

Oliver Grundmann

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Education

- December 2014* Master of Education (MEd) in Educational Technology, University of Florida, US
- December 2007* Doctor of Philosophy (PhD) in Pharmaceutical Sciences, University of Florida, US
Dissertation title: Anxiolytic activity of *Apocynum venetum* L. and its proposed Mechanisms of Action
- May 2007* Master of Science (MS) in Forensic Toxicology with Minor in Statistics, University of Florida, US
- May 2007* Certificate in Drug Chemistry, University of Florida
- March 2007* Certificate in WebCT Vista and Turnitin for Vista for Instructors, University of Florida
- December 2006* Certificate in Forensic Toxicology, University of Florida
- May 2004* Final exam and licensure as pharmacist, Westfälische Wilhelms-Universität Münster, Münster, Germany
- February 1998 - November 1999* Distance education in psychological counseling, Academy for Holistic Studies, Haan, Germany

Work Experience

- July 2014 - present* Director of online graduate education programs in Pharmaceutical Chemistry & Clinical Toxicology, University of Florida
- July 2014 - present* Clinical Associate Professor, Department of Medicinal Chemistry, College of Pharmacy, University of Florida
- December 2011 - present* Joint appointment as Assistant Professor, Department of Adult and Elderly Nursing, College of Nursing, University of Florida
- May 2011 - present* Adjunct Assistant Professor, Department of Pharmaceutical Sciences, College of Pharmacy, Midwestern University
- March 2015 - present* Volunteer in Police Service, Forensic Toxicology & Controlled Substance units, Mesa Police Department

<i>October 2008 - June 2014</i>	Clinical Assistant Professor, Department of Medicinal Chemistry, College of Pharmacy, University of Florida
<i>January 2008 - October 2008</i>	Research Associate, Department of Nutritional Sciences, University of Arizona
<i>June 2007 - October 2008</i>	Teaching assistant (Natural medicinal products, Laboratory QA/QC), Forensic Science Distance Education Program, University of Florida
<i>November 2004 - June 2007</i>	Research assistant, Office of Research Support, College of Nursing, University of Florida
<i>August 2004 - December 2007</i>	Teaching assistant (Pharmaceutical Skills Laboratory, Integrated Case Studies), Department of Pharmaceutics, University of Florida
<i>May 2006 - July 2006</i>	Visiting Scientist, Neurological Science Institute, Oregon Health and Science University
<i>June 2005 - August 2005</i>	Fellow of the Japan Society for the Promotion of Science, Research associate at the University of Tokushima, Japan
<i>November 2004 - February 2005</i>	Consultant for clinical study, Dr. Childress/Dr. Stechmiller, College of Nursing, University of Florida
<i>May 2004 - August 2004</i>	Employed pharmacist in local pharmacy, Lengerich, Germany
<i>November 2003 - April 2004</i>	Internship at Merck KGaA (Quality control and analysis department), Darmstadt, Germany
<i>May 2003 - October 2003</i>	Internship at local pharmacy, Münster, Germany
<i>August 1998 - September 1998</i>	Internship with Wagner Pharmaceuticals (Analytical department), Lengerich, Germany
<i>August 1997 - July 1998</i>	Civil service as nurse aid on internal medicine station in local hospital, Lengerich, Germany

Presentations, Posters, and Invited lectures (excerpt)

<i>October 2017</i>	Teaching Collaborations on a Global Level – Vision and Reality, 27 th World Conference on Online Learning, Toronto, Canada.
<i>October 2017</i>	Kratom from the user perspective – results from an online survey, North American Congress of Clinical Toxicology, Vancouver, Canada.
<i>August 2017</i>	Integrative medicine as a vehicle for evidence-based recognition of traditional medicine by healthcare providers, 1 st International Conference on Natural Medicine, Bangkok, Thailand.

