

# Oliver Grundmann

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## Education

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

## Work Experience

<i>July 2014 - present</i>	Director of online graduate education programs in Pharmaceutical Chemistry & Clinical Toxicology, University of Florida
<i>July 2014 - present</i>	Clinical Associate Professor, Department of Medicinal Chemistry, College of Pharmacy, University of Florida
<i>December 2011 - present</i>	Joint appointment as Assistant Professor, Department of Adult and Elderly Nursing, College of Nursing, University of Florida
<i>May 2011 - present</i>	Adjunct Assistant Professor, Department of Pharmaceutical Sciences, College of Pharmacy, Midwestern University
<i>March 2015 - June 2018</i>	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

### **Academic instruction/Teaching**

(see anonymous teaching evaluations on <http://www.ratemypofessors.com/ShowRatings.jsp?tid=1827919> and <https://evaluations.ufl.edu/results/>)

<i>October 2008 - June 2014</i>	Development, implementation, and teaching of graduate courses in Pharmaceutical Chemistry (PHA5433/6432, PHA5437/6444, PHA5438/PHA6543, PHA6935/PHA6357, PHA6936), Clinical Toxicology (PHA6935/PHA6556, PHA6935/PHA6557, PHA6935, PHA6936), and Forensic Science (PHA6354, PHA6417, PHA6840, PHA6935, VME6766)
<i>July 2014 - current</i>	Administration, development, implementation, and teaching of graduate courses in Pharmaceutical Chemistry (PHA6432, PHA6444, PHA6543, PHA6357, PHA6935, PHA6936), Clinical Toxicology (PHA6556, PHA6557, PHA6935, PHA6936), and Forensic Science (PHA6354, PHA6417, PHA6840, PHA6935)

<i>January 2017 - current</i>	Development and team-teaching of PharmD courses as part of the Patient Care continuing course series (PHA5781, PHA5782, PHA5784, PHA5787, PHA5789)
<i>January 2018 - current</i>	Development, implementation and teaching of undergraduate Honors course (un)common reads: Addiction (IDH2930)

**Presentations, Posters, and Invited lectures (excerpt)**

<i>September 2019</i>	Impact of Kratom use on chronic health conditions in US users. American College of Clinical Pharmacology. Chicago, IL.
<i>June 2019</i>	The Impact of Kratom ( <i>Mitragyna speciosa</i> Korth.) Use on Frequency of Illicit Drug Use and Risky HIV Behaviours among Poly-Drug Users in Malaysia. 81 <sup>st</sup> Annual Scientific Meeting, College on Problems of Drug Dependence. San Antonio, TX.
<i>April 2019</i>	Challenges and Opportunities in the Development and Implementation of QM Standards in International Collaborative Programs in Health Sciences. Quality Matters Regional Conference East, New York, NY.
<i>February 2019</i>	Socio-economic determinants of Kratom use in the US – an important consideration in the scientific discussion. Second International Symposium on Kratom. Orlando, FL.
<i>December 2018</i>	The effects of solvents on mitragynine and 7-hydroxymitragynine extraction from <i>Mitragyna speciosa</i> , commonly known as kratom. American Society of Health-System Pharmacists. Anaheim, CA.
<i>September 2018</i>	Kratom use patterns in the United States – state and national trends. American College of Clinical Pharmacology. Bethesda, MD.
<i>August 2018</i>	From Theory to Practice in the Virtual Classroom – Supportive Teaching Tools. 34 <sup>th</sup> Annual Distance Teaching & Learning Conference. University of Wisconsin, Madison, WI.
<i>June 2018</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. Midwestern University, Glendale, AZ
<i>June 2018</i>	Acupuncture RCT in patients with GI cancer cachexia: A pilot study. American Society of Clinical Oncology. Chicago, IL.
<i>October 2017</i>	Teaching Collaborations on a Global Level – Vision and Reality, 27 <sup>th</sup> 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 <sup>st</sup> 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 <sup>rd</sup> 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 <sup>st</sup> 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 <sup>th</sup> 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 <sup>st</sup> 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
<i>November 2011</i>	Digital Crime Scene Documentation in Forensic Education, 2011, Techno Forensics Conference, Myrtle Beach, US
<i>October 2011</i>	Graduate Distance Education Programs in Forensic Science, Southwestern Association of Forensic Sciences 2011 conference, Houston, US
<i>September 2011</i>	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<sup>th</sup> Annual Conference of the Southern Nursing Research Society, Jacksonville, US
- March 2010 Evaluation of a new online international graduate program in pharmaceutical chemistry, 239<sup>th</sup> American Chemical Society National Meeting, San Francisco, US
- September 2009 Online Worldwide Forensic Collaboration that Sparks Educational Innovation, 5<sup>th</sup> 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<sup>th</sup> 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 *Apocynum venetum* – new aspects of a traditional plant, Department of Pharmaceutics, University of Florida, US
- March 2006 Anxiolytic activity of *Apocynum venetum* 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 *Apocynum venetum* L., 22<sup>nd</sup> Annual conference of the Medical and Pharmaceutical Society for traditional Japanese and Chinese medicine, Tokyo, Japan
- July 2005 *In vivo* 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

