

CURRICULUM VITAE

David G. I. Kingston

I. ADDRESS

Business: Department of Chemistry
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II. PERSONAL DATA

Born: November 9, 1938, London, England
Married: Beverly Mark, June 18, 1966
Children: Joy Ellen, Born November 20, 1968
Christina Anne, Born October 9, 1970
Jonathan David, Born July 27, 1976

U. S. Citizen

III. EDUCATION

Whitgift School, Croydon, 1949-1956
B.A. (1st Class Honors), Cambridge University, 1960
Major: Chemistry
Minor: Physics
Dip. Th., London University, 1962
M.A., Cambridge University, 1963
Ph.D., Cambridge University, 1963
Advisors: Professor Lord Todd, F.R.S., Nobel Laureate, and Dr. D. W. Cameron
Thesis: Pigments of the Aphididae

IV. APPOINTMENTS

Director, Virginia Tech Center for Drug Discovery, 2012-present.
University Distinguished Professor, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1999-present.
Professor of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1977-1999.
Associate Professor of Chemistry, Virginia Polytechnic Institute and State University, Blacksburg, Virginia, 1971-1977.
Assistant Professor of Chemistry, State University of New York at Albany, Albany, N.Y., 1966-1971.
N.A.T.O. Fellow, Cambridge University, England, 1964-1966.
Research Associate, Division of Biochemistry, Massachusetts Institute of Technology, Cambridge, Mass., 1963-1964.
Research Fellow Queens' College, Cambridge, England, 1962-1966.
Director of Studies in Chemistry, Queens' College, Cambridge, England, 1964-1966.

V. TEACHING

A. Courses Taught

Chem 1031, 1032	General Chemistry
Chem 2510	Survey of Organic Chemistry
Chem 2535, 2536	Organic Chemistry
Chem 2545	Organic Chemistry Laboratory
Chem 2551, 2552, 2553	Principles of Organic Chemistry
Chem 4524	Identification of Organic Compounds
Chem 4550	Drug Chemistry
Chem 4994 (Chem 4990)	Undergraduate Research
Chem 5505	Advanced Organic Chemistry
Chem 5550	Organic Reaction Mechanisms
Chem 5521	Modern Aspects of Organic Chemistry: Interpretation of Mass Spectra of Organic Compounds
Chem 6504	Chemistry of Natural Products
Chem 6564	Current Topics in Organic Chemistry: Molecular Structure Determination
Chem 6564	Current Topics in Organic Chemistry: Bioorganic Principles of Medicinal Chemistry

B. New Courses Developed

Chem 2031, 2032, 2033	Chemical Synthesis and Experimental Techniques Lab (as committee member)
Chem 2551, 2552, 2553	Principles of Organic Chemistry
Chem 4550	Drug Chemistry (with Dr. P. L. Hall)
Chem 5521	Interpretation of Mass Spectra of Organic Compounds
Chem 6504	Chemistry of Natural Products
Chem 6564	Current Topics in Organic Chemistry: Bioorganic Principles of Medicinal Chemistry

C. Major Course Revisions

Chem 4524	Identification of Organic Compounds
Chem 5045/6	Molecular Structure Determination (combined with Chem 4524 so they can be taught concurrently).

D. Teaching Materials Developed

Question Bank of Multiple-Choice Questions to accompany the text "Organic Chemistry" by F. A. Carey, McGraw-Hill, New York, 1987.

E. Teaching Evaluations

Student evaluation of teaching gave responses to the category "Overall rating of this instructor" averaging over 3.5 on a 4.0 scale for all courses taught 1981-2011, and 5.49 on a 6.0 scale for all courses taught 2012-2013

VI. SCHOLARLY CONTRIBUTIONS

A. Books

1. G. M. Cragg, D. G. I. Kingston, and D. J. Newman (Editors) "Anticancer Agents from Natural Products" CRC Press LLC: Boca Raton, Florida, 2005, pp 1-577.
2. G. M. Cragg, D. G. I. Kingston, and D. J. Newman (Editors) "Anticancer Agents from Natural Products, Second Edition" CRC Press LLC: Boca Raton, Florida, 2011, pp 1-751.

B. Articles in Refereed Journals

1. D. W. Cameron, R. I. T. Cromartie, D. G. I. Kingston and Lord Todd, "Colouring Matters of the Aphididae; Part XVII. The Structure and Absolute Stereochemistry of the Protoaphins." *J. Chem. Soc.*, **1964**, 51-61.
2. A. Calderbank, D. W. Cameron, R. I. T. Cromartie, Y. K. Hamied, E. Haslam, D. G. I. Kingston, Lord Todd and J. C. Watkins, "Colouring Matters of the Aphididae. Part XX. The Structure of the Xanthoaphins and Chrysoaphins." *J. Chem. Soc.*, **1964**, 80-89 (1964).
3. D. W. Cameron, D. G. I. Kingston, N. Sheppard and Lord Todd, "Colouring Matters of the Aphididae; Part XXII. Nuclear Magnetic Resonance Evidence for the Structures and Conformations of the Naphthaquinone Dimethyl Ethers Derived from the Protoaphins, and of the Erythroaphins." *J. Chem. Soc.*, **1964**, 98-104.
4. D. W. Cameron, R. I. T. Cromartie, D. G. I. Kingston and G. B. V. Subramanian; "Colouring Matters of the Aphididae; Part XXIII. Synthesis of the Xanthoaphin Chromophore." *J. Chem. Soc.*, **1964**, 4565-4570.
5. D. W. Cameron, H. W.-S. Chan and D. G. I. Kingston, "Colouring Matters of the Aphididae; Part XXIV. The Enzymic Conversion of Protoaphin into Xanthophin." *J. Chem. Soc.*, **1965**, 4363-4368.
6. D. W. Cameron, R. I. T. Cromartie, Y. K. Hamied, E. Haslam, D. G. I. Kingston, Lord Todd and J. C. Watkins, "Colouring Matters of the Aphididae; Part XXVI. The Chrysoaphins-sl and their Reactions with Periodate." *J. Chem. Soc.*, **1965**, 6923-6930.
7. G. R. Delpierre, F. W. Eastwood, G. E. Gream, D. G. I. Kingston, P. S. Sarin, Lord Todd and D. H. Williams, "The Structure of Ostreogrycin A." *Tetrahedron Lett.*, **1965**, 369-372.
8. G. R. Delpierre, F. W. Eastwood, G. E. Gream, D. G. I. Kingston, P. S. Sarin, Lord Todd and D. H. Williams, "Antibiotics of the Ostreogrycin Complex. Part II. Structure of Ostreogrycin A.;" *J. Chem. Soc. (C)*, **1966**, 1653-1669.
9. D. G. I. Kingston, Lord Todd and D. H. Williams, "Antibiotics of the Ostreogrycin Complex. Part III. The Structure of Ostreogrycin A. Evidence based on Nuclear Magnetic Double Resonance Experiments and on High Resolution Mass Spectrometry," *J. Chem. Soc. (C)*, **1966**, 1669-1676.
10. D. G. I. Kingston, P. S. Sarin, Lord Todd and D. H. Williams, "Antibiotics of the Ostreogrycin Complex. Part IV. The Structure of Ostreogrycin G." *J. Chem. Soc. (C)*, **1966**, 1856-1860.
11. D. W. Cameron D. G. I. Kingston and P. E. Schutz, "Some Acyl Derivatives of 2,6-Dimethoxyanthracene." *J. Chem. Soc. (C)*, **1967**, 99-101.
12. D. W. Cameron, D. G. I. Kingston and P. E. Schutz, "Tautomeric Benz(de)-anthracene Derivatives and Related Systems." *J. Chem. Soc. (C)*, **1967**, 2113-2118.
13. D. G. I. Kingston and H. P. Tannenbaum, "Substituent Effects on the McLafferty Rearrangement of Methyl 4-Phenylbutyrate." *Chem. Comm.*, **1968**, 444-445.
14. I. Howe, D. H. Williams, D. G. I. Kingston and H. P. Tannenbaum, "Substituent Effects in the Mass Spectra of some α and β -substituted Methyl Butyrate." *J. Chem. Soc. (B)*, **1969**, 439-445.
15. M. M. Rao, D. G. I. Kingston and T. D. Spittler, "Flavonoids from *Flourensia cernua*." *Phytochemistry*, **1970**, 9, 227-228.

16. D. G. I. Kingston and J. D. Henion, "Skeletal Rearrangement of [1-¹³C] Diphenyl Sulfide." *J. Chem. Soc. (D)*, **1970**, 258-259.
17. D. G. I. Kingston and J. D. Henion, "Hydrogen Randomization in Phenyl Azide." *Org. Mass Spectrom.*, **1970**, 3, 413-414.
18. H. G. Kuivila, K.-H. Tsai and D. G. I. Kingston, "Skeletal Rearrangements of Some Acyclic Ketoorganotins on Electron Impact." *J. Organomet. Chem.*, **1970**, 23, 129-134.
19. D. G. I. Kingston, H. P. Tannenbaum, G. B. Baker, J. R. Dimmock, and W. G. Taylor, "Mass Spectrometry of Organic Compounds. V. Mass Spectra of Aroylhydrazones." *J. Chem. Soc. (C)*, **1970**, 2574-2577.
20. D. G. I. Kingston and H. P. Tannenbaum, "Mass Spectrometry of Unsaturated Alcohols." *Advances in Mass Spectrometry*, **1971**, 5, 681-684.
21. D. G. I. Kingston, "Mass Spectrometry of Organic Compounds. VI. Mass Spectra of Flavonoid Compounds." *Tetrahedron*, **1971**, 27, 2691-2700.
22. D. G. I. Kingston, M. M. Rao, and T. D. Spittler, "Isolation and Structure Determination of Flourensic Acid, A New Sesquiterpene of the Eremophilane Type." *Tetrahedron Lett.*, **1971**, 1613-1616.
23. J. R. Hass, M. M. Bursey, D. G. I. Kingston, and H. P. Tannenbaum, "Reketonization of a McLafferty Product Ion Studied by Ion-Molecular Reactivity." *J. Amer. Chem. Soc.*, **1972**, 94, 5095-5096.
24. J. T. Bursey, M. M. Bursey, and D. G. I. Kingston, "Intramolecular Hydrogen Transfer in Mass Spectra. Part I. Rearrangements in Aliphatic Hydrocarbons and Aromatic Compounds." *Chem. Rev.*, **1973**, 181-234.
25. J. D. Henion and D. G. I. Kingston, "Bisdiazo Insertion in Cycloheptanone." *J. Org. Chem.*, **1973**, 38, 3067-3068.
26. J. D. Henion and D. G. I. Kingston, "Mass Spectrometry of Organic Compounds. VII. Energetics of Substituent Isomerization in Diphenyl Sulfide and Diphenyl Ether." *J. Amer. Chem. Soc.*, **1973**, 95, 8358-8363.
27. D. G. I. Kingston and H. M. Fales, "Methane Chemical Ionization Mass Spectrometry of Flavonoids." *Tetrahedron*, **1973**, 29, 4083-4086.
28. D. G. I. Kingston and T. Reichstein, "Cytotoxic Constituents of *Acokanthera longiflora* Stapf. and Related Species." *J. Pharm. Sci.*, **1974**, 63, 462-464.
29. D. G. I. Kingston, H. P. Tannenbaum, and H. G. Kuivila, "Mass Spectrometry of Organic Compounds. VIII. Remote Group Interactions in Hydroxy-organotins," *Org. Mass Spectrom.*, **1974**, 9, 31-38.
30. D. G. I. Kingston, J. T. Bursey and M. M. Bursey, "Intramolecular Hydrogen Transfer in Mass Spectra. Part II. The McLafferty Rearrangement and Related Reactions." *Chem. Rev.*, **1974**, 74, 215-242.
31. J. D. Henion and D. G. I. Kingston, "Mass Spectrometry of Organic Compounds. IX. McLafferty Rearrangements in Some Bicyclic Ketones." *J. Amer. Chem. Soc.*, **1974**, 96, 2532-2536.
32. D. G. I. Kingston and B. T. Li, "Preliminary Investigation of the Use of High-Pressure Liquid Chromatography for the Separation of Indole Alkaloids" *J. Chromatogr.*, **1975**, 104, 431-437.
33. R. C. Pettersen, D. L. Cullen, T. D. Spittler and D. G. I. Kingston, "The Crystal and Molecular Structure of Flourensadiol, a Natural Product Sesquiterpene Isolated from a West Texas Shrub." *Acta Cryst.*, **1975**, B31, 1124-1127.
34. D. G. I. Kingston and H. P. Tannenbaum, "Mass Spectrometry of Organic Compounds. X. Fragmentation of 2-Buten-1-ol on Electron-Impact." *Org. Mass Spectrom.*, **1975**, 10, 263-272.
35. D. G. I. Kingston, M. M. Rao, T. D. Spittler, R. C. Pettersen and D. L. Cullen, "Sesquiterpenes from *Flourensia cernua*," *Phytochem.*, **1975**, 14, 2033-2037.

36. D. G. I. Kingston, B. W. Hobrock, M. M. Bursey and J. T. Bursey, "Intramolecular Hydrogen Transfer in Mass Spectra. Part III. Rearrangements Involving the Loss of Small Neutral Molecules," *Chem. Rev.*, **1975**, 75, 693-730.
37. D. G. I. Kingston and B. B. Gerhart, "Preparation of Octadecyl Porasil for Reversed-Phase Liquid Chromatography." *J. Chromatogr.*, **1976**, 116, 182-183.
38. D. G. I. Kingston, P. N. Chen and J. R. Vercellotti, "Metabolites of *Aspergillus versicolor*. 6,8-Di-0-Methylnidurufin, Griseofulvin, Dechlorogriseofulvin, and 3,8-Dihydroxy-6-methoxy-1-methylxanthone." *Phytochem.*, **1976**, 15, 1037-1039.
39. D. G. I. Kingston, B. B. Gerhart and F. Ionescu, "Isolation, Structural Elucidation, and Synthesis of Tabernamine, a New Cytotoxic Bis-indole Alkaloid from *Tabernaemontana johnstonii*." *Tetrahedron Lett.*, **1976**, 649-652.
40. D. G. I. Kingston, P. N. Chen, and J. R. Vercellotti, "High-Performance Liquid Chromatography of Sterigmatocystin and Other Metabolites of *Aspergillus versicolor*." *J. Chromatogr.*, **1976**, 118, 414-417.
41. J. R. Hass, R. G. Cooks, J. J. Elder, Jr., M. M. Bursey, and D. G. I. Kingston, "Unexpected Course of Olefin Loss from Some Cyclopentanone Ions. Gaseous Ion Structure by Ion Cyclotron Resonance Spectrometry, Mass-Analyzed Ion Kinetic Energy Spectrometry and Collision-Induced Dissociation." *Org. Mass Spectrom.*, **1976**, 11, 697-711.
42. D. G. I. Kingston, "Applications of Mass Spectrometry to the Analysis of Mycotoxins." *J. Ass. Offic. Analyt. Chem.*, **1976**, 59, 1016-1022.
43. H. C. Dorn, D. G. I. Kingston, and B. R. Simpers, "Interpretation of a ¹³C Magnetic Resonance Spectrum." *J. Chem. Educ.*, **1976**, 53, 584-585.
44. D. G. I. Kingston, B. T. Li, and F. Ionescu, "Plant Anticancer Agents III: Isolation of Indole and Bis-indole Alkaloids from *Tabernaemontana holstii* Roots." *J. Pharm. Sci.*, **1977**, 66, 1135-1138.
45. D. G. I. Kingston, F. Ionescu, and B. T. Li, "Plant Anticancer Agents IV: Identification of Tubotaiwine-N-oxide as a Cytotoxic Constituent of *Tabernaemontana holstii*." *Lloydia*, **1977**, 40, 215-216.
46. P. N. Chen, D. G. I. Kingston and J. R. Vercellotti, "Reduction of Sterigmatocystin and Versicolorin A Hemiacetals with Sodium Borohydride," *J. Org. Chem.*, **1977**, 42, 3599-3605.
47. D. G. I. Kingston, B. B. Gerhart, F. Ionescu, M. M. Mangino, and S. N. Sami, "Plant Anticancer Agents V: New Bisindole Alkaloids from *Tabernaemontana johnstonii* Stem Bark." *J. Pharm. Sci.*, **1978**, 67, 249-251.
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49. D. G. I. Kingston, "Plant Anticancer Agents VII: Structural Effects on Cytotoxicity of Bis-indole Alkaloids of Voacamine Type." *J. Pharm. Sci.*, **1978**, 67, 272-274.
50. J. D. Henion and D. G. I. Kingston, "Mass Spectral Skeletal and Hydrogen Rearrangements in Some Bicyclic Ketones." *Org. Mass Spectrom.*, **1978**, 13, 431-437.
51. D. G. I. Kingston and R. C. Munjal, "Plant Anticancer Agents. VIII. Constituents of *Inga punctata*." *Lloydia*, **1978**, 41, 499-500.
52. D. G. I. Kingston, "High Performance Liquid Chromatography of Natural Products." *J. Nat. Prod.*, **1979**, 42, 237-260.
53. D. G. I. Kingston and S. M. Sami, "Cytotoxicity of Some Modified Indole Alkaloids." *J. Pharm. Sci.*, **1979**, 68, 1403-1405.
54. D. G. I. Kingston, M. M. Rao, and W. V. Zucker, "Plant Anticancer Agents. IX. Constituents of *Hyptis Tomentosa*." *J. Nat. Prod.*, **1979**, 42, 496-499.
55. D. A. Cairnes, O. Ekundayo, and D. G. I. Kingston, "Plant Anticancer Agents. X. Lignans from *Juniperus Phoenicea*." *J. Nat. Prod.*, **1980**, 43, 495-497.

56. D. G. I. Kingston and M. X. Kolpak, "Biosynthesis of Antibiotics of the Virginiamycin Family. I. Biosynthesis of Virginiamycin M₁: Determination of the Labeling Pattern by the Use of Stable isotope Techniques." *J. Am. Chem. Soc.*, **1980**, *102*, 5964-5966.
57. T. D. Wilkins, M. Lederman, R. L. Van Tassell, D. G. I. Kingston and J. D. Henion, "Characterization of a Mutagenic Bacterial Product in Human Feces." *Am. J. Clin. Nutr.*, **1980**, *33*, 2513-2520.
58. D. A. Cairnes, D. G. I. Kingston, and M. M. Rao, "High Performance Liquid Chromatography of Podophyllotoxins and Related Lignans." *J. Nat. Prod.*, **1981**, *44*, 34-37.
59. E. Jones, O. Ekundayo, and D. G. I. Kingston, "Plant Anticancer Agents. XI. 2,6-Dimethoxybenzoquinone as a Cytotoxic Constituent of *Tibouchina pulchra*." *J. Nat. Prod.*, **1981**, *44*, 493-494.
60. D. G. I. Kingston and O. Ekundayo, "2-Acylindole Alkaloids." *J. Nat. Prod.*, **1981**, *44*, 509-525.
61. D. G. I. Kingston, T. D. Wilkins, R. L. Van Tassell, R. D. Macfarlane, and C. J. McNeal, "Structural Studies on a Mutagenic Bacterial Product from Human Feces." *Banbury Report 7: Gastrointestinal Cancer: Endogeneous Factors*. **1981**, 215-226.
62. S. M. Hussein Ayoub and D. G. I. Kingston, "Screening of Plants Used in Sudan Folk Medicine for Antitumor Activity." *Fitoterapia*, **1981**, *52*, 281-284.
63. I. Borup-Grochtmann and D. G. I. Kingston, "Aporphine Alkaloids from *Annona acuminata*." *J. Nat. Prod.*, **1982**, *45*, 102.
64. J. Parness, D. G. I. Kingston, R. G. Powell, C. Harracksingh, and S. B. Horwitz, "Structure-Activity Study of Cytotoxicity and Microtubule Assembly *in vitro* by Taxol and Related Taxanes." *Biochem. Biophys. Res. Commun.*, **1982**, *105*, 1082-1089.
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84. M. Z. Kassae and D. G. I. Kingston, "Synthesis of [6-²H] and [6-³H] Fecapentaene-12." *J. Labeled Comp.*, **1987**, *24*, 1071-1076.
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89. R. J. Carman, R. L. Van Tassell, M. Bashir, D. G. I. Kingston, and T. D. Wilkins, "Conversion of IQ, a Dietary Pyrolysis Carcinogen, to a Direct-Acting Mutagen by Normal Intestinal Bacteria of Humans." *Mutation Res.*, **1988**, *206*, 335-342.
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C. Book Chapters

