

## *CURRICULUM VITAE*

**1). NAME:** Danansooriya Bogodage Mahinda Wickramaratne

**2). ADDRESS:**

**(a). Residence:** C-60, Staff Quarters  
Augusta Hill  
Peradeniya

**(b).Official:** Department of Pharmacy  
Faculty of Allied Health Sciences  
University of Peradeniya  
Peradeniya, Sri Lanka  
Tel : 0813999624  
Email: [mahindaw@pdn.ac.lk](mailto:mahindaw@pdn.ac.lk)

**3). DATE OF BIRTH:** 26<sup>th</sup> May, 1958

**4). SEX:** Male

**5). NATIONALITY:** Sri Lankan

**6). CIVIL STATUS** Married with two children

**7). EDUCATIONAL QUALIFICATIONS:**

**(a)** Nov. 1981 B.Sc. Special Degree in Chemistry,  
University of Peradeniya, Sri Lanka.

**(b)** Nov. 1987 Ph. D. degree, Natural Products Chemistry  
University of Peradeniya, Sri Lanka.  
Thesis: "Coumarins of *Murraya* species and Synthetic studies on  
Pheromones".

**8). EMPLOYEMENT RECORD**

Feb 2010-Todate Dean  
Faculty of Allied Health Sciences  
University of Peradeniya

Nov2007-Todate Senior Lecturer Gr.I  
Department of Pharmacy  
Faculty of Allied Health Sciences  
University of Peradeniya

Sep 2002- Nov 2007 Dean,  
Faculty of Applied Sciences,

Sabaragamuwa University of Sri Lanka

- Oct 2004-March 2005 Acting Vice Chancellor,  
Sabaragamuwa University of Sri Lanka
- Nov 1998- Sep 2002 Head,  
Department of Physical Sciences,  
Sabaragamuwa University of Sri Lanka
- April 2005 – to date Associate Professor in Chemistry  
Department of Physical Sciences,  
Sabaragamuwa University of Sri Lanka
- Oct 1998 -April 2005 Senior Lecturer Gr. I  
Department of Physical Sciences,  
Sabaragamuwa University of Sri Lanka
- Dec. 1996–Sep.1998 Scientific Officer Grade 11 (Contract), Natural Resources Energy  
and Science Authority of Sri Lanka, 47/5, Maitland Place,  
Colombo -7, Sri Lanka
- Aug.1996-Dec.1996 Research Associate / Laboratory Manager,  
Department of Chemistry, University of Peradeniya, Sri Lanka.
- Jan.1994-Dec.1995 Research Associate  
Department of Medicinal Chemistry, School of Pharmacy,  
University of Kansas, Lawrence, KS 66045.  
Work involved: extraction isolation and characterization of  
biologically active natural products. Total and partial synthesis of  
bioactive compounds.
- Mar. 1991-Dec. 1993 Post-doctoral Research Associate,  
Department of Medicinal Chemistry and Pharmacognosy, College  
of Pharmacy, University of Illinois at Chicago.
- Apr. 1989-Feb. 1991 Research Associate / Laboratory Manager,  
Department of Chemistry, University Peradeniya, Sri Lanka.
- Aug. 1988-Apr. 1989 Post Doctoral Fellow, International Program in Chemical Sciences  
at Department of Chemistry, Royal Institute of Technology,  
Stockholm, Sweden. Supervisor: Professor Torbjorn Norin
- Nov. 1987-Aug. 1988 Post-doctoral Researcher  
Department of Chemistry University of Peradeniya Sri Lanka.