<i>June 2017</i>	Kratom – from traditional medicine to herbal supplement to drug of abuse and back, an update for healthcare providers about who is using it, who can use it, and why it should (or should not) be regulated, Midwestern University Research Seminar Series, Glendale, AZ.
<i>April 2017</i>	The Link between Microbiome Biodiversity and Chronic Disease – the Use of Bioinformatics and Big Data to Find New Drug Targets, Bioinformatics and Proteomics Driven Biomarker Developments-BPDBD Conference 2017 Chitkara University, India, via webcast.
<i>September 2016</i>	Are changes in phase angle and body composition by gender in cancer patients with cachexia different from healthy population?, 3 rd International Conference on Cancer Cachexia, Washington, D.C.
<i>June 2016</i>	Active Learning Strategies in Self-Care Pharmacy Education, Advances in Medical Education 2016, Jacksonville, FL.
<i>April 2016</i>	Gender differences in body composition among gastrointestinal cancer patients with unintentional weight loss, 41 st Annual Oncology Nursing Society Congress, San Antonio, TX.
<i>February 2016</i>	Active Learning Strategies in Self-Care Pharmacy Education, American Association of Colleges of Pharmacy Interim Meeting, Tampa, FL.
<i>February 2016</i>	Gender differences in body composition among gastrointestinal cancer patients with unintentional weight loss, 30 th Annual Conference of the Southern Nursing Research Society, Williamsburg, VA.
<i>October 2015</i>	Evaluation of the affective and cognitive capabilities of paramedics in the United States in assessing and managing toxic alcohol exposures, North American Congress of Clinical Toxicology, San Francisco, CA
<i>May 2015</i>	Detection of bioterrorism agents in highly mobile settings – the path forward for rapid screening, 91 st Florida Annual Meeting and Exposition of the American Chemical Society, Tampa, FL
<i>April 2015</i>	Organizing Online Education successfully, Studying in an Online Learning Environment, Technology to enhance student-enriched virtual and blended classrooms, invited lectures, Hoogeschool van Arnhem en Nijmegen, Nijmegen, Netherlands
<i>March 2015</i>	Complementary Therapy Use and its Perceived Influences on Gastrointestinal (GI) Symptoms, UF College of Nursing Research Day, Gainesville, FL
<i>March 2015</i>	The Professor within the Machine – how to teach and learn globally, National Science Teachers Association Annual Global Conversations Conference, Chicago, IL

<i>August 2014</i>	Near or Far – Online and Distance Education Technology at the University of Florida transcends boundaries, International Conference on China-US Open and Distance Education, Beijing, China
<i>August 2014</i>	The Use of Bioelectrical Impedance Analysis (BIA) in Patients with Gastrointestinal Cancer, American Association of Naturopathic Physicians Annual Conference, Phoenix, AZ
<i>June 2014</i>	Oral Vaccines – Challenges and Successes, Hoogeschool van Arnhem en Nijmegen Graduate Seminar, Nijmegen, Netherlands (via Webinar)
<i>May 2014</i>	Not just “gut feelings” – the human gut microbiome in disease and drug metabolism, Hoogeschool van Arnhem en Nijmegen Graduate Seminar, Nijmegen, Netherlands
<i>July 2013</i>	Herbal supplements during pregnancy, UF College of Nursing, Graduate student seminar series
<i>April 2013</i>	Herbal Supplement Use As Symptom Management Of Gastrointestinal Disorders Using An Online Survey, UF College of Nursing Research Day, Gainesville, FL
<i>March 2013</i>	Not just “gut feelings” – the human gut microbiome in disease and drug metabolism, invited keynote address, International Conference on Advances in pharmacological & pharmaceutical approaches to drug discovery & clinical development, Chandigarh, India
<i>December 2012</i>	SCST Session: Science through Application: How Forensic Science can get Kids interested, Workshop coordinator, National Science Teachers Association Regional Conference, Phoenix, AZ
<i>December 2012</i>	Graduate Distance Education Programs: An Evolving Concept with Practical Applications, panelist, NSTA ESP Symposium, ESP: Unique Features of programs that meet “More Emphasis” Features in the NSES, National Science Teachers Association Regional Conference, Phoenix, AZ
<i>November 2012</i>	Acupuncture as a novel intervention to improve appetite in patients with cancers of the gastrointestinal tract, Oncology Nursing Society, Phoenix, AZ
<i>September 2012</i>	Herbal supplements during pregnancy, UF College of Nursing, Graduate student seminar series
<i>July 2012</i>	Endocrine and Antidiabetic drugs, UF College of Nursing, Invited Lecture for course NUR3145
<i>March 2012</i>	Efficacy of Acupuncture to Improve Cancer-related Nutritional Impairment in Patients with Cancers of the Gastrointestinal Tract, UF College of Nursing Research Day, Gainesville, FL

