

Héctor Rodolfo JULIANI, Ph.D.

New Use Agriculture and Natural Plant Products Program (NUANPP)

Rutgers, The State University of New Jersey

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1. Education

1993-1998. Ph.D. Biological Sciences. School of Math, Physics and Natural Sciences, National University of Córdoba. Argentina. (Nationally accredited an internationally recognized institution founded in 1613).

1987-1992. BS Biologist. School of Math, Physics and Natural Sciences, National University of Córdoba, Argentina.

2. Professional Experience/Employment History

Current

2011-current Assistant Research Professor. School of Environmental and Biological Sciences (SEBS), Department of Plant Biology and Pathology (PB&P Dept.). Rutgers University, NJ.

2003-current: Associate Director, New Use Agriculture and Natural Plant Products (NUANPP) Program. SEBS, PB&P Dept.

Area of expertise

Dr. Juliani's area of interest is in the uses and applications of plant diversity for the benefit of people and the environment. Dr. Juliani specializes in the sensorial, microscopic, macroscopic, chemical and biological characterization of plant products. Other areas of expertise include sustainable production of safe and effective plant-based (natural) products for nutrition, health, cosmetic and industrial uses. In production areas, he focuses on sustainable collection and horticulture (traditional and biotechnological). Dr. Juliani has contributed to develop the natural plant product industry for income generation, by expanding research infrastructure and technical capacity of non-profit, research and higher education institutions in many parts of the world. Dr. Juliani is also contributing to develop curricula and courses in the areas of Biology, Agriculture and Ecological Resources.

Past

2011-2014 Adjunct Assistant Professor. Biology Department. Rider University. Lawrenceville, NJ.

2004- 2010 Research Associate and Co-PI, "Partnership for Food Industry Development in Natural Products (PFID/NP). SEBS, Plant Biology and Pathology Dept.

2000 – 2003: Postdoctoral Associate. NUANPP. SEBS, PB&P Dept. Rutgers University.

1998-2000: Postdoctoral fellowship for research and graduate training. "Domestication of lines of *Lippia junelliana* and regulation of the essential oil accumulation". CONICET (National Council of Scientific and Technological Research) Argentina.

1998–2001: Senior Teaching Assistant in Plant Physiology. National University of La Rioja. Argentina.

1993-1997: Science and Technology Fellow, National University of Córdoba, Argentina.

Awards

- 2015 Outstanding Researcher Award. Provided by the Association for the Advancement of Industrial Crops at the 2015 Annual Conference - Industrial Crops: Research to Commercial Applications: Lubbock, Texas, October 18-22, 2015.
- 2015 Fulbright Specialist Program, a grant to promote linkages between Rutgers University and Dr. Juliani's alma mater, the National University of Cordoba from June 15 to July 13, 2015, at the School of Agricultural Sciences.
- 2009 Team Award. J.E. Simon, R. Govindasamy, **H.R. Juliani**, and others "Partnership for Sustainable Economic Growth in Africa through Natural Products Development". Awarded by the SEBS, Rutgers University.
- 2001 **H.R. Juliani** and J.E. Simon. Antioxidant Activity of Basil (*Ocimum* spp.) best student non-industrial poster, 5th Annual New Crops/New Uses Symposium. Atlanta, Georgia.

3. Teaching/Training Experience

3.1. Teaching Activity in Undergraduate Education

I. Undergraduate Courses

People and Plants (Ethnobotany). Principles of Biology: Evolution, Diversity, and Biology of Plants. Medicinal Plants. Plants and Human Health. Production & Processing of Herbs for Foods & Cosmetics. The Horticulture of Herbs and Spices. Current topics on natural plant products.

II. Mentoring & Trainings Provided to Undergraduate Students (*¹)

***Rutgers University* (PB&P Dept.):**

Supervised several undergraduate students (~20) to conduct research in the area of natural plant products with participation in national and international meetings and journal publications.

3.2. Teaching and Mentoring Activities in Graduate Education

Membership of Graduate Programs (Rutgers University)

- 2008-current Associate Member of the Plant Biology Graduate Program. PB&P Dept., Rutgers University.
- Adjunct Member of the Food Science Graduate Program. Department of Food Science. Rutgers University.

Post-doctoral trainees and visiting scientists:

2017-April 01, March 31, 2019. Advisor for the postdoctoral trainee Paula Brunetti, National University of Cordoba: "Chemical characterization, germplasm selection and domestication

¹ **Undergraduate research work presented as poster or oral presentations in national/international meetings**

Lippia integrifolia, a native aromatic plant with commercial applications” National Council of Scientific and technical Research (CONICET/ Argentina).

Graduate and Visiting Students

- 2012-2017 Larry Hwang’s (Rutgers/EHELD program) Ph.D. thesis co-advisor. An Environmental And Economic Approach To The Development And Sustainable Exploitation Of Non-Timber Forest Products (NTFP) In Liberia
- 2014-current Thesis committee member for PhD candidate Jinyu Wang (advisor Bingru Hwang) “Physiological and biochemical factors associated with fine fescue tolerance to heat stress”
- 2017 Faculty Associate of the Fulbright scholar Biologist Matias A. Raspo. (National University of Rio Cuarto). Research topic. “Recovery of bioactive natural plant products from dried plant biomass”. June 1, 2017 to September 1, 2017.
- 2017 Co-Advisor of Joao Victor Souza, a graduate student from Brazil who is coming to NUANPP labs to conduct chemical analysis of basil essential oils subjected to different irrigation levels.
- 2015-2016. Co-Advisor of Richard Licayan. Chemistry and bioactivities of Medicinal Plants from the Philippines. A graduate student who came to conduct research for his PhD dissertation in the Philippines as part of the STRIDE program.
- 2016 Co-advisor of John Capio. Chemistry and quality of Moringa oleifera from the Philippines. A graduate student who came to conduct research for his PhD dissertation in the Philippines as part of the STRIDE program.
- 2014 Faculty Associate of the Fulbright scholar Biologist Paula Brunetti. (National University of Cordoba, School of Agricultural Sciences). Research topic. Chemical diversity of the essential oil of *Lippia integrifolia*. August 1 to October 31, 2015.
- 2012 Faculty Associate of the Fulbright scholar Agronomist Claudia Mariana Asensio (National University of Cordoba, School of Agricultural Sciences), research topic “Antioxidant and Antimicrobial Food Preservation Activities of Essential Oils of Local Argentinean Oregano Varieties (*Origanum* sp.)” May 1, 2012 to October 31, 2012.
- 2009-11 Hee Seung Nahm (Food Science). Juliani served as master’s thesis advisor and committee member. The Variation of the Quality and chemistry of Shea Butter from Ghana. Master’s thesis defense March 2011.
- 2008 Julia Coppin’s Master’s thesis co-advisor and committee member (Rutgers/NUANPP). Nutritional And Medicinal Values Of *Moringa oleifera* Leaves From Sub-Saharan Africa: Ghana, Rwanda, Senegal And Zambia.
- 2003-05 Baking Boo (India). co-advisor of Master’s research project (non-thesis MS option, Rutgers/NUANPP). Selection of high yielding carvacrol varieties of oregano (*Origanum vulgare*).

3.3. Mentoring & Trainings Activities for NJ High School Students Working at Rutgers

Mentoring/ trainings provided to six high school students in the Biology and Chemistry of aromatic and medicinal plants.

3.4. International experience (Trainings, Research Cooperation and Cultural Exchange).

Country experience (# of trips) in support of international research and development activities: Argentina (4 trips), Chile (1), Burundi (1), El Salvador (7), Egypt (1), Ghana (4), Liberia (9), Malawi (3), Rwanda (5), Senegal (1), South Africa (4), Swaziland (1), and Zambia (7).