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27. O. Ekundayo, D. G. I. Kingston, D. Cairnes, and R. Eagan, "Cytotoxic Constituents of *Austrocedrus chilensis*," International Research Congress on Natural Products as Medicinal Agents, Strasbourg, France, July, 1980.
28. D. G. I. Kingston and M. X. Kolpak, "The Biosynthesis of Virginiamycin M₁," International Research Congress on Natural Products as Medicinal Agents, Strasbourg, France, July, 1980.
29. D. G. I. Kingston and M. M. Rao, "Isolation, Structure Elucidation, and Synthesis of Two New Cytotoxic Naphthoquinones from *Tabebuia cassinoides*," International Research Congress on Natural Products as Medicinal Agents, Strasbourg, France, July, 1980.
30. I. Borup and D. G. I. Kingston, "Isolation and Structure Elucidation of Cytotoxic Aporphine Alkaloids from *Annona acuminata*." Joint Meeting of the American Society of Pharmacognosy and the Society for Economic Botany, Boston, Mass., July, 1981.
31. D. G. I. Kingston and J. W. LeFevre, "Biosynthesis of Virginiamycin M₁, 33rd ACS Southeastern Regional Meeting, Lexington, Kentucky, November, 1981.
32. S. N. Dunn and D. G. I. Kingston, "Stereospecificity in the Incorporation of Serine into the Oxazole Ring of Virginiamycin M₁," Fourth Annual Undergraduate Research Symposium, Blacksburg, Virginia, May, 1982.
33. J. W. LeFevre and D. G. I. Kingston, "Biosynthesis of Antibiotic A2315A," American Society of Pharmacognosy, 23rd Annual Meeting, Pittsburgh, Pennsylvania, August 1982.
34. D. G. I. Kingston, J. W. LeFevre, and I. Borup, "The Biosynthesis of Antibiotics of the Virginiamycin Family," 184th ACS National Meeting, Kansas City, Missouri, September, 1982.
35. D. G. I. Kingston, N. Hirai, T. D. Wilkins, and R. L. Van Tassell, "Isolation and Structure Elucidation of a Potent Mutagen from Human Feces," 184th ACS National Meeting, Kansas City, Missouri, September, 1982.
36. D. G. I. Kingston and N. F. Magri, "Modified Taxols as Anticancer Agent," Third Annual American Cancer Society Cancer Research Sminar, Richmond, Va., April, 1983.
37. S. M. H. Ayoub and D. G. I. Kingston, "Lignans from Sudanese Plants," American Society of Pharmacognosy, 24th Annual Meeting, Oxford Mississippi, July, 1983.
38. D. G. I. Kingston, N. Hirai, and A. A. L. Gunatilaka. "Synthesis of a Mutagenic Pentaenyl Glycerol Ether," American Chemical Society, 186th National Meeting, Washington, D. C., August, 1983.
39. D. G. I. Kingston, "Applications of HPLC to Problems in Natural Products Chemistry." American Chemical Society, 35th Southeastern Regional Meeting, Charlotte, N.C., November 1983.
40. D. G. I. Kingston and M. B. Purvis, "Biosynthesis of Antibiotic A33853," American Chemical Society, 35th Southeastern Regional Meeting, Charlotte, N.C., November, 1983.
41. D. G. I. Kingston, A. A. Molinero, and J. W. Reed, "Biosynthesis of Virginiamycin S1," American Chemical Society, 35th Southeastern Regional Meeting, Charlotte, N.C., November, 1983.
42. T. D. Wilkins, R. L. Van Tassell, D. G. I. Kingston, and A. A. L. Gunatilaka, "Potent Mutagens, 'Fecapentaenes,' Produced by Bacterioides," Fourth Annual American Cancer Society Cancer Research Seminar, Charlottesville, Va., March 1984.
43. D. G. I. Kingston, N. F. Magri, and C. Jitrangsri, "Modified Taxols as Potential Anticancer Agents," Fourth Annual American Cancer Society Cancer Research Seminar, Charlottesville, Va., March, 1984.
44. D. G. I. Kingston, A. A. L. Gunatilaka, N. Hirai, T. D. Wilkins, and R. L. Van Tassell, "Is Colon Cancer a Bacterial Disease? Structural and Synthetic Studies on a Novel Fecal Mutagen," Conference on Latest Trends in Organic Synthesis, Blacksburg, Va., May, 1984.
45. D. G. I. Kingston and N. F. Magri, "Structural Effects on the Cytotoxicity of Taxol," American Society of Pharmacognosy, 25th Annual Meeting, Austin, Texas, August, 1984.

46. A. A. Gunatilaka, N. Hirai, and D. G. I. Kingston, "Synthetic Studies on a Novel Fecal Mutagen," American Society of Pharmacognosy, 25th Annual Meeting, Austin, Texas, August, 1984.
47. C. Jitrangsri, D. G. I. Kingston, N. F. Magri, S. B. Horwitz, and W. Mellado, "Synthesis and Biological Evaluation of Modified Taxols," American Chemical Society, 188th National Meeting, Philadelphia, Pa., August 1984.
48. C. Jitrangsri, D. G. I. Kingston, and N. F. Magri, "Synthetic Studies in the Taxol Area," American Chemical Society, 36th Southeastern Regional Meeting, Raleigh, N.C., November, 1984.
49. D. G. I. Kingston, J. W. LeFevre, and M. Purvis, "Stereochemical Aspects of the Biosynthesis of Virginiamycin M₁," 1984 International Chemical Congress of Pacific Basin Societies, Honolulu, Hawaii, December, 1984.
50. C.-H. O. Huang and D. G. I. Kingston, "Isolation and Structural Elucidation of New Taxanes from *Taxus brevifolia*," International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
51. N. F. Magri and D. G. I. Kingston, "Synthesis and Biological Evaluation of Modified Taxols as Anticancer Agents," International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
52. C. Jitrangsri and D. G. I. Kingston, "The Synthesis of the C-13 Ester Sidechains of Taxol and Modified Taxols," International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
53. S. V. Govindan, D. G. I. Kingston, R. L. Van Tassell and T. D. Wilkins, "Synthesis and Biological Evaluation of Fecapentaene-12 Analogs." International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
54. T. Piccariello and D. G. I. Kingston, "Factors Controlling the Regioselectivity of Wittig Reactions with Enones," International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
55. D. G. I. Kingston and J. Reed, "Biosynthesis of Virginiamycin S₁: The Origin of the L-Phenylglycine Unit," International Research Congress on Natural Products, Chapel Hill, N.C., July 1985.
56. V. L. Jones, D. G. I. Kingston, and J. W. LeFevre, "Synthesis of Cis- and Trans-3-hydroxyprolines and their Incorporation into Virginiamycin M₁," International Research Congress on Natural Products, Chapel Hill, N.C., July, 1985.
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58. D. G. I. Kingston, N. F. Magri, and C. Jitrangsri, "Synthesis and Structure-Activity Relationships of Taxol Derivatives as Anticancer Agents," International Symposium on Organic Chemistry of Medicinal Natural Products (IUPAC), Shanghai, People's Republic of China, November, 1985.
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60. M. B. Purvis, D. G. I. Kingston, H. G. Floss and N. Fujii, "Stereochemistry of the Biosynthesis of the Oxazole Ring of Virginiamycin M₁," American Society of Pharmacognosy 27th Annual Meeting, Ann Arbor, Michigan, July, 1986.
61. D. G. I. Kingston, M. Bashir, R. J. Carman, and T. D. Wilkins, "Anaerobic Metabolism of Mutagens in Foods," 15th IUPAC Symposium on the Chemistry of Natural Products," The Hague, The Netherlands, August, 1986.
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63. D. G. I. Kingston and M. B. Purvis, "Biosynthesis of Antibiotic A33853: Origin of the Ring Nitrogen in Hydroxypicolinic Acid," American Chemical Society 38th Southeastern Regional Meeting, Louisville, Kentucky, November, 1986.
64. M. B. Purvis and D. G. I. Kingston, "Stereochemical Aspects of the Biosynthesis of Virginiamycin M₁," American Chemical Society 38th Southeastern Regional Meeting, Louisville, Kentucky, November, 1986.
65. T. Piccariello and D. G. I. Kingston, "Synthesis and Activity of Fecapentaene Analogs," American Chemical Society 38th Southeastern Regional Meeting, Louisville, Kentucky, November, 1986.
66. R. J. Carman, R. L. Van Tassell, T. D. Wilkins, M. Bashir, and D. G. I. Kingston, "Metabolism of the Dietary Pyrolysis Carcinogen 2-Amino-3methyl-3H-imidazo[4,5-f]quinoline (IQ) by *Eubacterium* spp.," American Society for Microbiology, 87th Annual Meeting, Atlanta, Georgia, March, 1987.
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74. G. Samaranayake, D. G. I. Kingston, P. Wong, "Synthesis of Azibenzoyl Taxol: a Taxol Derivative Suitable for Photoaffinity Labeling," International Research Congress on Natural Products, Park City, Utah, July, 1988. Abstract 09.
75. D. G. I. Kingston, M. Bashir, R. J. Carman, R. L. Van Tassell, and T. D. Wilkins, "Metabolism of Mutagens in Human Foods: Isolation and Synthesis of Metabolites," International Research Congress on Natural Products, Park City, Utah, July, 1988. Abstract 047.
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- American Chemical Society Meeting, Miami Beach, Florida, September, 1989. Abstract ORGN 268.
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 81. D. G. I. Kingston, G. Samaranayake, N. F. Magri, and C. Jitrangsri, "Reaction of Taxol with Electrophilic Reagents," American Chemical Society, 41st Southeast Regional Meeting, Winston-Salem, North Carolina, October, 1989. Abstract 371.
 82. D. G. I. Kingston, Y.-Z. Shu, R. L. Van Tassell, and T. D. Wilkins, "Metabolism of 1,4-Dinitro-2-methylpyrrole, a Mutagen Formed by Sorbic Acid-Nitrite Reaction, by Intestinal Bacteria," American Cancer Society, Virginia Division, Blacksburg, Va. March 1990.
 83. K. A. Neidigh, D. G. I. Kingston, and N. G. Lewis, "Studies on the Biosynthesis of Podophyllotoxin," American Cancer Society, Virginia Division, Blacksburg, Va. March 1990.
 84. C. A. Ivey and D. G. I. Kingston, "The Conversion of Cephalomannine to Taxol," American Cancer Society, Virginia Division, Blacksburg, Va., March 1990.
 85. D. G. I. Kingston and G. Samaranayake, "Partial Synthesis and Biological Activity of A-Nortaxol," American Cancer Society, Virginia Division, Blacksburg, Va., March 1990.
 86. D. G. I. Kingston, A. A. L. Gunatilaka, and R. F. Keyes, "An Approach to the Synthesis of Plasmalopentaene-12," American Cancer Society, Virginia Division, Blacksburg, Va., March 1990.
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 88. M. Bashir, D. G. I. Kingston, R. L. Van Tassell, and T. D. Wilkins, "Metabolism of the Mutagenic Food Pyrolysis Quinoxaline MeQx in the Human Colon," International Joint Symposium on Biology and Chemistry of Active Natural Substances, Bonn, W. Germany, July 1990.
 89. R. F. Keyes, D. G. I. Kingston, and A. A. L. Gunatilaka, "An Approach to the Synthesis of Plasmalopentaene-12," American Chemical Society 42nd Southeast/46th Southwest Combined Regional Meeting, New Orleans, La., December 1990. Abstract 435.
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 91. J. M. Rimoldi and D. G. I. Kingston, "The Preparation of Photoaffinity Labeled Taxol Analogs: Useful Probes for the Investigation of the Microtubule Receptor." International Research Congress on Natural Products and 32nd Meeting of the American Society of Pharmacognosy, Chicago, Illinois, July 1991. Abstract P69.
 92. D. G. I. Kingston, Y.-Z. Shu, R. L. Van Tassell, and T. D. Wilkins, "Anaerobic Metabolism of Mutagens in Human Foods: Metabolic Formation and Chemical Synthesis of the Major Intestinal Bacterial Metabolite of the Pyrolysis Mutagen 5,6-Cyclopenteno-11H-pyrido[3,2-a] carbazole (Lys-P-1)." International Research Congress on Natural Products and 32nd Meeting of the American Society of Pharmacognosy, Chicago, Illinois, July 1991. Abstract 03.
 93. D. G. I. Kingston, A. A. L. Gunatilaka, and G. Samaranayake, "Bioassay-directed Isolation and Structures of Three Sterols with Potential Anticancer Activity from *Pseudobersama mossambicensis*." International Research Congress on Natural Products and 32nd Meeting of the American Society of Pharmacognosy, Chicago, Illinois, July 1991. Abstract P30.
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96. G. G. Harrigan, A. Ahmad, N. Baj, A. A. L. Gunatilaka, and D. G. I. Kingston, "Bioassay-directed Isolation and Structures of Drimane Sesquiterpenes from *Porella cordeana*", 33rd Annual Meeting, American Society of Pharmacognosy, Williamsburg, Virginia, August 1992. Abstract P26.
97. J. Rimoldi and D. G. I. Kingston, "Preparation of Photoaffinity Labeled Taxol Derivatives", 33rd Annual Meeting, American Society of Pharmacognosy, Williamsburg, Virginia, August 1992. Abstract O10.
98. D. G. I. Kingston, G. Samaranayake, A. Chaudhary, M. Gharpure, and K. Neidigh, "Studies in the Hydrolysis and Acylation of Baccatin III", 33rd Annual Meeting, American Society of Pharmacognosy, Williamsburg, Virginia, August 1992. Abstract O9.
99. D. G. I. Kingston, G. Samaranayake, and K. Neidigh, "Deacylation and Reacylation of Baccatin III", National Cancer Institute Workshop on *Taxus*, Taxol, and Taxotere, Alexandria, Virginia, September 1992.
100. K. A. Neidigh, G. Samaranayake, and D. G. I. Kingston, "Modified Taxols: Deacylation and Reacylation of Baccatin III", Joint 44th Southeastern-26th Middle Atlantic ACS Regional Meeting, Arlington, Virginia, December 1992.
101. A. A. Molinero and D. G. I. Kingston, "The Conversion of Cephalomannine to Taxol", Joint 44th Southeastern-26th Middle Atlantic ACS Regional Meeting, Arlington, Virginia, December 1992.
102. L. M. M. Valente, D. G. I. Kingston, A. A. L. Gunatilaka, and T. E. Glass, "Nor-Curcubitacin Glucosides from *Fevillea trilobata*", Joint 44th Southeastern-26th Middle Atlantic ACS Regional Meeting, Arlington, Virginia, December 1992.
103. J. H. Weisburger, A. Rivenson, D. G. I. Kingston, T. D. Wilkins, M. Nagao, T. Sugimura, and Y. Hara, "Dietary Modulation of the Carcinogenicity of the Heterocyclic Aromatic Amine IQ", 23rd International Symposium of the Princess Takamatsu Cancer Research Fund, Tokyo, Japan, November 10-12, 1992.
104. S. Grover, J. Rimoldi, D. Kingston, and E. Hamel, "Differential Effects of Taxol Analogs Modified at Positions c(7) and c(3') on Tubulin Polymerization and Polymer Stabilization" Annual Meeting of the American Association for Cancer Research, Orlando, FL, May 1993.
105. L. M. M. Valente, A. A. L. Gunatilaka, D. G. I. Kingston, T. E. Glass, and A. C. Pinto, "New Norcurcubitacin and Heptanorcucurbitacin Glucosides from *Fevillea trilobata*", 16th Brazilian Chemical Society Annual Meeting, Caxambri, MG, Brazil, May 1993.
106. A. A. L. Gunatilaka and D. G. I. Kingston, "Isolation and Synthesis of Some Biologically Active Natural Products", Organic Chemistry: Perspectives on the 21st Century. Symposium in Honor of Professor Derek Barton, U.S. Virgin Islands, May 1993.
107. V. da S. Bolzani, A. A. L. Gunatilaka, and D. G. I. Kingston, "Search for Anticancer Constituents in Brazilian Plant Species: Bioactive Piperdines from *Cassia leptophylla*", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
108. D. G. I. Kingston, A. G. Chaudhary, and J. M. Rimoldi, "Synthesis of Deoxytaxols", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
109. C. E. Heltzel, A. A. L. Gunatilaka, T. E. Glass, and D. G. I. Kingston, "Mechanism-based Search for Anticancer Drugs: Selective DNA-Damaging Naphthoquinones from *Crescentia cujete*", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
110. L. M. M. Valente, A. A. L. Gunatilaka, D. G. I. Kingston, and A. C. Pinto, "Two New Moderately Bioactive Rosane Diterpenes from *Vellozia candida* Mikan (Velloziaceae)", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.

111. V. da S. Bolzani, A. A. L. Gunatilaka, and D. G. I. Kingston, "Search for Anticancer Constituents in Brazilian Plant Species: Bioactive Piperdines from *Cassia leptophylla*", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
112. E. R. Silveira, D. G. I. Kingston, and T. E. Glass, "Isolation and NMR Analysis of Flavonoids from *Dipteryx alata*", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
113. G. G. Harrigan, A. A. L. Gunatilaka, D. G. I. Kingston, G. W. Chan, and R. K. Johnson, "Bioactive oxoaporphine Alkaloids from *Xylopi aethiopica* and a *Polyalthia* species", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
114. G. G. Harrigan, E. Dagne, A. A. L. Gunatilaka, and D. G. I. Kingston, "Sesquiterpene from *Landolphia buchani*", 34th Annual Meeting of the American Society of Pharmacognosy, San Diego, CA, August 1993.
115. K. A. Neidigh and D. G. I. Kingston, "Modified Taxols: Preparation of 4-Acyltaxol Analogs", 45th Southeastern Regional Meeting, ACS, Johnson City, TN, October 1993.
116. A. G. Chaudhary and D. G. I. Kingston, "Synthesis of Biologically Active Deoxytaxols", 45th Southeastern Regional Meeting, ACS, Johnson City, TN, October 1993.
117. J. M. Rimoldi and D. G. I. Kingston, "Lewis Acid Mediated Oxetane Ring-Opening Reactions of Taxol", 45th Southeastern Regional Meeting, ACS, Johnson City, TN, October 1993.
118. V. da S. Bolzani, A. A. L. Gunatilaka, and D. G. I. Kingston "Bioactive Piperidine Alkaloids from *Cassia leptophylla*, 19th IUPAC Symposium on the Chemistry of Natural Products", Kharachi, Pakistan, January 1994.
119. R. Chen, J. H. Young, and D. G. I. Kingston "Isolation and Structure Elucidation of New Taxoids from *Taxus brevifolia*" 207th Annual Meeting of the American Chemical Society, San Diego, CA, March 1994.
120. C. Lin, S. Grover, A. G. Chaudhary, M. Gharpure, J. M. Rimoldi, D. G. I. Kingston, and E. Hamel "A Hyperactive Paclitaxel Analog". 8th NCI-EORTC Symposium on New Drugs in Cancer Therapy, Amsterdam, The Netherlands, March 1994.
121. C. Lin, S. Grover, A. G. Chaudhary, M. Gharpure, J. M. Rimoldi, D. G. I. Kingston, and E. Hamel "A Hyperactive Paclitaxel Analog". 85th Annual Meeting of the American Association for Cancer Research, San Francisco, CA, April 1994.
122. R. Chen and D. G. I. Kingston "Isolation and Structure Elucidation of New Taxoids from *Taxus brevifolia*" 14th Annual Seminar of Cancer Researchers in Virginia, Blacksburg, VA. April 1994.
123. L. M. M. Valente, A. A. L. Gunatilaka, D. G. I. Kingston, and A. C. Pinto "Gentiobiosideos Norcucurbitacnicos de *Fevillea trilobata* (Cucurbitaceae)" 17th Annual Meeting of the Brazilian Chemical Society, Sao Paulo, Brazil, May 1994.
124. J. H. Young, R. Chen, and D. G. I. Kingston "Isolation, Structure Elucidation, and Synthetic Studies of New Taxoids from *Taxus brevifolia*". International Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, August 1994.
125. V. da S. Bolzani, A. A. L. Gunatilaka, E. Dagne, and D. G. I. Kingston. "Bioactive and Other Limonoids of *Trichilia emetica* (Meliaceae)." International Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, August 1994.
126. M. Govindan, G. N. Govindan, and D. G. I. Kingston "Antitumor Activity of Marine Invertebrates from the U. S. Virgin Islands". International Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, August 1994.
127. D. G. I. Kingston, M. D. Chordia, A. G. Chaudhary, J. M. Rimoldi, K. A. Neidigh, M. Gharpure, and A. A. L. Gunatilaka "Studies of Modified Taxols: The Southern Hemisphere". International

Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, August 1994.

