

CURRICULUM VITAE
A. A. Leslie Gunatilaka

Natural Products Center (SW Center for Natural
Products Research & Commercialization)
School of Natural Resources and the Environment
College of Agriculture and Life Sciences
University of Arizona

250 E. Valencia Road
Tucson, AZ 85706-6800, U.S.A.
Telephone: (520) 621-9932
Fax: (520) 621-8378
e-mail: leslieg@cals.arizona.edu

Education

- 1968 B.S. Honors (Chemistry), University of Ceylon, Peradeniya, Sri Lanka
- 1974 Ph.D. in Chemistry and Diploma of Imperial College
Imperial College of Science and Technology, University of London, England
[Derek H.R. Barton, F.R.S., *Nobel Laureate*, Advisor]
- 1973-1974 Science Research Council Postdoctoral Fellow in Chemistry
Imperial College of Science and Technology, University of London, England
[Derek H.R. Barton, Ph.D., F.R.S., *Nobel Laureate*, Mentor]
- 1979 Visiting Scholar, Department of Chemistry, Imperial College of Science and Technology,
University of London, England [Anthony G.M. Barrett, Ph.D., F.R.S., Mentor]
- 1980-1981 Visiting Scholar, Department of Chemistry, Stanford University, California
[Carl Djerassi, Ph.D., Mentor]
- 1983-1984 Visiting Senior Research Associate, Department of Chemistry, Virginia Polytechnic
Institute & State University [David G.I. Kingston, Ph.D., Mentor]
- 1989-1996 Senior Research Scientist, Department of Chemistry, Virginia Polytechnic Institute & State
University [David G.I. Kingston, Ph.D., Mentor]

Academic Appointments

Present Positions

- 2000-present Professor, School of Natural Resources and the Environment, College of Agriculture and
Life Sciences, U Arizona
- 2000-present Professor, Bio5 Institute for Collaborative Research, U Arizona
- 2002-present Director, SW Center for Natural Products Research and Commercialization, U Arizona
- 2009-present Adjunct Professor, Department of Nutritional Sciences, U Arizona
- 1998-present Comprehensive Member, Arizona Cancer Center

Previous Significant Positions

- 1998-2002 Associate Director, SW Center for Natural Products Research and Commercialization
- 1997-2000 Associate Professor of Arid Lands Studies, U Arizona
- 1989-1996 Visiting Professor, Virginia Polytechnic Institute & State University
- 1989-1997 Head, Department of Chemistry, University of Peradeniya, Sri Lanka
- 1984-1989 Professor of Organic Chemistry, University of Peradeniya, Sri Lanka

Significant Honors and Awards

2012	Leading Edge Award in Recognition of Innovative Research, U Arizona
2007	Keynote Speaker and Chief Guest, Chemtech 2007 International Conference, Colombo, Sri Lanka
2006	Outstanding Faculty Award, University of Arizona Asian American Association
2003	Research Faculty of the Year Award, College of Agriculture & Life Sciences, U Arizona
2001	CaPCURE 2000 Research Award for Prostate Cancer Research
1997	Elected Fellow, Academy of Sciences for the Developing World (TWAS), Italy, "In recognition of outstanding contributions to science and to the development of science in the South"
1987	Sri Lanka Presidential Award for Scientific Achievement "For Achievements in Scientific Research Towards Harnessing Natural Product Resources of Sri Lanka and Development of Center of Academic Excellence in Natural Product Chemistry at the University of Peradeniya"
1984	Elected Fellow, National Academy of Sciences, Sri Lanka
1983	Institute of Chemistry (Ceylon) Gold Medal for the most outstanding scientific contributions

Other Honors and Awards

2013	Invited Plenary Lecturer, Advanced School on Natural Products, Medicinal Chemistry and Organic Synthesis – Integrated Solutions for Tomorrow's World, Sao Paulo, Brazil
2013	Member, International Advisory Board of the Centers for Research Innovation and Dissemination (CEPID), Brazil
2013	Member, Scientific Advisory Committee, International Society for Ethnopharmacology, Chile
2012	Invited Plenary Lecturer, International Conference on Role of Chemistry Research in National Development, Colombo, Sri Lanka
2012	Member, Scientific Advisory Committee, Third Brazilian Conference on Natural Products
2011	Invited Plenary Lecturer, International Symposium on Natural Products and their Applications in Health and Agriculture, Kandy, Sri Lanka
2000	Third World Academy Visiting Professor Award
1980	Elected Fellow, Institute of Chemistry (Ceylon)
1979	Royal Society (U.K.) Visiting Fellowship
1979	World Health Organization Visiting Scientist Award
1970-1974	Commonwealth Scholarship (for Graduate studies in England)
1968	Gold Medal for Academic Excellence, University of Ceylon, Sri Lanka

Major Research Interests

Natural products science focusing on innovative strategies for the discovery and development of small-molecule natural products for medicine and agriculture, chemistry and biology of arid land plants and symbiotic microorganisms, biodiversity conservation, plant-fungal interactions, and medicinal plants.