Main activities and outputs:

- Procurement of lab equipment to set up plant analysis labs in Ghana, Liberia, Senegal, Rwanda and Malawi.
- Trainings provided to officials of the Rwanda Bureau of Standards on the areas of gas chromatography and mass spectrometry (GC/ MS) for the identification of essential oils and an introduction to physical and chemical properties of essential oils.
- Training programs provided to 400 professionals, entrepreneurs in Africa to support the commercialization of natural products.
- Contributed to facilitate trade of several thousand metric tons of botanical ingredients valued at >\$25 million.
- Conducted ethno-botanical and natural plant products assessments.
- Participation in curriculum development activities for universities West Africa and Central America in the areas of Agriculture and Engineering.

4. Research Publications²

4.1 Edited Books

2009. **H.R. Juliani**, J.E. Simon, C.T. Ho (Editors). African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. pubs.acs.org/isbn/9780841269873.
2013. **H.R. Juliani**, J.E. Simon and C.T. Ho (Editors). African Natural Plant Products Volume II: New Discoveries in Chemistry, Health and Nutrition. American Chemical Society (ACS) Symposium Series 1127. ACS, Washington D.C. pubs.acs.org/isbn/9780841228047.

4.2 Editor of research journals

- 2017: Guest co-editor of the special issue of the Conference in Industrial Crops and 28th Annual Meeting of the Association for the Advancement of Industrial Crops (AAIC 2016) Industrial Crops: Promoting Sustainability. Edited by Marisol T. Berti, Dilpreet Bajwa, Liv Severino, H. Rodolfo Juliani. Journal of Industrial Crops and Products. Publication date: Fall 2017.
2016. Guest co-editor of the special issue for the Journal of Industrial Crops and Products International Conference The Second Mediterranean Symposium on Medicinal and Aromatic Plants (MESMAP-2). Edited by María Jesús Pascual-Villalobos, Nazim Sekeroglu and Rodolfo Juliani Volume 88, Pages 1-120 (15 October 2016).
2015. Guest co-editor of the special issue of the International Conference in Industrial Crops and 26th Annual Meeting of the Association for the Advancement of Industrial Crops (AAIC 2014). edited by Marisol T. Berti, Dilpreet Bajwa, Liv Severino, **H. Rodolfo Juliani**. Journal of Industrial Crops and Products. Industrial Crops and Products Volume 75, Part B, 30 November 2015.

² With the participation of undergraduate (UG, at the time of research work completion), graduate students (G) and high school student (HS).

2011. Guest co-editor of the special issue The next generation of industrial crops, processes and products AAIC 2009 edited by Marisol T. Berti, Thomas A. Rymysz, Dipak Santra, **H. Rodolfo Juliani**, Madan Gupta and Laura Marek. Journal of Industrial Crops and Products 34 (2): 1251-1398 (September 2011).

2015. Associate Editor for Medicinal plants and essential oils. Journal of Industrial Crops and Products. Elsevier. Impact factor: 4.

4.3 Research Publications: Submissions and Acceptances

2017. Analleli Jiménez-Durán; Norma Francenia Santos-Sánchez; Rogelio Valadez-Blanco; **H. Rodolfo Juliani**; Raúl Salas-Coronado. Mango seed extract and sulfites as promoters of color and antioxidants retention during tray drying of mango slices. Submitted to Journal of Food Science and Technology.

2017. Jinyu Wang, **H. Rodolfo Juliani**, David Jespersen and Bingru Huang. Differential Accumulation of Membrane Constituents Associated with Heat Tolerance in Hard Fescue. Submitted to Plant Science.

2017. Richard I. Licayan, Romeo M. Del Rosario, Nenita D. Palmes, James E. Simon, **H. Rodolfo Juliani**. Physical and Chemical properties, Composition and Cytotoxic Activities of Essential Oils of Philippine Medicinal Plants. Accepted for Publication in the Journal of Medicinally Active Plants. In Press.

2017. Adolfin R. Koroch, James E. Simon, **H. Rodolfo Juliani**. Essential Oil Composition of Purple Basils, Their Reverted Green Varieties (*Ocimum basilicum*) and Their Associated Biological Activity. Journal of Industrial Crops and Products. In press.

4.4 Research Papers (Refereed Papers)

2017. Rachel Lee, James E Simon, William Reichert[©], H. Rodolfo Juliani, and Beverly J Tepper. A Fresh Language: Olfactory Language for Basil (*Ocimum basilium*). Perfumer & Flavorist. Vol. 42, April 2017.

2016. William Reichert[©], H. Chung Park, H. Rodolfo Juliani and James E. Simon. 2016. Development of *Nepeta cataria* L. 'CR9', a New Aromatic High Yielding Z, E Nepetalactone Cultivar. HortScience 51(5): 588-591.

2015. Anam Fatima^{UG}, Tom Villani[©], Stephen Komar, James E Simon, **H. R. Juliani**. Quality and chemistry of niger seeds (*Guizotia abyssinica*) grown in the United States. Journal of Industrial Crops. 75(B): 40-42.

2015. C. M. Asensio[©], Nelson R. Grosso, **H.R. Juliani**. 2015. Quality characters, chemical composition and biological activities of oregano (*Origanum* spp.) Essential oils from Central and Southern Argentina. Industrial Crops and Products. 63: 203-213.

2015. C. M. Asensio[©], N.R. Grosso, **H.R. Juliani**. 2015. Quality preservation of organic cottage cheese using oregano essential oils. LWT - Food Science and Technology 60(2, Part 1): 664-671.

2015. J. P. Coppin, **H.R. Juliani**, Q. Wu and J. E. Simon. Variations in polyphenols and lipid soluble vitamins in *Moringa oleifera*. In: Victor R. Preedy, Editor, Processing and Impact on Active Components in Food. Elsevier. Academic Press. Amsterdam, The Netherlands. Pp 655-663.

2014. Cedric A. Sims, H. Rodolfo Juliani, S.R. Mentreddy, and James E. Simon. 2014. Essential Oils in Holy Basil (*Ocimum tenuiflorum* L.) as Influenced by Planting Dates and Harvest Times in North Alabama. Journal of Medicinally Active Plants 2(3-4): 33-41.

