

## Vajira P. Bulugahapitiya



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Professor in Chemistry

Department of Chemistry, University of Ruhuna, Matara, Sri Lanka

**Expertise area:** Organic Synthesis, Natural Product Chemistry,  
Pharmaceutical Chemistry, Chromatography.

### Administrative positions:

Head of the Department of Chemistry ( since 2013)  
Department of Chemistry, university of Ruhuna

### Professional Experience

- 2005-2013 Senior Lecturer (Grade-I)  
Department of Chemistry, University of Ruhuna, Matara, Sri Lanka
- 2005-1999 Senior Lecturer (Grade II)  
Department of Chemistry, University of Ruhuna, Matara, Sri Lanka
- 1999 – 1992 Lecturer (Probationary)  
Department of Chemistry, University of Ruhuna. Matara, Sri Lanka
- 1992 – 1991 Temporary Assistant Lecturer  
Department of Chemistry, University of Ruhuna, Matara, Sri Lanka

### Academic Profile

1999 - PhD in Synthetic Organic Chemistry, University of Fribourg, Fribourg, Switzerland.

Thesis Title: New approach to  $\alpha$ -amino and  $\alpha$ -hydroxy compounds

Supervisor: Prof. Philippe Renaud

1996 - Certificate in Organic Chemistry, University of Lausanne, Lausanne, Switzerland, (“Certificate De Chimie Organique”)

1991 - B.Sc. Special Degree, Second Class (Honours) Upper Division  
University of Ruhuna, Matara, Sri Lanka

## Awards

- SUSRED Award by NSF Sri Lanka, 2017:  
For the successful supervision and completion of postgraduate research (MPhil degree 2012-2015).
- NSF Award -2016 for best presenter in anticancer drug discovery from natural product, NSF Research Summit – 2016, BMICH, Colombo, Sri Lanka.  
Title: Isolation and characterization of novel anti-cancer compounds against human ovarian carcinoma from the medicinal herb, *Flueggea leucopyrus* Wild.

## Fellowships/Scholarships

- Commonwealth academic Fellowship, 2013, Visiting Research Fellow, Loughborough University, UK
- Matsumae International Foundation Fellowship, 2007–2008: Post-doctoral research fellow, Kanagawa University, Japan
- Joint NAM S&T and ICCS Fellowships, 2006: Visiting research fellow, International Centre for Chemical Sciences, HEJ Research Institute, University of Karachi, Pakistan.
- Swiss Federation of Scholarships, 1995 – 1998: Postgraduate research, University of Lausanne & University of Fribourg, Switzerland.

## Research Interest

1. Preparation of nutraceuticals and functional foods from medicinal plants for the reduction and prevention of Non-Communicable diseases
2. Scientific investigation of endogenous flora of Sri Lanka to discover novel potent biologically active compounds especially for cancers and diabetes mellitus.
3. Isolation of active compounds from *Fluggea leucopyrus* (wild) against human ovarian carcinoma.
4. Preparation low cost feed from agro waste for inland fish-farming
5. Exploration of medicinal herbs for possible preparation of value added products as nutraceuticals and other food supplements

6. Determination of ascorbic acids availability of commonly consumed fruits and vegetable & underutilized fruits in Sri Lanka.
7. Determination of glycemic effects of traditional and improved rice varieties in Sri Lanka
8. Scientific investigation of herbal medicines available in the local market for quality assurance purpose.
9. Study of Structure and Reactivity Relationship of naturally occurring biologically active molecules
10. Bio-transformations of naturally occurring biologically active compounds in order to produce more potent compounds.
11. Development of synthetic strategies for the synthesis of naturally occurring biologically active compounds.

## Ongoing Research

1. Investigation of anti-oxidant capacity, iron content and Vitamin –C availability of commonly consumed fruits and leafy vegetables and underutilized fruits in Sri Lanka under different storage conditions.
2. Analysis of chemical composition and investigation of *in-vitro* GI index of traditional and improved rice varieties in Sri Lanka.
3. Preparation of low cost feed for Inland fish farming from agro waste available in Sri Lanka
4. Investigation anti-oxidant capacity of medicinal herbs used in cancer treatment in traditional system of medicines in Sri Lanka.
5. Exploration of the possibility for preparation of nano capsulated active extract of *Fluggea leucopyrus* (Wild) against cancer.