Institutional Service

2007-2012	Chair, Office of Arid Lands Studies Annual Faculty Performance Review Committee
2006-2010	Board Member, Desert Legume Project, U Arizona
2004-2006	Member, Promotion and Tenure Committee, College of Agriculture & Life Sciences, U Arizona
2002-2009	Member, Executive Committee, Arid Lands Resource Sciences Graduate Interdisciplinary Program, U Arizona
1998-2006	Member, Research Committee of the Boyce Thompson Southwestern Arboretum

Other Significant Professional Positions and Services (Since 2005)

Academic, Scientific Societies & Agencies

- 2012 Chair, Natural Product Based Drug Discovery & Design Session and Member, Organizing Committee, American Chemical Society 33rd National Medicinal Chemistry Symposium, Tucson, AZ
- 2008 Organizer (Jointly with Dr. William Fenical of Scripps Institution of Oceanography), Sand and Sea Natural Products Symposium of American Chemical Society 42nd Western Regional Meeting held in Las Vegas, NV
- 2007-2009 Member, American Chemical Society Committee for Ernest Guenther Award in the Chemistry of Natural Products
- 2006-2007 Member, Advisory Committee to the Ruler of Sharjah for Creation of a Natural Products Center within the Sharjah Research Cooperation
- 2005-date Advisor, BIOTA-SP Program, Brazil

Editorial and Editorial Advisory Boards

- 2010 Co-Editor, Special Issue of the *Journal of Natural Products* dedicated to Prof. David G. I. Kingston on his 65th Birthday
- 2010-date Editorial Board (Honorary Member), *Botanics, Targets and Therapy*
- 2010-date Associate Editor, *Frontiers in Ethnopharmacology*
- 2009-date Editorial Board, *Chinese Journal of Natural Medicines* (International Edition)
- 2008-2011 Editorial Advisory Board, *Planta Medica*
- 2007-2010 Editorial Advisory Board, *Natural Product Communications*
- 2006-2009 Editorial Advisory Board, *Natural Product Research*

Federal & State Government Agencies

- 2011-present Ad Hoc Member, NIH Study Section, National Center for Complementary & Alternative Medicine
- 2010-present Peer Review Consultant, Florida Department of Health
- 2010 Ad Hoc Member, NIH Study Section, National Institute of Allergy & Infectious Diseases
- 2009 Ad Hoc Member, NIH Study Section on Drug Discovery and Development
- 2006 Reviewer of Research Projects submitted to the State Natural Science Award, P.R. China
- 2006 Ad Hoc Member, NIH Study Section on Drug Discovery and Development and Biological Chemistry and Macromolecular Biophysics
- 2006 Ad Hoc Member, NIH Study Section on Radioimmunotherapy and Radiation Biology
- 2005 Ad Hoc Member, NIH Study Section on Drug Discovery and Development and Biological Chemistry and Macromolecular Biophysics
- 1997-present Peer Review Consultant, Third World Academy of Sciences, Italy

Foundations & Industry

- 2006-2012 Advisory Board Member, VBru Biotech Inc., MI
- 1998-date Advisor, Natural Products Program, International Foundation for Science, Sweden
- 2004-2006 Member, Chemistry Advisory Board, Tapestry Biotherapeutics, Inc., Boulder, CO
- 2000-2005 Consultant, Native American Botanics Inc., AZ

Memberships

American Chemical Society, American Society of Pharmacognosy, International Union of Pure and Applied Chemistry, National Academy of Sciences (Sri Lanka), Academy of Sciences for the Developing World (TWAS, Italy)

