies lawns: an alternative strategy for lawn resiliency and ecosystem functions. Water Institute Symposium. Accepted for 2022.

Moffis, B., Wilber, W., Dale, A., Unruh, B., Rycyna J., Wilson, S., and Iannone, B. Multi-species lawns support pollinator diversity in an urban landscape. Forestry, Fisheries, and Geomatic Sciences Research Symposium. (2021) Virtual (Contributed; Oral).

Kalaman, H.\* S.B. Wilson, R.E. Mallinger, K. Begcy, and G.W. Knox. 2021. Pollinator-friendly proclamations: Evaluating the pollen and nectar content of native and non-native ornamentals in Florida. Oral. *HortScience* 56(9):S245. (Abstr.).  
<https://journals.ashs.org/hortsci/view/journals/hortsci/56/9S/hortsci.56.issue-9S.xml?rskey=0yCwEu>

Smith, T., S.B. Wilson, C. Marble, JJ. Xian, 2021. Propagation of *Vachellia farnesiana* (Sweet Acacia): A Native with Ornamental Potential. HortScience 56(9):S159. (Abstr.). <https://journals.ashs.org/hortsci/view/journals/hortsci/56/9S/hortsci.56.issue-9S.xml?rskey=0yCwEu>.

Campbell-Martinez\*, G., M. Thetford, S.B. Wilson, C. Gomez, and D. Miller. 2020. Effects of container type, substrate type, and fertilizer rate on growth of sandhill milkweed (*Asclepias humistrata*). Oral. HortScience 55(9):S259. (Abstr.). <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Person/37536>

Wilson, S.B. 2020. Continued cultivar evaluation of the invasive ornamental *Nandina domestica*. Oral. <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/34101>

Lian, Z. \*, S.B. Wilson, J. Chen and H. Huo. 2020. Efficient plant regeneration and *Agrobacterium*-mediated genetic transformation of *Antirrhinum majus*. Oral. <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/33215>.

Lian, Z. \*, S.B. Wilson, J. Chen, H. Huo. 2020. Efficient shoot regeneration and transformation from cotyledon and hypocotyl callus of *Antirrhinum majus* "Sippe". Soc In Vitro Biol.

Creech, M., H. Baz, A. Plontke, S.B. Wilson, J. Chen, R. Shang, R. Kjelgren and H. Huo. 2020. Enhanced rooting for begonia propagation by the application of soluble carbon-nanoparticles. E-poster. <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/33527>.

Qian, R., S.B. Parrish\*, S.B. Wilson, and Z. Deng. 2020. Morphological and cytological characterization of six porterweed selections. International Plant Propagators Society Conference Proceedings. First place winner. ActaHort. 70:22-28.

Kalaman, H., S.B. Wilson, R.E. Mallinger, and G.W. Knox. 2020. Evaluating floral attraction for foraging bee communities in native and non-native garden plots. (oral and e-poster). <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/32971>.

Rycnya, J., S.B. Wilson, Z. Deng, G. Knox and B. Iannone. 2020. Evaluation of 25 *Nandina domestica* (heavenly bamboo) cultivars for invasive potential in Florida. (e-poster)

Moffis, B., Iannone, B., Wilber, W., Dale, A., Unruh, B., Rycnya, J., and Wilson, S. 2020. Multispecies lawns: an alternative strategy for water conservation and ecological enhancement. American Society of Horticulture Sciences Annual Conference (Virtual). Aug. 13. <https://ashs.confex.com/ashs/2020/meetingapp.cgi/Paper/33703> (e-poster)

Trigiano, R.N., S.B. Wilson, and C.N. Steppe. 2019. *Helianthus verticillatus* – A potential landscape plant. HortSci. Abstract. (oral)

Steppe, C., S.B. Wilson, and Z. Deng. 2019. Evaluation of invasive potential of *Lantana montevidensis*. Proceedings Florida State Horticulture Society, Orlando, FL. (abstract, paper and oral presentation).

Steppe, C., S.B. Wilson, Z. Deng, K. Druffel, and G. Knox. 2019. Landscape performance and fruiting of 8 *Lantana montevidensis* selections grown in north and south Florida. Center for Landscape Conservation and Ecology Research Summit. Abstract, poster and oral contribution.