128. D. G. I. Kingston, A. A. L. Gunatilaka, G. G. Harrigan, V. da S. Bolzani, E. Dagne, and R. K. Johnson "Isolation and Structure Elucidation of Novel Natural Cytotoxic and DNA-Damaging Agents". International Research Congress on Natural Products and 35th Annual Meeting of the American Society of Pharmacognosy, Halifax, Nova Scotia, August 1994.
129. M. D. Chordia, A. G. Chaudhary, and D. G. I. Kingston "Syntheses of Deoxytaxol Analogs: 1-Benzoyl-2-Debenzoyloxytaxol and 4-Deacetytaxol". 208th Annual Meeting of the American Chemical Society, Washington, DC, August 1994.
130. D. G. I. Kingston "Biodiversity Conservation and Drug Development in Suriname". Network Meeting of AITRP Directors, Bethesda, MD, November 1994.
131. Y. Han, A. G. Chaudhary, M. D. Chordia, D. L. Sackett, D. G. I. Kingston, and S. B. Hastie "Interaction of a Fluorescent Derivative of Taxol with Microtubules". 34th Annual Meeting of the American Society for Cell Biology, San Francisco, CA, December 1994.
132. M. Govindan, G. N. Govindan and D. G. I. Kingston, "Mechanism-Based Antitumor Screening of Marine Organisms: Isolation and Structure Elucidation of Tournefortins A-E, Novel Diterpenoids from the Gorgonian *Eunicea tourneforti*" 209th National Meeting of the American Chemical Society, Anaheim, CA, April 1995.
133. S. Rao, C. S. Swindell, D. G. I. Kingston, A. G. Chaudhary, G. A. Orr, S. B. Horwitz "The Use of Photoaffinity Analogues of Taxol to Define the Binding Site(s) for the Drug on the Microtubule" ASBMB/DBC-ACS Meeting, San Francisco, CA May, 1995.
134. A. G. Chaudhary, D. G. I. Kingston. "Synthesis of Tritiated Photoaffinity Analogues of Taxol[□]" 8th Central U. S. Meeting of International Isotope Society, St. Louis, MO. June, 1995.
135. D. G. I. Kingston, M. D. Chordia, P. I. Higgs, and X. Liang. "Synthesis and Bioactivity of Paclitaxel (Taxol[□]) Analogs". 34th National Organic Symposium of American Chemical Society, Williamsburg, VA, 1995.
136. A. A. L. Gunatilaka, D. G. I. Kingston, R. C. Haltiwanger, D. S. Eggleston, E. M. K. Wijeratne. "Bioactive Alkaloids from *Artabotrys zeylanicus*". 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
137. X. Liang, D. G. I. Kingston, C. M. Lin, E. Hamel. "Synthesis and Biological Evaluation of Paclitaxel Analogs Modified in Ring C." 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
138. C. Wu, A. A. L. Gunatilaka, D. G. I. Kingston, "Cytotoxic and Other Sesquiterpenes from *Chiloscyphus rivularis*" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
139. W. J. Lennox, A. A. L. Gunatilaka, Y. C. Kim, B-N. Zhou, D. G. I. Kingston. "Flavanoid and Flavonoid-like Compounds from *Ribes binominatum*" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
140. Y. C. Kim, Q-M. Che, A. A. L. Gunatilaka, D. G. I. Kingston, "Bioactive Steroidal Alkaloids from *Solanum umbelliferum*" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
141. V. S. Bolzani, A. A. L. Gunatilaka, D. G. I. Kingston, "DNA-Damaging Guanidine Alkaloids from *Pterogyne nitens*" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
142. W. R. Phillips, N. Baj, A. A. Leslie Gunatilaka, D. G. I. Kingston, "C-Geranyl Flavonoids from *Mimulus clevelandii*" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.

143. B.-N. Zhou, D. G. I. Kingston, "Potential Anticancer Agents and Biodiversity Conservation. A Bioactive Labdane Diterpenoid from the Suriname Rain Forest" 36th Annual Meeting of the American Society of Pharmacognosy, Oxford, MS, July, 1995.
144. M. D. Chordia, X. Liang, D. G. I. Kingston, "Syntheses and Biological Evaluation of Paclitaxel Analogs." American Chemical Society Southeast/Southwest Regional Meeting, Memphis, TN, December 1995.
145. J. M. Watson, D. G. I. Kingston, M. D. Chordia, R. A. Fulghum, and J. S. Haskill, "Importance of Microtubule Stabilization in Taxane Induced Cytotoxicity, Apoptosis and Growth Factor Gene Induction in a Human Ovarian Cancer Cell Line" American Association of Cancer Research Annual Meeting, April, 1996.
146. J. J. Pennington, A. G. Fett-Neto, D. G. I. Kingston, and F. DiCosmo, "Acetyl Coenzyme A: 10-Deacetylbaaccatin III - O -acetyltransferase Activity in *Taxus cuspidata* (Japanese Yew) Needles" Canadian Society of Plant Physiologists and Canadian Society for Plant Molecular Biology, Joint Meeting, Laval University, June 1996.
147. D. G. I. Kingston, M. D. Chordia, A. A. L. Gunatilaka, M. Gharpure, "Sorties and Surprises: Unexpected Reactions of Taxol" 37th Annual Meeting of the American Society of Pharmacognosy, Santa Cruz, CA, July, 1996.
148. C. Wu, A. A. L. Gunatilaka, D. G. I. Kingston, "Bioactive and Other Sesquiterpenes from *Chiloscyphus rivularis*" 37th Annual Meeting of the American Society of Pharmacognosy, Santa Cruz, CA, July, 1996.
149. M. Govindan, G. N. Govindan, W. J. Lennox, A. A. L. Gunatilaka, D. G. I. Kingston, "Further Chemical Investigations of the Caribbean Gorgonian *Eunicea succinea*" 37th Annual Meeting of the American Society of Pharmacognosy, Santa Cruz, CA, July, 1996.
150. M. D. Chordia, H. Yuan, D. G. I. Kingston, E. Hamel, C. M. Lin "Synthesis and Biological Activity of A-Norpaclitaxel and Aza-A-Norpaclitaxel Analogs" 37th Annual Meeting of the American Society of Pharmacognosy, Santa Cruz, CA, July, 1996.
151. B.-N. Zhou, N. J. Baj, T. E. Glass, D. G. I. Kingston, S. Malone "Potential Anticancer Agents and Biodiversity Conservation - Two New Bioactive Labdane Diterpenoids from Suriname Rainforest" 37th Annual Meeting of the American Society of Pharmacognosy, Santa Cruz, CA, July, 1996.
152. Y. Han, A. G. Chaudhary, M. D. Chordia, H. Malak, D. G. I. Kingston and S. L. Bane "Fluorescence Resonance Energy Transfer Between the Paclitaxel and Exchangeable GTP Binding Sites on Microtubules". 36th Annual Meeting of the American Society for Cell Biology, San Francisco, CA, December 1996 (*Mol. Biol. Cell* 7 (Supplement), 45a, 1996)
153. J. M. Watson, D. G. I. Kingston, M. Chordia, C. A. Rinehart, J. S. Haskill. "Correlation Between IL-8 Gene Induction and Cytotoxicity Induced by Taxol Analogs." Annual Meeting of American Association for Cancer Research, San Diego, CA, April, 1997.
154. C. Wu, D. G. I. Kingston. "Further Chemical Investigations of the Liverwort *Chiloscyphus rivularis*." 38th Annual Meeting of the American Society of Pharmacognosy, Iowa City, IA, July, 1997.
155. D. G. I. Kingston, B.-N. Zhou, M. Abdel-Kader, J. Berger. "Biodiversity Conservation and Drug Discovery in Suriname." 38th Annual Meeting of the American Society of Pharmacognosy, Iowa City, IA, July, 1997.
156. K. K. Lee, D. G. I. Kingston. New Protein Kinase C Inhibitors from *Pinus flexilis*." 38th Annual Meeting of the American Society of Pharmacognosy, Iowa City, IA, July, 1997.
157. M. S. Abdel-Kader, D. G. I. Kingston. "Bioactive Iridoids and a New Lignan from *Allamanda cathartica* and *Himatanthus fallax*." 38th Annual Meeting of the American Society of Pharmacognosy, Iowa City, IA, July, 1997.
158. C. Wu, D. G. I. Kingston, "Further Chemical Investigations of the Liverwort *Chiloscyphus rivularis*", American Society of Pharmacognosy, Iowa City, IA, July 1997.

159. D. G. I. Kingston, B.-N. Zhou, M. Abdel-Kader, J. Berger, "Biodiversity Conservation and Drug Discovery in Suriname", American Society of Pharmacognosy, Iowa City, IA, July 1997.
160. K. K. Lee, D. G. I. Kingston, "New Protein Kinase C Inhibitors from *Pinus flexilis*", American Society of Pharmacognosy, Iowa City, IA, July 1997.
161. M. S. Abdel-Kader, D. G. I. Kingston, "Bioactive Iridoids and a New Lignan from *Allamanda cathartica* and *Himatanthus fallax*", American Society of Pharmacognosy, Iowa City, IA, July 1997.
162. W. J. Lennox, D. G. I. Kingston, "The Use of Molecular Modeling in Conjunction with NMR for Structure Elucidation of Natural Products Containing Medium Rings." 49th ACS Southeast Regional Meeting, Roanoke, VA., October 19-22, 1997.
163. P. G. Jagtap, M. D. Chordia, D. G. I. Kingston, "Synthesis of Paclitaxels with Stable Isotope Labels", 49th ACS Southeast Regional Meeting, Roanoke, VA, October 19-22, 1997.
164. M. G. deCarvalho, D. G. I. Kingston, G. J. A. deCarvalho, "Chemical Constituents from *Luxemburgia nobilis* and *Ouratea floribunda*, 49th ACS Southeast Regional Meeting, Roanoke, VA, October 19-22, 1997.
165. J. M. Berger, D. G. I. Kingston, A. A. L. Gunatilaka, "Biodiversity Conservation and Drug Discovery: Bioactive Benzoquinones of *Miconia* sp. from the Suriname Rainforest", 49th ACS Southeast Regional Meeting, Roanoke, VA, October 19-22, 1997.
166. H. Yuan, M. D. Chordia, D. G. I. Kingston "Synthesis and Biological Evaluation of A-norpaclitaxel Analogs, 49th ACS Southeast Regional Meeting, Roanoke, VA, October 19-22, 1997.
167. A. A. L. Gunatilaka, D. G. I. Kingston, "Discovery of Natural Product-based Anticancer Agents with DNA-Damaging Activity", 7th International Symposium and Pakistan-US Binational Workshop on Natural Product Chemistry, Karachi, Pakistan, December 28, 1997-January 1, 1998.
168. S. H. No, E. Baloglu, D. G. I. Kingston "Asymmetric Synthesis of Paclitaxel Side Chain", 18th Annual Undergraduate Research Symposium, Blacksburg, February 1998.
169. S.-W. Yang, B.-N. Zhou, J. Wisse, R. Evans, H. van der Werff, D. G. I. Kingston, "Three New Ellagic Acid Derivatives from the Bark of *Eschweilera coriacea* from the Suriname Rain Forest", American Cancer Society, Cancer Research Seminar, Virginia Division, Blacksburg, VA, March 1998.
170. M. S. Abadel-Kader, B. Bahler, D. G. I. Kingston, "DNA-Damaging Steroidal Alkaloids from *Eclipta alba* from the Suriname Rain Forest", American Cancer Society, Cancer Research Seminar, Virginia Division, Blacksburg, VA, March 1998.
171. J. M. Berger, A. A. L. Gunatilaka, D. G. I. Kingston, "Bioactive Benzoquinones of *Miconia* sp. From the Suriname Rain Forest." American Cancer Society, Cancer Research Seminar, Virginia Division, Blacksburg, VA, March 1998.
172. L. Samala, P. G. Jagtap, A. G. Chaudhary, M. D. Chordia, M. Gharpure, A. L. Gunatilaka, P. I. Higgs, J. M. Rimoldi, D. G. I. Kingston, S. Grover, C. M. Lin, E. Hamel, "Synthesis and Biological Evaluation of 2-Aroyl Analogs of Paclitaxels", 215th ACS National Meeting, Dallas, TX, March 29-April 2, 1998.
173. H. Yuan, D. G. I. Kingston, "Synthesis of 6 α -Hydroxypaclitaxel: The Major Human Metabolite of Paclitaxel", 215th ACS National Meeting, Dallas, TX, March 29-April 2, 1998.
174. S.-W. Yang, D. G. I. Kingston, "Identification of Cryptolepine From the Suriname Rainforest, its Total Synthesis and Structure Modifications", 39th Annual meeting, American Society of Pharmacognosy, Orlando, Florida, July 1998.
175. S.-W. Yang, B.-N. Zhou, D. G. I. Kingston, "Three New Ellagic Acid Derivatives from the Bark of *Eschweilera coriacea* From the Suriname Rainforest", 39th Annual meeting, American Society of Pharmacognosy, Orlando, Florida, July 1998.

176. P. G. Jagtap, D. G. I. Kingston, "Synthesis of Fluorescent and Radiolabeled Paclitaxel Analogues", 39th Annual meeting, American Society of Pharmacognosy, Orlando, Florida, July 1998.
177. M. S. Abdel-Kader, B. Bahler, D. G. I. Kingston, "DNA-Damaging Steroidal Alkaloids from *Eclipta alaba* From the Suriname Rainforest", 39th Annual meeting, American Society of Pharmacognosy, Orlando, Florida, July 1998.
178. M. H. Sarragiotto, D. G. I. Kingston, "Synthesis of 10-Deacetoxy-A-Norpaclitaxel", 8th Brazilian Meeting on Organic Synthesis, September 1998.
179. M. H. Sarragiotto, A. A. L. Gunatilaka, D. G. I. Kingston, "Synthesis of a 5(20)-Selenopaclitaxel Analog", 8th Brazilian Meeting on Organic Synthesis, September 1998.
180. B.-N. Zhou, B. D. Bahler, D. G. I. Kingston, "PKC α Inhibitory Phemylethanoid Glycosides from *Digitalis purpurea* and *Penstemon linarioides*." 50th ACS Southeast Regional Meeting, Research Triangle Park, NC, November 4-7, 1998.
181. Y. Li, R. Edwall, S. Bane, D. G. I. Kingston, P. G. Jagtap, "Spectroscopic and Equilibrium Binding Properties of a Fluorescent Paclitaxel with Microtubules." 38th Annual Meeting, American Society for Cell Biology, San Francisco, CA, December 12-16, 1998.
182. P. G. Jagtap, D. G. I. Kingston, "A Facile Conversion of Paclitaxel to Docetaxel," 217th ACS National Meeting, Anaheim, CA, March 21- 25, 1999.
183. E. Baloglu, D. G. I. Kingston, "A New Synthesis of Taxol from Baccatin III," 217th ACS National Meeting, Anaheim, CA, March 21- 25, 1999.
184. A. Y. L. Shu, J. R. Heys, D. G. I. Kingston, P. G. Jagtap "Direct Hydrogen Isotope Labeling of Photophores and Complex Natural Products," Gordon Research Conference "Isotopes in Biological and Chemical Sciences" Ventura, CA, January 9-14, 2000.
185. D. G. I. Kingston, H. Yuan "Synthesis of Paclitaxel Analogs Modified at the C-6 and C-4 Positions," 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000.
186. D. G. I. Kingston, S. M. Hecht, R. K. Johnson, B.-N. Zhou, S., Schwikkard, M. R. Mattern, X. Wang "Natural Products as a Source of Novel Topoisomerase Inhibitors and DNA-Damaging Agents," 219th ACS National Meeting, San Francisco, CA, March 26-30, 2000.
187. B. B. Metaferia, D. G. I. Kingston "Synthesis of Labeled Paclitaxel Analogs for REDOR NMR Experiments," 220th ACS National Meeting, Washington, DC, August 20-24, 2000.
188. E. Baloglu, D. G. I. Kingston, S. Bane, P. Patel "Syntheses and Biological Evaluation of Fluorescent Labeled Paclitaxel Analogs," 220th ACS National Meeting, Washington, DC, August 20-24, 2000.
189. M. S. Abdel-Kader, D. G. I. Kingston "Bioactive Saponins from the Suriname Rainforest," 41st Annual Meeting of American Society of Pharmacognosy, Seattle, WA, July 22-26, 2000.
190. D. G. I. Kingston, M. Chordia, P. G. Jagtap, H. Yuan "Synthesis and Biological Activity of Ring C Derivatives of Taxol," 41st Annual Meeting of American Society of Pharmacognosy, Seattle, WA, July 22-26, 2000.
191. B.-N. Zhou, C. Slebodnick, D. G. I. Kingston, R. K. Johnson, M. R. Mattern "Cytotoxic Manzamine Alkaloids from a Marine Sponge," 41st Annual Meeting of American Society of Pharmacognosy, Seattle, WA, July 22-26, 2000.
192. D. G. I. Kingston, S. M. Hecht, R. K. Johnson, D. J. Newman, B.-N. Zhou, S. Schwikkard, M. R. Mattern, X. Wang "Naturally Occurring DNA-Damaging Agents and Topoisomerase Inhibitors," 41st Annual Meeting of American Society of Pharmacognosy, Seattle, WA, July 22-26, 2000.
193. B. B. Metaferia, D. G. I. Kingston, T. E. Glass "Synthesis, Conformation, and Biological Activities of Macrocyclic Taxol[®] Analogs," 42nd Annual Meeting of American Society of Pharmacognosy, Oaxaca, Mexico, July 15-18, 2001.

194. D. G. I. Kingston, B.-N. Zhou, J. M. Berger "Isolation and Structure Elucidation of Mechanism-based Potential Anticancer Agents." 42nd Annual Meeting of American Society of Pharmacognosy, Oaxaca, Mexico, July 15-18, 2001.
195. B. Das, D. G. I. Kingston "Cytotoxic Constituents of *Coussarea paniculata*," 42nd Annual Meeting of American Society of Pharmacognosy, Oaxaca, Mexico, July 15-18, 2001.
196. B.-N. Zhou, R. K. Johnson, M. R. Mattern, D. G. I. Kingston "Bioactive Glycoglycerol Lipids from a Marine Algal Species." 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
197. C. V. Sai Prakash, J. K. Schilling, J. S. Miller, R. Andriantsiferana, V. E. Rasamison, D. G. I. Kingston "Two New Triterpene Esters From The Twigs Of *Brachylaena ramiflora* from the Madagascar Rainforest" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
198. R. B. Williams, J. Hoch, R. Evans, J. S. Miller, J. H. Wisse, D. G. I. Kingston, "A Novel Cytotoxic Guttiferone Analog From *Garcinia macrophylla*" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
199. C. V. Sai Prakash, D. G. I. Kingston "Two New Triterpene Acids from *Manihot esculenta* from the Suriname Rainforest" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
200. C. V. Sai Prakash, D. G. I. Kingston "New Cytotoxic Bis 5-Alkylresorcinol Derivatives from The Leaves of *Oncostemon bojerianum* From the Suriname Rainforest." 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
201. C. V. Sai Prakash, J. K. Schilling, D. G. I. Kingston "New Cytotoxic Coumarins and Prenylated Benzophenone Derivatives from the Bark of *Ochrocarpus punctatus* from the Madagascar Rainforest" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
202. C. Liu, J. S. Strobl, J. K. Schilling, M. McCracken, D. G. I. Kingston "Design and Synthesis of Steroid Linked Taxol Analogs: A New Route Toward Selective Delivery of Cytotoxic Taxanes" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
203. B. Metaferia, D. G. I. Kingston, S. Bane, S. K. Chatterjee, J. K. Schilling, J. P. Snyder, A. Lakdawala, B. Cornett "Synthesis and Biological Evaluation of Bridged Taxol Analogs" 43rd Annual Meeting of the American Society of Pharmacognosy, New Brunswick, New Jersey, July 27-31, 2002.
204. B. Karliga, N. Talinli, D. G. I. Kingston "Synthesis of 3'-N-Thiocarbamate-bearing Paclitaxel Analogues" 224th ACS National Meeting, Boston, MA, August 18-22, 2002.
205. Kingston, David G. I.; Bane, Susan; Metaferia, Belhu B.; Chatterjee, Sabarni K.; Schilling, Jennifer K.; Snyder, James P.; Lakdawala, Ami; Cornett, Ben. "Synthesis, biological evaluation, and modeling of bridged Taxol- analogs." Abstracts of Papers, 224th ACS National Meeting, Boston, MA, August 18-22, 2002, MEDI-230.
206. J. A. Clement, D. G. I. Kingston "Studies of Bioactive Compounds from Marine Sources" ACS Southeastern Regional Meeting, Charleston, SC, November 13-16, 2002; Abstract 0368.
207. A. Farooq, J. K. Schilling, and D. G. I. Kingston "New Cytotoxic Bis-Alkylphenols from *Montrichardia arborescens* and *Panopsis sessilifolia* from Suriname" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
208. A. Farooq, J. K. Schilling, and D. G. I. Kingston "Antimalarial Eudesmanes From *Melampodium camphoratum* from the Madagascar Rainforest" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
209. A. Farooq, J. K. Schilling, and D. G. I. Kingston "New Cytotoxic Coumarins from Rhizomes of *Protium madagascariense* from the Madagascar Rainforest" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.