Training of Scientists

*Postdoctoral Research Associates & Visiting Professors (*current)*

2013-2014	Jianguang Luo, Ph.D. (Visiting Chinese Government Scholar)
2013-2014	Qingxiong Yang, Ph.D. (Visiting Chinese Government Scholar)
2013-2014	Maria Ferreira De Olivera, Ph.D. (Visiting Professor from Brazil)
2013-2014	Jiar Mafezoli, Ph.D. (Visiting Professor from Brazil)
2013-2014	Sandro Minguzzi, Ph.D. (Visiting Professor from Brazil)
2013-2013	Baoming Feng, Ph.D. (Visiting Chinese Government Scholar)
2011-2013	Kamal Gunaherath, Ph.D. (Visiting Scholar from Sri Lanka)
2012-2012	Angela Hofmann, Ph.D. (Sabbatical Visitor-University of Portland, USA)
2011-2012	Chuanrui Zhang, Ph.D. (Visiting Scholar from China)
2011-2012	Anoja Wanigasekera, Ph.D. (Visiting Fulbright Scholar from Sri Lanka)
2010-2011	Xiao-Ning Wang, Ph.D. (Visiting Chinese Government Scholar)
2009-2013	Bharat Bashyal, Ph.D.
2008-2009	Hongping He, Ph.D. (Visiting Scholar from China)
2005-2007	Song Gao, Ph.D. (Visiting Scholar from China)
2005-2006	Guanhu Bao, Ph.D. (Visiting Scholar from China)
2005-present	Yaming Xu, Ph.D.*(Visiting Scholar from China)
2005-2008	Priyani Paranagama, Ph.D. (Visiting Fulbright Scholar from Sri Lanka)
2004-2005	Maria Ramirez-Ahumada, Ph.D.
2004-2005	Si Wang, Ph.D. (Visiting Scholar from China)
2004-2004	John Rimoldi, Ph.D. (Sabbatical Visitor-University of Mississippi, USA)
2003-2004	Maria Teresa Guterrez, Ph.D.
2003-2004	Niranjan Reddy, Ph.D.
2003-2007	Bharat Bashyal, Ph.D.
2003-2006	Jixun Zhan, Ph.D.
2003-2004	Jian He, Ph.D.
2002-2004	Kamal Gunaherath, Ph.D.
2002-2003	Jacqueline Takahashi (Visiting Scholar-University of Minas Gerais, Brazil)
2002-2002	Ahad Ali, Ph.D.
2002-2003	Narendrababu Kantipudi, Ph.D.
2000-2001	Guangxiong Zhou, Ph.D.
2000-2000	Jing-Yu Liang, M.S. (Visiting Scholar, China Pharmaceutical University)
1999-present	Kithsiri Wijeratne, Ph.D. (Assistant Research Scientist)
1999-2000	Joseph LeFevre, Ph.D. (Sabbatical Visitor, State University of New York)
1998-2000	Claudia Brochini, Ph.D. (Visiting Scholar, University of Sao Paulo, Brazil)

Doctoral and Masters Students

Thesis Advisor

2004- 2007	MD/Ph.D.	Ryan Falsey (Cancer Biology GIDP)
1999-2005	Ph.D.	Tommy Turbyville (Cancer Biology GIDP)
1998-2001	Ph.D.	Todd Furbacher (Pharmaceutical Sciences)
1997-2000	Ph.D.	Teena Heyden (Arid Lands Resource Sciences GIDP)

Committee Member

2007-2010	Ph.D.	Lisa Philander (Arid Lands Resource Sciences GIDP)
2005-2007	MS	Amanda Scholz (Plant Sciences)
2003-2005	Ph.D.	Ross Meyers (College of Pharmacy)
2002-2005	Ph.D.	Smriti Khera (College of Pharmacy)
2002-2005	Ph.D.	Elisabeth Poscher (Arid Lands Resource Sciences GIDP)
2001-2002	Ph.D.	Lauri Monti (Arid Lands Resource Sciences GIDP)
1998-2002	Ph.D.	Amy Eisenberg (Arid Lands Resource Sciences GIDP)

1998-2001	Ph.D.	Joshua Lambert (College of Pharmacy)
1997-2000	Ph.D.	Melissa Flagg (College of Pharmacy)

Visiting Graduate Students

2015-present	M.S.	Felipe Hilario (Brazil)
2014-present	Ph.D.	Thiago Sousa Porto (Brazil)
2014-present	Ph.D.	Juliana A. Gubiani (Brazil)
2013-2014	Ph.D.	Han Wei (China)
2013-2014	Ph.D.	Paula Ucho (Brazil)
2012-2013	Ph.D.	Vanessa Chapla (Brazil)
2012-2012	Ph.D.	Ricardo Furtado (Brazil)
2010-2011	Ph.D.	Danilo Rocha (Brazil)
2009-2009	Ph.D.	Gisele Messiano (Brazil)
2009-2009	M.S.	Atia Shahanaz (Pakistan)
2000-2001	Ph.D.	Carlos Carbonezi (Brazil)
2000-2001	Ph.D.	Paulo Carvalho (Brazil)