November 2011	Digital Crime Scene Documentation in Forensic Education, 2011, Techno Forensics Conference, Myrtle Beach, US
October 2011	Graduate Distance Education Programs in Forensic Science, Southwestern Association of Forensic Sciences 2011 conference, Houston, US
September 2011	Not just “gut feelings” – the human gut microbiome in disease and drug metabolism, Midwestern University Guest Speaker Seminar Series, Glendale, US
February 2011	Organoleptic evaluation of a liquid placebo compared with a liquid dietary supplement in healthy adults, 25 th Annual Conference of the Southern Nursing Research Society, Jacksonville, US
March 2010	Evaluation of a new online international graduate program in pharmaceutical chemistry, 239 th American Chemical Society National Meeting, San Francisco, US
September 2009	Online Worldwide Forensic Collaboration that Sparks Educational Innovation, 5 th Meeting of the European Association of Forensic Science, Glasgow, UK
January 2009	The influence of gut bacterial microflora on pre-systemic metabolism of drugs – a new dimension, University of Frankfurt, Frankfurt, Germany
September 2008	International Teaching Collaborations in Forensic Sciences, 87 th Annual meeting of the German Society of Legal Medicine, Dresden, Germany
May 2008	Depression – overdiagnosed and undertreated, University of Arizona Elective Enrichment Program, Telemedicine, Tucson, US
March 2007	<i>Apocynum venetum</i> – new aspects of a traditional plant, Department of Pharmaceutics, University of Florida, US
March 2006	Anxiolytic activity of <i>Apocynum venetum</i> and its proposed mechanism(s) of action, Department of Pharmaceutics, University of Florida, Gainesville, US
August 2005	Antioxidant and anxiolytic activities of a leaf extract of <i>Apocynum venetum</i> L., 22 nd Annual conference of the Medical and Pharmaceutical Society for traditional Japanese and Chinese medicine, Tokyo, Japan
July 2005	<i>In vivo</i> experiments in the evaluation of CNS-active natural medicines – an overview, Department of Nutrition and Food science, University of Kobe, Kobe, Japan
April 2004	Concept development for an administrative tool for validation documentation, Merck KGaA, Darmstadt, Germany
September 2002	Epilepsy – a review of the pathology and the current treatment guidelines, University of Münster, Münster, Germany

Publications

2017

The medicinal chemistry and neuropharmacology of kratom: A preliminary discussion of a promising medicinal plant and analysis of its potential for abuse, A.C. Kruegel, O. Grundmann, *Neuropharmacology*, 2017, S0028-3908(17):30393-3. PMID: 28830758.

Patterns of Kratom use and health impact in the US – Results from an online survey, O. Grundmann, *Drug and Alcohol Dependence*, 2017, 176:63-70. PMID: 28521200.

Preclinical and Potential Applications of Common Western Herbal Supplements as Complementary Treatment in Parkinson's Disease, L. Morgan, O. Grundmann, *Journal of Dietary Supplements*, 2017, 14(4):453-466. PMID: 28095073.

Pharmacology and Structure-Activity Relationship of Natural Products with psychoactive Effects from *Salvia divinorum*, *Mitragyna speciosa*, and *Ayahuasca*, S.M. Phipps, O. Grundmann, in: *Studies in Natural Products Chemistry*, Bioactive Natural Products, Volume 53, Atta-Ur-Rahman (ed.), 2017, ISBN: 978-0-444-63930-1, Elsevier Science Publishers.

Evaluating the Knowledge Base and current Training of Paramedics in the Southwest United States in Assessing and Managing Toxic Alcohol Exposures, C. Bare, O. Grundmann, *Australasian Journal of Paramedicine*, 2017.

Malnutrition & cachexia and influence on quality of life in patients with cancer, O. Grundmann, S.L. Yoon, J.J. Williams, in: *Handbook of Famine, Starvation, and Nutrient Deprivation: from Biology to Policy*, Victor Preedy (ed.), 2017, Springer Nature, accepted book chapter.

In Vitro Assays in Natural Products Research—A Matter of Concentration and Relevance to *In Vivo* Administration Using Resveratrol, α -mangostin/ γ -mangostin, and Xanthohumol as Examples, C. Willson, O. Grundmann, *Natural Products Research*, 2017, 31(5):492-506. PMID: 27234135.