210. M. M. Radwan, A. Farooq, N. A. El-Sebakhy, S. M. Toaima, and D. G. I. Kingston "Three New Cycloartane-Type Saponins from Egyptian Collections Of *Astragalus tomentosus*" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
211. C. Liu, J. K. Schilling, and D. G. I. Kingston "Synthesis and Bioactivity of Macrocyclic Taxol Lactones as Probes of the Binding Site Conformation of Taxol on Tubulin" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
212. V. S. P. Chaturvedula, Z. Gao, S. M. Hecht, S. H. Jones, and D. G. I. Kingston "A New Acylated Oleanane Triterpenoid from *Couepia polyandra* that Inhibits the Lyase Activity of DNA Polymerase- β " 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
213. S. Tang, B.-N. Zhou, and D. G. I. Kingston "Synthesis and Bioactivity of 6-Deoxy-6-Aminoglucosyl-Glycolipids" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
214. V. S. P. Chaturvedula, Z. Gao, S. M. Hecht, S. H. Jones, and D. G. I. Kingston "New Neolignans Exhibiting Polymerase- β Lyase Activity from the Roots of an *Endlicheria* Species" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
215. J. A. Clement, Z. Gao, S. M. Hecht, S. H. Jones, and D. G. I. Kingston "Aminopropyl Bonded Silica for Dereplication of Long-Chain Fatty Acids in Natural Products Drug Discovery" 44th Annual Meeting of the American Society of Pharmacognosy, Chapel Hill, North Carolina, July 12-16, 2003.
216. T. Ganesh, J. K. Schilling, S. Bane, R. Ravindra, N. Shanker, and D. G. I. Kingston "Synthesis and Biological Evaluation of Fluorescently Labeled Epothilone Analogs for Tubulin Binding Studies", 226th ACS National Meeting, New York, NY, September 7-11, 2003; Abstract MEDI 262.
217. G. F. Paciotti, D. G. I. Kingston, C. Liu, L. D. Myer, K. Marvin, L. Tamarkin "Colloid Gold: A Platform for Developing Tumor-targeting Chemotherapeutics" AACR 94th Annual Meeting, Toronto, April 5-9, 2003; Abstract #3676.
218. P. Mayes, S. Cao, and D. G. I. Kingston. "Bioassay Directed Isolation of Natural Products from *Physena madagascariense*." Fall 2003 Undergraduate Research Symposium, Virginia Polytechnic Institute and State University, Blacksburg, VA, November 14, 2003; Poster P4.
219. W. A. Harrell, Jr., R. Williams, and D. G. I. Kingston. "The Search for Possible Anticancer Agents in *Annona muricata L.*" Fall 2003 Undergraduate Research Symposium, Virginia Polytechnic Institute and State University, Blacksburg, VA, November 14, 2003; Poster P6.
220. D. G. I. Kingston, C. Liu, M. Tamm, M. W. Nötzel, A. de Meijere, J. K. Schilling, J. P. Snyder, A. Lakdawala, L. Cegelski, S. Bane, N. Shanker, and R. Ravindra. Design, Synthesis, and Bioactivity of Taxol analogs with a Cyclopropanated Side-chain. 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004. Abstract MEDI 108
221. D. G. I. Kingston, C. Liu, J. K. Schilling, S. Bane, N. Shanker, and R. Ravindra "Syntheses and Bioactivities of Taxol Macrolides" 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004. Abstract MEDI 109
222. D. G. I. Kingston, T. Ganesh, J. K. Schilling, R. C. Guza, S. Bane, N. Shanker, R. Ravindra, J. P. Snyder, A. Lakdawala, L. Cegelski, R. D. O'Connor, and J. Schaefer "Taxol Pharmacophore: Experimental Evidence From A Highly Active Constrained Analog And Redor NMR." 227th ACS National Meeting, Anaheim, CA, March 28-April 1, 2004. Abstract MEDI 192.
223. B. J. Yoder, J. K. Schilling, A. Norris, J. S. Miller, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston "Highly Cytotoxic Schweinfurthin-Type Compounds from the Fruit of a *Macaranga* (Euphorbiaceae) Species" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract O:16.

224. B. J. Yoder, J. K. Schilling, J. S. Miller, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston "New Cytotoxicity Observed in Cerbinal, A Known Product of *Cerbera manghas*" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:502.
225. D. G. I. Kingston, T. Ganesh, J. K. Schilling, S. Bane, N. Shanker, R. Ravindra, J. P. Snyder, and A. Lakdawala "Taxol Pharmacophore: Experimental Evidence from a Highly Active Constrained Analog NMR" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:389.
226. S. Cao, Z. Gao, S. J. Thomas, S. M. Hecht, and D. G. I. Kingston "Marine Sesquiterpenoids that Inhibit the Lyase Activity of DNA Polymerase β " International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:420.
227. R. B. Williams, A. Norris, J. S. Merola, J. S. Miller, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston "New Cytotoxic Sesquiterpene Lactones from *Apodocephala sp.* from the Madagascar Rainforest" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:503
228. E. Adou, R. B. Williams, J. Schilling, S. Malone, J. H. Wisse, and D. G. I. Kingston "New Cytotoxic Diterpenoids from *Humiriantherea ampla* from the Suriname Rainforest" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:504.
229. S. Cao, R. C. Guza, A. Norris, J. S. Miller, J. H. Wisse, and D. G. I. Kingston "Ipomoeassins A-E, Five New Cytotoxic Macrocyclic Glycoresins, from the Leaves of *Ipomoea squamosa*" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:505.
230. V. S. P. Chaturvedula, A. Norris, J. S. Miller, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston "New Cytotoxic Diterpenes from *Cassipourea* Species from the Madagascar Rainforest" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:506.
231. V. S. P. Chaturvedula, A. Farooq, S. Malone, J. H. Wisse, and D. G. I. Kingston "New Eudesmane Derivatives from the Leaves of *Melampodium camphoratum* from the Suriname Rainforest Exhibiting Antimalarial Activity" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:507
232. V. S. P. Chaturvedula, B.-N. Zhou, Z. Gao, S. J. Thomas, S. M. Hecht, D. G. I. Kingston "New Lupane Triterpenoids from *Solidago canadensis* that Inhibit the Lyase Activity of DNA Polymerase β " 45th International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:508.
233. V. S. P. Chaturvedula, S. M. Hecht, C. Foster, J. S. Lazo, and D. G. I. Kingston "Saponins from *Syzygium guianeense* Exhibiting Cdc25 Activity" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:509.
234. M. M. Radwan, N. A. El-Sebakhy, A. M. Asaad, S. M. Toaima, and D. G. I. Kingston "Triterpene Glycosides from *Astragalus tomentosus*" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:527
235. M. M. Radwan, N. A. El-Sebakhy, A. M. Asaad, S. M. Toaima, and D. G. I. Kingston "New Cycloartane-Type Triterpenes from *Astragalus kahiricus*" International Congress on Natural Products Research and 45th Annual Meeting of the American Society of Pharmacognosy, Phoenix, Arizona, July 31-August 4, 2004. Abstract P:528.

236. J. A. Clement, D. G. I. Kingston, and S. M. Hecht, "Bioactive Triterpenoids from *Petalonyx parryi*". Southeastern Regional Meeting, American Chemical Society, November 2004.
237. N. Shanker, R. Ravindra, T. Ganesh, A. Morris, A. S. Lakdawala, A. Giannakakou, S. Thomas, D. G. I. Kingston, J. P. Snyder, S. L. Bane "Microtubule Binding, Stabilization and Cytotoxicities of Conformationally Constrained Taxol Derivatives". American Society of Cell Biology 44th Annual Meeting, Dec 4-8, 2004, Washington, DC.
238. T. Ganesh, A. Norris, S. Sharma, S. Bane, A. S. Lakdawala, J. P. Snyder, and D. G. I. Kingston "Design, Synthesis, and Bioactivity of Simplified Paclitaxel Analogs Based on the T-Taxol Bioactive Conformation" 229th ACS National Meeting, San Diego, CA, March 12-16, 2005. Abstract MEDI 291.
239. S. Cao, C. Foster; J. Lazo, and D. G. I. Kingston "Three New Diterpenoids Inhibitors of the Phosphatase Cdc25B from a Marine Organism" 229th ACS National Meeting, San Diego, CA, March 12-16, 2005. Abstract MEDI 152.
240. S. Cao, D. G. I. Kingston, R. C. Guza, J. H. Wisse, R. Evans, J. S. Miller, and H. van der Werff, "Ipomeassins A-E, Five New Cytotoxic Macrocyclic Glycoresins, From the leaves of *Ipomoea squamosa* from the Suriname Rainforest. 229th ACS National Meeting, San Diego, CA, March 12-16, 2005. Abstract MEDI 420.
241. T. Ganesh, S. Bane, R. Ravindra, N. Shanker, A. S. Lakdawala, J. P. Snyder, A. Norris, and D. G. I. Kingston "Evaluation of the Bioactive Tubulin-binding Paclitaxel Conformation: Synthesis and Biological Evaluation of C4 to C3'-phenyl Bridged Paclitaxel Analogs. 229th ACS National Meeting, San Diego, CA, March 12-16, 2005. Abstract MEDI 471.
242. S. Cao, J. Lazo, C. Foster, and D. G. I. Kingston "Sesterterpenoids and an Alkaloid from a *Thorectandra* sp. as Inhibitors of the Phosphatase Cdc25B. 229th ACS National Meeting, San Diego, CA, March 12-16, 2005. Abstract MEDI 150.
243. G. F. Paciotti, L. Myer, D. G. I. Kingston, T. Ganesh, and L. Tamarkin, "Colloidal Gold Nanoparticles: A Versatile Platform for Developing Tumor Targeted Cancer Therapies". NSTI Nanotechnology Conference and Trade Show, May 8-12, 2005, Anaheim, California, U.S.A., pp. 7-10.
244. Y. Hou, S. Cao, A. Norris, J. S. Miller, F. Ratovoson, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston, "New Cytotoxic Triterpenes from a *Macarisia* sp. From the Madagascar Rainforest". 46th Annual Meeting of the American Society of Pharmacognosy, July 23-27, 2005, Corvallis, Oregon, U.S.A.
245. B. T. Murphy, S. Cao, A. Norris, J. S. Miller, F. Ratovoson, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston "Cytotoxic Flavanones of *Schizolaena hystrix* from the Madagascar Rainforest". 46th Annual Meeting of the American Society of Pharmacognosy, July 23-27, 2005, Corvallis, Oregon, U.S.A.
246. R. B. Williams, A. Norris, J. S. Miller, F. Ratovoson, R. Andriantsiferana, V. E. Rasamison, and D. G. I. Kingston, "Two New and Two Known Cytotoxic Naphthaquinones from *Mendoncia cowanii* from the Rainforest of Madagascar". 46th Annual Meeting of the American Society of Pharmacognosy, July 23-27, 2005, Corvallis, Oregon, U.S.A.
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249. T. Ganesh, P. Brodie, S. Bane, S. Sharma, R. Ravindra, J. P. Snyder, and D. G. I. Kingston. "Design, Synthesis and Biological Investigation of Conformationally Constrained Epothilone D Analogs" 231st ACS National Meeting, Atlanta, GA, March 26-30, 2006. Abstract MEDI 14.

250. A. A. Alcaraz, T. Ganesh, C. Yang, S. Sharma, A. Norris, A. K. Mehta, S. Bane, D. G. I. Kingston, J. P. Snyder, "Computational Analysis of T-Taxol and Highly Modified Taxane Analogs." 231st ACS National Meeting, Atlanta, GA, March 26-30, 2006, Abstract MEDI 15.
251. T. Olson, B. Murphy, D. G. I. Kingston, "Cytotoxic Compounds from the Madagascar Rain Forest." Fourteenth Annual Undergraduate and High School Poster Session, Blue Ridge Section of the ACS, Radford University, April 19, 2006.
252. Younkee Paik, Robert D. O'Connor, Jacob Schaefer, David G. I. Kingston, Barbara Poliks, Susan Bane. $^2\text{H}\{^{19}\text{F}\}$ REDOR Distance Measurements of Microtubule-Bound Paclitaxel. 47th Experimental NMR Conference, The Asilomar Conference Center, Pacific Grove, California. April 23- 28, 2006. Poster P 056.
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254. S. Cao, A. Norris, J. S. Miller, F. Ratovoson, R. Andriantsiferana, V. E. Rasamison, D. G. I. Kingston. "Gummiferaosides A, B, and C, Cytotoxic Triterpenoid Saponins of *Albizia gummifera* from the Madagascar Rain Forest." 47th Annual Meeting of the American Society of Pharmacognosy, August 5-9, 2006, Arlington, VA, Abstract O-43.
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261. D. G. I. Kingston, S. Cao, Y. P. Hou, and B. T. Murphy "Biodiversity Conservation and Drug Discovery: Can they be Combined? The Suriname and Madagascar Experiences". Deans' Forum on the Environment, Virginia Polytechnic Institute and State University, February 2007.
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271. Farrar, W. L., Qi, J., Kingston, D. G. I., Sharifi, N. "Androgen Receptor-targeted Taxane Analogs For Androgen-independent Prostate Cancer." CDMRP IMPaCT Meeting, Atlanta, GA, September 7, 2007.
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Rainforest” 4th Interim ASP Meeting, National Center for Natural Products Research, Oxford, Mississippi, April 12-16, 2008.

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282. Cao, S., Brodie, P., Miller, J. S., Ratovoson, F., Razafitsalama, J., Rakotobe, E., Rasamison, V. E., Kingston, D. G. I. “Saponins and a Lignan Derivative of *Terminalia tropophylla* from the Madagascar Rain Forest” 50th Annual Meeting of the American Society of Pharmacognosy, Honolulu, HI, June 27 – July 1, 2009, P-373.
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286. Pan, E., Cao, S., Brodie, P., Callmander, M., Rakotonandrasana, S., Rakotobe, E., Rasamison, V. E., Kingston, D. G. I. “Cardenolides From The Madagascar Plant *Leptadenia madagascariensis*” 50th Annual Meeting of the American Society of Pharmacognosy, Honolulu, HI, June 27 – July 1, 2009, P-208
287. Zhao, J., Bane, S., Snyder, J. P., Hu, H., Kingston, D. G. I. “Design And Synthesis Of Simplified Paclitaxel Analogs Based On The T-taxol Bioactive Conformation” 50th Annual Meeting of the American Society of Pharmacognosy, Honolulu, HI, June 27 – July 1, 2009, P-209.
288. Rasamison V.E., Pan E., Cao S., Ranaivo-Harimanana L., Andriantsoa M., Ratsimbason M., Ranarivelo L., Ratovoson F., Randriantafika F., Rakotondrajaona R., Rakotonandrasana S., Andriantsiferana R., Rakotobe E., Kingston D.G.I. “Constituants Chimiques De *Vitex Cauliflora* Moldenke et *Vepris Macrophylla* Verdoorn” XXVth Anniversary of the "Formation Doctorale, Spécialité Produits Naturels", University of Antananarivo, March 10-12, 2010.
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313. Su, Q., Harinantenaina, L., Brodie, P. J., Callmander, M.W., Rakotondrajaona, R., Rakotobe, E., Rasamison, V.E., Kingston, D. G. I. (2013) "Determination of the Absolute Configuration of a Flavanone Isolated from a Madagascar Plant" Annual Meeting of the ASP, St. Louis, MO, July 14-17, 2013. *Planta Med.* **79** (10):866.
314. Dai, Y., Harinantenaina, L., Brodie, P. J., Bowman, J. D., Goetz, M., Cassera, M. B., Kingston, D. G. I. (2013) "Isolation, Synthesis, and SAR Study of Antiplasmodial Anthraquinones from *Kniphofia caulescens*" Annual Meeting of the ASP, St. Louis, MO, July 14-17, 2013. *Planta Med.* **79** (10):871.
315. Xia, L.; Kingston, D. G. I. Design and Analysis of Doxorubicin Derivatized Gold Nanoparticles for Tumor-targeted Drug Delivery. Annual Meeting of the ASP, Oxford, MS, August 2-6, 2014. *Planta Med.* **2014**, *80*, 763-763.
316. Su, Q.; Harinantenaina, L.; Brodie, P. J.; Goetz, M.; Kingston, D. G. I. Unusual Cytotoxic Sesquiterpene Xylosides Isolated from *Nidorella sp.* Annual Meeting of the ASP, Oxford, MS, August 2-6, 2014. *Planta Med.* **2014**, *80*, 795-795.
317. Liu, Y.; Harinantenaina, L.; Brodie, P. J.; Bowman, J. D.; Cassera, M. B.; Goetz, M.; Kingston, D. G. I. Antiproliferative and Antimalarial Sesquiterpene Lactones from *Piptocoma antillana*. Annual Meeting of the ASP, Oxford, MS, August 2-6, 2014. *Planta Med.* **2014**, *80*, 796-796.
318. Scarboro, D. B.; Presley, C.; Brodie, P. J.; Callmander, M.; Rakotonandrasana, S.; Rakotobe, E.; Rasamison, V. E.; Kingston, D. G. I. Isolation of Antiproliferative Agents from *Micronychia*

tsiramiramy. Presented at Chemistry Undergraduate Research Symposium, Hahn Hall South, Virginia Tech, April 25, 2014. Poster VIIIa.

319. Wiedle, C. H., Jr.; Liu, Y.; Brodie, P. J.; Easton, A.; Kingston, D. G. I. Antiproliferative Compounds from *Malleastrum rakotozafyi*. Presented at Chemistry Undergraduate Research Symposium, Hahn Hall South, Virginia Tech, April 25, 2014. Poster VIIIb.
320. Crane, S. M.; Hollingsworth, B.; Heizer, P.; Kingston, D. G. I.; Bassaganya-Riera, J.; Gandour, R. D. Synthesis of Anti-Inflammatory Natural Products. Presented at Chemistry Undergraduate Research Symposium, Hahn Hall South, Virginia Tech, April 25, 2014. Poster IVe.
321. Kingston, D. G. I. Virginia Tech Center for Drug Discovery. Presented at Southwest Virginia Life Science Forum, Virginia Tech Carilion Research Institute, Roanoke, VA, April 15, 2014.
322. Du, Y.; Dai, Y.; Krai, P.; Goetz, M.; Cassera, M. B.; Kingston, D. G. I. Isolation of sesquiterpene lactones from *Trichospiras verticillata*. Annual Meeting of the ASP, Copper Mountain, CO, July 25-30, 2015. *Planta Med.* **2015**, 81, PX44.
323. Wang, M.; Krai, P.; Dalal, S.; Cassera, M.; Goetz, M.; Rakotonandrasana, S.; Rasamison, V. E.; Kingston, D. G. I. Four antimalarial limonoids isolated from *Carapa guianensis* and two antiproliferative diterpenes isolated from *Hypoestes* sp. Annual Meeting of the ASP, Copper Mountain, CO, July 25-30, 2015. *Planta Med.* **2015**, 81, PX43.
324. Fotso, S.; Xiong, Q.; Graupner, P. R.; Rakotondraibe, H. L. ; Olson, M. ; Wiley, J. D.; Krai, P.; Brodie, P. J.; Callmander, M. W.; Rakotobe, E.; Ratovoson, F.; Rasamison, V. E.; Cassera, M. B.; Hahn, D. R.; Kingston, D. G. I. Neolignans and other metabolites from *Ocotea cymosa* from the Madagascar rain forest and their biological activities. Annual Meeting of the ASP, Copper Mountain, CO, July 25-30, 2015. *Planta Med.* **2015**, 81, PX19.
325. Presley, C. C.; Krai, P.; Dala, S.; Cassera, M.; Goetz, M. ; Kingston, D. G. I. Two new potent antimalarial alkaloids, cripowellins C and D, from the swamp lily *Crinum erubescens*. Annual Meeting of the ASP, Copper Mountain, CO, July 25-30, 2015. *Planta Med.* **2015**, 81, PX54.
326. Kingston, D. G. I. The Virginia Tech Center for Drug Discovery and the Virginia Drug Discovery Consortium. Drug Discovery in Academia Colloquium 2016, San Diego, CA, April 7, 2016.
327. Kingston, D. G. I. The Virginia Tech Center for Drug Discovery and the Virginia Drug Discovery Consortium. Presented at the Southwest Virginia Life Science Forum, Virginia Tech Carilion Research Institute, Roanoke, VA, April 8, 2016.

H. Invited Lectures

1. "Structural Studies on Natural Products by Physical Methods," Department of Chemistry, University of Massachusetts, 1968.
2. "Organic Mass Spectrometry," Department of Chemistry, Mount Holyoke College, November, 1968.
3. "The Structure of Ostreogrycin A," Department of Chemistry, Dartmouth College, 1969.
4. "Poisonous Plant Constituents," Department of Chemistry, Dartmouth College, February 1969.
5. "Recent Advances in Mass Spectrometry," Department of Chemistry, Hofstra University, April, 1969.
6. "Mass Spectrometry of Organic Compounds," Department of Chemistry, Smith College, May, 1970.
7. "Applications of High Performance Liquid Chromatography to the Isolation of Natural Products," Department of Pharmacognosy & Pharmacology, University of Illinois at the Medical Center, Chicago, 1974.
8. "Mass Spectrometry of Mycotoxins," Symposium Talk at the Association of Official Analytical Chemists Annual Meeting, 1975.

9. "Bis-indole Alkaloids as Anticancer Agents," Department of Chemistry, University of West Virginia, 1976.
10. "*Tabernaemontana* Alkaloids," School of Pharmacy, University of Pittsburgh, 1976.
11. "Naturally Occuring Anticancer Agents," Department of Chemistry, Virginia Commonwealth University, 1976.
12. "Naturally Occurring Anticancer Agents," School of Pharmacy, University of Connecticut, September, 1977.
13. "Natural Products Against Cancer," Department of Chemistry, Washington and Lee University, December, 1979.
14. "Isolation and Synthesis of Indole Alkaloids and Their Anticancer Activity," Department of Chemistry, Temple University, Philadelphia, Pa., March, 1980.
15. "The Biosynthesis of Virginiamycin M₁," SmithKline Animal Health Products, March, 1980.
16. "The Biosynthesis of Virginiamycin M₁," Pharmacy Department, University of Nottingham, England, July, 1980.
17. "The Biosynthesis of Virginiamycin M₁," Recherche et Industrie Therapeutique, Brussels, Belgium, June, 1980.
18. "The Biosynthesis of Virginiamycin M₁," CIBA-GEIGY, Basel, Switzerland, July, 1980.
19. "Structural Studies on a Mutagenic Bacterial Product from Human Feces," Banbury Symposium on "Gastrointestinal Cancer: Endogeneous Factors," October, 1980.
20. "The Biosynthesis of Virginiamycin M₁," Department of Medicinal Chemistry and Pharmacognosy, Purdue University, November, 1980.
21. "Biosynthesis of Antibiotic A2315A," Lilly Research Laboratories, Eli Lilly and Company, November, 1980.
22. "The Biosynthesis of Virginiamycin M₁," National Institutes of Health, Washington, D.C., January, 1981.
23. "Natural Products as Anticancer Agents," Department of Chemistry, Princeton University, February, 1981.
24. "The Biosynthesis of Virginiamycin M₁," Department of Chemistry, Princeton University, February, 1981.
25. "The Biosynthesis of Virginiamycin M₁," Department of Chemistry, University of Michigan, May, 1981.
26. "Biosynthesis of Virginiamycin M₁," Department of Medicinal Chemistry, Medical College of Virginia/Virginia Commonwealth University, March 1982.
27. "Biosynthesis of Antibiotics of the Virginiamycin Family," 13th IUPAC Symposium on the Chemistry of Natural Products, Pretoria, South Africa, August 1982.
28. "Natural Products as Anticancer Agents," Department of Chemistry, University of Cape Town, South Africa, August 1982.
29. "Biosynthesis of Antibiotics of the Virginiamycin Complex," NCI-Frederick, MD, January, 1983.
30. "Cytotoxic Natural Products," Bristol Laboratories, Syracuse, N.Y., February, 1983.
31. "The Chemistry of a Potent New Mutagen from Human Feces," National Cancer Institute Laboratory and Branch Chiefs Meeting, Bethesda, Md., May, 1983.
32. "Structure Elucidation and Synthesis of a Potent Fecal Mutagen," American Health Foundation, Valhalla, N.Y., August, 1983.
33. "Biosynthesis of Antibiotics of the Virginiamycin Family," Department of Chemistry, Clemson University, October, 1983.