2013. S.W. Eisenman^G, **H. R. Juliani**, Lena Struwe and James E. Simon. Essential oil diversity in North American populations of wild tarragon (*Artemisia dracuncululus* L.). *Journal of Industrial Crops and Products*, 49: 220–232.
2013. Martin A. Kesselman, Connie Wu, Laura Palumbo, James Simon, **Hector Rodolfo Juliani**, Richard Rowe. Community Knowledge Centers for Liberia: meeting Africa's millennium goals through a unique collaboration of communities, universities, libraries, and schools for Liberia's economic and social development. *Library Hi Tech News* 30(8): 6-11.
2012. Imaël Henri Nestor Bassolé, **H.R. Juliani**. Antimicrobial Properties of Combinations of Essential Oils. *Molecules* 17(4), 3989-4006.
2012. L. M. Katikia, A. C. S. Chagas^G, R. K. Takahira, **H.R. Juliani**, J.F.S. Ferreira A. F. T. Amarante. Evaluation of *Cymbopogon schoenanthus* essential oil against *Haemonchus contortus* in lambs experimentally infected. Submitted, *Veterinary Parasitology* 186 (3–4), 312-318.
2012. H. S. Nahm^G, **H.R. Juliani**, and J.E. Simon. Effects of Selected Synthetic and Natural Antioxidants on the Oxidative Stability of Shea Butter (*Vitellaria paradoxa subsp. paradoxa*). Submitted, *Journal of Medicinally Active Plants* 1(2): 69-75.³
2011. **H. R. Juliani**, A. R. Koroch, J. A. Zygadlo, V.S. Trippi. 2011. Evaluation of micropropagation for the introduction into cultivation and conservation of *Lippia junelliana*, an endemic aromatic plant from Argentina. *Journal of Industrial Crops and Products*. 34(2): 1353– 1357.
2011. K. Malatova^G, N. Hitimana, T. Niyibizi, J.E. Simon, **H. R. Juliani**. Optimization of harvest regime and post-harvest handling in geranium production to maximize essential oil yield in Rwanda. *Journal of Industrial Crops and Products*. 34(2): 1348-1352.
2011. D. Shen^G, M.-H. Pan, Q.-L. Wu, C.-H. Park, **H.R. Juliani**, C.-T. Ho, J. E. Simon. A Rapid LC/MS/MS Method for the Analysis of Nonvolatile Antiinflammatory Agents from *Mentha* spp. 76(6): C900–C908.
2010. A.R. Koroch, **H.R. Juliani**, C. Sims^G, J. E. Simon. Antioxidant activity, total phenolics and rosmarinic acid content in different basil (*Ocimum spp.*). *Israel Journal of Plant Sciences* 58: 191–195.
2010. Shen, D. ^G, M.H. Pan, Q.L. Wu, C.H. Park, **H.R. Juliani**, C.R. Welch and J.E. Simon. Identification of the Anti-Inflammatory bioactive Compounds in Oregano (*Origanum spp.*) and their simultaneous quantitation by LC/MS. *J. Agric. Food Chemistry* 58 (12):7119–7125.
2009. Y. Wang^G, **H.R. Juliani**, J.E. Simon, C.T. Ho. Amino Acid-Dependent Formation Pathways of 2-Acetylfuran and 2,5-Dimethyl-4-hydroxy-3[2H]-furanone in the Maillard Reaction. *Food Chemistry*. 115(1): 233-237.
2009. **H.R. Juliani**, C.R. Welch^G, Q-L. Wu, B. Diouf, D. Malainy, J. E. Simon. Chemistry and quality of hibiscus (*Hibiscus sabdariffa*) for developing the natural product industry in Senegal. *Journal of Food Science*. 74(2): S113-S121.
2008. **H.R. Juliani**, J.E. Simon, C. Quansah, E. Asare, R. Akromah, D. Acquaye, J. Asante-Dartey, M.L.K. Mensah, T.C. Fleischer, R. Dickson, K. Annan, A.Y. Mensah. Chemical diversity of *Lippia multiflora* from West Africa. *J. Essential Oil Research* 20(1):49-55.



2007. R. Govindasamy, B. Onyango, V. Puduri, J.E. Simon, **H.R. Juliani**, J. Asante-Dartey, H. Arthur, B. Diawuo, D. Acquaye. Impediments to Marketing African Natural Products from Ghana: Preliminary Results. *The ICFAI Journal of Agricultural Economics* IV(1): 24-35.
2007. A.R. Koroch, C. Park, J. Kapteyn, **H.R. Juliani**, J.E. Simon. In Vitro Shoot Multiplication of *Echinacea purpurea*. *Journal of Herbs, Spices & Medicinal Plants* 13(4): 105-110.
2006. A.R. Koroch, M.S. Torres, **H.R. Juliani**, J.E. Simon, J.F. White. Host nutrient adaptation in two symbiotic fungi: *Balansia henningsiana* and *Hypocrella phyllogena* (Clavicipitaceae; Ascomycetes). *Symbiosis* 42: 39-44.
2006. **H. R. Juliani**, A.R. Koroch and J. E. Simon, N. Hitimana, A. Daka, L. Ranarivelo, P. Langenhoven. Quality of Geranium Oils (*Pelargonium* Species): Case Studies in Southern and Eastern Africa. *J. Essent. Oil Res.*, 18, 116-121 (Special Edition 2006).
2006. **H.R. Juliani**, J. Kapteyn^G, D. Jones, A.R. Koroch, M. Wang, D. Charles, J.E. Simon. Applications Using Near Infrared Spectroscopy in Quality Control and Adulteration of African essential oils. *Phytochemical Analysis* 17:121-128.
2005. F. Biurrun, **H.R. Juliani**, M.L. Lopez^G and J.A. Zygadlo. Essential oil composition of *Baccharis tenella* Hook & Arn. *Journal of Essential Oil Research* 17 (2): 122-123
2004. **H.R. Juliani**, J.A. Zygadlo, R. Scrivanti^{UG}, E. de La Sota, J.E. Simon. The essential oil of *Anemia tomentosa* (Sav.) var. *anthriscifolia* (Schrad.) *Flavour and Fragrance Journal*. *Flavour Fragr. J.* 2004; 19: 541-543.
2004. A.R. Koroch, **H.R. Juliani**, J. Bischoff, E. Lewis, G. Bills, J.E. Simon, J.F. White, Jr. Examination of plant biotrophy in the scale insect parasitizing fungus *Dussiella tuberiformis*. *Symbiosis* 37 (1-3): 267-280.
2003. A.R. Koroch, J. Kapteyn^G, **H.R. Juliani**, J.E. Simon. *In vitro* regeneration of *Echinacea pallida* from leaf explants. *In Vitro Plant Cellular and Developmental Biology* 39:415-418.
2003. C.H. Park, **H.R. Juliani**, H.W. Park, H.S. Yu, J.E. Simon. Comparison of essential oil composition between *Angelica gigas* and *Angelica acutiloba*. *Korean J. Plant Res.* 6(3) 183-187.
2002. **H.R. Juliani**, F. Biurrun, A.R. Koroch, M.M. Oliva, M.S. Demo, V.S. Trippi, J. A. Zygadlo. Chemical Constituents and Antimicrobial Activity of the Essential Oil of *Lantana xenica* Mold. *Planta Medica* 68: 756-762.
2002. A.R. Koroch, **H.R. Juliani**, J. Kapteyn^G, J.E. Simon. *In vitro* regeneration of *Echinacea purpurea* from leaf explants. *Plant Cell, Tissue and Organ Culture* 69: 79-83.
2002. **H.R. Juliani** (Jr.), A.R. Koroch, H.R. Juliani, V.S. Trippi, J.A. Zygadlo. Intraspecific variation in leaflets of *Lippia junelliana* (Mold.) Tronc. *Biochemical Systematics and Ecology* 30: 163 -170.
2002. J.E. Simon, E. Jefthas, P. Longenhoven, M. Smith, E. Renaud, **H.R. Juliani**, M. Wang, N. Zimba, D. Acquaye, C. Park, I. Raskin, P. Tannous. Challenges and Tribulations in the Commercialization of New Crops: Aromatic and Medicinal Plants. *Korean J. Medicinal Crop Sci.* 10(4): 303-313.
2000. J.W. Mwangi, G.N. Thoithi, **H.R. Juliani**, J.A. Zygadlo. Composition of the essential oil of *Microglossa pyrhopappa* (A. Rich) Agnew Var. *Pyrropappa* from Kenya. *Journal of Essential Oil Research* 13(4): 229-230.
2000. **H.R. Juliani** (Jr.), F. Biurrun, A.R. Koroch, H.R. Juliani, J.A. Zygadlo. Chemical constituents of the essential oil of *Lippia laxibracteata* Herzog (*Verbenaceae*). *Planta Medica* 66: 567-568.
2000. J. A. Zygadlo, **H. R. Juliani**, Jr. Bioactivity of essential oil components. *Minireview: Current Topics in Phytochemistry* 3: 203-214. 342 refs.
1999. **H.R. Juliani** (Jr.), A.R. Koroch, H.R. Juliani, V.S. Trippi. Micropropagation of *Lippia junelliana* (Mold.) Tronc. *Plant Cell, Tissue and Organ Culture* 59: 175-179.