2016

Review of Various Herbal Supplements as Complementary Treatments for Oral Cancer, J. Godsey, O. Grundmann, *Journal of Dietary Supplements*, 2016, 13(5):539-550. PMID: 26863913.

The pharmacology and toxicology of Kratom: from traditional herb to drug of abuse, M. Warner, N. Kaufman, O. Grundmann, *International Journal of Legal Medicine*, 2016, 130(1):127-138. PMID: 26511390.

The use of complementary and alternative medicines in psychiatric disorders, D. Thrower, O. Grundmann, in *Alternative Medicine: Perceptions, Uses and Benefits and Clinical Implications*, P. Cherniak (ed.), 2016, Nova Publishers, ISBN: 9781634848510.

- 2015
- The value of bioelectrical impedance analysis and phase angle in the evaluation of malnutrition and quality of life in cancer patients – a comprehensive review, O. Grundmann, S. Yoon, J. Williams, *European Journal of Clinical Nutrition*, 2015, December;69(12):1290-1297. PMID: 26220573.
- The Physicochemical and Pharmacokinetic Relationships of Barbiturates – from the past to the future, B. Ernst, G. Clark, O. Grundmann, *Current Pharmaceutical Design*, 2015, 21(25):3681-3691. PMID: 25824249.
- Novel intervention with acupuncture for anorexia and cachexia in patients with gastrointestinal tract cancers: a feasibility study, S. Yoon, O. Grundmann, J. Williams, G. Carriere, *Oncology Nursing Forum*, 2015, 42(2):E102-109. PMID: 25806891.
- World Clinical Irritable Bowel Syndrome, 1st edition, O. Grundmann (ed.), Baishideng Publishing Group, Pleasonton, CA, February 2015.
- Mitochondriotropic nanoemulsified genistein-loaded vehicles for cancer therapy, J. Pham, O. Grundmann, T. Elbayoumi, *Methods in Molecular Biology*, 2015, 1265:85-101. PMID: 25634269.
- Influence of acupuncture on bioelectrical impedance measures in patients with gastrointestinal cancer: results of a pilot study, O. Grundmann, S. Yoon, J. Williams, *Acupuncture in Medicine*, 2015, 33(1):16-22. PMID: 25413610.
- 2014
- The current state of bioterrorist attack surveillance and preparedness in the US, O. Grundmann, *Risk Management and Healthcare Policy*, 2014, 9(7):177-187. PMID: 25328421.
- Complementary and alternative medicines in irritable bowel syndrome: An integrative view, O. Grundmann & S. Yoon, *World Journal of Gastroenterology*, 2014, January;20(2):346-362. PMID: 24574705.
- A brief Review of Krill oil History, Research and the commercial market, J. Kwantes, O. Grundmann, *Journal of Dietary Supplements*, 2013, March;12(1):23-35. PMID: 24689485.
- 2013
- Career Readiness: an Old Idea Revived? (guest editorial), O. Grundmann, *Journal of College Science Teaching*, 2013, doi: 10.2505/4/jcst13_043_01_8.
- Factors that influence the variability of anogenital injury in adult sexual assault: a review of the forensic literature, F.A. Laitinen, O. Grundmann, E.J. Ernst, *American Journal of Forensic Medicine and Pathology*, 2013, September;34(3):286-294. PMID: 23835534.