Steppe, C., C. Peterson, and S.B. Wilson. 2019. Seed Propagation of *Paronychia chartacea* ssp. *chartacea*. Rare Plant Task Force Conference. Jacksonville, FL. (oral presentation)

Steppe, C., S.B. Wilson, Z. Deng, and G. Knox. 2019. Landscape performance and invasive potential of 8 *Lantana montevidensis* cultivars grown in north and south Florida. Florida Exotic Pest Plant Council. Abstract and poster.

Kalaman, H, G. Knox and S.B. Wilson. 2019. Promoting research-verified pollinator plants to enhance overall pollinator health. HortTechnology. Submitted.

Wilson, S.B., R. Geneve, and F.T. Davies. 2018. New Online Supplemental Resources for Hartmann and Kester's Plant Propagation: Principles and Practices, 9<sup>th</sup> Edition. HortScience. Conference program book, p 49.

Steppe, C., S.B. Wilson, M. Thetford, and H. Pérez. 2018. Propagation and evaluation of *Balduina angustifolia*, a native wildflower with ornamental and ecosystem value. HortScience. Conference program book, p 104.

Deng, Z, S.B. Wilson, G.W. Knox, and R. Freyre. 2018. Genetic sterilization of Lantana camera to produce infertile, non-invasive cultivars. HortScience. Conference program book, p 65.

Steppe, C., S.B. Wilson, M. Thetford and H. Perez. 2018. Propagation and evaluation of *Balduina angustifolia*, a native wildflower with ornamental and ecosystem value. Urban Landscape Summit, Gainesville, FL. (poster and oral presentation- 1<sup>st</sup> place recipient).

Steppe, C., S.B. Wilson, M. Thetford and H. Perez. 2018. Germination, flowering and landscape performance of two candidate wildflowers. Florida Native Nursery Conference, Tampa, FL. (oral presentation).

Wilson, S.B., F.T. Davies, and R. Geneve. 2017. Reflections on nearly sixty years of changes for the textbook "Plant Propagation: Principles and Practices. HortScience.

Bechtloff, A., C. Reinhardt Adams, S. B. Wilson, and Z. Deng. 2017. Effective application of sterile cultivar development to limit invasive ornamental plant impact:

Producer-driven research in the southeastern US. Proceedings of the 2017 Annual Conference, Florida Exotic Pest Plant Council (FLEPPC), 12-14 April 2017, Melbourne, Florida; abstract, p. 21.

Bechtloff, A., C. Reinhardt Adams, S.B. Wilson, and Z. Deng. 2017. Producers Value Sterile Cultivar Research for Potentially Invasive Plants for the Horticulture Industry in the southeastern United States. Proceedings of the 2017 Annual Urban Landscape Summit, Center for Landscape Conservation and Ecology (CLCE), 16-17 March 2017, Gainesville, Florida; abstract, p. 15.

Deng, Z., S.B. Wilson, G. Knox, and R. Freyre. 2017. Development and releasing of infertile, non-invasive *Lantana camara* cultivars. Proc. Florida State Hort Soc. Tampa, FL.

Albano, J., J. Altland, D. Merhaut, S. Wilson, and P. Wilson. 2017. Irrigation water acidification to neutralize alkalinity for nursery crop production: Substrate pH, electrical conductivity, and nutrient concentrations; and plant nutrition and growth. HortScience.

Fetouh, M.I., A. Kareem, G.W. Knox, S.B. Wilson, and Z. Deng. 2016. Induction, identification, and characterization of tetraploids in Japanese privet (*Ligustrum japonicum*). HortScience. 51:1371-1377.

Deng, Z., D.M. Czarnecki II, X. Ying, S.B. Wilson, R. Freyre, and G.W. Knox. 2016. Progress in assessing and controlling the invasive potential of *Lantana camara*. Florida Exotic Pest Plant Council 2016 Annual Conference Program Book, page 15-16. Melbourne, FL, March 9-11, 2016.