1999. A.R. Koroch, **H.R. Juliani** Jr., V.S. Trippi, H.R. Juliani. Chemical constituents of the volatile oil of *Hedeoma multiflorum* Benth. (*Lamiaceae*). Journal of Essential Oil Research 11:165-166.
1998. A.V. Chebel^{UG}, A.R. Koroch, **H.R. Juliani** Jr., H.R. Juliani, V.S. Trippi. Micropropagation of *Minthostachys mollis* (H.B.K) Grieseb. and essential oil composition of clonally propagated plants. *In Vitro Plant Cellular and Developmental Biology* 34(3):249-251.
1998. **H.R. Juliani** (Jr.), A.R. Koroch, H.R. Juliani, V.S. Trippi. Variación estacional de la acumulación de aceites esenciales en *Lippia junelliana*. Anales de la Sociedad Química Argentina 86(3/6): 193-196.
1997. A.R. Koroch, **H.R. Juliani** Jr., H.R. Juliani, V.S. Trippi. Micropropagation and acclimatization of *Hedeoma multiflorum* Benth. Plant Cell, Tissue and Organ Culture 48:(3): 213-217.
1994. **H.R. Juliani** (Jr.), H.R. Juliani, V.S. Trippi, L. Ariza-Espinar. Essential oils from various plant parts of *Lippia junelliana*. Anales de la Asociación Química Argentina 82(1): 53-55.

4.5 Additional papers to highlight undergraduate research (peer-reviewed not as strict as a regular research journals)

2015. Ian MacCloud and **H.R. Juliani**. The physical, chemical, biological and sensory properties of Geraniol and Geranyl Acetate. The International Journal of Professional Holistic Aromatherapy. Volume 4, Issue 2, Fall 2015.
2015. **H.R. Juliani**, H. K. Patel^{UG}. 2015. Linalyl Acetate's Physical, Chemical, and Sensory Properties, and Biological Activities. The International Journal of Professional Holistic Aromatherapy. Volume 3, Issue 4, Spring 2015.
2014. **H.R. Juliani**, T. Turpuseema^{UG}. 2014. Bornyl Acetate: Physical, chemical, sensory properties and biological activities. The International Journal of Professional Holistic Aromatherapy. Volume 3, issue 3, Winter 2014.
2014. **H.R. Juliani** and David King^{UG}. 2014. Biological, physical-chemical properties and natural sources of the sesquiterpene hydrocarbon (E)-Caryophyllene. The International Journal of Professional Holistic Aromatherapy. The International Journal of Professional Holistic Aromatherapy. Volume 3, issue 2, Fall 2014.

4.6 Book Chapters

2013. **Juliani, H. R.**, A.R. Koroch, L. Giordano^{UG}, L. Amekuse, S. Koffa, D. Acquaye and J.E. Simon. *Piper guineense* (*Piperaceae*): Chemistry, Traditional Uses and Functional Properties of an "African Black Pepper". In: African Natural Plant Products Volume II: New Discoveries in Chemistry, Health and Nutrition. American Chemical Society (ACS) Symposium Series 1127. ACS, Washington D.C. Chapter 3, pp 33-48.
2013. A. R. Koroch, **H. R. Juliani**, J. E. Simon. Nutritional value of Fonio (*Digitaria exilis*) from Senegal. In: African Natural Plant Products Volume II: New Discoveries in Chemistry, Health and Nutrition. American Chemical Society (ACS) Symposium Series 1127. ACS, Washington D.C. Chapter 10, pp 127-133.
2013. H. S. Nahm^G, **H. R. Juliani**, J. E. Simon. Quality Characteristics of Shea Butter, *Vitellaria paradoxa*. In: African Natural Plant Products Volume II: New Discoveries in Chemistry, Health and Nutrition. American Chemical Society (ACS) Symposium Series 1127. ACS, Washington D.C. Chapter 12, pp 167-184.
2012. **H.R. Juliani**, A.R. Koroch. Introducción a la producción y destilación de aceites esenciales. In: ACEITES ESENCIALES. Química, ecología, comercio, producción y salud. J.A. Zygadlo (Ed.). UNIVERSITAS. EDITORIAL CIENTÍFICA UNIVERSITARIA (IN PRESS, ISBN: 978-987-1457-63-2). Cordoba, Argentina. Chapter 5, pp 107-126.

2009. **H.R. Juliani**, A.R. Koroch, J.E. Simon. Chemical Diversity of Essential Oils of *Ocimum* species and Their Associated Antioxidant and Antimicrobial Activity. In: Essential oils and aromas: green extractions and applications F. Chemat (France) V.K. Varshney (India), K. Allaf (France) (Eds.). M/s Har Krishan Bhalla & Sons. Dehradun, India.
2009. A.R. Koroch, **H. R. Juliani**, J.E. Simon. Biology and Chemistry of the Genus *Aloe* from Africa. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 9, pp 171-183.
2009. M. Ratsimbason, L. Ranarivelo, **H.R. Juliani**, J.E. Simon. Antiplasmodial Activity of Twenty Essential Oils from Malagasy Aromatic Plants. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 11, pp 209-215.
2009. A.R. Koroch, **H.R. Juliani**, D. Kulakowski^{UG}, H. Arthur, J. Asante-Dartey, J.E. Simon. *Voacanga africana*: Chemistry, Quality and pharmacological activity. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 20, pp 363-380.
2009. K.S. Kim, **H. R. Juliani**, M. Bucuk^{UG}, D. Acquaye, J. Asante-Dartey, Q.L. Wu, J.E. Simon. Quality Control and 5-HTP (5-Hydroxy-L-tryptophan) Analysis of Griffonia (*G. simplicifolia* (DC.) Baill.) Seed Accessions Collected in Ghana. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 21, pp 381-390.
2009. L. Ranarivelo, P. Ramanoelina, **H. R. Juliani**, J. E. Simon. Characterization of Essential Oils from *Cinnamomum camphora* T. Nees & Eberm and *Ravensara aromatica* Sonnerat from Madagascar. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 22, pp 391-400.
2009. **H.R. Juliani**, Y. Koelliker^G, M. Bucuk^{UG}, C. Welch^G, B.J. Tepper, E. Jefthas, J.E. Simon. Quality, chemistry and organoleptic profile of African herbal teas for international markets. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 23, pp 403-420.
2009. **H. R. Juliani**, Y. Fonseca^{UG}, D. Acquaye, H. Malumo, D. Malainy, J.E. Simon. Nutritional Assessment of Moringa (*Moringa oleifera*) from Ghana, Senegal and Zambia. In: African Natural Plant Products: New Discoveries and Challenges in Chemistry and Quality. H.R. Juliani, J.E. Simon, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 1021. ACS, Washington D.C. Chapter 25, pp 469-484.
2008. **H.R. Juliani**, C. Welch^G, J. Asante-Dartey, M. Wang, J.E. Simon. Chemistry, quality and functional properties of Grains of Paradise (*Aframomum melegueta*), a rediscovered spice. In: Dietary Supplements. C.T. Ho, J.E. Simon, F. Shahidi, Y. Shao (Eds.). American Chemical Society (ACS) Symposium Series 987. ACS, Washington D.C. pp 100-113.
2008. **H.R. Juliani**, T. Kwon, A.R. Koroch, J. Asante-Dartey, D. Acquaye, J. E. Simon. *Xylopiya aethiopia* (Annonaceae): Chemistry, Traditional uses and Functional Properties of An "African Pepper". In: Dietary Supplements. C.T. Ho, J.E. Simon, F. Shahidi, Y. Shao (Eds.). American Chemical Society (ACS) Symposium Series 987. ACS, Washington D.C. pp 114-128.
2008. **H.R. Juliani**, A.R. Koroch, J.E. Simon. Basil: A new source of rosmarinic acid. In: Dietary Supplements. C.T. Ho, J.E. Simon, F. Shahidi, Y. Shao (Eds.). American Chemical Society (ACS) Symposium Series 987. ACS, Washington D.C. pp 129-143.