- 2013 (continued) Mind-body therapies for functional bowel disorders - a review of recent clinical trials, O. Grundmann, S. Yoon, *European Journal of Integrative Medicine*, 2013, August;5(4):296-307. doi: 10.1016/j.eujim.2013.03.007.
- Recent Advances in the Diagnosis and Treatment of Irritable Bowel Syndrome, O. Grundmann, *Journal of Gastroenterology and Hepatology Research*, 2013, March;2(3):391-393.
- Menthol – pharmacology of an important naturally medicinal “cool”, J.A. Farco, O. Grundmann, *Mini-Reviews in Medicinal Chemistry*, 2013, January;13(1):124-131. PMID: 23061635.
- 2012 Graduate Distance Education Programs in Forensic Sciences, Pharmaceutical Chemistry, and Clinical Toxicology for Working Professionals: An Evolving Concept with Practical Applications, O. Grundmann, D. Lebow, in *National Science Teachers Association Exemplary Science Program monograph series*, Robert Yager (ed.), NSTA press, ISBN: 9781938946097.
- Book review, Curbside Consultation in IBS: 49 clinical questions by Brian E. Lacey (editor), O. Grundmann, *Practical Gastroenterology*, accepted manuscript.
- An Orthomolecular Approach to the Prevention and Treatment of Psychiatric Disorders, M. Zell, O. Grundmann, *Advances in Mind-Body Medicine*, 2012, Fall;26(2):14-29. PMID: 23341413.
- Clinical Evaluation of liquid placebos for an herbal supplement, STW5, in healthy volunteers, S. Yoon, O. Grundmann, D. Keane, T. Urbano, B. Moshiree, *Complementary Therapies in Medicine*, 2012, October;20(5):267-274. PMID: 22863640.
- Aloe vera gel research review, O. Grundmann, *Natural Medicine Journal*, 2012, September;9(4).
- Recent developments in the Use of Pre- and Probiotics for Irritable Bowel Syndrome, S. Yoon, B. Moshiree, O. Grundmann, *European Gastroenterology & Hepatology Review*, 2012, January;7(4):237-241.
- 2011 The Use of Glucosamine, Devil's Claw (*Harpagophytum procumbens*), and Acupuncture as Complementary and Alternative Treatments for Osteoarthritis, M. Sanders, O. Grundmann, *Alternative Medicine Review*, 2011, September;16(3):228-238. PMID: 21951024.
- Educational Collaboration for a global Forensic Science Initiative, O. Grundmann, D. Wielbo, , N. Toffolo, I. Tebbett, *Forensic Technology Review*, 2011, 210-214.
- Specialization and multidiscipline approaches in Forensic Science Education – new frontiers, O. Grundmann, D. Wielbo, N. Toffolo, I. Tebbett, *Forensic Technology Review*, 2011, 216-218.

- 2011 (continued) Management of Irritable Bowel Syndrome (IBS) in Adults: Conventional and Complementary/Alternative Approaches, S. Yoon, O. Grundmann, L. Koepp, L. Farrell, *Alternative Medicine Review*, 2011, June;16(2):134-151. PMID: 21649455.
- Remembering the Past and looking forward into the Future (editorial), O. Grundmann, *Alternative Medicine Studies*, 2011, January;1(1).
- Recent Advances in the Prevention of Bioterrorism Attacks (editorial), O. Grundmann, *Journal of Bioterrorism & Biodefense*, 2011, January;2(1):1.
- Social Annotation to enhance Learning and Assessment in higher Education (book chapter), D. Lebow, D. Lick, H. Hartman, C. Dalglish, O. Grundmann, in *Educating Educators with Social Media*, Charles Wankel (ed.), Emerald Publishing, 2011. ISBN: 9780857246493.
- 2010 Forensic Foundations, O. Grundmann, D. Wielbo, N. Toffolo, I. Tebbett, *Forensic Technology Review*, 2010, 186-189.
- The gut microbiome and pre-systemic metabolism: current state and evolving research, O. Grundmann, *Journal of Drug Metabolism & Toxicology*, 2010, November;1:104.
- Current Developments for the Diagnosis and Treatment of Irritable Bowel Syndrome, O. Grundmann, S. Yoon, B. Moshiree, *Current Pharmaceutical Design*, 2010, November;16(33): 3638-3645. PMID: 21128902.
- Propofol: An Analytical and Medico-legal Challenge, O. Grundmann, *Forensic Magazine*, 2010, October/November;7(5):13-15.
- The Implementation and Growth of an International Online Forensic Science Graduate Program at the University of Florida, O. Grundmann, D. Wielbo, I. Tebbett, *Journal of College Science Teaching*, 2010, September/October;40(1): 34-40.
- Restoration of radiation therapy-induced salivary gland dysfunction in mice by post therapy IGF-1 administration, O. Grundmann, J.L. Fillinger, K.R. Victory, R. Burd, K.H. Limesand, *BMC Cancer*, 2010, August;10:417. PMID: 20698985.
- Insulin-Like growth factor-1 preserves salivary gland function after fractionated radiation, K.H. Limesand, J.L. Avila, K. Victory, H.H. Chang, Y.J. Shin, O. Grundmann, R.R. Klein, *International Journal of Radiation Oncology, Biology, Physics*, 2010, October;78(2):579-586. PMID: 20638195.