## **Publications**

(see profiles on <https://scholar.google.com/citations?user=JrG4zQAAAAJ&hl=en> and [https://www.researchgate.net/profile/Oliver\\_Grundmann](https://www.researchgate.net/profile/Oliver_Grundmann))

- 2019 Distinct kratom user populations across the United States: A regional analysis based on an online survey. J.A. Nicewonder, A.F. Buros, C.A. Veltri, O. Grundmann, *Human Psychopharmacology: Clinical and Experimental*, 2019. Accepted manuscript.
- Current perspectives on the impact of Kratom use. C.A. Veltri, O. Grundmann, *Journal Substance Abuse and Rehabilitation*, 2019. Accepted manuscript.
- The Use of Benzodiazepines among Kratom (*Mitragyna Speciosa* Korth.) Users. D. Singh, S. Narayanan, O. Grundmann, E.W. Boyer, B. Vicknasingam, *Journal of Psychoactive Drugs*, 2019. <https://doi.org/10.1080/02791072.2019.1632505>

2019 continued

Kratom Policy: The Challenge of Balancing Therapeutic Potential with Public Safety. W.C. Prozialeck, B.A. Avery, E.W. Boyer, O. Grundmann, J.E. Henningfield, A.C. Kruegel, L.R. McMahon, C.R. McCurdy, M.T. Swogger, C.A. Veltri, D. Singh, *International Journal of Drug Policy*, 2019. PMID: 31103778.

Self-reported prevalence and severity of opioid and kratom (*Mitragyna speciosa* korth.) side effects. A. Saref, S. Suraya, D. Singh, O. Grundmann, S. Narayanan, M.T. Swogger, W.C. Prozialeck, E. Boyer, N.J.Y. Chear, V. Balasingam, *Journal of Ethnopharmacology*, 2019. PMID: 31014959.

Non-prescribed buprenorphine use mediates the relationship between heroin use and kratom use among a sample of polysubstance users. K.E. Smith, A.M. Bunting, R. Walker, M.T. Hall, O. Grundmann, O. Castillo, *Journal of Psychoactive Drugs*, 2019. PMID: 30961450.

Patient Safety, O. Grundmann, E. Ko, K. Ulbricht, in: *Clinical Pharmacognosy Series: Principles and Practice of Botanicals as an Integrative Therapy*, 1<sup>st</sup> edition, Anne Hume, Katherine Kelly Orr (ed.), 2019, ISBN: 978-1-498-77114-6, CRC Press.

Association of Kratom Use with Impairment: Many Legal Questions Remain. C. Veltri, O. Grundmann, *Journal of Analytical Toxicology*, 2019. PMID: 30855680.

Augmentation of Cancer Cachexia Components With Targeted Acupuncture in Patients With Gastrointestinal Cancers: A Randomized Controlled Pilot Study. O. Grundmann, S.L. Yoon, J.J. Williams, L. Gordan, T.J. George Jr., *Integrative Cancer Therapies*, 2019. PMID: 30791747.

2018

Constipation prevalence and fatigue severity in regular kratom (*Mitragyna speciosa* Korth.) users. D. Singh, T. Damodaran, W.C. Prozialeck, O. Grundmann, T. Karunakaran, B. Vicknasingam, *Journal of Substance Use*, 2018. Accepted manuscript.