Deng, Z., D.M. Czarnecki II, X. Ying, S.B. Wilson, R. Freyre, and G.W. Knox. 2016. Developing and selecting sterile, non-invasive *Lantana camara* cultivars. 129th Annual Meeting of the Florida State Horticultural Society Abstracts. Stuart, FL, June 12-14, 2016.

Freyre, R., A.M. Smith, C. Reinhardt-Adams, Z. Deng, G.W. Knox, and S.B. Wilson. 2016. Control of invasive *Ruellia simplex* by herbicide treatments in natural areas and breeding sterile cultivars. Program archive of the 2016 American Society for Horticultural Science Annual Conference, Atlanta, GA, August 7-11, 2016. HortScience 51(9):S80.

Freyre, R., A. Smith, C. Reinhardt-Adams, G.W. Knox, and S.B. Wilson. 2015. Limiting invasive *Ruellia simplex* via breeding sterile cultivars and developing efficient control in natural areas. 13th International Conference on Ecology and Management of Alien Plant Invasions (EMAPi).

Peterson, J.C., S.B. Wilson, K. Sharkey, and T.A. Colquhoun. 2015. A study and development of an initiative to increase undergraduate student enrollment in the plant science major and specializations. HortScience (oral and abstract).

Cochrane, E.F., E.W. Stover, and S.B. Wilson. 2014. Alternative application of plant growth regulators to optimize rooting in citrus. Florida Scientist. 77 (1) pg 4. Oral contribution.

Ripak, N. C., K.K. Moore, G.W. Knox, S.B. Wilson, Z. Deng. 2014. "What does the Consumer Say?" South Florida Survey of Ornamental Grasses. HortScience. Poster.

Cochrane, E.F., E.W. Stover, and S.B. Wilson. 2014. Alternative application of plant growth regulators to optimize rooting in citrus. HortScience. Oral contribution.

Smith, A.M., C.R. Adams, S.B. Wilson, and C. Wiese. 2014. Control of Mexican petunia in forest floodplains: is site-level eradication the goal or the first step in restoration? HortScience. Oral contribution. Invited.

Smith, A.M.\*., C.R. Adams, S.B. Wilson, and C. Wiese. 2014. Management of an invasive ornamental: suppression of *Ruellia simplex* (Mexican petunia) by native species during initial establishment from seed. HortScience Poster.

Freyre, R. and S.B. Wilson. 2013. Breeding *Ruellia* and trialing for sterility at the University of Florida. Longwood Gardens National Trial Symposium- abstract booklet.

Freyre, R., A. Moseley, C. Reinhardt-Adams, G. Knox, S.B. Wilson, and Z. Deng. 2012. Breeding *Ruellia* spp. at the University of Florida.

Smith, A.M., S.B. Wilson, M. Thetford, and C.R. Adams. 2012. Greenhouse and landscape performance of nine native wildflowers grown in varying containerized media. HortScience. 47:S256.

Giacomelli, G.A., M. Harrington, A. Sotala, and S.B. Wilson. 2012. Comparison of two delivery methods used to produce an online lecture entitled 'worldwide technology for controlled environment plant production. HortScience 47:S214.

Freyre, R., A. Moseley, C. Reinhardt-Adams, G. Knox, and S.B. Wilson. 2012. Limiting invasive *Ruellia* populations via breeding sterile cultivars and developing efficient control in natural areas. HortScience 47:S197.

Smith, A.M., S.B. Wilson, M. Thetford, and C.R. Adams. 2012. Growth and development of native wildflowers in varying containerized media. 32<sup>nd</sup> Annual Florida Native Plant Society Program Booklet, p. 21.

Thetford, M., S.B. Wilson, and H.E. Perez. 2012. Wildflower propagation and production. 32<sup>nd</sup> Annual Florida Native Plant Society Program Booklet, p. 17.

Campbell, K.R. and S.B. Wilson. 2011. Development of online teaching tools for plant identification. NACTA. 55(1)47.

Campbell, K.R. and S.B. Wilson. 2011. Interactive review exercises for online native plant identification and use. *HortScience*. 46(9):S400.