**10). OTHER ASSIGNMENTS & EXPERIENCE:**

**(a) Appointments in other committees & Boards**

2002 – to date Board Member

Post graduate institute of Sciences  
University of Peradeniya Sri Lanka

2000 - to date Academic Board Member  
Sri Lanka Military Academy Diyathalawa

2003 - to date Member Human Rights Commission, Uva Province

2003 - to date Member IRDB Monaragala

1998 -2000 Council Member  
Institute of Chemistry, Ceylon  
Vidya Mandiraya Colombo

**(a) Visiting Lecture Appointments**

1999 Visiting lecturer in Chemistry  
Department of Chemistry  
University of Peradeniya

2001- to date Visiting lecturer in Chemistry  
B. Sc. Programme in Military Science  
Sri Lanka Military Academy Diyathalawa

2000-2001 Visiting lecturer in Chemistry  
South Eastern University, Samanturai

2002-2004 Visiting lecturer in Chemistry  
Institute of Chemistry, Ceylon

**(c) Examination Boards:**

Served as the External Examiner for five Ph.D. and M.Phil candidates during  
1999- to date.

**(b) Administrative Boards at the SUSL**

**University Council:**

Oct. 2004- March 2005 Chairman University Council

2002 - to date Member University Council

**University Senate:**

Oct. 2004 – to date Chairman University Senate

Oct. 1998 – to date Member University Senate

**(c) Editorial/Referee Boards:**

1992 –1995 Referee - Journal of Natural Products.

**(f) Other Societies**

1999 President, Teachers Association  
Faculty of Applied Sciences  
Sabaragamuwa University of Sri Lanka

2000 Sports Association  
Faculty of Applied Sciences  
Sabaragamuwa University of Sri Lanka

**(d) Involvement in other Workshops and Study programmes:**

1999 Organizer  
Teacher Training Work Shop for Science Teachers in Uva  
Province, Faculty of Applied Sciences  
Sabaragamuwa University of Sri Lanka

2000 Organizer  
Statistical Analysis Workshop for University Lectures  
Faculty of Applied Sciences Sabaragamuwa University of Sri  
Lanka

Oct. 31-Nov. 1, 1996 Resource person,  
National Workshop on Separation Techniques and Spectroscopy  
in Organic Chemistry' **IFS, Kandy,** Sri Lanka

**Presentations and Guest Lectures:**

**Oct. 31-Nov. 1, 1996.** National Workshop on Separation Techniques and Spectroscopy  
in Organic Chemistry' **IFS, Kandy,** 21.

**July, 15 1997.** Public Lecture on 'Novel Immunosuppressive agents derived on  
the basis of a Chinese crude drug' organized by **Sri Lanka  
Association of Advancement of Science,**

**11). SPECILIZED SKILLS**

Experience in isolation, purification and characterization of natural products and synthesis of biologically active organic compounds using standard and modified organic reactions. Use of purification methods LC, FPLC, HPLC, GC, and other standard methods available in organic laboratory. Hands on experience in modern spectroscopic techniques such as HETCOR, COSY, NOSEY, HMBC etc. on NMR 300 Hz, 360 MHz and 500 MHz, GC-MS, UV-VIS and FTIR instruments. Hands on experience in enzyme

bio-assay and immunosuppressive assay. Molecular modelling using Hyperchem and PC model,

## 12). AFFILIATIONS

Member, American Society of Pharmacognosy.  
Life Member, Sri Lanka Association for the Advancement of Science.  
Life Member, Institute of Chemistry Ceylon.