2007. A.R. Koroch, J.A. Zygadlo, **H.R. Juliani**. Bioactivity of Essential oils and their components. In: RG Berger (Ed.) Flavours and Fragrances. Chemistry, Bioprocessing and Sustainability. Springer-Verlag, Berlin, Heidelberg, Germany. pp 87-115.
2007. C.H. Park, P. Tannous, **H.R. Juliani**, Q.L. Wu, W. J. Sciarappa, R. Van Vranken, P. Nitzsche, D. Dalponte, J.E. Simon. Catnip as a source of essential oils. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 311-315.
2007. **H.R. Juliani**, F.N. Biurrun, A.R. Koroch, A. De Carli^G, J.A. Zygadlo. The production of native and exotic herbs, medicinal and aromatic plants in Argentina. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 316-321.
2007. J.E. Simon, A.R. Koroch, D. Acquaye, E. Jefthas, **H.R. Juliani**, R. Govindasamy. Medicinal Crops of Africa. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 322-331.
2007. R. Govindasamy, J.E. Simon, V.S. Puduri, **H.R. Juliani**, J. Asante-Dartey, H. Arthur, B. Diawuo, D. Acquaye, N. Hitimana. Retailers and wholesalers of African herbal and natural products: case studies from Ghana and Rwanda. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 332-337.
2007. A.R. Koroch, L. Ranarivelo, O. Behra, **H.R. Juliani**, J. E. Simon. 2007. Quality attributes of ginger and cinnamon essential oils from Madagascar. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 338-341.
2007. C. H. Park, P. Tannous, J.E. Simon, T.O. Kwon, W. Sciarappa, L.E. Craker, R. VanVranken, W. Kline, P.J. Nitzsche, **H.R. Juliani**, R. Govindasamy. Chives and Perilla, Korean Greens for Emerging Ethnic Markets. In: Issues in New Crops and New Uses. J. Janick, A. Whipkey (Eds.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp, 228-232.
2006. **H.R. Juliani**, M. Wang, H. Moharram, J. Asante-Dartey, D. Acquaye, A. R. Koroch, J. E. Simon. Intraspecific Variation in Quality Control Parameters, Polyphenol Profile, and Antioxidant Activity in Wild Populations of *Lippia multiflora* from Ghana. In: Herbs: Challenges in Chemistry and Biology. M. Wang, S. Shengmin, L.S. Hwang, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 925. ACS, Washington D.C. pp 126-142.
2006. H. Moharram, J. Ray, S. Ozbas^{UG}, **H.R. Juliani**, J.E. Simon. Shea Butter: Chemistry, Quality and New Market Potentials. In: Herbs: Challenges in Chemistry and Biology. M. Wang, S. Shengmin, L.S. Hwang, C.T. Ho (Eds.). American Chemical Society (ACS) Symposium Series 925. ACS, Washington D.C. Pp 326-340.
2005. A.R. Koroch, **H.R. Juliani**, J.E. Simon. Biotechnology: Tissue Culture and Genetic Transformation for the Improvement of Aroma in Plants of the *Lamiaceae*. In: Processing, Analysis and Application of Essential Oils. G. Buchbauer, L. Jirovetz (Eds.). M/s Har Krishan Bhalla & Sons. Dehradun, India. pp 275 - 291.
2005. M. Wang, **H.R. Juliani**, J. E. Simon, A. Ekanem, C.P. Liang^G, C.T. Ho. Honeybush Tea: Chemistry, Analysis and Pharmacological Analyses. p. 118-142. In: Phenolic Compounds in Foods and Natural Health Products. F. Shahidi, C.T. Ho. (Eds.). American Chemical Society (ACS) Symposium Series 909. ACS, Washington D.C. pp 118-128.
2003. J.A. Zygadlo, **H.R. Juliani**. Study of essential oil composition of aromatic plants from Argentina. In: Recent Progress in Medicinal Plants. Phytochemistry and Pharmacology II. D.K Majundar, J.N. Govil, V.K. Singh (Eds.). Vol. 8: Studium Press LLC. Houston, Texas. pp 273-291.
2002. **H.R. Juliani**, J.E. Simon. Antioxidant Activity of Basil (*Ocimum* spp.). In: New Crops and New Uses: Strength in Diversity. Janick J. (Ed.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp 575-579.

2002. Y. Tadmor, E. Jefthas, J. Goliath, M. Smith, P. Langenhoven, D. Acquaye, **H.R. Juliani**, W. Letchamo, E. Renaud, N. Zimba, I. Raskin, J. Brown, J.E. Simon. Quality assurance and quality control for African Natural Plants Products from the ground up. In: *New Crops and New Uses: Strength in Diversity*. Janick J. (Ed.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp 93-99.
2002. A.R. Koroch, J. Kapteyn^G, **H.R. Juliani**, J.E. Simon. In Vitro Regeneration and *Agrobacterium* Transformation of *Echinacea purpurea* Leaf Explants. In: *New Crops and New Uses: Strength in Diversity*. Janick J. (Ed.). Am. Soc. Hortic. Sci. (ASHS) Press, Alexandria, Virginia. pp 522-526.

4.7 Industry Journals/Trade Magazines

2005. **H.R. Juliani**, O. Behra, H. Moharram, L. Ranarivelo, B. Ralijerson, M. Andriantsiferana, N. Ranjatoson, J. Rasoarahona, P. Ramanoelina, M. Wang, J.E. Simon. Searching for the Real Ravensara (*Ravensara aromatica* Sonn.) Essential Oil. A case study for “NATIORA”, the Malagasy natural product label. *Perfumer and Flavorist* 30: 60-65.

4.8 Intellectual Property

2015. “Wild Mama” A New High Yielding E, Z Nepetalactone Catnip Cultivar was released and developed by William Reichert, H. Chung Park, H. Rodolfo Juliani and James E. Simon.
2008. **US TradeMarks** (prepared and submitted by J.E. Simon, R. Govindasamy, V.S. Puduri, **H.R. Juliani**, to enhance the branding and product recognition of the African natural plant products with which we work): US Trademark Awarded for the Mpuntu African Tea, Mpuntu African Spices and Mpuntu African Cosmetics Brands and Products in the USA.