34. "Applications of HPLC to Problems in Natural Products Chemistry," Symposium on HPLC, ACS 35th Southeastern Regional Meeting, Charlotte, N.C., November, 1983.
35. "Is Colon Cancer a Bacterial Disease?" American Chemical Society, Virginia Section, November, 1983.
36. "Studies on Carcinogens and Anticancer Natural Products," American Cancer Society Montgomery Section, December 1983.
37. "Is Colon Cancer a Bacterial Disease? Isolation, Structure, and Synthesis of a Novel Fecal Mutagen," Department of Chemistry, The Catholic University of America, March 1984.
38. "Natural Products as Anticancer Agents. I. Introduction." Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, April 1984.
39. "Natural Products as Anticancer Agents. II. Alkaloids." Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, April 1984.
40. "Natural Products as Anticancer Agents. III. Non-alkaloids." Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, April 1984.
41. "Biosynthesis of Antibiotics of the Virginiamycin Family" Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, April 1984.
42. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen" Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, April 1984.
43. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Atlanta Regional Research Laboratories, Dalhousie University, Halifax, Nova Scotia, July, 1984.
44. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Department of Chemistry, University of Virginia, February, 1985.
45. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Center in Toxicology, Vanderbilt University, April, 1985.
46. "Studies on the Biosynthesis of Antibiotics of the Virginiamycin Complex, SmithKline Animal Health Products, August, 1985.
47. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Smith Kline and French Laboratories, October, 1985
48. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Faculty of Pharmaceutical Science, University of Tokyo, November, 1985.
49. "Modified Taxols as Anticancer Agents," Kobe Women's College of Pharmacy, November, 1985.
50. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," University of Hong Kong, November, 1985.
51. "Synthesis and Structure-Activity Relationships of Taxol Derivatives as Anticancer Agents," Second International Symposium on Natural Products, Karachi, Pakistan, January, 1986.
52. "Taxol Derivatives as Anticancer Agents," Institute for the Chemistry of Natural Products, Gif-sur-Yvette, France, January, 1985.
53. "Is Colon Cancer a Bacterial Disease? Studies of a Novel Fecal Mutagen," Department of Chemistry, The College of William and Mary, February 1986.
54. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Eppley Research Institute, Omaha, Nebraska, February, 1987.
55. "Synthesis of Modified Taxols as Anti-cancer Agents," Department of Chemistry, University of Nebraska-Lincoln, Lincoln, Nebraska, February 1987.
56. "Modified Taxols as Anticancer Agents," Department of Medicinal Chemistry, Virginia Commonwealth University-Medical College of Virginia, March 1987.

57. "Biosynthesis of Antibiotics of the Virginiamycin Family," Plenary lecture, 14th International Symposium on the Chemistry of Natural Products, Monterrey, Mexico, April, 1987.
58. "Biosynthesis of Antibiotics of the Virginiamycin Family," Department of Pharmacognosy, University of Houston, May, 1987.
59. "Studies on the Biosynthesis of Antibiotics of the Virginiamycin Family," Department of Chemistry, Boston University, September, 1987.
60. "Studies on the Biosynthesis of Virginiamycin M₁," Department of Chemistry, University of Georgia, October, 1987.
61. "Applications of Synthesis to Structural and Biosynthetic Studies of Natural Products," Symposium lecture, American Chemical Society 39th Southeastern Regional Meeting, Orlando, Florida, November, 1987.
62. "Biosynthesis of Virginiamycin M₁," Forestry Department, Virginia Polytechnic Institute and State University, September, 1988.
63. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Department of Medicinal Chemistry and Pharmacognosy, University of Illinois at Chicago, October, 1988.
64. "Studies on Taxol," Department of Chemistry, University of Virginia, October, 1988.
65. "Structural and Mechanistic Studies of Taxol, a Novel Highly Active Antitumor Agent," School of Pharmacy, National Taiwan University, Taipei, Taiwan, March, 1989.
66. "Studies on the Biosynthesis of Virginiamycin M₁," Department of Chemistry, National Taiwan University, Taipei, Taiwan, March, 1989.
67. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," School of Pharmacy, Kaohsiung Medical College, Kaohsiung, Taiwan, March, 1989.
68. "Studies on the Biosynthesis of Virginiamycin M₁," Department of Chemistry, National Chung-Kung University, Tainan, Taiwan, March, 1989.
69. "The Chemistry of Taxol, a Clinically Useful Anticancer Agent," Research Congress on Natural Products, San Juan, Puerto Rico, August, 1989.
70. "Green Medicine: Natural Products as Anticancer Agents," North Carolina Pharmaceutical Discussion Group, Research Triangle Park, North Carolina, November, 1989.
71. "The Chemistry of Taxol," Brazil-U.S. Workshop in Natural Products, Sao Paulo, Brazil, May 1990.
72. "Chemistry and Structure-Activity Relationships of Taxol," Workshop on Taxol and *Taxus*: Current and Future Perspectives. National Cancer Institute, Bethesda, Md., June 1990.
73. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Department of Chemistry, Brown University, Providence, RI, November 1990.
74. "Biosynthesis of Antibiotics of the Virginiamycin Complex," Symposium on Biosynthesis and Metabolism of Secondary Metabolite Natural Products, 201st National Meeting, American Chemical Society, Atlanta, Georgia, April 1991.
75. "The Chemistry of Taxol, a Novel Antitumor Agent from *Taxus brevifolia*," Department of Chemistry, The University of British Columbia, Vancouver, British Columbia, May 1991.
76. "The Chemistry of Taxol, a Novel Antitumor Agent from *Taxus brevifolia*," Department of Chemistry, University of Washington, Seattle, Washington, May 1991.
77. "The Chemistry of Taxol, a Novel Antitumor Agent from *Taxus brevifolia*," Department of Chemistry, Oregon State University, Corvallis, Oregon, May 1991.
78. "Taxol and Other Anticancer Agents from Plants," International Conference on New Drugs from Natural Sources, Gloucester Hotel, London, England, June 1991.

79. "Taxol, an Exciting Anticancer Natural Product from *Taxus brevifolia*," Department of Chemistry, University of Puerto Rico, Rio Pedras, Puerto Rico, October 1991.
80. "Taxol: an Exciting New Anticancer Drug from *Taxus brevifolia*," Department of Chemistry, Northeastern University, Boston, Massachusetts, October 1991.
81. "Anticancer Agents from Plants. Studies with Taxol and Other Compounds," J. Clarence Karcher Lecture, Department of Chemistry, University of Oklahoma, Norman, Oklahoma, November 1991.
82. "The Chemistry of Taxol, an Effective Anticancer Compound from the Western Yew, *Taxus brevifolia*," Symposium on Isolation, Biosynthesis, and Synthesis of Plant Derived Natural Products, American Chemical Society 43rd Southeast Regional Meeting, Richmond, Virginia, November 1991.
83. "The Chemistry of Taxol, an Exciting New Anticancer Agent from *Taxus brevifolia*," Abbott Laboratories, Chicago, Illinois, December 1991.
84. "Studies on the Chemistry of Taxol, an Important New Anticancer Agent", Memorial Sloan-Kettering Cancer Center, February 11, 1992.
85. "Taxol, a Novel New Anticancer Agent", Lederle Laboratories, American Cyanamid Company, February 20, 1992.
86. "Studies on the Chemistry of Taxol", Symposium on Taxol, ACS National Meeting, San Francisco, CA, April 8, 1992.
87. "Taxol, a Clinically Active Anticancer Agent from *Taxus brevifolia*: an Overview". Symposium on Human Medicinal Agents from Plants, ACS National Meeting, San Francisco, CA, April 9, 1992.
88. "Taxol, an Exciting New Anticancer Natural Product: a Chemical Overview". Northeastern Section, American Chemical Society, Boston, MA, May 14, 1992.
89. "Studies on the Chemistry and Structure-Activity Relationships of Taxol", American Chemical Society, 22nd Northeast Regional Meeting, Syracuse, NY, June 23, 1992.
90. "Studies on the Chemistry of Taxol, an Important Natural Anticancer Agent", XII Simposio de Plantas Mediciniais do Brasil, Curitiba, Brazil, September 16, 1992.
91. "Yew and You: The Development of Taxol as an Anticancer Agent", American Chemical Society - Sigma Xi Meeting, Johnson City, TN, January 21, 1993.
92. "Yew and Me: The Chemistry of Taxol", Department of Chemistry, Florida State University, March 11, 1993.
93. "Chemistry of Taxol Analogs", Cancer and Infectious Diseases Research, The Upjohn Company, June 10, 1993.
94. "Taxol: a Natural Anticancer Agent that Almost Got Away", UNESCO Regional Seminar on Chemistry of Medicinal Plants, Chengdu, P.R. China, August 22, 1993.
95. "Applications of NMR to Structure Determination of Natural Products", Eastern Analytical Symposium, Somerset, NJ, November 15, 1993.
96. "Seeking Private Sector Support", Workshop on Technology Commercialization: Dollars and Sense, VTIP, December 2, 1993.
97. "Biodiversity Conservation in Suriname: a Chemist's Perspective," Department of Geography, VPI & SU, February 1994.
98. "Studies on the Chemistry of Taxol," Symposium on "Advances in the Medicinal Chemistry of Taxol and Taxoids", 207th ACS National Meeting, San Diego, CA, March 1994.
99. "Yew and Me: Studies on the Chemistry of Taxol," Hauser Chemical Research, Boulder, CO, June 1994.

100. "Studies on the Chemistry of Paclitaxel (Taxol)," Symposium on Recent developments in Natural Product Synthesis, 46th ACS Southeastern Regional Meeting, Birmingham, AL, October 1994.
101. "Yew and Me: Studies on the Chemistry of Taxol," Department of Chemistry, University of the Virgin Islands, November 1994.
102. "Novel DNA-Damaging Agents from Plants and Marine Organisms," Department of Chemistry, University of the Virgin Islands, November 1994.
103. "Green Medicine: New Natural Products as Potential Anticancer Agents," Department of Chemistry, State University of New York at Albany, December 1994.
104. "Yew and Me: Studies on the Chemistry of Taxol," Department of Chemistry, Rensselaer Polytechnic Institute, December 1994.
105. "Yew and Me: Studies on the Chemistry of Taxol," College of Pharmacy, University of Connecticut, February 1995.
106. "Yew and Me: Studies on the Chemistry of Taxol," Department of Medicinal Chemistry, College of Pharmacy, University of Utah, April 1995.
107. "Studies on the Chemistry of Taxol," Sigma Chemical Company, St. Louis, MO, September 1995.
108. "Yew and Me: Studies on the Chemistry of Taxol," Department of Chemistry, State University of New York at Binghamton, October 1995.
109. "Fun with Paclitaxel; the Synthesis of Analogues for Pleasure and Utility" 20th Belgian-Dutch LOF Symposium on Pharmacognosy and Natural Products Chemistry, Leiden, The Netherlands, November 1995.
110. "Fun and Games with Taxol: New and Old Reactions of a Complex Natural Product," The MONA Symposium on Natural Products and Medicinal Chemistry, 1996, Kingston, Jamaica, January 8-12, 1996.
111. "Sorties and Surprises with Taxol" Science Seminar, University of the Virgin Islands, March 1996.
112. "Green Medicine: Drugs from the Rain Forest" Science Seminar, University of the Virgin Islands, March 1996.
113. "Sorties and Surprises: Unexpected Reactions of Taxol" 22nd International Symposium on the Chemistry of Natural Products, El Instituto de Química, UNAM, Mexico City, Mexico, May 1996.
114. "Sorties and Surprises: Studies on the Chemistry of Paclitaxel (Taxol)." 20th IUPAC Symposium on the Chemistry of Natural Products, Chicago, IL, September, 1996.
115. "Sorties and Surprises: Unexpected Reactions of Taxol." 44th Annual Congress of the Society for Medicinal Plant Research, Prague, Czech Republic, September 1996.
116. "Sorties and Surprises: Studies on the Chemistry of Paclitaxel (Taxol)", Symposium on Taxol and Taxane Anticancer Agents, Division of Medicinal Chemistry, Korean Chemistry Society, Seoul, Korea, November 1996.
117. "Biodiversity Conservation and Drug Development in Suriname" IOCD/CYTED International Joint Symposium on Chemistry, Biological and Pharmacological Properties of Medicinal Plants from the Americas, Panama City, Panama, February 1997.
118. "Taxol: the Agony and the Ecstasy" Frank Warren National Organic Chemistry Conference, Mtunzini, Durban, South Africa, July 1997. (Plenary Speaker).
119. "Chemical and Biological Studies on Paclitaxel (Taxol®), The Agony and the Ecstasy" Gordon Research Conference on Organic Reactions and Processes, Henniker, NH, August 6-8, 1997.
120. "The Rainforest as Nature's Combinatorial Library", 214th ACS National Meeting, Las Vegas, September 7-11, 1997.

121. "Biodiversity Conservation and Drug Discovery: Explorations in Suriname's Tropical Rainforest" International Symposium on Antitumour Products from Higher Plants, Paris, France, January 10, 1998.
122. "Biodiversity Conservation and Drug Discovery: Explorations in Suriname's Tropical Rainforest" 215th ACS National Meeting, Dallas, TX, March 29-April 2, 1998.
123. "Biodiversity Conservation and Drug Discovery: Explorations in Suriname's Tropical Rainforest" 39th Annual Meeting of the American Society of Pharmacognosy, Orlando, FL, July 19-23, 1998.
124. "Biodiversity Conservation and Drug Discovery: Explorations in Suriname's Tropical Rainforest" First Workshop on Conservation and Sustainable Use of the plant Diversity from Cerrado and Atlantic Forest: Chemical Diversity and Prospecting for Drugs, Instituto de Quimica, UNESP, Araraquara, SP, Brazil, November 29-December 2, 1998.
125. "Biodiversity Conservation and Drug Discovery in Suriname's Tropical Rainforest" Plant Physiology Seminar, Virginia Polytechnic Institute and State University, February 18, 1999.
126. "From *Taxus* to Paclitaxel: Explorations on the Synthesis and Mechanism of Action of Taxol and its Analogs." Georgetown University, Washington, DC, March 10, 1999.
127. "From *Taxus* to Paclitaxel: Explorations on the Synthesis and Mechanism of Action of Taxol and its Analogs." University of Maryland, College Park, MD, March 11, 1999.
128. "From *Taxus* to Paclitaxel: Explorations on the Synthesis and Mechanism of Action of Taxol and its Analogs." (American Society of Pharmacognosy Research Achievement Award Lecture) 2000 Years of Natural Products Research-Past, Present, and Future-Joint Meeting of the ASP, AFERP, GA, and PSE, Amsterdam, The Netherlands, July 1999.
129. "Plant and Chemical Diversity in Suriname with Relevance to Biomedicine." XVI International Botanical Congress, St. Louis, August 1999.
130. "Combining Anticancer Drug Discovery with Biodiversity Conservation: the Suriname Experience." Fifth Anticancer Drug Discovery and Development Symposium, Detroit, MI, September 23-24, 1999.
131. "Studies on the Chemistry of Taxol and on the Structure of the Taxol-Tubulin Binding Site." Department of Chemistry, University of California at Santa Barbara, October 14, 1999.
132. "Studies on the Chemistry of Taxol and on the Structure of the Taxol-Tubulin Binding Site." College of Pharmacy, Oregon State University, October 18, 1999.
133. "Taxol; Chemistry and Mechanism of Action of an Exciting Anticancer Agent" Departments of Chemistry and Physics, University of North Carolina at Pembroke, Pembroke, NC, November 30, 1999.
134. "From *Taxus* to Taxol: Studies on the Chemistry and Mechanism of Action of a Major Anticancer Drug." Suter Science Seminar, Eastern Mennonite University, January 21, 2000.
135. "From *Taxus* to Taxol: Discovery, Chemistry, and Mechanism of Action of the World's Best Selling Anticancer Drug." Lexington Section, American Chemical Society, February 24, 2000.
136. "Studies on the Chemistry and Mechanism of Action of Taxol, the World's Best Selling Anticancer Drug." The George Washington University, March 17, 2000.
137. "Biodiversity Conservation and Drug Discovery in Suriname: Explorations in Nature's Combinatorial Library." 22nd IUPAC Symposium on the Chemistry of Natural Products, Sao Paulo, Brazil, September 2000.
138. "Drug Discovery from Nature: Practicalities, Politics, Procedures, and Products." SmithKline Beecham US Analytical Sciences Colloquium 2000, New Brunswick, NJ, October 24, 2000.
139. "Nature's Combinatorial Library as a Source of New Drug Leads." E. B. Hershberg Award Symposium, 221st American Chemical Society Meeting, San Diego, CA, April 2, 2001.

140. "Biodiversity Conservation And Drug Discovery In Madagascar: Explorations In Nature's Combinatorial Library." Workshop on "Exploring African Biodiversity for New Natural Products", Rome, Italy, April 9-10, 2001.
141. "From Yew to You: Studies on the World's Best Selling Anticancer Drug." Hatfield Lecture, Georgetown College, Georgetown, KY, April 30, 2001.
142. "Thinking God's Thoughts After Him: Drug Discovery in Suriname's Tropical Rainforest." Hatfield Lecture, Georgetown College, Georgetown, KY, May 1, 2001.
143. "Yew and Me: the Story of the World's Best-selling Anticancer Drug." Department of Chemistry, Western Maryland College, September 14, 2001.
144. "Science and Religion: Is There a Conflict?" Fifth Annual Humanities in Medicine Lectureship, College of Medicine, Texas A&M University, College Station, TX. November 1, 2001.
145. "Yew and Me: Studies on the Chemistry of Taxol, the World's Best-selling Anticancer Drug." Fifth Annual Humanities in Medicine Lectureship, College of Medicine, Texas A&M University, College Station, TX. November 1, 2001.
146. "Green Medicine: Drug Discovery and Biodiversity Conservation in Madagascar and Suriname." Fifth Annual Humanities in Medicine Lectureship, College of Medicine, Texas A&M University, College Station, TX. November 2, 2001.
147. "The Chemistry of Taxol, the World's Best-Selling Anticancer Drug" Mustafa Kemal University International Organic Chemistry Meeting, Antakya, Turkey. March 27, 2002.
148. "The Proposed Eisai Research Institute-Virginia Tech Madagascar International Cooperative Biodiversity Group" Lecture at Eisai Research Institute, Andover, MA, September 24, 2002.
149. "Biodiversity Conservation And Drug Discovery In Suriname: Explorations in Nature's Combinatorial Library." International Conference on the Chemistry of Natural Products, Karadeniz Technical University, Trabzon, Turkey, October 16, 2002.
150. "Aspects of The Chemistry of Taxol, the World's Best-Selling Anticancer Drug" Department of Chemistry, Istanbul Technical University, October 21, 2002.
151. "Biodiversity Conservation and Drug Discovery in Suriname: Explorations In Nature's Combinatorial Library." Faculty of Pharmacy, Istanbul University, October 22, 2002.
152. "Biodiversity Conservation and Drug Discovery In Suriname and Madagascar" Cancer Research Institute, Arizona State University, May 30, 2003.
153. "Studies on the Chemistry and Biology of Taxol." Cancer Research Institute, Arizona State University, May 30, 2003.
154. "Biodiversity Conservation and Drug Discovery in Madagascar and Suriname" l'Académie Nationale des Arts, des Lettres et des Sciences, Antananarivo, Madagascar, January 14, 2004.
155. "The Chemistry and Biology of Taxol." Department of Chemistry, Howard University, February 27, 2004.
156. "Biodiversity Conservation and Drug Discovery in Madagascar and Suriname; What is a Chemist Doing in the Rain Forest?" Biotechnology Program, University of Alabama in Huntsville, April 9, 2004.
157. "Recent Advances in the Chemistry of Taxol" Department of Chemistry, Istanbul Technical University, Istanbul, Turkey, May 28, 2004.
158. "Biodiversity Conservation and Drug Discovery in Madagascar and Suriname" Department of Chemistry, Istanbul Technical University, Istanbul, Turkey, May 28, 2004.
159. "The Shape of Things to Come: Taxol's Chemistry, Biology and Pharmacophore." Department of Chemistry, Michigan State University, October 27, 2004.
160. "Biodiversity Conservation and Drug Discovery in Madagascar and Suriname; What is a Chemist Doing in the Rain Forest?" Baylor University, Waco Texas, February 18, 2005.