Deng, Z., S. Smith, G.W. Knox, and S.B. Wilson. 2011. Induction and characterization of tetraploids in Nandina (*Nandina domestica*). *HortScience*. 46(9):S169.

Knox, G.W., S.B. Wilson, Z. Deng, and R. Freyre. 2011. Alternatives to invasive plants commonly found in Florida landscapes. Florida Native Plant Society and FLEPPC Combined meetings. In press.

Deng, Z., S.B. Wilson, G.W. Knox, and R. Freyre. 2011. Identifying and developing non-invasive varieties in landscape plants: Progress and prospects. *Proc. FSHS. Abstracts of the 2011 Meeting of the Florida State Horticultural Society* (<http://www.fshs.org/Meetings/2011/FSHS-2011-Abstracts.pdf>).

Wilson, S.B. and G.W. Knox. 2010. Assessing the invasive potential of 12 *Ligustrum sinense*, *Ligustrum lucidum*, and *Ligustrum japonicum* cultivars grown in northern and southern Florida. *HortScience*. 45(8):S161. (Abstr.).

Wilson, S.B., G.W. Knox, Z. Deng, and R. Freyre. 2010. Characterizing the invasive potential of ornamental cultivars. *International Society for Horticulture Science*. Sm11-S437.

Knox, G.W. and S.B. Wilson. 2010. Risk assessment and research response of Florida-invasive ornamentals and their cultivars. *HortScience*. 45(8):S31. (Abstr.)

Knox, G.W., S. Park Brown, S.B. Wilson, K. L.Muller, and J.H. Aldrich. 2010. Performance of 12 shrub roses grown in northern, central and southern Florida under low maintenance conditions. *HortScience*. 45(8):S224. (Abstr.)

Valero-Aracama, C., M.E. Kane, S.B. Wilson, and N.L. Philman 2010. Substitution of benzyladenine with meta-topolin during shoot multiplication increases acclimatization of easy- and difficult-to-acclimatize Sea Oats (*Uniola paniculata* L.) genotypes. *Proceedings of the 12<sup>th</sup> IAPB Congress*. S-350.

Wilson, S.B., G.W. Knox, Z. Deng, and R. Freyre. 2010. Potential alternatives to ornamental invasives in Florida. *Florida Exotic Pest Plant Council 25<sup>th</sup> Annual Symposium*. In press.

Wilson, S.B., G.W. Knox, R. Freyre, and Z. Deng. 2009. Seed production and viability of eight porterweed selections grown in northern and southern Florida. *HortScience*. 44:1063.

Heather, A.E., H.E. Perez, and S.B. Wilson. 2009. Alleviating seed dormancy of two native wildflowers: *Polygonella polygama* and *Polygonella robusta*. 29<sup>th</sup> Annual FL Native Plant Soc. Conf. Abstract Book, pg. 1.

Heather, A.E., H.E. Perez, S.B. Wilson, and M. Thetford. 2009. Asexual Propagation of Two Native Wildflowers: *Polygonella polygama* and *Polygonella robusta*. 29<sup>th</sup> Annual FL Native Plant Soc. Conf. Abstract Book, pg. 17.

Muller, K.L., J.A. Gersony, P.A. Frey, S.B. Wilson, and B.T. Scully. 2008. The linear garden- A unique, inexpensive, and effective way to facilitate plant identification and roadside beautification. *HortSci.* 43:1173.

Wilson, S.B., K.L. Muller, M. R. Incer, P. C. Wilson, P.J. Stoffella, and D.A. Graetz. 2007. Evaluation of new container media for improved Aglaonema production. *HortSci.* 42:995-996.

Thetford, M. and S.B. Wilson. 2007. Web-based plant propagation lectures and labs. *HortSci.* 42:841.

Norcini, J.G., A. Frances, S.B. Wilson, K.L. Muller, D.L. Miller, D. Gordon, and C. Reinhardt-Adams. 2007. Glyphosate is an effective tool for initial establishment of native wildflowers. *Managing roadsides naturally.*

## **GRANTS**

Langelotto, G., C. Donaldson, S.B. Wilson, V. Lesser, M. Avolio, and A. Rihn. 2022. Growing a U.S. native nursery network to sustainable meet the demand for native plants in ornamental landscapes. SCRI, Strategic Planning Grant. \$50,000. Submitted.