## 13). RESEARCH PUBLICATIONS IN REFERED JOURNALS AND PROCEEDINGS:

1. Murragleinin, a coumarin from *Murraya gleniei* leaves. D. B. M. Wickramaratne, V. Kumar, and S. Balasubramaniam, *Phytochemistry*, 1984, **23**, 2964.
2. Synthesis of *trans*- $\beta$ -farnesene, P. Baeckstrom, D. B. M. Wickramaratne, and T. Norin, *Organikedrdagarna*, 1986, **12**, KTH, Stockholm, Sweden.
3. Acid Rearrangements of coumarin-1,2-diols, V. Kumar and D. B. M. Wickramaratne, *Abstr. Princess Congress I*, 1987, 299, Bangkok, Thailand.
4. Gleinene and gleinadiana, 5,7-dimethoxycoumarins from *Murraya gleniei* root, V. Kumar, J. Reisch, D. B. M. Wickramaratne, R. A. Hussain, K. S. Adesina, and S. Balasubramaniam, *Phytochemistry*, 1987, **26**, 511.
5. Acid Rearrangements of the Murrangatins, D. B. M. Wickramaratne and V. Kumar, *Tetrahedron Lett.*, 1988, **29**, 6153.
6. Approach to synthesis of lineatin, P. Baeckstrom, M. Wickramaratne, V. Kumar, L. Li, and P. Notstrnad, *Abstr. Int. Symp. Chem. Natural Products (IUPAC)*, 1988, 254, Kyoto, Japan.
7. Synthesis of the Natural coumarins, Gleinene and Gleinadiene, J. Reisch, A. Wickramasinghe, and D. B. M. Wickramaratne, *Liebigs Ann. Chem.*, 1990, 209.
8. A synthesis of *trans*- $\beta$ -farnesene from myrcene which includes a modified work up method for DIBAH reduction of esters to Aldehydes, P. Baeckstrom, L. Li, D. B. M. Wickramaratne, and T. Norin, *Synth. Commun.*, 1990, **20**, 423.
9.  $^{13}\text{C}$  NMR Spectra of some 8-substituted 7-methoxycoumarins and 5,7-dimethoxy coumarins, M. I. M. Wazeer, V. Kumar, and D. B. M. Wickramaratne, *Can. J. Spectrosc.*, 1990, **35**, 3, 57.
10. Tirucallanes from *Paramignya monophylla* (Rutaceae) fruits, V. Kumar, N. M. M. Niyaz and D. B. M. Wickramaratne, *Abstr. Int. Sym. Chem Natural products (IUPAC)*, 1990, 280. New Delhi, India.
11. Indole dimmer from *Murraya gleniei* root, V. Kumar, D. B. M. Wickramaratne, and U. Jacobsson, *Tetrahedron Letters*, 1990, **31**, 5217.

12. Furanonaphthoquinones from two *Lantana spp.*, C. Abeygunawardena, V. Kumar, D. S. Marshall, R. H. Thomson and D. B. M. Wickramaratne, *Phytochemistry*, 1991, **30**, 941.
13. Tirucallanes from *Paramignya monophylla* fruits, V. Kumar, N. M. M. Niyaz and D. B. M. Wickramaratne, S. Balasubramaniam *Phytochemistry*, 1991, **30**, 1231.
14. Structure and Biological activity of Tricolorin A, Major phyto-growth inhibitor from *Ipomoea tricolor*, R. Pereda-Miranda, R. Mata, A. L. Anaya, J. M. Pezzuto, D. B. M. Wickramaratne and A. D. Kinghorn, *Proc. Am. Soc. Pharmacognosy*, **33**, P-7, 1992.
15. Tricolorin A, Major phyto-growth-inhibitor from *Ipomoea tricolor*, R. Pereda-Miranda, R. Mata, A. L. Anaya, D. B. M. Wickramaratne, J. M. Pezzuto, and A. D. Kinghorn, *J. Nat. Prod.*, 1993, **56**, 571.
16. Cytotoxicity of *Hymenocallis expansa* alkaloids, M. D. Antoun, Y. R. Rios, N. T. Mendoza Bas, D. B. M. Wickramaratne, J. M. Pezzuto, and A. D. Kinghorn, *J. Nat. Prod.*, 1993, **56**, 1423.
17. Cytotoxicity of *Hymenocallis Expansa* alkaloids, Y. R. Rios, N. T. Mendoza Bas, M. D. Antoun, D. B. M. Wickramaratne and A. D. Kinghorn, *Proc. Am. Soc. pharmacognosy*, **33**, P-67, 1992.
18. Novel antimitotic dibenzocyclo-octadiene lignans constituents of the stem bark of *Steganotaenia araliace*, D. B. M. Wickramaratne, T. Pengsuparp, W. Mar, H.-B. Chai, T. E. Chagwedera, C. W. W. Beecher, N. R. Farnsworth, A. D. Kinghorn, J. M. Pezzuto, and G. A. Cordell, *J. Nat. Prod.*, 1993, **56**, 2083.
19. Novel antimitotic dibenzocyclo-octadiene lignans constituents of *Steganotaenia araliace*, D. B. M. Wickramaratne, T. Pengsuparp, W. Mar, H.-B. Chai, T. E. Chagwedera, C. W. Beecher, N. R. Farnsworth, A. D. Kinghorn, J. M. Pezuto, and G. A. Cordell, *Proc. Am. Soc. Pharmacognosy*, **34**, 1993.
20. Bio assay guided isolation of multiple drug resistance reversing agents from plants, M. You, Mahinda Wickramaratne, G. L. Silva, T. E. Chegwedera, N. R. Farnsworth, G. A. Cordell, A. D. Kinghorn, J. M. Pezuto, *Proc. Am. Soc. Pharmacognosy*, **36**, 1995.
21. Cytotoxic constituents of *Bursera permollis*, D. B. M. Wickramaratne, W. Mar, H. Chai, J. J. Castillo, N. R. Farnsworth, D. D. Soejarto, G. A. Cordell, J. M. Pezzuto, and A. D. Kinghorn, *Planta Medica*, 1995, **61**, 80.
22. Coumarins from stem bark of *Paramignya monophylla*, V. Kumar, N. M. M. Niyaz, and D. B. M. Wickramaratne, *Phytochemistry*, 1995, **38**, 805.
23. (-) Roemerine, an aphopine alkaloid from *Annona senegalensis* that reverses the multidrug-resistant phenotype with cultured cells. Min You, D. B. M. Wickramaratne, G. L. Silva, H. Chai, T. E. Chagwedera, N. R. Farnsworth, G. A. Cordell, A. D. Kinghorn, and J. M. Pezzuto, *J. Nat. Prod.*, 1995, **58**, 598.
24. Coumarins from *Paramignya monophylla* root bark, V. Kumar, N. M. M. Niyaz, S. Subramaniam and D. B. Mahinda Wickramaratne, *Phytochemistry*, 1998, **49**, 215