Evaluation of Ph.D. Theses of Other Universities

Twelve Ph.D. theses submitted to H. E. J. Research Institute of Chemistry, University of Karachi

Research Collaborators

University of Arizona : Louise Canfield, Ph.D. (Biochemistry and Biophysics)
 : Elizabeth Arnold, Ph.D. (Plant Sciences)
 : Elizabeth Vierling, Ph.D. (Biochemistry and Biophysics)
 : Linda Meade-Tollins, Ph.D. (Surgery)
 : Istvan Molnar, Ph.D. (OALS, SNRE)
 : Daruka Mahadevan, M.D., Ph.D. (AZCC)
 : Steven McLaughlin, Ph.D. (OALS)
 : Hans VanEtten, Ph.D. (Plant Sciences)
 : Leland Pierson, Ph.D. (Plant Sciences)
 : Dennis Ray, Ph.D. (Plant Sciences)
 : Robert Dorr, Ph.D. (AZCC)
 : Neil Jacobsen, Ph.D. (Chemistry)
 : Eli Chapman, Ph.D. (Pharmacy)
 : Donna Zhang, Ph.D. (Pharmacy)

Arizona State University : Stanley Faeth, Ph.D. (Biological Sciences)
 : Jeffrey Langland, Ph.D. (Biodesign Institute)

Translational Genomics Institute (TGen) : Dan VonHoff, Ph.D.
 : Michael Berens, Ph.D.

Whitehead Institute, MIT : Susan Lindquist, Ph.D.
 : Luke Whitesell, M.D.
 : Sandro Santaga, M.D., Ph.D.

National Cancer Institute : Thomas Sayers, Ph.D.

Josephine Ford Cancer Center : Fred Valeriote, Ph.D.

Nuvogen Research, LLC : Richard Kris, Ph.D.
 : Steven Felder, Ph.D.

Brazil : Vanderlan Bolzani, Ph.D. (University of Sao Paulo)
 : Maysa Furlan, Ph.D. (University of Sao Paulo)

- : Maria X. Lopes, Ph.D. (University of Sao Paulo)
 : Ligia Valente, Ph.D. (Federal University of Rio de Janeiro)
- Canada* : Leah Cowen, Ph.D. (University of Toronto)
 : Jean-Pierre Julien, Ph.D. (Laval University, Quebec)
 : Daniel Wattier, CEO (ImStar Therapeutics)
- China* : De-an Guo, Ph.D. (Shanghai Institute of Materia Medica)
 Jing-yu Liang, M.S. (China Pharmaceutical University)
- Sri Lanka* : Kamal Gunaherath, Ph.D. (Open University)
 : Priyani Paranagama, Ph.D. (University of Kelaniya)

Publications (since 2005)

Books

Functional Group Analysis in Organic Chemistry, S. Sotheeswaran and **A.A.L. Gunatilaka**, Institute of Chemistry, Ceylon, College of Chemical Sciences Publication, 2009, 64 pp.

Book Chapters

Plant Steroids: Occurrence, Biological Significance and Their Analysis, G.M.K.B. Gunaherath and **A.A.L. Gunatilaka** in Encyclopedia of Analytical Chemistry – Plant Analysis (Ed. K. Hostettmann), John Wiley & Sons, 2014, 2, 727–752 (DOI: 10.1002/9780470027318.a9931).

Bioprospecting Legumes of Arizona, **A.A.L. Gunatilaka** in Legumes of Arizona: An Illustrated Flora and Reference (Ed. Kisten Lake), 2013, 9 pp, In press.

Natural Products from Bacteria and Fungi, **A.A.L. Gunatilaka** and E.M.K. Wijeratne in UNESCO Encyclopedia of Life Support Systems (EOLSS), Phytochemistry & Pharmacognosy (Eds. J. Pezutto & M. Kato), UNESCO Press, 2012, 27 pp.

Fungal Secondary Metabolites, **A.A.L. Gunatilaka**, McGraw-Hill Yearbook of Science and Technology, 2010, pp. 156-159.

Pharmacognosy at the University of Arizona, B.N. Timmermann, J.R. Cole, and **A.A.L. Gunatilaka** in *The American Society of Pharmacognosy 50 Years of Progress in Natural Products Research* (Eds. G.M. Cragg, J. Beutler, and W.P. Jones), Omni Press, Madison, WI, 2009, pp. 110-112.

Microbial Transformation by *Beauveria bassiana*, J. Zhan and **A.A.L. Gunatilaka** in *Advances in Fungal Biotechnology* (Ed. M. Pai), I.K. International, 2009, pp. 226-252.