Huo, H., S.B. Wilson and D. Norman. 2022-2025. Evaluation of begonia germplasm for stress resilient cultivar development. FDACS Specialty Crop Block Grant. \$175,636.

Deng, Z. and S.B. Wilson. 2019-2021. Identifying sterile, non-invasive cultivars in lantana, ligustrum and nandina for Florida's Environmental Horticulture Industry. Florida Department of Agriculture and Consumer Services Specialty Crop Block Grant Program. \$182,314.

Wickings, K., M. Gardiner, A. Dale, F. Rossi, B. Unruh, S. Wilson, H. Kachatryan, B. Iannone, D. Nowak. 2020-2021. Assessing best management practices, design options, and public perceptions towards a new iconic American lawn. SCRI planning grant. \$50,000.

Wilson, S.B., E. Momol, and R. Mallinger. 2020. Bee Florida, a mobile web application for learning bee-friendly plants. CALS distance education mini-grant. \$5,642.09.

Iannone, B.V., W. Wilber, A.G. Dale, S.B. Wilson and B. Moffis. 2019. Multispecies lawns: An alternative strategy for water conservation and pest regulation. UF/IFAS Center for Landscape Ecology and Conservation. \$5,000.

Wilson, S.B., R.L. Geneve, and A. Sotala. 2018-2019. Plant propagation, A technical methods reference website and app searchable by species. CALS distance education mini-grant. \$5,000.

Wilson, S.B., Z. Deng, and G.W. Knox. 2018-2019. Evaluation of non-invasive cultivars for recommended landscape use in Florida. FNGLA Endowment Fund. \$5,000.

Deng, Z. and S.B. Wilson. 2018-19. Lantana variety trials for male and female fertility and hybridization potential. Ball Horticulture Company. \$39,780.

Wilson, S. B. 2017-2019. Alternatives to ornamental invasives in Florida. Florida Fish and Wildlife Commission. Graduate student grant. \$18,000.

Iannone, B., S.B. Wilson, and G. Hansen. 2018-21. Predicting invasion and change in nearby plant communities from increased use of ornamentals. CLCE Ph.D. Graduate Student Grant. \$27,000.

Iannone, B., S.B. Wilson, and G. Hansen. 2018. Common ornamental plant species and varieties: will overuse contribute to invasions and changes in nearby plant communities? CLCE Graduate Student Grant. \$120,000.

Marble, C., E. Momol, W. Wilber, S. Wilson, and B. Sellers. 2017. Development of a poisonous plant mobile web application. CLCE Program Enhancement Grant. \$4,000.

Wilson, S.B. and B. Schutzman. 2017. Educational tools for live instruction of Florida Native Landscaping (ORH 3515C). CALS instructional mini-grant. Submitted. \$4,755.

Wilson, S.B., F.T. Davies, R.L. Geneve, and M. Thetford. 2016. Plant propagation, A glossary of terms reference website and app. CALS distance education mini-grant. \$5,000.

Reinhardt-Adams, C., C. Wiese, S.B. Wilson and Z. Deng. 2016. Alternatives to invasive plant species for the horticultural industry in the southeastern United States: Breeding sterile chinese privet (*Ligustrum sinense*) and identifying additional candidates for development of sterile cultivars. Horticulture Research Institute. \$25,000.

Deng, Z. and S.B. Wilson. 2015-2017. Identifying sterile, Non-invasive lantana varieties for the Florida Nursery & Landscape Industry. Florida Department of Agriculture and Consumer Services. \$131,685.

Gersony, J. and S.B. Wilson. 2014. Nondestructive mobile scanning of plant leaves, flowers, stems, and fruit as a supplemental learning tool for Environmental Plant Identification Labs. CALS Instructional improvement mini-grant. \$4,999.

Wilson, S.B. 2014. Conversion of traditional native landscaping course (ORH3815/3817C) to distance education format. CALS Distance education mini-grant. \$4,998.