25. Cordell, G.A., Beecher, C.W.W., Farnsworth, N.R., Kinghorn, A.D., Pezzuto, J.M., Chai, H., Constant, H., Likhitwitayawuid, K., Shieh, H.L., Wickramaratne, D.B.M.. "Recent studies on biologically active natural products" *New Trends in Natural Products Chemistry* 57 - 78, 1998.
26. Quality Considerations of Extemporaneous preparations at Teaching Hospital, Kurunegala, Lakmali H.V.N., Liyanaarachchie L.C.P.T., Wickramaratne D.B.M., *The Pharmaceutical Journal of Sri Lanka*, 2011, page 20-26
27. Immunosuppressive compounds from *Tripterygium wilfordii* Manuscript in preparation.

#### PAPERS PRESENTED AT NATIONAL & INTERNAATIONAL CONFERENCES:

##### (a) International Conference:

1. Synthesis of *trans*- $\beta$ -farnesene, P. Baeckstrom, D. B. M. Wickramaratne, and T. Norin, *Organikedrdagarna*, 1986, **12**, KTH, Stockholm, Sweden.
2. Acid Rearrangements of coumarin-1,2-diols, V. Kumar and D. B. M. Wickramaratne, *Abstr. Princess Congress I*, 1987, 299, Bangkok, Thailand.
3. Approach to synthesis of lineatin, P. Baeckstrom, M. Wickramaratne, V. Kumar, L. Li, and P. Notstrnad, *Abstr. Int. Symp. Chem. Natural Products (IUPAC)*, 1988, 254, Kyoto, Japan.
4. Fungicidal Indoles from *Murraya gleniei* root timber, D. B. M. Wickramaratne and V Kumar, *Abstr. ASOMPS VI*, 1989, P3-3, Bandung, Indonesia.
5. Tirucallanes from *Paramignya monophylla* (Rutaceae) fruits, V. Kumar, N. M. M. Niyaz and D. B. M. Wickramaratne, *Abstr. Int. Sym. Chem Natural products (IUPAC)*, 1990, 280. New Delhi, India.
6. Structure and Biological activity of Tricolorin A, Major phytogrowth inhibitor from *Ipomoea tricolor*, R. Pereda-Miranda, R. Mata, A. L. Anaya, J. M. Pezzuto, D. B. M. Wickramaratne and A. D. Kinghorn, *Proc. Am. Soc. Pharmacognosy*, **33**, P-7, 1992.
7. Cytotoxicity of *Hymenocallis Expansa* alkaloids, Y. R. Rios, N. T. Mendoza Bas, M. D. Antoun, D. B. M. Wickramaratne and A. D. Kinghorn, *Proc. Am. Soc. Pharmacognosy*, **33**, P-67, 1992.
8. Novel antimitotic dibenzocyclo-octadiene lignans constituents of *Steganotaenia araliace*, D. B. M. Wickramaratne, T. Pengsuparp, W. Mar, H.-B. Chai, T. E. Chegwedera, C. W. Beecher, N. R. Farnsworth, A. D. Kinghorn, J. M. Pezuto, and G. A. Cordell, *Proc. Am. Soc. Pharmacognosy*, **34**, 1993.
9. Bio assay guided isolation of multiple drug resistance reversing agents from plants, M. You, Mahinda Wickramaratne, G. L. Silva, T. E. Chegwedera, N. R. Farnsworth, G. A. Cordell, A. D. Kinghorn, J. M. Pezuto, *Proc. Am. Soc. Pharmacognosy*, **36**, 1995.