Chemical Diversity of Natural Products in Plants, **A.A.L. Gunatilaka**, Wiley Encyclopedia of Chemical Biology, John Wiley and Sons, 2008, Volume 3, pp. 261-277.

Potential Anticancer Natural Products from Plant-Associated Fungi, M.T. Marron and **A.A.L. Gunatilaka** in *Selected Topics in Natural Products Chemistry* (Ed. R. Ikan), World Scientific, 2007, pp 445-487.

Biodiversity Conservation and Drug Development in Suriname, D.G.I. Kingston, **A.A.L. Gunatilaka**, B.N. Zhou, M. Abdel-Kader, J. Berger, H. Van der Werff, R. Evans, L. Famolare, R. Mittermeier, S. Malone, and J.H. Wisse in *Chemistry, Biological and Pharmacological Properties of Medicinal Plants from Americas* (Ed. K. Hostettmann et al.), Harwood Academic Publishers, 1999, pp 111-124.

Embryotoxic Effect of *Plumeria rubra*, V.K. Gunawardana, M.M. Goonasekara, G.M.K.B. Gunaherath, **A.A.L. Gunatilaka** and K. Jayasena in *Toxic Plants and other Natural Toxicants* (Eds. T. Garland and C.A. Barr), CAB Internat. Press, Wallingford, U.K., 1998, pp 317-322.

Alkaloids from Sri Lankan Flora, **A.A.L. Gunatilaka** in *The Alkaloids*, Vol.52 (Ed. G.A. Cordell). Academic Press, San Diego, 1998, pp 1-101.

DNA-Damaging Natural Products with Potential Anticancer Activity, **A.A.L. Gunatilaka** and D.G.I. Kingston in *Studies in Natural Product Chemistry*, Vol 20, Part A (Ed. Atta-ur-Ralirman), Elsevier Science Publishers, Amsterdam, 1997, pp. 457-505.

Editorial

Special Issue in Honor of Professor David G.I. Kingston, **A.A.L. Gunatilaka**, Vanderlan da S. Bolzani, and David Newman, *J. Nat. Prod.*, 2009, **72**, 325-326.

Refereed Journal Articles since 2000 (From a Total of Over 270)

Discovery of potent 17β -hydroxywithanolides for castration-resistant prostate cancer by high-throughput screening of a natural products library for androgen-induced gene expression inhibitors, Xu, Y.; Liu, M. X.; Grunow, N.; Wijeratne, E. M. K.; Paine-Murrieta, G.; Felder, S.; Kris, R. M.; **Gunatilaka, A. A. L.** *J. Med. Chem.*, 2015, **58**, 6984–6993.

Sesquiterpenes and other constituents of *Xylaria* sp. NC1214, a fungal endophyte of the moss *Hypnum* sp., Wei, H.; Xu, Y.; Espinosa-Artiles, P.; Liu, M. X.; Luo, J. G.; U'Ren, J. M.; Arnold, A. E.; **Gunatilaka, A. A. L.** *Phytochemistry*, 2015, **118**, 102–108.

Withaferin A analogs that target the AAA+ chaperone, Tao, S.; Tillotson, J.; Wijeratne; E. M. K.; Xu, Y.; Kang, M.; Wu, T.; Lau, E. C.; Mesa, C.; Mason, D. J.; Brown, R. V.; La Clair, J. J.; **Gunatilaka, A. A. L.**; Zhang, D. D.; and Chapman, E. *ACS Chem. Biol.* 2015, **10**, 1916–1924.

Cytotoxic Cytochalasins and Other Metabolites from Xylariaceae sp. FL0390, a Funga Endophyte of Spanish Moss, Xu, Y.; Bashyal, B. P.; Liu, M. X.; Espinosa-Artiles, P.; U'Ren, J. M.; Arnold, A. E.; and **Gunatilaka, A. A. L.**, *Nat. Prod. Commun.*, 2015, **10**, in Press.

Functional chromatographic technique for natural product isolation, Lau, E. C.; Mason, D. J.; Eichhorst, N.; Engelder, P.; Mesa, C.; Wijeratne, E. M. K.; Gunaherath, G. M. K. B.; **Gunatilaka, A. A. L.**; La Clair, J. J.; Chapman, E. *Org. Biomol. Chem.* 2015, **13**, 2255–2259.

Pulvinulin A, Graminin C, and *cis*-Gregatin B – New Natural Furanones from *Pulvinula* sp. 11120, a Fungal Endophyte of *Cupressus arizonica*, E. M. K. Wijeratne, Y. Xu, A. E. Arnold, **A. A. L. Gunatilaka**, *Nat. Prod. Commun.*, 2015, **10**, 107–111.