161. "Successful Drug Discovery From Natural Products: Methods and Results" Plenary Lecture at the 11th Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Antananarivo, Madagascar, August 9th, 2005.
162. "The History and Chemistry of Taxol, A Major Anticancer Drug from *Taxus brevifolia*" Invited Lecture at the Fourth Medicinal Plant Symposium, Mountain State University, Beckley, WV, September 17th, 2005.
163. "The Shape Of Things To Come: Structural And Synthetic Studies Of Taxol And Related Compounds" Plenary Lecture at the Stony Brook Symposium on New Horizons in Organic Chemistry, September 29, 2005.
164. "Bioactive compounds from Madagascar: an example of the synergism of conservation and drug discovery". Invited Symposium Lecture, Pacificchem 2005, Honolulu, HI, December 18, 2005.
165. "Biodiversity Conservation and Drug Discovery in Madagascar and Suriname; What is a Chemist Doing in the Rain Forest?" Miller Lectureship, Greenville College, IL, March 23, 2006.
166. "Science and Religion: Is There a Conflict?" Miller Lectureship, Greenville College, IL, March 24, 2006.
167. "Nature: The Once and Future King of Drug Discovery" Department of Chemistry, University of Louisville, Louisville, KY, April 7, 2006.
168. "The Shape of Things to Come: Structural and Synthetic Studies of Taxol and Related Compounds" Faculty of Chemistry, SUNY College of Environmental Science and Forestry, Syracuse, NY, April 21, 2006.
169. "Marine Organisms as a Source of Bioactive Natural Products" Invited Plenary Lecture, International Seminar and Workshop on Marine Biodiversity and Their Potential for Developing Biopharmaceutical Industry in Indonesia, Jakarta, Indonesia, May 17, 2006.
170. "Biodiversity Conservation and Drug Discovery; Can They be Combined? The Suriname and Madagascar Experiences" Invited Plenary Lecture, International Seminar and Workshop on Marine Biodiversity and Their Potential for Developing Biopharmaceutical Industry in Indonesia, Jakarta, Indonesia, May 18, 2006.
171. "Methods for Successful Drug Discovery from Natural Products" Bogor Agricultural University (IPB), Bogor, Indonesia, May 19, 2006.
172. "The Shape of Things to Come: Structural and Synthetic Studies of Taxol and Related Compounds" Invited Plenary Lecture, Annual Meeting of the Phytochemical Society of North America, Oxford, MS, July 10, 2006.
173. "Natural Products as Sources for Drug Development: The Case of Paclitaxel (Taxol[®])" Missouri Botanical Garden (William Brown Award Symposium Honoring Gordon Cragg) Missouri Botanical Garden, November 2006.
174. "Biodiversity conservation and drug discovery: Can they be combined? The Suriname and Madagascar experiences." Invited Plenary Lecture at the Symposium "In the Service of Human Health: Continuing Search for New Plant-based Therapies", 48th Annual Meeting of the Society for Economic Botany, Lake Forest College, Lake Forest, IL, June 2007. (Lecture delivered by Dr. S. Cao)
175. "The Shape of Things to Come: Studies on Taxol and Other Tubulin Binders" Invited Plenary Lecture, 11th Institut de Chimie des Substances Naturelles Symposium, Gif-sur-Yvette, France, June 7 - 8, 2007.
176. "Biodiversity Conservation and Drug Discovery in Suriname and Madagascar." College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, May 6, 2007.
177. "The Shape of Things to Come: Studies on Taxol and Other Tubulin Binders" Invited Plenary Lecture, Annual Meeting of the American Society of Pharmacognosy, Portland, ME, July, 2007.
178. "The Shape of Things to Come: Studies of Taxol and the Epothilones" University of Maryland, College Park, MD, March 3, 2008.

179. "A Natural Love of Natural Products" Invited Guenther Award Lecture, 235th American Chemical Society National Meeting, New Orleans, LA, April 7, 2008.
180. "Combining Bioprospecting, Biodiversity Conservation, and Economic Development; a New Paradigm for Natural Products Based Drug Discovery" Invited Lecture, 235th American Chemical Society National Meeting, New Orleans, LA, April 7, 2008.
181. "Tubulin Interactive Natural Products as Anticancer Agents" Invited Lecture, American Association for Cancer Research Educational Program, Symposium on Natural Products in Anticancer Drug Discovery, San Diego, CA, April 12-16, 2008
182. "Chemical and Biological Diversity from the Rain Forest" Invited Plenary Lecture, 7th Joint Meeting of the American Society of Pharmacognosy with the AFERP, GA, PSE, and SIF, Athens, Greece, August 3-8, 2008.
183. "A Natural Love of Natural Products" Givaudan Corporation, October 31, 2008.
184. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Invited Plenary Lecture, Idea Network of Biomedical Research Excellence, University of Arkansas, Fayetteville, Arkansas, November 7, 2008.
185. "Studies of the Interaction of Taxol and Epothilone with Tubulin" Food and Drug Administration Office of Generic Drugs Education Committee Seminar Series, Rockville, MD, November 14, 2008.
186. "Biodiversity Conservation and Drug Discovery: Can they be Combined?" Invited Plenary Lecture, International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicines, National Institute for Pharmaceutical Education and Research, Chandigarh, India, November 17, 2008.
187. "Studies of the Interaction of Taxol and Epothilone with Tubulin" Indian Institute of Chemical Technology, Hyderabad, India, November 20, 2008.
188. "Natural Products as Tubulin Polymerization Agents: A Natural Fit" Hecht Symposium, University of Virginia, April 4, 2009.
189. "Designed Paclitaxels and Epothilones as Anticancer Drug Leads." Invited Lecture at the 100th Annual Meeting of the American Association for Cancer Research, Denver, CO, April 18-22, 2009.
190. "Modified Natural Products as Tubulin-Binding Anticancer Agents" Symposium on Natural Products and Biomedical Science, National Institutes of Health, Bethesda, MD, April 29, 2009.
191. "Natural Products as Tubulin Polymerization Agents: A Natural Fit" Department of Chemistry, Purdue University, September 1, 2009.
192. "Studies on the Chemistry and Biology of Taxol, a Major Anticancer Agent from an American Plant" International Organization for Chemical Sciences in Development (IOCD) Symposium, Vina del Mar, Chile, November 8-11, 2009.
193. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Science Today Lecture, SUNY Oswego, April 8, 2010.
194. "Taxol and Other Tubulin-Binding Anticancer Agents: The Shape of Things to Come" Augustine Silveira, Jr. Distinguished Lecture, SUNY Oswego, April 8, 2010.
195. "The Taxol-Tubulin Interaction: A Perfect Fit" Washington State University, September 17, 2010.
196. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Davidson College, September 24, 2010.
197. "The Madagascar ICBG" ICBG Network Meeting, Fogarty International Center, Bethesda, MD, October 6, 2010.
198. "Taxol and Other Tubulin-Binding Anticancer Agents: The Shape of Things to Come." Invited Plenary Lecture, International Conference on New Developments in Drug Discovery from Natural

Products and Traditional Medicines, National Institute for Pharmaceutical Education and Research, Chandigarh, India, November 20, 2010.

199. "Natural Products Drug Discovery: Challenges and Strategies in the Era of the Convention on Biological Diversity" Invited Lecture, 241st American Chemical Society National Meeting, Anaheim, CA, March 29, 2011.
200. "Conformationally Constrained and Nanoparticle Targeted Taxols" Invited Lecture, 27th IUPAC International Symposium on the Chemistry of Natural Products, Brisbane, Australia, July 14, 2011.
201. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Opening Plenary Lecture, 3rd. Brazilian Conference on Natural Products (3rd. BCNP), Ouro Preto, MG, Brazil, October 29, 2011.
202. "Adventures in the Chemistry and Biology of Taxol, a Famous Heterocyclic Natural Product." Plenary Lecture, FloHet Conference, University of Florida, March 5, 2012.
203. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product." Plenary Lecture, Chemistry Biology Interface Program, Ohio State University, May 15, 2012.
204. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Shanghai Institute of Materia Medica, September 10, 2012.
205. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product." Fudan University, September 11, 2012.
206. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product." University of Hawaii at Hilo, October 3, 2012.
207. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" University of Hawaii at Manoa, October 4, 2012.
208. "Chemistry, Drug Discovery, and Conservation: What is a Chemist Doing in the Rain Forest?" Western Carolina University, November 2, 2012.
209. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." The Stephen E. Straus Distinguished Lecture in the Science of Complementary Health Therapies, NCCAM, NIH, December 5, 2012.
210. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." Invited Lecture, Annual Meeting of the American Society of Pharmacognosy, St. Louis, MO, July, 2013.
211. "Adventures in the Chemistry and Tubulin Binding of Taxol, a Famous Anticancer Natural Product" Invited Lecture, Workshop on Chemistry and Biology of Microtubules and Antitubulin Agents, Beijing, China, Sept. 9-11, 2013
212. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." The Medicines from Nature 9th Annual Lecture, College of Pharmacy, University of Arkansas for Medical Sciences, October 25, 2013.
213. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product" University of Kansas, May 1, 2014.
214. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." Hawaii Cancer Center, May 13, 2014
215. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product" Hawaii Pacific University, May 14, 2014
216. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." Fusion Conference: Natural Products: A Celebration and a Resurrection with Reverse Pharmacology. Hilton Indian Lakes Resort, Chicago, July 7-10, 2014.
217. "Natural Products: Drugs and Medicines for all Reasons and all Seasons" Laboratory Employee Professional Development Network awards session, November 12, 2014.

218. "Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product" Oregon State University, December 4, 2014.
219. "Natural Products: Drugs and Medicines for All Reasons and All Seasons." Institute for Advanced Learning and Research, Danville, VA, February 10, 2015.
220. "Development of Taxol® as an Anticancer Drug" Symposium in Honor of Richard G. Powell, Annual Meeting of the American Society of Pharmacognosy, Copper Mountain, CO, July 27, 2015. *Planta Med.* **2015**, 81, IL30.
221. "Gold Nanoparticles for Drug Delivery of Paclitaxel and Doxorubicin" The American Society of Pharmacognosy. Hilton Portland, Portland, Oregon, July 29 – Aug 2, 2017.

I. Invited On-Campus Lectures

1. "Is Colon Cancer a Bacterial Disease? Studies on a Novel Fecal Mutagen," Biochemistry Club, VPI & SU, January, 1985.
2. "Studies with Taxol, an Important New Naturally Occurring Anti-cancer Drug", Department of Biochemistry and Nutrition, VPI & SU, February 24, 1992.
3. "Yew vs. Us: A View from the Trenches in the War Against Cancer", Department of Chemistry, VPI & SU, October 8, 1992.
4. "Taxol and Other Medicinals from the Plant World", 75th Annual Meeting of Virginia Academy of Science, VPI & SU, May 22, 1997.
5. "Biodiversity Conservation and Drug Discovery in Suriname's Tropical Rainforest" Botany Seminar, VPI & SU, October 9, 1998.
6. "Biodiversity Conservation and Drug Discovery in Suriname." Virginia Tech Alumni Association's 10th Annual Summer Around the Drillfield Program, June 24, 1999.
7. "The Search for Anticancer Compounds in the Plants of Suriname Using Genetically Engineered Yeast as a Bioassay." Biotechnology 2001 Conference, VPI & SU, Blacksburg, VA, June 25, 1999.
8. "Biodiversity Conservation And Drug Discovery In Suriname: Explorations In Nature's Genetic Library." Plant Metabolism Working Group, VPI & SU, December 4, 2001.
9. "Can Chemistry Help Save the Rain Forest? The Suriname and Madagascar Experiences." Sigma Xi Annual Meeting, VPI & SU, April 14, 2004.
10. "The Shape of Things to Come: Studies of the Taxol-Tubulin Interaction" Third Virginia Tech Structural Biology Symposium, March 28, 2008.
11. "The Faith of a Scientist in the Rain Forest" Friday GLC Seminar Series, April 25, 2008.
12. "Taxol: An Important Tubulin-Interactive Drug" Biochemistry Club, VPI & SU, October 2, 2008.
13. "Biodiversity Conservation and Drug Discovery: Can they be Combined?" Virginia Tech American Cancer Society Relay for Life Meeting, January 27, 2009.
14. "Drug Discovery from Nature: Why, Where, and How" Blacksburg Café Scientifique, April 7, 2009.
15. "Natural Products as Tubulin Polymerization Agents: A Natural Fit" Highlands Seminar, Department of Chemistry, Virginia Polytechnic Institute and State University, December 4, 2009.
16. "Gold Nanoparticle Based Drug Delivery for Paclitaxel (Taxol™)" Cancer Research Scholars at Virginia Tech Research Symposium, April 29, 2011.
17. "Natural Products in Drug Discovery" in Dr. Greg Welbaum's class Hort 4764 "Medicinal Plants and Herbs." September 28, 2011.

VII. RESEARCH ACTIVITIES

A. Research Grants and Contracts

1. "The Synthesis of \pm -Juniperol," Research Corporation, 1966-1968, \$3,200.
2. "Reactions of Diol Monosulfonates," Petroleum Research Fund, Grant 1010-C, 1966-1968, \$5,000.
3. "Studies in Organic Mass Spectrometry," Research Foundation of SUNY, 1970-1971, \$1,600.
4. "Funds for the Purchase of a Mass Spectrometer," National Science Foundation, 1967, \$25,000 (Departmental Proposal, prepared by D. G. I. Kingston).
5. "Plant Tumor Inhibitors," National Institutes of Health.
1971-1974 CA 12831-01/03 \$77,760
6. "Proposal for a Gas Chromatography-Mass Spectrometer-Computer System." Virginia Agricultural Foundation, 1974, \$25,000 (Biochemistry Department proposal with D. G. I. Kingston as one of four collaborators).
7. "Metabolites of *Aspergillus versicolor*," Food and Drug Administration, (Joint with Dr. J. R. Vercellotti).
1974-1976 Contract 223-74-2146 \$87,921
8. "Plant Tumor Inhibitors," National Institutes of Health. Funding approved for a further 3-year period.
1975-1977 CA 12831-04/06 \$110,676
9. "Plant Tumor Inhibitors," National Institutes of Health. Funding approved for a further 3-year period.
1978-1980 CA 12831-07/09 \$152,292
10. "Research Fellowship for Dr. O. Ekundayo," National Institutes of Health, Fogarty International Center.
1979 FO5 TWO2594-01 \$19,810
11. "Biosynthesis of Virginiamycin M₁," Smith Kline Animal Health Products.
1979-1987 \$ 82,000
12. "Biosynthesis of Antibiotic A2315A," Lilly Research Laboratories, Eli Lilly and Company,
1980-1981. \$ 5,515
13. "Relationships of Fecal Mutagens to Colon Cancer," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts below represent only the chemistry portion.)
1981-1984 CA 23857-04/06 \$128,980
14. "Biosynthetic Studies on Antibiotics of the Virginiamycin Family," National Science Foundation Grant No. PCM-89111508.
1982-1985. PCM-89111508. \$102,695
15. "Research Fellowship for Dr. S. M. Hussein Ayoub," National Institutes of Health, Fogarty International Center.
1982-83 05 TWO3037 \$27,300
16. "Modified Taxols as Anticancer Agents," American Cancer Society.
1983-1988 CH268 \$231,714

17. "Symposium on Natural Products," American Chemical Society Petroleum Research Fund, Grant No. 14967-SE
March 1983 \$850
18. "Relationship of Fecal Mutagens to Colon Cancer," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts below represent only the chemistry portion.)
1984-1987 CA 23857-07/09 \$339,698
19. "Investigations of Lower Plants with Potential Anticancer Activity," Biomedical Research Support Grant, VPI and SU
1984-85 \$ 2,619
20. "Anerobic Metabolism of Mutagens in Human Foods," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts shown below represent only the chemistry portion.)
1985-1988 CA 40821-01/03 \$210,609
21. "Travel Grant to Attend the IUPAC Symposium in Shanghai," National Science Foundation and Virginia Tech Education Foundation. \$ 2,500
22. "Lignan Biosynthesis and Enzymology," U.S. Department of Agriculture. (Joint with Dr. N. G. Lewis: amounts below represent only the chemistry portion.)
1986-88 86-FSTY-9-0188 \$47,010
23. "McNamara Fellowship to Miss Liu Xin," World Bank.
1986-87 \$20,000
24. "Relationships of Fecal Mutagens to Colon Cancer," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts shown represent only the chemistry portion.)
1987-1990 CA 23857-10/12 \$257,588
25. "Anaerobic Metabolism of Mutagens in Human Foods," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts shown below represent only the chemistry portion). Funded 1988-1991, extended to 1992.
1988-1992 CA 40821-04/06 \$415,539
26. "Lignan Biosynthesis and Enzymology," U.S. Department of Agriculture. (Joint with Dr. N. G. Lewis: amounts below represent only the chemistry portion.)
1988-90 88-33521-4082 \$55,601
27. "Purchase of a Low Temperature Freezer," NIH Small Instrumentation Grant (Joint with N. Castagnoli).
1989 \$5,211
28. "Isolation of Novel Mechanism-Based Antitumor Agents," University of Virginia (Subproject of a National Cooperative Drug Discovery Group funded by NIH). Funded 1989-1994.
1989-1994 CA 40771-01/05 \$850,428
29. "Relationships of Fecal Mutagens to Colon Cancer," National Institutes of Health. (Joint with Dr. T. D. Wilkins: amounts shown represent only the chemistry portion). Funded 1990-1993.
1990-1993 CA 23857-13/15 \$236,803
30. "Photoaffinity Labeling of Tubulin by Taxol," National Institutes of Health. Funded 1990-1993.
1990-1993 CA 48974-01/03 \$265,267
31. "Taxol Analogs as Anticancer Agents," Bristol-Myers Squibb Company. Funded 1991-1993.
1991-1993 not assigned \$260,684

32. "Enhancement of Taxol's Anticancer Activity and Supply," National Institutes of Health. Funded 1991-1995.
1991-1995 CA 55131-01/04 \$886,229
33. "Biodiversity Utilization-Conservation, Tropical America," National Institutes of Health. Funded 1993-1998.
1993-1998 TW/CA00313-01/05 \$2,594,479
34. "Taxol Analogs as Anticancer Agents", Bristol-Myers Squibb Company. Funding renewed for 1994-1996.
1994-98 not assigned \$416,300
35. "Isolation of Bioactive Constituents of *Pseudomonas* sp," Dominion Biosciences
1994-1995 not assigned \$ 20,966
36. Isolation of Novel Mechanism-Based Antitumor Agents," University of Virginia (Subproject of a National Cooperative Drug Discovery Group funded by NIH). Funded 1995-2000.
1995-2000 CA40771-06/10 \$878,281
37. "Studies of the Paclitaxel-Tubulin Interaction" National Institutes of Health; joint project with Dr. S. B. Hastie, SUNY Binghamton. Funded 1996-2000.
1996-2000 CA69571-01/04 \$898,000
38. "Biodiversity Utilization in Madagascar and Suriname," National Institutes of Health. Funded 1998-2003.
1998-2003 TW00313-06/10 \$3,467,881 (VPISU \$1,292,116)
39. "Mass Spectrometer Gift", Bristol-Myers Squibb Pharmaceutical Research Institute, Spring 1999.
1999 JEOL HX110 ca. \$600,000
40. "Studies of the Paclitaxel-Tubulin Interaction" National Institutes of Health; joint project with Dr. S. B. Hastie, SUNY Binghamton. Competitive renewal funded 2000-2004.
2000-2004 CA69671-05/08 \$1,062,115 (VPISU \$534,311)
41. "Isolation of Novel Mechanism-Based Antitumor Agents," University of Virginia (Subproject of a National Cooperative Drug Discovery Group funded by NIH). Funded 2000-2005; VPISU portion of award shown.
2000-2005 CA40771-11/15 \$1,115,117
42. "Biodiversity Conservation & Drug Discovery in Madagascar," National Institutes of Health. Competitive award funded 2003-2008.
2003-2008 TW00313-11/15 \$3,562,099 (VPISU \$2,028,247)
43. "Studies of Tubulin-Interactive Anticancer Drugs" National Institutes of Health; joint project with Dr. S. B. Hastie, SUNY Binghamton, and Dr. J. Snyder, Emory University. Competitive renewal funded 2004-2009.
2004-2009 CA69671-09/13 \$1,550,832 (VPISU \$791,792)
44. "Targeted Analogs for Prostate Cancer Treatment" U.S.Army Medical Research and Material Command.
2005-2006 W81XWH-0510623 \$113,250