Gastrointestinal symptom improvement from fiber, STW 5, peppermint oil, and probiotics use-Results from an online survey. O. Grundmann, S.L. Yoon, S.R. Mason, K.F. Smith, *Complementary Therapies in Medicine*, 2018. PMID: 30477844.

Body composition changes differ by gender in stomach, colorectal, and biliary cancer patients with cachexia: Results from a pilot study. S.L. Yoon, O. Grundmann, J.J. Williams, L. Gordan, T.J. George Jr, *Cancer Medicine*, 2018. PMID: 29971962.

Dietary Supplement and Complementary and Alternative Medicine Use Are Highly Prevalent in Patients with Gastrointestinal Disorders: Results from an Online Survey. S.L. Yoon, O. Grundmann, K.F. Smith, S.R. Mason, *Journal of Dietary Supplements*, 2018. PMID: 29958032.

The therapeutic potential of Kratom. O. Grundmann, P.N. Brown, J. Henningfield, M. Swogger, Z. Walsh, *Addiction*, 2018. PMID: 29949213.

- 2018 continued
- Assessment of gonadotropins and testosterone hormone levels in regular *Mitragyna speciosa* (Korth.) users. D. Singh, V. Murugaiyah, S.B.S. Hamid, V. Kasinather, M.S.A. Chan, E.T.W. Ho, O. Grundmann, N.J.Y. Chear, S.M. Mansor, *Journal of Ethnopharmacology*, 2018. PMID: 29626673.
- Pregnancy and herbal medicines: An unnecessary risk for women's health-A narrative review, L.O. Bruno, R.S. Simoes, M. de Jesus Simoes, M.J.B.C. Girão MJBC, O. Grundmann, *Phytotherapy Research*, 2018. PMID: 29417644.
- The development and impact of active learning strategies on self-confidence in a newly designed first-year self-care pharmacy course – outcomes and experiences. K.J. Smith, O. Grundmann, R. Moorman Li, *Currents in Pharmacy Teaching and Learning*, 2018, 10(4):499-504. PMID: 29793713.
- 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, ISBN 978-3-319-55388-7, Springer Nature.
- In Vitro* Assays in Natural Products Research—A Matter of Concentration and Relevance to *In Vivo* Administration Using Resveratrol,  $\alpha$ -mangostin/ $\gamma$ -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.

- 2016 continued
- 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, 1<sup>st</sup> 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.

2013 continued

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.

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.

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.

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- 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.
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## **Multimedia interviews**

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- 2017
- Chicago Tribune, December 7 2017. As kratom use surges, some states enact bans, <http://www.chicagotribune.com/news/nationworld/sns-tns-bc-kratom-bans-20171207-story.html>

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- Associated Press, May 20 2016. States ban kratom supplement over abuse worries,  
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- Business Insider, January 4 2016. People are flocking to Florida bars for a legal but dangerous drug,  
<http://www.businessinsider.com/what-is-kratom-2016-1>

## **Awards & Distinctions**

2018	Fellow of the American College of Clinical Pharmacology (ACCP)
2018	Outstanding Publication in Teaching Innovation or Clinical Practice Innovation, College of Pharmacy, University of Florida
2018	Outstanding Teaching Team PharmD Years 1, 2, & 3, College of Pharmacy, University of Florida
2017	Outstanding Teaching Team PharmD Year 2, College of Pharmacy, University of Florida
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), Fellow (FCP)  
Member Student Outreach committee (SOC); renamed Student, Trainee, Young Professionals (STYP) Committee (2016-18), co-chair (2018-2019)

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  
Member (2019-2022), Advisory Board 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, 11<sup>th</sup> 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 - June 2018)

Grand judge at the Intel Science and Engineering Fair, Phoenix, AZ  
(May 2013)

Volunteer judge for Arizona "Project citizen", Arizona Foundation for Legal Services &  
Education  
(2011 - present)

Local middle and high school presentations on forensic sciences and drug abuse  
(2009 - 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)

*Journal of Ethnopharmacology* (2013-present)

*PLOS One* (2015-present)

*European Journal of Pharmaceutical Sciences* (2016-present)

*Drug & Alcohol Dependence* (2017-present)

*Journal of Psychoactive Drugs* (2018-present)

*Addiction* (2018-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 *Advisory Board for the Journal of College Science Teaching* of the National Science Teachers Association (2019-2021)

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)

Peer reviewer, Qatar National Research Fund, Qatar (2019)