Traditional medicine inspired discovery of natural product-based drugs for the treatment of modern day diseases, **A. A. L. Gunatilaka**, *Euro. J. Integrative Med.*, 2015, **6**, 694.

Biomass production and withaferin A synthesis by *Withania somnifera* grown in aeroponics and hydroponics, P. von Bierberstein, P.: Y. Xu; **A. A. L. Gunatilaka**; R. Gruener, *HortScience*, 2014, **49**, 1506–1509.

Delitschiapyrone A, a pyrone-naphthalenone adduct bearing a new pentacyclic ring system from the leaf-associated fungus *Delitschia* sp. FL1581, J.-G. Luo; X.-B. Wang; Y. Xu; J. M. U'Ren; A. E. Arnold; L.-Y. Kong; **A. A. L. Gunatilaka**, *Org. Lett.*, 2014, **16**, 5944–5947.

Alttoxins with potent anti-HIV activity from *Alternaria tenuissima* QUE1Se, a fungal endophyte of *Quercus emoryi*, B. P. Bashyal; B. P. Wellensiek; R. Ramakrishnan; S. H. Faeth; N. Ahmad; **A. A. L. Gunatilaka**, *Bioorg. Med. Chem.*, 2014, 22, 6112–6116.

Stereo and regioselective microbial reduction of the clerodane diterpene 3,12-dioxo-15,16-epoxy-4-hydroxycleroda-13(16),14-diene, J. Mafezoli; M. C. F. Oliveira; J. R. Paiva; A. H. Sousa; M. A. S. Lima; J. N. Silva, Jr.; Barbosa, F. G.; E. M. K. Wijeratne; **A. A. L. Gunatilaka**, *Nat. Prod. Commun.*, 2014, 9, 759–762.

Diversity-oriented combinatorial biosynthesis of benzenediol lactone scaffolds by subunit shuffling of fungal polyketide synthases, Y. Xu; T. Zhou; S. Zhang; P. Espinosa-Artiles; L. Wang; W. Zhang; M. Lin; **A. A. L. Gunatilaka**; J. Zhan; I. Molnar, *Proc. Natl. Acad. Sci. USA*, 2014, 111, 12354–12359.

Functional chromatography reveals three natural products that target the same protein with distinct mechanisms of action, MinJin Kang, T. Wu, E. M. K. Wijeratne, E. Lau, D. Mason, C. Mesa, J. Tillotson, D. D. Zhang, **A. A. L. Gunatilaka**, J. J. La Clair, and E. Chapman, *ChemBioChem*, 2014, 15, 2125–2131.

Thielavialides A–E, *Nor*-spiro-azaphilones and a Bis-spiro-azaphilone from *Thielavia* sp. PA0001, an Endophytic Fungus Isolated from Aeroponically Grown *Physalis alkekengi*, E. M. K. Wijeratne, P. Espinosa-Artiles, R. Gruener, and **A. A. Leslie Gunatilaka**, *J. Nat. Prod.*, 2014, 77, 1467–1472.

Structure-Activity Relationships for Withanolides as Inducers of the Cellular Heat-Shock Response, E. M. K. Wijeratne, Y. Xu, R. Scherz-Shouval, M. T. Marron, D. D. Rocha, M. X. Liu, L. V. Costa-Lotufo, S. Santagata, S. Lindquist, L. Whitesell, and **A. A. L. Gunatilaka**, *J. Med. Chem.*, 2014, 57, 2851–2863.

Secoemestrin D, A Cytotoxic Epitetrahydrodioxopiperazine and Emericellenes A–E, Five Sesterterpenoids from *Emericella* sp. AST0036, a Fungal Endophyte of *Astragalus lentiginosus*, Y. Xu, P. Espinosa-Artiles, M. X. Liu, E. A. Arnold, and **A. A. L. Gunatilaka**, *J. Nat. Prod.*, 2013, 76, 2330–2331.

Phomapyrrolidones A–C, Antitubercul Alkaloids from the Endophytic Fungus *Phoma* sp. NRRL 46751, E. M. K. Wijeratne, H. He, A. M. Hoffman, S. G. Franzblau, and **A. A. L. Gunatilaka**, *J. Nat. Prod.*, 2013, 76, 1860–1865.

Endophthal Bacterium Enhances Production of Indole-3-Acetic Acid by a Foliar Fungal Endophyte, M. T. Hoffman, M. K. Gunatilaka, E. M. K. Wijeratne, **A. A. L. Gunatilaka**, and A. E. Arnold, *PLoSOne*, 2013, 8(9), e73132 (8 pp).