45. "Synthesis of Thiolated Paclitaxel Analogs for Binding to Gold Nanoparticles" CytImmune Sciences, Inc.
2006-2008 Subcontract to 5R43CA119399 \$160,000
46. "Acquisition of a 600 MHz Nuclear Magnetic Resonance (NMR) Spectrometer at Virginia Tech." National Science Foundation, Sungsool Wi, P.I. and ten other co-PIs.
2006-2007 CHE-0619382 \$770,800
47. "Acquisition of an LC-ESI-MS for Open-Access Use in Support of Chemical Synthesis and Education at Virginia Tech". National Science Foundation, Paul Deck, P.I. and twelve other co-PIs.
2007-2008 \$235,248
48. "Biodiversity Conservation & Drug Discovery in Madagascar," National Institutes of Health. Competitive award funded 2008-2013.
2008-09 TW00313-16 \$599,386 (VPISU \$358,688)
2009-10 TW00313-17 \$600,655 (VPISU \$367,535)
2009-11 TW00313-17S1 \$232,400 (VPISU \$0)
2010-11 TW00313-18 \$579,810 (VPISU \$349,990)
2011-12 TW00313-19 \$579,809 (VPISU \$355,282)
2012-13 TW00313-20 \$574,810 (VPISU \$350,301)
2013-14 TW00313-20S \$186,500 (VPISU \$84,560)
49. "Biodiversity Conservation & Drug Discovery in Madagascar," U.S. Department of Agriculture, CSREES. Competitive award funded 2008-2013.
2008-13 2008-35621-04732 \$1,250,000 (VPISU \$134,262)
50. "Development and Pilot Manufacturing for Multifunctional Tumor Targeting Nanomedicine" CytImmune Sciences Inc.
2009-2010 \$58,942.
51. "Evaluation of the IVHR/NPDI Plant Extract Collection"
2011-2012 TW000313-19S1 \$314,510 (VPISU \$242,510)
52. "Synthesis of Modified SMAC Mimetics." Subcontract from CytImmune Inc.
2012-2013 13-1157-11 \$120,000
53. "Identification of Natural Products to Treat Neoplastic Disease" Subcontract from Progenra Inc. under NIH SBIR award 1 R43 CA165342-01A1
2013-2014 Subcontract \$85,000
54. "Discovery and Mechanism of Antimalarial Natural Products" National Institutes of Health; joint project with Dr B. Cassera (VT Biochemistry) and Dr. M. Goetz (Natural Products Discovery Institute) Funded 2014-2019.
2014-2015 1 R01 AT008088-01 \$436,606
2015-2016 1 R01 AT008088-02 \$398,685
56. "A Nanotechnology Approach to Overcome the Barriers of Cancer Drug Delivery" Virginia Tech Institute for Critical Technology and Applied Science; joint project with Dr. M. Ehrich (Virginia-Maryland Regional College of Veterinary Medicine) and Richard Davis (VT Engineering)
2015-2016 No award number \$60,000

B. Theses and Dissertations Supervised

a. *Masters Theses*

1. M. M. Mangino, M.S. Degree, "Cytotoxic Alkaloids from *Tabernaemontana johnstonii*," May 1974.
2. B. B. Gerhart, M.S. Degree, "Natural and Synthetic Bis-indole Alkaloids as Cytotoxic Agents," May, 1976.
3. B. R. Simperts, M.S. Degree, "Constituents of *Ipomoea pes-caprae*," November, 1976.
4. D. A. Cairnes, M.S. Degree, "Isolation of Anticancer Constituents from *Juniperus phoenicea* and *Austrocedrus chilensis*," June, 1979.
5. M. X. Kolpak, M.S. Degree, "Biosynthesis of Virginiamycin M₁," July, 1981.
6. A. A. Molinero, M.S. Degree, "The Biosynthesis of Virginiamycin S₁," August, 1982.
7. C.-H. O. Huang, M.S. Degree, "Isolation and Structure Elucidation of New Taxanes from *Taxus brevifolia*," August, 1985.
8. V. L. Jones, M.S. Degree, "Synthesis of Labeled 3-Hydroxyproline and Biosynthesis of the Dehydroproline Moiety of Virginiamycin M₁," May, 1988.
9. Z.-Y. Zhao, M.S. Degree, "Studies on Water-Soluble Taxol Derivatives," August, 1988.
10. R. F. Keyes, M.S. Degree, "The Biosynthesis of Ravidomycin," March, 1989.
11. A. J. Pullockaran, M.S. Degree, "Synthesis of Labelled Precursors of Podophyllotoxin," April, 1989.
12. V. R. Cadorette, M.S. Degree "Chemical Investigation of *Dicranum fulvum* for Anticancer Activity," August, 1989, V.P.I. & S.U.
13. K. A. Neidigh, M.S. Degree, "Studies on the Biosynthesis of Podophyllotoxin", February, 1992.
14. Ru Chen, M.S. Degree, "Isolation, Structure Elucidation, and Approaches to the Partial Synthesis of New Taxol Analogs", July 1994.
15. Erkan Baloglu, M.S. Degree, "A New Synthesis of Taxol from Baccatin III", August 1998.
16. William J. Lennox, M.S. Degree, "Isolation, Characterization, and Molecular Modeling Studies on Diterpenes from Marine Organisms within the Genus *Eunicea*" May 1999.
17. Thitiya Pung, M.S. Degree, "The Isolation of Natural Products from Plant Extracts" June 2000.
18. Russell Williams, M. S. Degree, "Isolation and Structure Elucidation of Cytotoxic Natural Products from Suriname and Madagascar" September 2002.
19. Rebecca Guza, M. S. Degree, "Isolation of Natural Products from *Casearia nigrescens*." June 2004.
20. Selenga Ranawaka, M. S. Degree, "Studies on the Chemistry of Taxol". Left without receiving a degree.
21. Sampada Karkare, M. S. Degree "Isolation and Structure Elucidation of Antiproliferative Agents From Madagascar Rainforests," August 2007.
22. Mathis Hodge, M. S. Degree, "Synthesis and Antiproliferative Activity of C3' and B-ring Modified Paclitaxel Analogs", December 2007.
23. Michael Swift, Entered Fall 2005, M.S. Degree, "Synthetic Studies of Epothilone Analogs." Left without receiving a degree to enter medical school.
24. Zhibing (Alex) Xu, M.S. Degree, "Synthesis of Paclitaxel Analogs", September 2010.
25. Amrapali Dengada, Entered Fall 2010, M.S. Degree, "Isolation and Structural Elucidation of Compounds from Natural Products" April 2014.

b. *Doctoral Dissertations*

1. H. P. Tannenbaum, Ph.D. Degree, "Selected Studies of Electron-Impact Rearrangements," September, 1972, (SUNY, Albany).
2. J. D. Henion, Ph.D. Degree, "Studies of Mass Spectrometric Rearrangements," September, 1972, (SUNY, Albany).
3. T. D. Spittler, Ph.D. Degree, "Organic Constituents of *Fluorensia cernua*," February, 1974, (SUNY, Albany).
4. B. T. Li, Ph.D. Degree, "Isolation and Identification of Indole Alkaloids from *Tabernaemontana holstii*," November, 1975.
5. P. N. Chen, Ph.D. degree, "Metabolites of *Aspergillus versicolor*," June, 1977.
6. J. W. LeFevre, Ph.D. degree, "Biosynthesis of Antibiotics of the Virginiamycin Family," August, 1984.
7. N. F. Magri, Ph.D. degree, "Modified Taxols as Anticancer Agents," August, 1985.
8. C. Jitrangsi, Ph.D. Degree, "Approaches to the Synthesis of Modified Taxols," August, 1986, V.P.I. and S. U.
9. J. W. Reed, Ph.D. Degree, "Studies in the Biosynthesis of Virginiamycin S₁," February, 1988.
10. M. B. Purvis, Ph.D. degree, "Stereochemical Aspects of Virginiamycin Biosynthesis. Biosynthesis of Antibiotic A33853," March, 1989.
11. T. Piccariello, Ph.D. Degree, "Studies Relating to Fecapentaene-12" April, 1989.
12. S. G. S. Samaranyake, Ph.D. Degree, "Studies on the Chemistry of Taxol," June 1990.
13. R. F. Keyes, Ph.D. Degree, "Structure Elucidation and Studies Relating to the Synthesis of Plasmalopentaene-12", December, 1992.
14. J. M. Rimoldi, Ph.D. Degree, "Investigations of the Chemistry of Taxol", October 5, 1993.
15. C. Heltzel, Ph.D. Degree, "Structural and Synthetic Studies of Bioactive Natural Products", October 25, 1993.
16. A. A. Molinero, Ph. D. Degree, "The Chemistry of Cephalomannine", June 1995, V. P. I. and S. U.
17. X. Liang, Ph. D. Degree, "Studies of Paclitaxel Analogues Modified in Ring C", March 1996.
18. K. Neidigh, Ph. D. Degree, "Chemical Studies of the C-4 Position of Baccatin III and Taxol", December 1996.
26. H. Yuan, Ph. D. Degree, "Studies on the Chemistry of Paclitaxel", August 1998.
27. C. Wu, Ph. D. Degree, "Structural and Synthetic Studies of Potential Antitumor Natural Products", August 1998.
28. E. Baloglu, Ph. D. Degree, "Synthesis and Biological Evaluation of Paclitaxel Analogs", May 2001.
29. John M. Berger, Ph. D. Degree, "Isolation, Characterization, and Synthesis of Bioactive Natural Products from Rainforest Flora", July 2001.
30. Belhu Metaferia, Ph. D. Degree, "Synthesis of Taxol™ Analogs as Conformational Probes", July 2002.
31. Changhui Liu, Ph. D. Degree, "Syntheses and Bioactivities of Targeted and Conformationally Constrained Taxol Analogs" May 2004.
32. Shoubin Tang, Ph. D. Degree, "Structural and Synthetic Studies of Bioactive Natural Products" December 2005.

33. Russell Williams, Ph. D. Degree, "Searching for Anticancer Natural Products from the Rainforest Plants of Suriname and Madagascar" November 2005.
34. Eba Adou, Ph. D. Degree, "I. Isolation and Characterization of Bioactive Compounds from Suriname and Madagascar Flora. II. Synthetic Approach to Lucilactaene." November 2005.
35. Brent Yoder, Ph. D. Degree, "Isolation and Structure Elucidation of Cytotoxic Natural Products from the Rainforests of Madagascar and Suriname" November 2005.
36. Jason Clement, Ph. D. Degree, "Studies of Bioactive Natural Products and Mechanism-Based Bioassays" December 2005.
37. Sujan Shekawat, Entered Fall 2003, Ph. D. Degree, "Synthesis of Model Taxanes and Epothilones". Left for personal reasons to pursue a Ph.D. at the University of Arizona, December 2005.
38. Brian Murphy, Entered Fall 2003, Ph. D. Degree, "Isolation and Structure Elucidation of Antiproliferative Natural Products From Madagascar" December 2007.
39. Chao Yang, Entered Fall 2002, Ph. D. Degree, "Syntheses and Bioactivities of Targeted and Conformationally Restrained Paclitaxel and Discodermolide Analogs" August 2008.
40. Yanpeng Hou, Entered Fall 2003, Ph. D. Degree, "Antiproliferative Natural Products from the Madagascar Rainforest", December 2009.
41. Jun Qi, Entered Fall 2003, Ph. D. Degree, "Design, Syntheses and Bioactivities of Androgen Receptor Targeted Taxane Analogs, Simplified Fluorescently Labeled Discodermolide Analogs, and Conformationally Constrained Discodermolide Analogs" May 2010.
42. Ende Pan, Entered Spring 2005, Ph. D. Degree, "Searching for Anticancer Agents and Antimalarial Agents from Madagascar" December 2010.
43. Jieli Zhao, Entered Fall 2005, Ph.D. Degree, "Design, Syntheses and Biological Activities of Paclitaxel Analogs" February 2011.
44. Yumin Dai, Entered Spring 2010, Ph.D. Degree, "Studies on Bioactive Constituents of Extracts from Madagascar" December 2013.
45. Yixi Liu, Entered Fall 2009, Ph.D. Degree, "Isolation and Structure Elucidation of Anticancer and Antimalarial Natural Products" May 2015.
46. Alex Eaton, Entered Fall 2010, Ph.D. Degree, "Isolation and Synthesis of Bioactive Compounds from Plants" September 2015
47. Chris Presley, Entered Fall 2011, Ph.D. Degree, "Studies on Bioactive Constituents of Extracts from Madagascar" In progress.
48. Qingxi Su, Entered Fall 2011, Ph.D. Degree, "Studies on Bioactive Constituents of Extracts from Madagascar" In progress.
49. Long Xia, Entered Fall 2012, Ph.D. Degree, "Drug Targeting with Gold Nanoparticles".
50. Ming Wang, Entered Fall 2013, Ph.D. Degree, "Studies on Bioactive Constituents of Extracts from Madagascar" In progress.
51. Yongle Du, Entered Fall 2013, Ph.D. Degree, "Synbthesis of Antinflammatory Natural Products" In progress.

C. Post Doctorates Supervised:

1. Dr. R. H. Pfeiffer, July-August 1967 and 1968
2. Dr. M. M. Rao, September 1967-August 1968
3. Dr. F. Ionescu, September 1976-1976
4. Dr. S. M. Sami, November 1976-September 1977
5. Dr. R. Munjal, December 1976-September 1977
6. Dr. M. V. Zucker, January 1978-June 1978

7. Dr. M. M. Rao, September 1978-August 1980
8. Dr. I. Borup, November 1979-July 1981
9. Dr. N. Hirai, November 1981-March 1983
10. Dr. A. A. Leslie Gunatilaka, May 1983-April 1984
11. Dr. S. V. Govindan, July 1984-December 1985
12. Dr. M. V. Kassae, July 1985-August 1986
13. Dr. M. Bashir, December 1985-October 1989
14. Dr. C.-Y. Duh, September 1986-August 1987
15. Dr. A. A. Leslie Gunatilaka, March 1989-December 1996
16. Dr. Y. Z. Shu, May 1989-August 1991
17. Mr. Jingyu Liang, February 1990-September 1992
18. Dr. George Harrigan, September 1990-September 1993
19. Dr. Ashok Chaudhary, October 1991-January 1994
20. Dr. Milind Gharpure, December 1991-November 1993
21. Dr. Mahendra Chordia, October 1992-April 1996
22. Dr. Qing-Ming Che, July 1993-January 1995
23. Dr. Paul I. Higgs, July 1994-January 1996
24. Dr. Bing-Nan Zhou, September 1994-2002.
25. Dr. Kit Lee, February 1996-February 1998
26. Dr. Maged Abdel-Kader, March 1996-August 1999
27. Dr. Prakash Jagtap, July 1996-June 1999
28. Dr. Lakshman Samala, September 1996-September 1998
29. Dr. Shu-Wei Yang, September 1997-September 1998
30. Dr. Frank Ramdayal, December 1997-December 1998
31. Dr. Supada R. Rojatkar, August 1998-July 1999
32. Dr. Sarala Balachandran, July 1999- December 2000
33. Dr. John Beck, July 1999 – June 2000.
34. Dr. Youngwan Seo, September 1999- August 2000
35. Dr. RamVishwakarma, August 2000- November 2000
36. Dr. Biswanath Das, December 2000- December 2001
37. Dr. Sai Prakash Chaturvedula, January 2001 – September 2004
38. Dr. Radha Krishna Palakodety, February 2001- January 2002
39. Dr. Thota Ganesh, January 2002 – December 2005
40. Dr. Afgan Farooq, July 2002- September 2003.
41. Dr. Shugeng Cao, July 2003 – November 2008.
42. Dr. Qiao-Hong Chen, July 2006-June 2009.
43. Dr. Liva Harinantenaina Rakotondraibe, April 2009 – 2013.
44. Dr. Abdul Latif, February 2015 - present

D. Visiting Scholars

1. Dr. O. Ekundayo, Fogarty International Fellow from the University of Ibadan, Nigeria, February 1979-January 1980.
2. Dr. S. M. Hussein Ayoub, Fogarty International Research Fellow from the University of Khartoum, Sudan, September 1982-August 1983.
3. Ms. Liu Xin, McNamara Fellow from the Institute of Materia Medica, Beijing, August 1986-July 1987.
4. Dr. Habib-ur-Rehman, Research Fellow from the University Grants Commission, Pakistan, November 1989-September 1990.
5. Mr. Jingyu-Liang, Research Fellow, China Pharmaceutical University, February 1990-January 1991.
6. Dr. Asfaq Ahmad, Pakistan Participant Trainee of the U.S.A.I.D., November 1990-August 1991.
7. Dr. Ermias Dagne, Fulbright Scholar from Addis Ababa University, Ethiopia, May-September 1991.
8. Dr. J. W. LeFevre, Sabbatical leave visitor from SUNY, Oswego, August 1992-July 1993.

9. Ms. L. M. M. Valente, CNPq Fellow from the Universidade Federal do Rio de Janeiro, Brazil, November 1991-May 1993.
10. Dr. Edilberto R. Silveira, CNPq Fellow from the Universidade Federal do Ceara, Brazil, October 1992-November 1993
11. Dr. Vanderlan da Silva Bolzani, CNPq Fellow from Universidade Estadual Paulista, Brazil, December 1992-June 1994.
12. Dr. Youn Chul Kim, Won-Kwang University, Korea, January 1994-January 1996.
13. Dr. William Phillips, University of Ghana, November 1994-October 1995.
14. Ms. Claudia Brochini, Universidade de Sao Paulo, Brazil, August 1995-July 1996.
15. Dr. Maria Helene Saragiotto, Universidade Estadual de Maringa, Brazil, November 1995-1997.
16. Dr. Gerry Hammond, Department of Chemistry, University of Massachusetts, Boston, January – June, 1997.
17. Dr. Mario Geraldo de Carvalho, Universidade Federal Rural do Rio de Janeiro, Brazil, December 1996-1997.
18. Dr. Sianne Schwikkard, Durban University, Republic of South Africa, August 1998-February 1999.
19. Mr. Bekir Karliga, Istanbul Technical University, 1997.
20. Dr. Gulacti Topçu, University of Istanbul, August-November, 2001.
21. Ms. Asli Barla Oztekin, University of Istanbul, July-October, 2002.
22. Dr. Edith Ajaiyeoba, University of Ibadan, Nigeria, October 2002-April 2003; Fulbright Scholar.
23. Ms. Lalasoa Ranarivelo, CNARP, Madagascar, January-August, 2003.
24. Mr. Mohamed Radwan, University of Alexandria, Egypt, July 2002-June 2004.
25. Dr. Vincent Rasamison, CNARP, Madagascar, June-August, 2006.
26. Dr. Patricia Onocha, University of Ibadan, Nigeria, October 2006-December 2007; Fulbright Scholar
27. Dr. Jamila El-Turbi, Jamila, Tripoli University, June – August 2013.
28. Dr Youngwan Seo, February 2015 – January 2016.

E. Laboratory Technicians

1. Nina Baj 12/1/89 – 7/31/96
2. Brian Bahler 8/1/96 – 4/30/98
3. Jessica Sharp 5/4/98 – 7/14/99
4. Jeannine Hoch 6/28/99 – 7/20/01
5. Jennifer Schilling 6/25/01 - 8/1/03
6. Andrew Norris 12/15/03 – 6/15/05
7. Peggy Brodie 7/1/05 – 6/30/14

EXECUTIVE SUMMARY

AWARDS AND HONORS

- Research Achievement Award, American Society of Pharmacognosy, 1999.
- Gene Wise Award, Blue Ridge Section, American Chemical Society, 1999.
- Virginia Scientist of the Year Award, 2002
- VT Alumni Association Award for Excellence in International Outreach and Research, 2004-2005.
- Editorial Board member of several scientific publications.
- Research Associate, Missouri Botanical Garden.
- Cook Award for Research, Department of Chemistry, Virginia Tech, 2004.
- American Chemical Society Ernest Guenther Award for the Chemistry of Natural Products, 2008.
- Special birthday issue of the *Journal of Natural Products*, March 2009.

- Name given to the plants *Cordia kingstoniana* and *Taxus kingstonii*.
- Selection as a “Highly Cited Researcher” in the field of Agricultural Science by ISI Highly Cited.com.

RESEARCH ACCOMPLISHMENTS

- Over \$26,000,000 in external funding (over \$17,000,000 to work at VT)
- 371 original refereed research publications.
- One edited book (2 editions) and 36 invited chapters in books and journals.
- 17 U.S. Patents issued (2 licensed).
- Over 9000 citations of work in other publications (h-index 48)
- 212 invited lectures at National and International Meetings, Universities, and Companies.
- 314 Contributed Presentations at National and International Meetings.
- 27 International visiting scholars have worked in the Kingston group.
- Program Leader of International Cooperative Biodiversity Group in Madagascar.
- Consultant to industry and an expert witness in various legal and patent cases.

TEACHING ACCOMPLISHMENTS

- Consistently taught large undergraduate classes as well as graduate classes.
- Student Evaluations of teaching average over 3.5 on a 4.0 scale, 1981-2011.
- Student Evaluations of teaching average over 5.4 on a 6.0 scale, 2012-present.
- Graduated 25 MS students and 45 Ph.D. students.
- Five former Ph.D. graduate students on the faculties of U.S. universities.

SERVICE ACCOMPLISHMENTS

- President, American Society of Pharmacognosy, 1988-1989.
- Associate Editor, Journal of Natural Products, 1983-98.
- Book Review Editor, Journal of Natural Products, 1979-2002
- Panel member of Committee to review the Developmental Therapeutics Program, NCI.
- Member of NIH Bioorganic and Natural Products Chemistry Study Section.
- Work profiled in several articles in Virginia Tech publications and in TV advertisements designed to raise public awareness of the importance of research at Virginia Tech.
- Service on various University-level Committees, including the Faculty Senate, the University Council, and the Boards of Directors of the Waste Policy Institute and of VTIP.
- Board of Scientific Counselors, NIH National Center for Complementary and Alternative Medicine, 2009-2010.
- Board of Scientific Advisors, NIH National Center for Complementary and Alternative Medicine, 2010-2014.
- 50-Year Member, American Chemical Society

VIII. SERVICE

A. Public Service

Member of N.I.H. Biomedical Fellowships Review Group D, 1980-1984.

Consultant for the National Cancer Institute, 1978, 1980, 1981

Member of *Ad hoc* Study Section, National Institutes of Health, July 1982; February 1984; March 1986; July 1986; December 1986; April 1987; August 1989, September 1990.