- 2010 (continued) Mechanism of St. John's wort extract (STW3-VI) during chronic restraint stress is mediated by the interrelationship of the immune, oxidative defense, and neuroendocrine system, O. Grundmann, Y. Lv, O. Kelber, V. Butterweck, *Neuropharmacology*, 2010, March-April;58(4-5): 767-773. PMID: 20036263.
- Irritable Bowel Syndrome (IBS) - epidemiology, diagnosis, and treatment - an update for healthcare practitioners, O. Grundmann, S. Yoon, *Journal of Gastroenterology and Hepatology*, 2010, April;25(4): 691-699. PMID: 20074154.
- 2009 Sensitivity of salivary glands to radiation: From animal models to therapies, O. Grundmann, G.C. Mitchell, K.H. Limesand, *Journal of Dental Research*, 2009, October;88(10): 894-903. PMID: 19783796.
- Kaempferol from the leaves of *Apocynum venetum* possesses anxiolytic activities in the elevated plus maze test in mice, O. Grundmann, J. Nakajima, K. Kamata, S. Seo, V. Butterweck, *Phytomedicine*, 2009, April;16(4): 295-302. PMID: 19303276.
- Anxiolytic effects of a passion flower (*Passiflora incarnata* L.) extract in the elevated plus maze in mice, O. Grundmann, C. Wähling, C. Staiger, V. Butterweck, *Pharmazie*, 2009, January;64(1): 63-64. PMID: 19216234.
- Deadly delicious – Mushroom poisoning, O. Grundmann, I. Tebbett, *Forensic Magazine*, 2009, February/March;6(1).
- Radiation-induced salivary gland dysfunction results from p53-dependent apoptosis, J. Avila, O. Grundmann, R. Burd, K.H. Limesand, *International Journal of Radiation Oncology, Biology, Physics*, 2009, February;73(2): 523-529. PMID: 19147016.
- 2008 Anxiolytic activity of a phytochemically characterized *Passiflora incarnata* extract is mediated via the GABA-ergic system, O. Grundmann, J. Wang, G.P. McGregor, V. Butterweck, *Planta Medica*, 2008, December;74(15): 1769-1773. PMID: 19006051.
- Ricin on the rise – are we prepared?, O. Grundmann, I. Tebbett, *Forensic Magazine*, 2008, June/July;5(3): 25-28.
- 2007 *Apocynum venetum* L., a traditional herbal drug with up-to-date pharmacological effects, O. Grundmann, V. Butterweck, *Zeitschrift für Phytotherapie*, 2007, October;28(5): 215-222.
- Salvia divinorum* and Salvinorin A: An Update on Pharmacology and Analytical Methodology, O. Grundmann, S.M. Phipps, I. Zadezensky, V. Butterweck, *Planta Medica*, 2007, August;73(10): 1039-46. PMID: 17628834.
- Hypothermic effects of hops are antagonized with the competitive melatonin receptor antagonist luzindole in mice, V. Butterweck, A. Brattstroem, O. Grundmann, U. Koetter, *Journal of Pharmacy and Pharmacology*, 2007, April;59(4): 549-552. PMID: 17430638.

- 2007 (continued) Anti-anxiety Effects of *Apocynum venetum* L. in the Elevated Plus Maze test, O. Grundmann, J. Nakajima, S. Seo, V. Butterweck, *Journal of Ethnopharmacology*, 2007, April;110(3): 406-411. PMID: 17101250.
- 2006 Effects of St. John's wort extract and single constituents on stress induced hyperthermia in mice, O. Grundmann, O. Kelber, V. Butterweck, *Planta Medica*, 2006, December;72(15): 1366-1371. PMID: 17051457.
- Antidepressant effect of extracts from *Ginkgo biloba* leaves in behavioral models, H. Sakakibara, K. Ishida, O. Grundmann, J. Nakajima, S. Seo, V. Butterweck, Y. Minami, S. Saito, Y. Kawai, Y. Nakaya, J. Terao, *Biological & Pharmaceutical Bulletin*, 2006, August;29(8): 1767-1770. PMID: 16880641.