Cave, R., S.B. Wilson, Z. He, J. Bachelor, and J. White. 2013. Building a sense of "community" for distance education students. CALS mini-grant for instructional improvement. \$11,160.

Wilson, S.B. and M. Thetford. 2013. Development of web-based learning modules to supplement statewide plant propagation labs. CALS mini-grant for distance education. \$4,951.

Wilson, S.B. 2012. Development of a plant finder application for students to identify and learn over 150 plant species located in the IRREC Teaching Gardens. CALS mini-grant for instructional improvement. \$7,500.

Wilson, S.B. 2011. Development of a web application for students to readily identify and learn plant families. CALS minigrant program for distance education. \$4,998.

Wilson, S.B. and N. Proctor. 2010. An interactive way to identify flowering plant families online. CALS minigrant program for distance education. \$4,978.

Freyre, R., S.B. Wilson, C. Reinhardt-Adams and G. Knox. 2010-2012. Control of invasive *Ruellia simplex* through induced sterilization and improved management in invaded natural areas. T-STAR Grants Program, USDA. \$119,901.

Deng, Z. and S.B. Wilson. 2010-2012. Improving the effectiveness of *Lantana camara* sterilization through trait elimination and triploid production. T-STAR Grants Program, USDA. \$119,998.

Wilson, S.B. 2009. Converting an existing Native Landscaping course for statewide distant education delivery. CALS minigrant program for distance education. \$2,500.

Wilson, S.B. 2009. Interactive review exercises for a Florida Native Landscaping course. CALS minigrant program for teaching enhancement. \$3,000.

Knox, G.W., S.B. Wilson, Z. Deng, and R. Freyre. 2009. Evaluation of non-invasive cultivars for the green industry. Center for Applied Nursery Research. \$2,500.

Deng, Z., S.B. Wilson, G.W. Knox, and R. Freyre. 2008-2010. Genetic sterilization for preventative control of invasiveness in *Lantana camara*. T-STAR Grants Program, USDA. \$119,986.

S.B. Wilson, M. Thetford, and H. Perez. 2007-2009. Production, propagation, and landscape evaluation of native wildflowers in west, north and south Florida. Florida Wildflower Foundation. \$108,864.

Deng, Z., C.D. Stanley, G.W. Knox, and S.B. Wilson. 2007-2013. Reducing nursery and landscape water use by genetically altering nandina plants, Southwest Florida Water Management District. \$125,000.

Wilson, S.B., Z. Deng, G.W. Knox, and R. Freyre. 2007-2011. A proactive approach to invasive plant management of FLEPC Category I and II ornamentals. Florida Department of Environmental Protection. \$67,004.

Wilson, S.B. and M. Thetford. 2007. Interactive exercises to enhance student learning concepts in plant propagation. University of Florida Instructional Mini-grant. \$2,000.

Z. Deng, G.W. Knox, and S.B. Wilson. 2007. Evaluation of 19 Heavenly bamboo (*Nandina domestica*) cultivars as potential candidates for sterilization. FNGLA Endowed Research Fund. \$5,000.

G.W. Knox, S.B. Wilson and Z. Deng. 2007. Evaluation of heavenly bamboo (*Nandina domestica*) cultivars as potential candidates for sterilization. Center for Applied Research. \$2,000.

Norcini, J., S.B. Wilson and D. Miller. 2004-2008. Native roadside wildflowers in rural areas: Developing best management practices for establishment of plantings by seed and enhancement of naturally-occurring populations. Florida Department of Transportation. \$215,947.

Wilson, S.B. 2000-2005. Development of screening protocols for evaluating the potential invasiveness of new ornamental species to the Florida landscape. Florida Department of Environmental Protection. \$108,747.

Wilson, S.B. 2003. Virtual plant identification. UF College of Ag and Life Sciences. \$3,000.

Wilson, S.B. 2003. World-wide web-based plant identification and design, UF Office of Academic Training. \$6,495.

Libran, M.C. and S.B. Wilson. 2000-2003. Alternatives to peat for container-grown tropical ornamentals and nutrient management practices. T-STAR Grants Program, USDA. \$96,189.00.