Structure-Activity Relationship (SAR) of Withanolides to Inhibit Hsp90 for its activity in Pancreatic Cancer Cells, M. Gu, Y. Yu, G. M. K. B. Gunaherath, **A. A. L. Gunatilaka**, and D. Sun, *Invest. New Drugs*, 2013, DOI 10.1007/s 10637-013-9987-y (7 pp).

Synthesis and biological evaluation of novobiocin analogues as potential heat shock protein 90 inhibitors, Gunaherath, G. M. K., M. T. Marron, E. M. K. Wijeratne, L. Whitesell, and **A. A. L. Gunatilaka**, *Bioorg. Med. Chem.*, 2013, 21, 5118–5129.

Microbial Biotransformation of 16 α ,17-Epoxy-ent-kaurane-19-oic acid by *Beauveria sulfurescens* ATCC 7159-F, R. Furtado, G. M. K. B. Gunaherath, J. K. Bastos, and **A. A. L. Gunatilaka**, *Nat. Prod. Commun.*, 2013, 8, 1041–1044.

Characterization of the Biosynthetic Genes for 10,11-Dehydrocurvularin, a Heat Shock Response-Modulating Anticancer Fungal Polyketide from *Aspergillus terreus*, Y. Xu, P. Espinosa-Artiles, V. Schubert, Y. Xu, W. Zhang, M. Lin, **A.A.L. Gunatilaka**, R. Süßmuth, and I. Molnár, *Appl. Environ. Microbiol.*, 2013, **79**, 2038–2047.

10'-Deoxy-10' α -hydroxyascochlorin, a New Cell Migration Inhibitor and Other Metabolites from *Acremonium* sp., a Fungal Endophyte in *Ephedra trifurca*, W.M.A.P. Wanigasekara, E.M.K. Wijeratne, A.E. Arnold, and **A.A.L. Gunatilaka**, *Nat. Prod. Commun.*, 2013, **8**, 601–604.

Using the Heat-Shock Response to Discover Anticancer Compounds that Target Protein Homeostasis, S. Santagata, Y. Xu, E.M.K. Wijeratne, R. Kontnik, C. Rooney, C.C. Perley, H. Kwan, J. Clardy, S. Kesari, L. Whitesell, S. Lindquist, and **A.A.L. Gunatilaka**, *ACS Chem. Biol.*, 2012, **7**, 340–349.

Geopyxins A – E, *ent*-Kaurane Diterpenoids from Endolichenic Fungal Strains, *Geopyxis* aff. *majalis* and *Geopyxis* sp. AZ0066: Structure-Activity Relationships of Geopyxins and their Analogues, E.M.K. Wijeratne, B.P. Bashyal, M.X. Liu, D.D. Rocha, G.M.K.B. Gunaherath, J.M. U'Ren, M.K. Gunatilaka, A.E. Arnold, L. Whitesell, and **A.A.L. Gunatilaka**, *J. Nat. Prod.*, 2012, **75**, 361–369.

Smardaesidins A – G, New Isopimarane and 20-Nor-isopimarane Diterpenoids from *Smardaea* sp., a Fungal Endophyte of the Moss *Ceratodon purpureus*, X.-N. Wang, B.P. Bashyal, E.M.K. Wijeratne, J. M. U'Ren, M.X. Liu, M.K. Gunatilaka, A.E. Arnold, and **A.A.L. Gunatilaka**, *J. Nat. Prod.*, 2011, **74**, 2052–2061.

Selective Solid Tumor Inhibitory and other Constituents of *Casimiroa tetrameria*, Y. Xu, M. del C. Ramirez-Ahumada, F. A. Valeriote, and **A. A. L. Gunatilaka**, *Chinese J. Nat. Medicines*, 2011, **9**, 334–337.

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- 2015 London School of Pharmacy, UK
 Department of Chemistry and Chemical Biology, Technical University of Dortmund, Germany
 American Society of Pharmacognosy (Invited Lecture), Colorado, USA
 Department of Pharmacology, University of Sao Paulo, Sao Paulo, Brazil
 Translational Genomics Institute, Phoenix, USA
- 2014 Brazilian Pharmacology Congress (Invited Lecture), Fortaleza, Brazil
 The 3rd Annual Meeting of the GP-TCM Research Association (Invited Lecture), Nanjing, China
 National Science Foundation of Sri Lanka (Invited Public Lecture)
 National Cancer Institute, USA
 Department of Chemistry, University of Ceara, Brazil
 Cancer Biology Graduate Program, University of Arizona
 Department of Nutritional Sciences, University of Arizona
- 2013 American Chemical Society Regional Meeting, Santa Clara, CA
 Sao Paulo Advanced School in Bioorganic Chemistry, Brazil
 University of Sao Paulo, Ribeirao Preto, Brazil
 University of Franca, Sao Paulo, Brazil
- 2012 International Conference on Chemical Sciences, Colombo, Sri Lanka.
 Department of Chemistry, University of Kelaniya, Sri Lanka
 American Chemical Society National Medicinal Chemistry Symposium, Tucson, AZ
 Department of Food Science, University of Pennsylvania.
 Centro de Investigacion Cientifica de Yucatan (CICY), Merida, Mexico