### **(b) National Presentations and Publications:**

1. Coumarins from *Murraya gleniei* (Rutaceae), D. B. M. Wickramaratne, V. Kumar and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1982, **38**, 49.
2. A new coumarin from *Murraya gleniei*, D. B. M. Wickramaratne, V. Kumar, and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1983, **39**, 89.
3. A new structure for murralongin, D. B. M. Wickramaratne and V. Kumar, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1983, **39**, 89.
4. Coumarins from *Murraya gleniei* root bark, D. B. M. Wickramaratne, V. Kumar, and S. Balasubramaniam, *Proc. Inst. Chem. Ceylon*, 1984, **13**, 3.
5. Two new coumarins from *Murraya gleniei* (Rutaceae), D. B. M. Wickramaratne and V. Kumar, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1986, **42**, 152.
6. Three indoles from *Murraya gleniei* root timber, D. B. M. Wickramaratne and V. Kumar, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1986, **4**, 152.
7. Coumarins of *Pamburus missionis* stem bark, V. Kumar, N. Vasanthan, D. B. M. Wickramaratne, and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1988, **44**, 169.
8. Pyranocoumarins from *Paramignya monophylla* root bark, D. B. M. Wickramaratne, V. Kumar, and S. Balasubramaniam, *Proc. Sri Lanka Assoc. Advmt. Sci.*, 1988, **45**, 169.
9. Indole dimmer from *Murraya gleniei* root timber, D. B. M. Wickramaratne, V. Kumar, *Proc. Inst. Chem. Ceylon* (in *Chemistry in Sri Lanka*), 1990, **7**, 7.
10. Antifungal Indoles from *Murraya gleniei* Root Timber, D. B. M. Wickramaratne V. Kumar, and N. K. B. Adikaram, *Int. Sym. on Bioactive Natural Products*, University of Peradeniya, Sri Lanka, **61**, 1996 (Abs.)

### **PATENTS:**

1. Triptolide derivatives useful in the treatment of autoimmune diseases Michel J. Jung, **D. B. Mahinda Wickramaratne** and Michael Happerle United States Patent, 5,972,998, Oct. 26, 1999
2. Triptolide derivatives useful in the treatment of autoimmune diseases Michel J. Jung, **D. B. Mahinda Wickramaratne** and Michael Happerle United States Patent, 6,004,999, Dec. 21, 1999

### **RESEARCH INTERESTS:**

#### **Ongoing Projects:**



Isolation and Characterization of Biologically active compound from *Cycus Circinallis*  
Total and Partial Synthesis of naturally occurring medicinally important Natural Products

Study on anti-diabetic action of *Morinda citrifolia* fruits

Analysis of drugs for their self life and stability

Standardisation of Ayurvedic preparations available in Sri Lanka Market