Tignor, M.E., G.A. Giacomelli, T. Irani, M. McMahon and S.B. Wilson. 2003-2006. Dynamic multimedia instrument for worldwide greenhouse education. USDA Higher Education Challenge Grant. \$247,563.

Kane, M.E. and S.B. Wilson. 2002-2004. Enhanced commercial selection and micropropagation of Sea Oats genotypes for dune stabilization. U.S. Department of Commerce, Florida Sea Grant Program. \$145,135.00.

Wilson, S.B. and G.W. Knox. 2002. Evaluating potential invasiveness of ten *Nandina domestica* cultivars in north and south Florida. Center for aquatic and invasive plants, University of Florida. \$9,000.00

Wilson, S.B. and M. Thetford. 2002. Content module development for online instruction of plant propagation. Office of Instructional Resources, University of Florida, \$4,500.00.

Wilson, S.B. and G.W. Knox. 2002. Evaluating potential invasiveness of ten *Nandina domestica* cultivars in north and south Florida. Florida Agricultural Experiment Station FNGA Endowed Research Fund. \$5,000.

Wilson, S.B. and M. Thetford. 2001. Characterizing potential invasiveness of five *Buddleia* species and respective cultivars. Center for aquatic and invasive plants, University of Florida. \$10,000.

Wilson, P.C., S.B. Wilson, and P.J. Stoffella. 2001. Presence of selected pesticides in commercial compost. Center for Natural Resources, University of Florida, \$3,000.00

Wilson, S.B. 2001. Development of an IFAS-wide web-based multi-media database containing Florida native plant images. IFAS Information Technologies, University of Florida, \$1,000.

Wilson, S.B. and P.C. Wilson. 2000. Assessment of nutrient use efficiency and photosynthesis for evaluating the potential invasiveness of new ornamental species into the Florida landscape. Center for Aquatic and Invasive Plants, University of Florida, \$804.00

Wirth, F. and S.B. Wilson. 2000. Economic analysis of phasing out potentially invasive plants. Center for Aquatic and Invasive Plants, University of Florida, \$9,955.

Wilson, S.B. and P.J. Stoffella. 2000. Irrigation systems to improve growth and development of containerized perennials grown in compost-amended media. Center for Natural Resources, University of Florida, \$2,000.

Wilson, S.B., and P.J. Stoffella. 1999. Organic media alternatives to peat for container-grown perennial plant production. Center for Natural Resources, University of Florida, \$2,000.

Wilson, S.B. 1999. Mini-grant proposal for the improvement of instruction. College of Agricultural and Life Sciences, University of Florida, \$2,980.

## LIST OF REFERENCES

Dean A. Kopsell, Professor and Chair  
Environmental Horticulture Department  
University of Florida  
1545 Fifield Hall  
PO Box 110670  
Gainesville, FL 32611-0670  
Direct: 352-294-3059  
Dean.kopsell.ufl.edu

Dr. Wayne Mackay  
Professor and Chair, University of Arkansas  
Department of Horticulture  
316A Plant Sciences Bldg.  
Fayetteville, AR 72701  
Email: [mackay@uark.edu](mailto:mackay@uark.edu)  
Phone: 479-575-7319  
Cell Phone: 972-896-4429

Dr. Michael Kane  
Professor, Department of Environmental Horticulture  
Distinguished Scholar  
University of Florida  
P.O. Box 110675  
Gainesville, FL 32611  
Office 352-273-4500  
Cell: 352-359-3565  
Email: [microp@ufl.edu](mailto:microp@ufl.edu)

Dr. Fred Davies  
Professor Emeritus, Department of Horticultural, Molecular and Environmental Plant Sciences  
Texas A&M University  
College Station, TX 77843-2133  
Email: [f-davies@tamu.edu](mailto:f-davies@tamu.edu)  
Phone: 979-845-4524

Robert N. Trigiano  
UTIA Institute Professor  
Entomology and Plant Pathology  
2505 E J Chapman Drive , 370 Plant Biotechnology Building  
Knoxville, TN 37996-4560  
865-386-1872 Mobile  
[rtrigian@utk.edu](mailto:rtrigian@utk.edu)