4.9 Other selected publications

2013. **H.R. Juliani**, J. E. Simon, L. Amekuse, J. Asante-Dartey, P. Man-Yeboah, A. B. Okrah. Non-Timber Forest Products Value Chain Study In PROSPER communities of Nimba and Grand Bassa, Liberia. Technical Report Prepared for USAID/PROSPER. Monrovia. Liberia.
2012. **H.R. Juliani**. Book review “V. Ravalec, M., A. Paicheler. 2007. *Iboga. The Visionary Root of African Shamanism*. Park Street Press. Rochester. Vermont. 233 pages” *Herbalgram*. IN PRESS.
2009. **H.R. Juliani**. Book review “J.A. Duke, M.J. Bogenschutz-Godwin, A.R. Ottesen. *Duke’s Handbook of Medicinal Plants of Latin America*. RC Press (Taylor and Francis Group). Hardcover 901 pages”. *Economic Botany* 64(1).
2008. **H.R. Juliani**. Book review "A. Giuliani. *Developing Markets for Agrobiodiversity: Securing livelihoods in dryland areas*. Earthscan. USA. Hardcover 126 pages". *Economic Botany* 63(1).
2007. **H.R. Juliani**. A natural trend in Herb and Botanicals. *The Association for the Advancement of Industrial Crops Newsletter*. 27(1): 7
2007. **H.R. Juliani**. Medicinal Plants, Nutraceuticals and Functional Foods. *The Association for the Advancement of Industrial Crops Newsletter*.. 27(3): 7, 9

5. Selected Participation in Competitive Grants

- 2014-2019. J.E. Simon (PI), Bala Balaguru (Co-PI), **H.R. Juliani**, Mark Robson. El Salvadorean Higher Education for Economic Development. A program funded by USAID and led by Research Triangle Institute (RTI, NC). June 2014-September 2019. \$900,000.
- 2012-2017. J.E. Simon (PI), **H.R. Juliani** (Co-PI). PROSPER (People, Resources and Organization Supporting the Protection of Ecological Resources) grant. Prime/lead organization, Tetratech/Associates for Rural Development. A program funded by USAID/Liberia May 2012-May 2017 (\$300,000, 5 years).

- 2011-2015. J.E. Simon (PI), Bala Balaguru (Co-PI), **H.R. Juliani** and others. Excellence in Higher Education for Liberian Development (EHELD). A program funded by USAID and led by Research Triangle Institute (RTI, NC). February 2011-September 2015. \$3,800,000.
- 2011-2014. J. E. Simon (PI), Andy Wyenandt (Co-PI), Rick Raid (Co-PI), Margaret T. McGrath (Co-PI) and **H.R. Juliani (Co-PI)**. Strategies for Improving Responses to Fusarium, Downy Mildew and Chilling Injury in Production of Sweet Basil (*Ocimum basilicum* L.). A research program funded by US Department of Agriculture, Specialty Crops Research Initiative (NIFA/SCRI). Project Period October 2011-September 2014. \$2,800,000.
- 2011-2012. J.E. Simon (PI), Thomas Brendler (Co-PI), **H.R. Juliani (Co-Pi)**, Inventory and rapid throughput screening of indigenous utilized plant species for development of new natural products. Millenium Challenge Account-Namibia. Project Period: 01 February 2011-29 February 2011. \$250,000.
- 2008-2009: J.E. Simon (PI), R. Govindasamy (Co-PI), **H.R. Juliani (Co-Pi)**, E. Jefthas (Co-PI), P. Langenhoven (co-PI). International Institute of Tropical Agriculture (IITA). Appropriate Germplasm for Southern Africa. \$ 40,000. Project Period: January 2008 to September 2008.
- 2004–2009. J.E. Simon (PI), D. Acquaye (Co-PI), R. Govindasamy (Co-PI), **H.R. Juliani (Co-PI)**. Partnership for Food Industry Development in Natural Products. A grant awarded by the United States Agency for International Development (USAID) \$ 2,500,000. September 30, 2004 - September 30, 2009.

6. Selected Presentations at Scientific Conferences and Invited Seminars⁴

6.1 Oral Presentations in National/ International Meetings (Last two years)

2016. H.R. Juliani. Headspace gas chromatography for the determination of volatile components in essential oil research. AAIC 2016 ASSOCIATION FOR THE ADVANCEMENT OF INDUSTRIAL CROPS INTERNATIONAL CONFERENCE. “INDUSTRIAL CROPS: PROMOTING SUSTAINABILITY”. 24-28 September, 2016. Rochester, NY
2016. **H.R. Juliani**. Using Headspace Gas Chromatography for the Determination of Volatile Components and Sensory Profiles in Medicinally Active Plants”. 7th Annual Conference American Council for Medicinally Active Plants (ACMAP) June 29 – July 1, 2016. **Lima Peru**.
2015. H.R. Juliani. Diversification in the commercial use of essential oils. 27th Annual Meeting Association for the Advancement of Industrial Crops October 18-22, 2015. Overton Hotel and Conference Center. Lubbock, Texas, USA.
2014. **H.R. Juliani**. New trends in the research and development of essential oils. International Conference in Industrial Crops and 26th Annual Meeting of the Association for the Advancement of Industrial Crops (AAIC). Program and Abstracts. September 13-19, 2014, Athens, Greece.
2014. J. E. Simon, P. N. Balaguru, C. Mulbah, F. Cooper, D. Jordan, **H. R Juliani**. Activities of the Program Excellence in Higher Education for Liberian Development (EHELD) in Developing and Implementing New Curricula at Cuttington University and University of Liberia. 46th Annual LSA Conference. Concordia University Chicago. March 27 - 29, 2014.
2013. **H. R. Juliani**, L. Amekuse, J. Asante-Dartey, R. Govindasamy, J. E. Simon. An Ethno-botanical Survey to Identify Non-Timber Forest Products in Liberia. 4th Annual Conference of the American Council for Medicinally Active Plants. June 2-5, 2013. University of Massachusetts, Amherst, MA.
2013. **H.R. Juliani**, P.N. Balaguru and J.E. Simon. Curriculum Development Activities for Cuttington University and University of Liberia. Liberian Studies Association 45th meeting. March 29-31, 2012. Rutgers University. **New Brunswick. New Jersey**.

⁴ **Highlighting undergraduate (UG), and/or graduate research (G)**

2012. **H.R. Juliani**, P.N. Balaguru and J.E. Simon. Excellence in Higher Education for Liberian Development (EHELD). Liberian Studies Association 44th meeting. March 29-31, 2012. Cornell University. **Ithaca, New York.**
2012. **H.R. Juliani**. Unique essential oils from Africa for the development of natural plant product industry. 3rd Annual Conference American Council for Medicinally Active Plants (ACMAP) Annual Meeting. May 22 – 25, 2012. Arkansas State University, **Jonesboro, Arkansas.**
2011. **HR Juliani**, LL Giordano^{UG}, AL Jennings^{UG}, AR Koroch, L Amekuse, J Aguiry, D Acquaye, S Koffa, JE Simon. Linking education, research and development: quality and safety of selected non-timber forest products from Liberia. American Council for Medicinally Active Plants (ACMAP) Annual Meeting. **Huntsville, Alabama.**
2009. **H.R. Juliani**, N. Hitimana, R. Govindasamy, J.E. Simon. A Science-Based Program to Support the Essential Oil Industry in Rwanda. AAIC 21st Annual Meeting. International Conference: The Next Generation of Industrial Crops, Processes, and Products. November 14-19. Termas de Chillán, **Chillán, Chile.**
2009. **H.R. Juliani**. Chemistry and Quality of Essential Oils and Hydrosols: Selected Studies. International Clinical Aromatherapy Conference and Wellness Expo. Fostering a New Dimension in Health Care. . October 15-19. **Crystal Lake, Illinois.**
2009. **H.R. Juliani**, J.E. Simon. Partnerships in Food Industry Development in Natural Products & Agri-Business in Sustainable Natural African Plant Products (PFID/NP and ASNAPP). Opportunities in Africa Meeting. Unilever Collaboration Center. July 17, 2009. **Bentonville, Arkansas.**
2009. **H.R. Juliani**, Y. Koelliker^G, M. Bucuk^{UG}, J.E. Simon. Linking Education, Research and Development: Quality and Consumer Studies in the USA of African Herbal Teas. 50th Annual Meeting of The Society for Economic Botany. College of Charleston. May 30 – June 8. **Charleston, South Carolina.**
2008. **H. R. Juliani**, Y. Fonseca^{UG}, J.E. Simon. Linking Education, Research and Development: A Case study on the Nutritional Assessment of Moringa (*Moringa oleifera*) in Sub-Saharan countries. Society of Economic Botany. 49th Annual Meeting. June 1-5. **Durham, North Carolina.** Duke University.
2008. **H. R. Juliani**, Y. Fonseca^{UG}, M. Diatta, J. E. Simon. Nutritional value of *Moringa oleifera* leaves from Senegal. Abstract presented to the World Congress on medicinal and aromatic plants (WOCMAP IV). November 9-14. **Cape Town. South Africa.**
2008. **H.R. Juliani**, W.M. Silva^{UG}, D. Shen^G, J.E. Simon. Quality Control and Chemistry Composition of Za'atar, a spice from the Middle East. The Association for the Advancement of Industrial Crops (AAIC). 20th Annual Meeting, New Crops & Bioproducts Development. September 7-11. **College Station, Texas.**