Awards

- 2017 Outstanding Teaching Team PharmD Year 2, College of Pharmacy, University of Florida, 2017
- 2017 American College of Clinical Pharmacology Excellence in Achievement recognition for STYP leadership
- 2015 Janet K. Poley Award for Innovation and Leadership in Distance Education, American Distance Education Consortium
- 2013 Poster Award, mentor of undergraduate students, UF College of Nursing Research day
- 2012 UF Open Access award for editorial services and the Journal of Alternative Medicine Studies
- 2007 Poster award recipient of the American Society of Pharmacognosy
- 2006 Travel grant recipient of the Society for Medicinal Plant research
- 2005 Summer fellowship of the Japan Society for the Promotion of Science and the German Academic Exchange Service
- 2005 Certificate of Academic Achievement by the President of the University of Florida

Professional Memberships

- American Distance Education Consortium (ADEC)
Chair of the Executive Board (2015-17)
- American Society of Pharmacognosy (ASP)
- German Association of Pharmacy (DPhG)
- American Association of Pharmaceutical Scientists (AAPS)
Secretary and historian of the UF Student chapter (2006-2007)
- American College of Clinical Pharmacology (ACCP)
Member Student Outreach committee (SOC); renamed Student, Trainee,
Young Professionals (STYP) Committee (2016-17)
- Society for Medicinal Plant Research
- National Scholar Honors Society
- American Chemical Society (ACS)
- National Science Teachers Association (NSTA)
Member (2014-17), Chair of the International Advisory Board (2015-16)
Member (2010-2013) Committee on College Science Teaching
- American Academy of Clinical Toxicology (AACT)
- Society of Forensic Toxicologists (SOFT)
Full member

Community outreach/extracurricular activities

- Conference Co-Chair, American Distance Education Consortium EDFuture
conference 2016, University of California Los Angeles, Los Angeles, CA
(September 2016)
- Conference chair, 11th Global Conversations in Science Education Conference,
National Science Teachers Association, Nashville, TN (March 2016)
- Chair, International Advisory Board, National Science Teachers Association
(June 2015 - June 2016)
- Conference Co-Chair, American Distance Education Consortium symposium
2015, Oregon State University, Corvallis, OR (May 2015)
- Volunteer, Mesa Police Department Forensic Services, Mesa, AZ
(March 2015 - present)
- Grand judge at the Intel Science and Engineering Fair, Phoenix, AZ
(May 2013)
- Local middle and high school presentations on forensic sciences and drug abuse
(2009 - present)
- Volunteer judge for Arizona "Project citizen", Arizona Foundation for Legal
Services & Education
(2011 - present)
- Workshop "Strengthening Forensic Science in the United States", National
Science Foundation, Washington, D.C.
(December 2012)

Additional Qualifications

Ad-hoc manuscript reviewer for:

Planta Medica (2008-present)

Scientia Pharmaceutica (2009)

BioMed Central Complementary and Alternative Medicine (2010-present)

Scandinavian Journal of Gastroenterology (2010-2011)

Journal of Dietary Supplements (2010-present)

Progress in Neuro-Psychopharmacology & Biological Psychiatry (2010)

Pharmacology, Biochemistry and Behavior (2010)

Biological Research for Nursing (2012)

Journal of Neuroscience (2011)

Nutrition and Cancer (2012-present)

PLOS One (2015-present)

Member of the *International Advisory Board* of the National Science Teachers Association (2014-2017), chair (2015-16)

Member of the *Committee on College Science Teaching* of the National Science Teachers Association (2010-2013)

Member of the Editorial Board of the Journal *Drug Metabolism & Toxicology* (2010-present)

Member of the Editorial Board of the *Journal of Forensic Research* (2010-present)

Member of the Editorial Board of the *Journal of Bioterrorism & Biodefense* (2010-present)

Member of the Editorial Board of the Journal *Interactive Medicinal Chemistry* (2013-present)

Member of the Editorial Board of the *World Journal of Translational Medicine* (2013-present)

Contributing Associate Editor-in-Chief of the *World Journal of Gastroenterology* (2011-2014)

Editor-in-Chief of the Journal *Alternative Medicine Studies* (2010-present)

Peer reviewer, Natural Standard Research Collaboration (2011-present)

Peer reviewer, Health Research Board, Republic of Ireland (2011)