Participant in National Cancer Institute Workshop on Mutagens in Human Foods, April 1983.

Project Site Visit, National Cancer Institute, February 1987.

Member, Developmental Therapeutics Contracts Review Committee, National Cancer Institute, 1987-1989.

Ad hoc Member, Bioorganic and Natural Products Study Section, NIH, October, 1988, October 1991

Chairman, Medicinal Chemistry AHR-MI Study Section, NIH, December 1988.

Chairman, Developmental Therapeutics Contracts Review Committee, National Cancer Institute, 1989-1991.

Project Site Visit, National Institutes of Health, University of Puerto Rico, March 1991.

Medicinal Chemistry AHR-MI Study Section, NIH, December 1991.

Member of review team for the Natural Products Institute, University of Georgia, February 1992.

Member of NIH Special Review Committee to review proposals for National Cooperative Drug Discovery Groups for the Treatment of HIV, March 10-13, 1992.

Member, American Cancer Society Advisory Committee on Drug Development, Hematology and Pathology, Atlanta, GA, January 14-15, 1993.

Member, National Cancer Institute Multidisciplinary Special Emphasis Review Panel, June 14-15, 1993.

Member, National Cancer Institute Special Review Committee for Outstanding Investigator Grants, November 1, 1993.

Member, NIH Medicinal Chemistry Study Section, August 12, 1994.

Member, National Cancer Institute Multidisciplinary Special Emphasis Review Panel, March 12-14, 1995.

Invited Participant, Society for Neuroscience Satellite Symposium on the National Institute of Mental Health Psychotherapeutic Drug Discovery and Development Program, San Diego, November 11, 1995.

Chair, NIH Chemistry and Related Sciences Special Emphasis Review Panel, December 12, 1995.

Member of the Developmental Therapeutics Program Review Group, NIH, 1997-98. This committee was charged with the task of making recommendations to the director of the National Cancer Institute for possible changes in the Developmental Therapeutics Program at NCI.

Member, NIH Scientific Review Panel August 18, 1999.

Member, National Cancer Institute Review Group for SBIR and STTR Grant Proposals, January 6-7, 2000.

Member, NIH Bioorganic and Natural Products Chemistry Study Section, July 2000-June 2004.

Member, Scientific Advisory Council, International Foundation for Anticancer Drug Discovery, 2003-2005.

Member, NCCAM Board of Scientific Counselors, 2009-2010.

Member, Biological Chemistry and Macromolecular Biophysics Integrated Review Group, June 2009.

Member, NIH Review Panel for the Natural Products Roadmap Initiative, November 16-17, 2009

Member, NIH Special Emphasis Review Panel, Pilot-Scale Libraries for High Throughput Screening, March 15, 2010.

Member, NCCAM Board of Scientific Advisors, 2010-2014.

Member, ODS-NCCAM Expert Panel on Botanical Research Centers, Rockville, MD, April 29, 2013.

Member, External Advisory Committee, Hawaii INBRE Program.

B. University Service

University Committees

High Hazard Biological Research Committee, 1978-1979

Ad Hoc Purchasing Advisory Committee, 1979-1980

Commission on Research, 1985-1988

Biomedical Research Support Grant Committee, 1986-1990

Alternate Senator, Faculty Senate, 1987-1988

Scholarship and Student Aid Committee, 1987-1990

Senator, Faculty Senate, 1988-1991

Faculty Senate Committee on Committees, 1988-1991

University Council, 1988-1991

Provost Search Committee, 1988-1989

University Building Committee, 1989-1992

Associate Provost for Research Search Committee, 1989-1990

Intellectual Properties Committee, 1992-1994

Department Head Evaluation Committee, College of Agriculture, 1992

Dean of the Graduate School Search Committee Member, 2001-2002.

Biomedical Advisory Committee Member, 2001-2002.

Faculty Advisor, Campus Crusade for Christ Chapter, 1975-2006

Board of Directors, Waste Policy Institute, 1990-1993

Board of Directors, Virginia Tech Intellectual Properties, 1995-2001.

Search Committee for Intellectual Properties Officer

Executive Committee of the Board, 1999-2001.

College of Science Dean Search Committee, 2006-2007.

University Distinguished Professor Selection Committee, 2007.

Virginia Bioinformatics Institute Scientific Review, 2007.

Research Integrity Office Standing Committee, 2008-2011, 2013-2016

Research Integrity Investigation Committee, 2008-2009.

Dean of Libraries Search Committee, 2010-2011.

Director, Virginia Tech Center for Drug Discovery, 2012-present.

Executive Advisory Committee, Faculty of Health Sciences, 2013-present

VTCRI Senior Cancer Biology Search Committee, 2013-2014.

C. Department Service

Graduate Committee, 1971-1975 (Chair, 1972-1974)

Graduate Recruiting Committee, 1972-1976 (Chair, 1974-1976)

Ad Hoc Committee on the Chemical Synthesis and Techniques Laboratory, 1972-1973

Undergraduate Committee, 1975-1977

Development Committee 1977-1981 (Chair, 1977-1981)

Graduate Recruiting Committee, 1979-1980

Speakers Committee, 1980-1981

Safety Committee 1980-1982 (Chair, 1980-1982)

Steering Committee, 1981-1983

Coordinator of Atlantic Lectureship Program, 1982-1992

NMR Users' Committee 1983-1986 (Chair, 1983-1986)

Graduate Recruiting Committee, 1983-1984, (Chair, 1983-1984)

Graduate Committee 1984-1989
Undergraduate Committee, 1989-1991, 2003- present
Personnel Committee, 1989-1991
Steering Committee, 1990-1993
Coordinator, Organic Group, 1991-1993
Graduate Recruiting Committee, 1993-1994
Lecturer in various Short Courses for Potential Graduate Students
Departmental Colloquium Committee, 1994-2005 (Chair, 1995-2005)
Graduate Committee, 1995-1999
Departmental Library Representative, 1995-present
Coordinator, Organic Group, 1997-2001
Executive Committee, 2001-2003
Personnel Committee, 2011-2013

D. Professional Service

a) Memberships

Member, Royal Society of Chemistry, London, 1960-present
Member, American Chemical Society, 1962-present; 50-year member.
Member, American Society of Pharmacognosy, 1973-2000
Fellow, American Society of Pharmacognosy, 2000-present

b) Offices

Book Review Editor, *Journal of Natural Products*, 1979-2002.
Subcommittee member, American Society of Pharmacognosy, 1976-1978.
Executive Committee, ACS Southeastern Regional Meeting, Roanoke, Va., October 1979.
Chairman of Symposium on Cancer Chemotherapy, ACS Southeastern Regional Meeting, Roanoke, Va., October 1979.
Nominations Committee, American Society of Pharmacognosy, 1980-1981.
Chairman of Symposium on Natural Products, ACS Southeastern Regional Meeting, Charlotte, N.C., November, 1983.
Associate Editor, *Journal of Natural Products*, 1983-1998.
Publications Committee, American Society of Pharmacognosy, 1983-present.
Executive Committee, American Society of Pharmacognosy, 1984-1990.
Vice-President, American Society of Pharmacognosy, 1987-1988.
President, American Society of Pharmacognosy, 1988-1989.
Chairman, ASP Research Award Committee, 1987-1990, 1999-2002.
President, American Society of Pharmacognosy, 1988-1989.
Chairman, Nominations Committee, American Society of Pharmacognosy, 1989-1990.
Chairman, Symposium on Isolation, Biosynthesis, and Synthesis of Plant Derived Natural Products, ACS Southeastern Regional Meeting, Richmond, Va., November 1991.
Program Committee, 1992 ASP Meeting, Williamsburg, Va.
Editorial Advisory Board, *Current Organic Chemistry*, 1997-2009
Chair, Phi Lambda Upsilon Fresenius Award Committee, 1997-2001.
Editorial Advisory Board, *Journal of Natural Products*, 1998 – 2003, 2003 – 2008, 2008 – 2013.
Editorial Advisory Board, *Journal of Pharmacy of Istanbul University*, 2004-present
Editorial Advisory Board, *Minireviews in Organic Chemistry*, 2002-2009
International Advisory Board, *Natural Product Reports*, 2004-present

Editorial Advisory Board, *Current Bioactive Compounds*, 2004-present
Editorial Advisory Board, *The Open Natural Products Journal*, 2009-present
Editorial Advisory Board, *Natural Products and Bioprospecting* 2011-present
Active Editorial Advisory Board, *Fitoterapia* 2014 – present.
Editorial Advisory Board, *Saudi Pharmaceutical Journal*, 2016-present

c) *Conferences Organized*

Scientific Program Chair, International Conference on Natural Products, Chapel Hill NC, 1985.
Organised Symposium #279 “Recent Advances in Natural Products as Anticancer Agents”, Pacificchem 2010, Honolulu, HI, December 15-20, 2010.
Co-Chair, Fusion Conference “Natural Products: A Celebration and a Resurrection with Reverse Pharmacology.” Hilton Indian Lakes Resort, Chicago, July 7-10, 2014.

d) *Other*

Research Proposal Reviewer for:

National Science Foundation
Petroleum Research Fund
Research Corporation
Center for Innovative Technology
Canada Foundation for Innovation
Arizona Biomedical Research Commission
Australian Research Grants Committee
M. H. Smith Foundation for Health Research, Canada.
National Science and Engineering Research Council, Canada.
Third World Academy of Science
National Research Network (NFN), Austria
USDA CSREES

Referee of Manuscripts for:

Australian Journal of Chemistry
Beilstein Journal of Organic Chemistry
Biochemical Systematics and Ecology
Bioorganic Chemistry
Biomedical Mass Spectrometry
Bioorganic and Medicinal Chemistry Letters
Bioorganic and Medicinal Chemistry
Chemical Research in Toxicology
Collection of Czechoslovak Chemical Communications
International Journal of Pharmacognosy
Journal of Agricultural & Food Chemistry
Journal of the American Chemical Society
Journal of Natural Products
Journal of Medicinal Chemistry
Journal of Organic Chemistry
Magnetic Resonance in Chemistry

Natural Product Letters
Natural Product Reports
Natural Product Research
Nature Protocols
Organic and Biomolecular Chemistry
Organic Letters
Organic Mass Spectrometry
Organic Preparations and Procedures
Phytochemistry
Planta Medica
Steroids
Tetrahedron
Tetrahedron Letters

Site Visit Team, Harbor Branch Oceanographic Institution, Vero Beach, FL., February and June 1991.
External Evaluator for Promotion and Tenure Decisions at various U.S. and Foreign Universities.

E. Consulting Service

Consultant to Aphios Corporation (formerly Bio.Eng, Inc.), 1990-1998.
Expert witness in a trade secrets case, 1993-94.
Expert witness in five separate patent cases, 1996-present.
Consultant to OSI Pharmaceuticals, Inc., 1998-99.
Consultant to Biotherapeutics, Inc., 2014 - present

F. Community Service

Elder, Blacksburg, Christian Fellowship, 1971-present.

IX. HONORS, AWARDS AND LECTURESHIPS

A. Major Honors and Awards

Entrance Scholar, Queens' College, Cambridge, 1957.
Foundation Scholar, Queens' College, Cambridge, 1959.
Munro Studentship, Queens' College, Cambridge, 1960 (awarded to the top graduating scientist in the college each year).
Department of Scientific and Industrial Research Studentship, 1960-1963.
Research Fellowship, Queens' College, Cambridge, 1962-1966.
Fulbright Travel Award, 1963-64.
NATO Fellowship, 1964-66.
Appointed Research Associate of Missouri Botanical Garden, 1998-present.
Gene Wise Award, Blue Ridge Section, American Chemical Society, April 1999.
Research Achievement Award, American Society of Pharmacognosy, July 1999.
Virginia Scientist of the Year, 2002.
Cook Award for Research, Department of Chemistry, Virginia Tech, May 15, 2004.
Virginia Tech Alumni Association Award for Excellence in International Outreach and Research, 2004-2005.
American Chemical Society Ernest Guenther Award in the Chemistry of Natural Products, 2008.
Special birthday issue of the *Journal of Natural Products*, March 2009.

B. Miscellaneous Recognitions

Associate Editor, *Journal of Natural Products*, 1983-1998.

President, American Society of Pharmacognosy, 1988-89.

Selection of paper "Enzymological Evidence for Separate Pathways for Aflatoxin B₁ and B₂ Biosynthesis" for the Outstanding Paper Award of the Agricultural Research Service, Southern Regional Research Center, May 1992.

Selection of paper "Recent Advances in the Chemistry of Taxol" (*J. Nat. Prod.* **2000**, *63*, 726-734) as an "Editor's Choice" article for 2001 for the *Journal of Natural Products*.

The tree species *Cordia kingstoniana* was named for me in 2001.

Selection as a "Highly Cited Researcher" in the field of Agricultural Science by ISIHighlyCited.com. (Less than one half of one percent of all publishing authors meet the criteria for inclusion on ISIHighlyCited.com)

Paper "The Taxane Diterpenoids" was selected in 2006 as one of the "Top Ten" papers published in the *Journal of Natural Products* 1996-2008, as judged by the number of citations.

First place faculty award in the Natural Environment Category, Dean's Forum on the Environment poster award competition, 2007.

The tree species *Taxus kingstonii* (the "Kingston Yew") was named for me in 2007

Two articles (The Taxane Diterpenoids, *J. Nat. Prod.* **1999**, *62*, 1448-1472 and Recent Advances in the Chemistry of Taxol, *J. Nat. Prod.* **2000**, *63*, 726-734) are among the top 20 most cited articles from the *Journal of Natural Products* from 1996-2007.

Article "Design, synthesis and biological evaluation of bridged epothilone D analogues" (*Org. Biomol. Chem.* **2008**, *6*, 4542-4552.) selected for inclusion in the RSC's Chemical Biology Research Articles virtual journal.

Invited Perspective Article "A Natural Love of Natural Products" published (*J. Org. Chem.* **2008**, *73*, 3975-3984) with accompanying cover artwork.

Article "Antiproliferative Xanthenes of *Terminalia calcicola* from the Madagascar Rain Forest" (*J. Nat. Prod.* **2007**, *70*, 679-681) was one of the five most cited articles in the *Journal of Natural Products* in 2007.

Article "Modern Natural Products Drug Discovery and Its Relevance to Biodiversity Conservation" (*J. Nat. Prod.* **2011**, *74*, 496-511) was the third most downloaded article in the *Journal of Natural Products* in the 12 months since its publication.

C. Invited Named, Symposium, and International Lectureships (full details in section VI h above)

Invited Lecturer at the Banbury Symposium on Gastrointestinal Cancer: Endogenous Factors, Cold Spring Harbor, 1980.

Invited Lecturer at 13th IUPAC Symposium on the Chemistry of Natural Products, Pretoria, South Africa, 1982.

Invited Lecturer for a course of five lectures at King Saud University, Riyadh, Saudi Arabia, April 1984.

Invited Plenary Lecturer, Second International Symposium and Pakistan-U.S. Binational Workshop on Natural Product Chemistry, Karachi, Pakistan, January, 1986.

Invited Plenary Lecturer, International Symposium on Natural Products Chemistry, Monterrey, Mexico, April, 1987.

Invited Lecturer, Republic of China (Taiwan), with lectures at four universities, March, 1989.

Invited Lecturer, Research Congress on Natural Products, San Juan, Puerto Rico, August, 1989.

Invited Lecturer, Brazil-U.S. Workshop in Natural Products, Sao Paulo, Brazil, May 1990.

Invited Lecturer, Symposium on Biosynthesis and Metabolism of Secondary Metabolite Natural Products, ACS National Meeting, Atlanta, April 1991.

Invited Lecturer, International Conference on New Drugs from Natural Sources, London, England, June 1991.

J. Clarence Karcher Lecturer, University of Oklahoma, November 1991.

Lederle Lecturer, American Cyanamid Company, February 1992.

Invited Plenary Lecturer, Symposium on Taxol, ACS National Meeting, San Francisco, CA, April 1992.

Invited Lecturer, Symposium on Human Medicinal Agents from Plants, ACS National Meeting, San Francisco, CA, April 1992.

Invited Lecturer, Symposium on Taxol, ACS Northeast Regional Meeting, Syracuse, June 1992.

Invited Plenary Lecturer, Simposio de Plantas Medicinais do Brasil, Curitiba, Brazil, September 1992.

Invited Plenary Lecturer, Symposium on Taxol, ACS National Meeting, San Diego, CA, April 1994.

Invited Plenary Lecturer, 20th LOF Symposium on Pharmacognosy and Natural Products Chemistry, Leiden, The Netherlands, November 1995.

Invited Plenary Lecturer, MONA Symposium on Natural Products Chemistry, Kingston, Jamaica, January 1996.

Invited Plenary Lecturer, 44th Annual Congress, Society for Medicinal Plant Research, Prague, Czech Republic, September, 1996.

Invited Lecturer, IUPAC Symposium on the Chemistry of Natural Products, Chicago, September 1996.

Invited Lecturer, Symposium on Biologically Active Natural Products, 214th ACS National Meeting, Las Vegas, September 1997.

Invited Plenary Lecturer, Frank Warren National Organic Chemistry Conference, Mtunzini, Durban, South Africa, July 1997.

Invited Lecturer, Gordon Research Conference on Organic Reactions and Processes, Henniker, NH, August 6-8, 1997.

Invited Lecturer, International Symposium on Antitumour Products from Higher Plants, Paris, France, January 10, 1998.

Invited Lecturer, 215th ACS National Meeting, Dallas, TX, March 29-April 2, 1998.

Hatfield Lecturer, Georgetown College, April 2001.

Fifth Annual "Humanities in Science" Lecturer, Texas A&M University School of Medicine, November 2001.

Invited Plenary Lecturer, International Conference on Biodiversity and Bioactive Compounds, BioThailand 2003, Pattaya, Thailand, July 18, 2003.

Invited Lecturer, l'Académie Nationale des Arts, des Lettres et des Sciences, Antananarivo, Madagascar, January 14, 2004.

Invited Lecturer, Department of Chemistry, Istanbul Technical University, Istanbul, Turkey, May 28, 2004.

Invited Plenary Lecturer, 11th Symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Antananarivo, Madagascar, August 9th, 2005.

Invited Lecturer, Fourth Medicinal Plant Symposium, Mountain State University, Beckley, WV, September 17th, 2005.

Invited Plenary Lecturer, Stony Brook Symposium on New Horizons in Organic Chemistry, September 29, 2005.

Invited Symposium Lecturer, Pacificchem 2005, Honolulu, HI, December 18, 2005.

Miller Lectureship, Greenville College, IL, March 23, 2006.

- Invited Plenary Lecturer, International Seminar and Workshop on Marine Biodiversity and Their Potential for Developing Biopharmaceutical Industry in Indonesia, Jakarta, Indonesia, May 17, 2006.
- Invited Lecturer, Bogor Agricultural University (IPB), Bogor, Indonesia, May 19, 2006.
- Invited Plenary Lecturer, Annual Meeting of the Phytochemical Society of North America, Oxford, MS, July 10, 2006.
- Invited Plenary Lecturer, William Brown Award Symposium Honoring Gordon Cragg, Missouri Botanical Garden, November 2006.
- Invited Lecture, King Saud University, Riyadh, Saudi Arabia, May 2007.
- Invited Plenary Lecturer, 11th Institut de Chimie des Substances Naturelles Symposium, Gif-sur-Yvette, France, June 7 - 8, 2007.
- Featured Award Lecturer, American Chemical Society Guenther Award Symposium, New Orleans, LA, April 7, 2008.
- Invited Lecturer, American Chemical Society Symposium on Natural Product Modulators of Signal Transduction and Contemporary Approaches to Natural Product Chemistry, New Orleans, LA, April 9, 2008.
- Invited Lecturer, American Association for Cancer Research Educational Program, Symposium on Natural Products in Anticancer Drug Discovery, San Diego, CA, April 12-16, 2008
- Invited Plenary Lecture, 7th Joint Meeting of the American Society of Pharmacognosy with the AFERP, GA, PSE, and SIF, Athens, Greece, August 3-8, 2008.
- Invited Plenary Lecture, Idea Network of Biomedical Research Excellence, University of Arkansas, Fayetteville, Arkansas, November 7, 2008.
- Invited Plenary Lecture, International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicines, National Institute for Pharmaceutical Education and Research, Chandigarh, India, November 17, 2008.
- Invited Plenary Lecture, International Organization for Chemical Sciences in Development (IOCD) Symposium, Vina del Mar, Chile, November 8-11, 2009.
- Augustine Silveira, Jr. Distinguished Lecture, SUNY Oswego, April 8, 2010.
- Invited Opening Plenary Lecture, International Conference on New Developments in Drug Discovery from Natural Products and Traditional Medicines, National Institute for Pharmaceutical Education and Research, Chandigarh, India, November 20, 2010.
- Invited Symposium Lecture, 241st American Chemical Society National Meeting, Anaheim, CA, March 29, 2011.
- Invited Opening Plenary Lecture, 3rd. Brazilian Conference on Natural Products (3rd. BCNP), Ouro Preto, MG, Brazil, October 29, 2011.
- Adventures in the Chemistry and Biology of Taxol, a Famous Anticancer Natural Product. Keynote Lecture, The Chemistry Biology Interface Program, Ohio State University, May 15, 2012.
- Stephen E. Strauss Distinguished Lecturer in the Science of Complementary Health Therapies, National Institutes of Health, December 2012.

X. BIOGRAPHICAL LISTINGS

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