6.2 Poster Presentations in National/ International Meetings (Last two years)

2017. H.Rodolfo Juliani (Presenter). David Kolleh¹, Charles Mulbah², Christophe Poublanc², Rebekah Schulz², Madam Gloria Bishop¹, J. Sylvester Lahai, Hannah Farr, Theodore Brown, Lovette Tucker, Larry C. Hwang, David Jordan, Char Farin, Bir Thappa, Romelle Horton, Henrique F. Tokpal, Albert Ayeni, Abi Busia, Funmi Ibrinke, Mark Robson, James E. Simon and H. Rodolfo Juliani. Transforming Higher Education in Liberia: A Case Study at College of Agriculture and Sustainable Development, Cuttington University. Liberian Studies Association 49th Annual Conference. “Governance, Institutional Quality and Elections: Prospects and Challenges for Inclusive Democratic Statebuilding in Liberia” 30 March – 1 April, 2017. Ramapo College of New Jersey, NJ.

2017. Larry C. Hwang , H. Rodolfo Juliani, James E. Simon. Sustainable Harvesting of Non-Timber Forest Products in Liberia to Preserve the Environment and Generate Income Opportunities for Rural Liberians. Liberian Studies Association 49th Annual Conference. “Governance, Institutional Quality and Elections: Prospects and Challenges for Inclusive Democratic Statebuilding in Liberia” 30 March – 1 April, 2017. Ramapo College of New Jersey, NJ.
2016. H. Rodolfo Juliani, A.R. Koroch, and J.E. Simon. Essential oils of basil (*Ocimum sp*) and their associated antioxidant and antimicrobial activity. AAIC 2016 ASSOCIATION FOR THE ADVANCEMENT OF INDUSTRIAL CROPS INTERNATIONAL CONFERENCE. “INDUSTRIAL CROPS: PROMOTING SUSTAINABILITY”. 24-28 September, 2016. Rochester, NY.
2016. S. Rao Mentreddy, C.A. Sims, **H.R. Juliani**, and James E. Simon. Effects of Agronomic Treatments on the Growth and Essential Oil Composition of Basil. 7th Annual Conference American Council for Medicinally Active Plants (ACMAP) June 29 – July 1, 2016. **Lima Peru.**
2016. **H. R. Juliani**, Larry Hwang, Alexandra Mathews, and James E. Simon. Chemical Composition of Essential Oils from the Pods of Liberian *Xylopiya aethiopia*. 7th Annual Conference American Council for Medicinally Active Plants (ACMAP) June 29 – July 1, 2016. **Lima Peru.**
2015. P.C. Brunetti, M. Ojeda, and H. Rodolfo Juliani. Chemical assessment of wild germplasm of *Lippia integrifolia*: a native aromatic and medicinal plant from Argentina. 27th Annual Meeting Association for the Advancement of Industrial Crops October 18-22, 2015. Overton Hotel and Conference Center. Lubbock, Texas, USA.
2014. M Muehlbauer, T Villani, J Simon, **H Juliani**, T Molnar. Lipid profiles of a diverse collection of *Corylus* species and interspecific hybrids. XXIX International Horticultural Congress on Horticulture: Sustaining Lives, Livelihoods and Landscapes (IHC2014): 1109, 29-34
2014. C.M. Asensio, N.R. Grosso, and **H. R. Juliani**. Physical and chemical properties of oregano (*Origanum spp.*) Essential oils from central and southern Argentina. International Conference in Industrial Crops and 26th Annual Meeting of the Association for the Advancement of Industrial Crops (AAIC). Program and Abstracts. September 13-19, 2014, Athens, Greece.
2014. A. Fatima, S. Komar, J.E. Simon, **H.R. Juliani**. Linking education, research and development: quality and chemistry of New Jersey grown niger seeds. International Conference in Industrial Crops and 26th Annual Meeting of the Association for the Advancement of Industrial Crops (AAIC). Program and Abstracts. September 13-19, 2014, Athens, Greece.
2014. Anam Fatima, Steve Komar, J. E. Simon, **H. R. Juliani**. Systematic Evaluation of Nutritional Properties of New Jersey Grown Niger Seeds (*Guizotia abyssinica*). April 8 - 10. Foran Hall. SEBS. Rutgers University.
2013. **H.R. Juliani**, L. Hwang ^G, D. Byrnes ^G, L. Amekuse, J.A. Dartey, J.E. Simon. Quality and chemistry of new spices from the Guinea forest of Liberia. 25th Meeting of the Association of the Advancement of Industrial Crops. October 13-16. Washington DC.
2013. **H. R. Juliani**, L. Hwang ^G, Yuanshuo Qu ^{UG}, Jialiu Zhang ^{UG}, L. Amekuse , Julie Asante-Dartey, James E. Simon. Linking Education, Research and Development: Quality Control Standards of Liberian Non-Timber Forest Products (NTFP). 4th Annual Conference of the American Council for Medicinally Active Plants. June 2-5, 2013. University of Massachusetts, Amherst, MA.
2013. C.M. Asensio ^G, M. Larrauri, R. Grosso, **H.R. Juliani**. Preservation of quality parameters in cottage cheese added with essential oils of four Argentinean oregano species as natural antioxidant. Institute of Food Technologists. July 13-16. **Chicago, Illinois.**
2012. **H. R. Juliani**, L. Giordano ^{UG}, A.R. Koroch, L. Amekuse, D. Acquaye, J. E. Simon. Linking education, research and development: Volatile and non-volatile components of *Piper guineense* from Liberia. 3rd Annual Conference American Council for Medicinally Active Plants (ACMAP) Annual Meeting. May 22 – 25, 2012. Arkansas State University, **Jonesboro, Arkansas.**