- 2011 Department of Chemistry, Federal University of Ceara, Fortaleza, Brazil
Department of Pharmacology, Federal University of Ceara, Fortaleza, Brazil
University of Sao Paulo, Sao Carlos, Brazil
Federal University of Rio de Janeiro, Brazil
Link Natural Products, Colombo, Sri Lanka
College of Pharmacy Drug Discovery and Development Program, U Arizona.
Division of Medicinal Chemistry, American Chemical Society National Meeting, Anaheim, CA
Department of Chemistry, U Arizona.
- 2010 School of Plant Sciences, U Arizona.
Department of Chemistry, Yale University, New Haven, CT
Valent Biosciences, Chicago, IL
School of Natural Resources and the Environment, U Arizona.
BIOTA-10 International Workshop on Metabolomics in the Context of Systems Biology, Brazil.
- 2009 Institute of Fundamental Studies, Sri Lanka
International Conference on Traditional Medicine, Gunagzhou, China
Department of Chemistry, Midwestern University, AZ
Department of Nutritional Sciences, U Arizona
- 2008 American Chemical Society National Meeting, New Orleans, LA
International Conference on TCM and Natural Medicine, Shanghai, China
Department of Chemistry, University of Talca, Chile
Department of Chemistry, Federal University of Rio de Janeiro, Brazil
- 2007 First Brazilian Conference on Natural Products, Sao Pedro, Brazil
Department of Chemistry, Federal University of Ceara, Fortaleza, Brazil
Federal University of Minas Gerais, Belo Horizonte, Brazil
Instituto de Quimica, University of Sao Paulo, Araraquara, Brazil
Chemtech 2007, International Conference, Colombo, Sri Lanka
Department of Plant Sciences, U Arizona
Lincoln University, Christchurch, New Zealand
- 2006 Arizona Cancer Center Mini Retreat, U Arizona
Princess Chulabhorn Research Institute, Bangkok, Thailand
Arizona Biosciences Leadership Symposium, Phoenix, AZ
Department of Chemistry, University of Peradeniya, Sri Lanka
- 2005 International Union of Pure and Applied Chemistry (IUPAC) Congress, Beijing, China
Shanghai Institute of Materia Medica and Center for Modernization of TCM, Shanghai, China
Annual Sessions of the Institute of Chemistry (Ceylon), Sri Lanka
International Symposium on Natural Products, Colombo, Sri Lanka
Department of Chemistry, Open University of Sri Lanka, Colombo, Sri Lanka
Department of Chemistry, University of Hawaii, Honolulu, HI
- 2004 NaPro Biotherapeutics (Tapestry Pharmaceuticals), Boulder, CO, USA
National Center for Natural Products Research, University of Mississippi, Oxford, MS
Hong Kong University of Science and Technology, Hong Kong
Asian Symposium on Medicinal Plants, Spices & Other Natural Products, Kunming, China
- 2003 Sim Keng Yeow Symposium, National University of Singapore, Singapore
China Pharmaceutical University, Nanjing, China
Shanghai Institute of Materia Medica, Shanghai, China

- Department of Medicinal Chemistry and Phramacognosy, University of Illinois, Chicago, IL
Department of Chemistry, University of Peradeniya, Sri Lanka
Department of Medicinal Chemistry and Phramacognosy, Ohio State University, OH
- 2002 IUPAC International Symposium on the Chemistry of Natural Products, Florence, Italy
Department of Chemistry, Indian Institute of Science, Bangalore, India
- 2001 Cancer Drug Development in Arizona – Third Symposium, Flinn Foundation, Phoenix, AZ
Institute of Fundamental Studies, Sri Lanka
Department of Chemistry, University of Peradeniya, Sri Lanka
National Center for Natural Products Research, University of Mississippi, MS
Sigma Xi Public Lecture, University of Mississippi, MS
- 2000 Department of Plant Sciences, U Arizona
Department of Medicinal Chemistry, College of Pharmacy, U Arizona
Department of Pediatrics, U Arizona