2011. **H. R. Juliani**, S.J. Park ^{UG}, C.H. Park, B. Graf, R. Graziose, I. Raskin, J.E. Simon. The GIBEX Bioassays to Assess Biological Activities of African Plant Products. American Council for Medicinally Active Plants (ACMAP) Annual Meeting. **Huntsville, Alabama.**
2010. H.S. Nahm ^G, **H. R. Juliani**, J.E. Simon. Chemical & Physicochemical Properties of Ghanaian Shea Butter. American Council for Medicinally Active Plants (ACMAP) Annual Meeting. **New Brunswick, New Jersey.**
2009. K. Malatova ^G, N. Hitimana, T. Niyibizi, **H.R. Juliani**, J.E. Simon. Optimization of Diurnal Harvest Regime and Wilting Conditions During Production of Ikirezi geranium Essential Oil in Rwanda. AAIC 21st Annual Meeting. 2009 International Conference: The Next Generation of Industrial Crops, Processes, and Products. November 14-19. Termas de Chillán, **Chillán, Chile.**
2009. **H.R. Juliani**, H.S. Nahm ^G, J. Ghuman ^{UG}, J.E. Simon. The Quality and Chemistry of Shea Butter from the Buipe area (Northern Ghana). AAIC 21st Annual Meeting. 2009 International Conference: The Next Generation of Industrial Crops, Processes, and Products. November 14-19. Termas de Chillán, **Chillán, Chile.**
2009. **H.R. Juliani**, K. Dawson ^{UG}, B. Diouf, J.E. Simon. Linking Education, Research and Development: The consistent production of high quality Hibiscus sabdariffa calyces in Senegal. Society for Economic Botany. College of Charleston. May 30 – June 8. **Charleston, South Carolina.**
2008. **H. R. Juliani**, A.R. Koroch, J. E. Simon, H. Malumo. 2008. Assessment of the nutritional value of Fadogia herbal tea from Zambia. Abstract presented to the World Congress on medicinal and aromatic plants (WOCMAP IV). November 9-14. **Cape Town. South Africa.**
2008. **H. R. Juliani**, J. Coppin ^G, K.S. Kim, H. Malumo, B. Diawuo, J.E. Simon. Quality and Chemistry of African Birds Eye Chili (*Capsicum frutescens*) from Zambia. Abstract presented to the World Congress on medicinal and aromatic plants (WOCMAP IV). November 9-14. **Cape Town. South Africa.**
2008. **H. R. Juliani**, J. Coppin ^G, N. Hitimana, Q.L. Wu, J. E. Simon. Variation in the Nutritional Value of Moringa (*Moringa oleifera*) from Rwanda (Poster presentation). AAIC 20th Annual Meeting, New Crops & Bioproducts Development. September 7-11. **College Station, Texas.**
2008. **H.R. Juliani**, D. Kulakowski ^{UG}, A.R. Koroch, J.E. Simon. Linking Education, Research and Development: A case study on developing quality control standards of Vocanga africana seeds. Society of Economic Botany. 49th Annual Meeting. June 1-5. Duke University. **Durham, North Carolina.**
2008. **H.R. Juliani**, N. Norville ^{UG}, J.E. Simon. Linking Education, Research and Development: Organoleptic and chemical profile of plant-derived oils from Zambia. Society of Economic Botany. 49th Annual Meeting. June 1-5. Duke University. **Durham, North Carolina.**
2008. **H. R. Juliani**, Mike Bukuc ^{UG}, O. Siddiqui ^{UG}, J.E. Simon. Linking education, research and development: Chemistry and Quality and of herbal teas and spices from Africa. Society of Economic Botany. 49th Annual Meeting. June 1-5. Duke University. **Durham, North Carolina.**

6.3 Selected Invited Seminars

2012. **H.R. Juliani**. December 13. Research methodology and scientific writing: experiences in undergraduate research. Cuttington University. **Suakoko. Liberia.**
2011. **H.R. Juliani**. April 22. Developing the natural plant products industry in West Africa. Department of Biology. Rider University. **Lawrenceville. New Jersey.**

2008. March 14. **H.R Juliani**, C. Welch^G, Q.L. Wu, B. Diouf, D. Malainy, J.E. Simon. Empowering African Women Groups in the production of hibiscus using a science driven model of economic development in Senegal. Food Science Department. **Rutgers University**.
2007. April 13. **H.R Juliani**, J.E. Simon. Development of a Quality Control Program for Natural Products. Case Studies on Hibiscus, Moringa and Paprika. International Institute for Tropical Agriculture (IITA), Chitedze Research Station, **Lilongwe, Malawi**.

7. Other Professional Activities and Services

7.1 Participation in faculty development workshops

2012. November 15. Hybrid and Online Instructional Strategies. Center for Online & Hybrid Learning and Instructional Technologies. Duration: 3 hours. Rutgers University. New Brunswick, New Jersey.
2012. October 15-17. Genetic barcoding of vascular plants. Duration: three days (24 hours). New York Botanical Garden. New York. New York.
- 2012-13. May. Faculty Development Day. Duration: 8 hours. Rider University. Lawrenceville. New Jersey.
2011. October 1 - 2. Microscopic Identification of Popular Botanical Materials. American Herbal Products Association. Duration: two days (16 hours). Rutgers University, NJ.

7.2 Selected Consultant Services

2006. **H.R. Juliani**. Team Leader “Herb, Medicinal and Aromatic Plant (H/MAP) Supply Chain Study (Upper Egypt)” January 16 to February 10. Contractor’s Name: Midwest Universities Consortium for International Activities, Inc. 452 Mumford Hall, 1301 Gregory Drive Urbana, IL 61801 USA.
2017. **H.R. Juliani**. “Twinning support to Rwanda Bureau of Standards (RBS) to strengthen quality infrastructure and facilitate Rwandan bussiness to export”. May 22 to May 26, 2017. Contracting institution: The British Standard Institution. London, UK.

7.3 Manuscript Reviewer

Reviewer for: American Chemical Society Books, Current Bioactive Compounds, Chirality, Journal of Essential Oils Bearing Plants, Journal of Industrial Crops and Products, Journal of Herbs, Spices and Medicinal Plants, Journal of Food Science, Latin American and Caribbean Bulletin of Aromatic and Medicinal Plants, Journal of Medicinally Active Plants.

7.4 Participation in Trade Shows in Support for International Development Work

- 2001-2009. September. ExpoEast. Washington DC (2001 to 05), Baltimore MD (2006-07), Boston MA (2008) (as exhibitor to organize and provide logistic support for booth set up for ASNAPP).
- 2003 & 2009. Fancy Food Show. New York City. July 5-8 (03), June (09). (as ASNAPP exhibitor) (In 2003, our teas were recognized as a Pick-of-the Aisle by Gourmet Retailer for their high quality).

7.5 Memberships and Affiliations (Last three years)

Current

Association for the Advancement of Industrial Crops (AAIC): Chair of the Medicinal and Nutraceutical Plant Division (2008-2010 and 2013-2017.). American Chemical Society, Society of Economic Botany (SEB), Botanical Society of America (BSA), National Geographic Society, Smithsonian (Scholar level), , Editorial Advisory Board for the Journal of Applied Research on Medicinal and Aromatic Plants, Editorial Advisory Board for the Journal of Industrial Crops and Products.

Past

International Society for Horticultural Sciences (ISHS), Longwood Gardens (Kennett Square, PA). Member of the working Group on the Safe Use of Essential Oils of the American Herbal Products Association. Member of the Board of Trustees of the Non-Governmental Organization Agribusiness in Sustainable Natural African Plant (ASNAPP-USA). Member of the Advisory Board for the Latin American and Caribbean Bulletin of Aromatic and Medicinal Plants (www.blacpma.org). Member of the Editorial Advisory Board for the Journal of Herbs, Spices and Medicinal Plants.

7.6 Community Services and Outreach

2007-2009. Member of the core team “Kids Helping Kids”, to promote education, relationship building and fundraising in our community of Highland Park (NJ). The “Project Zambia” has raised funds for over \$12,000 to help build the Shiyala Community School in Chongwe (a small town near Lusaka), a new three-classroom building is now finished and accommodates 300 orphans and vulnerable children. My participation in Kids Helping Kids was highlighted in several articles in local (The Home News Tribune) and our town’s (The Mirror) newspapers.

June 2015-Current. Member of the Community Emergency Response Team (CERT) for the Office of Emergency Management of Highland Park, New Jersey.