## Research Grants

**Project-1: Title : AHEAD-DOR project** Scientific Investigation of leaves of *Psidium guajava* (pera), *Garcinia gummi-gutta* (goraka) and *Eryngium foetidum* (andu), and leaves and bark of *Cinnamomum verum* (kurudu) for the preparation of innovative functional foods and combined herbal nutraceuticals (Principal Investigator) 35 million.

**Project -2 Title :** Identification of Biochemical Profile, Bioactive Compounds, Pharmacological studies of Ceylon Cinnamon (*Ceylon Ceyllanicum*). Received in 2017 (for three year period), Amount: 9.8 million SLR; Awarded by NSF, Sri Lanka (on going)- **Co investigator**

**Project -3 : Title:** Investigation of ascorbic acid content in commonly consumed fruits and vegetables and wild fruits under different conditions ; Received in 2016 (for two years); Amount : 3.8 million SLR; Awarded by UGC, Sri Lanka (on going)- **Principal Investigator**

**Project 4: Title:** Development of low cost feeds for a freshwater ornamental fish, Guppy (*Poecilia reticulata*). Received in 2016, Amount : 2.8 million SLR; Awarded by UGC, Sri Lanka (on going)- *Co investigator*.

**Project -5 : Title :** *In vivo* study of glycemic index (GI) of improved and traditional varieties of rice cultivated in Sri Lanka and correlation with *in vitro* model and the influence of grain constituents on GI. Received in 2017, Amount: 3.0 million SLR, **Awarded by** Sri Lanka Council for Agricultural Research Policy, Sri Lanka (on going)- *Co investigator*

**Project -6 : Title:** Investigation of Anti-cancer properties of *Flueggea leucopyrus* (Willd), characterization of active compounds. Amount: Rs. 2 million, Awarded by : University of Ruhuna, “Transforming of the University of Ruhuna to International Standard” (TURIS), 2012 -2015 (completed)- *Principal Investigator*

**Project -7 : Title:** Evaluation of alternative feed ingredients in order to prepare low cost fish feed for a sustainable aquaculture industry in Sri Lanka, Amount: Rs. 2 million, Awarded by University of Ruhuna, Research Grants from Transforming of the University of Ruhuna to International Standard (TURIS), 2012-2015 (completed). - *Co investigator*

**Project -7 : Title:** Scientific Investigation of traditionally used herbs in cancer treatment Awarded by : Faculty of Science, University of Ruhuna, 2011 and 2002, Amount: Rs. 2 x 50,000.00 (completed). *Principal Investigator*

### **Coordinator and Participation in Academic Exchange Program**

“Sakura Science Plan”, Kanagawa University, Japan, 2017

### **Postgraduate Supervision:**

- 1. Name :** A.P.H.I. Abeysuriya (MPhil) - *ongoing*  
Project : Anti-oxidant capacity and Ascorbic acid content in fruits and vegetables of Sri Lanka under different conditions.  
Grant : UGC -2016
- 2. Name :** Roshni F. Hafeel (PhD) - *ongoing*  
Project : Comparative analysis of chemical composition and glycemic index (GI) of selected varieties of improved and traditional rice cultivated in Sri Lanka  
Grant : NAARP – 2017
- 3. Name:** K.M. Nishsanka (MPhil) – *ongoing*

Project: Development of low cost feeds for a freshwater ornamental fish, Guppy (*Poecillia reticulata*)  
Grant : UGC -2016

4. Name : A.M.M.B. Munasinghe (MPhil) - *completed*  
Project : Investigation of anti-cancer properties of Katupila, *Fluggea leucopyrus* Willd; isolation and characterization of active compounds.  
Grant : TURIS - 2013
5. Name : Nilushi Paranamana (MPhil) – *completed*  
Project : Evaluation of alternative feed ingredients in order to prepare low cost fish feed for a sustainable ornamental aquaculture industry in Sri Lanka.  
Grant : TURIS -2013

## Research Publications

### Journal Articles

- (6).Paranamana N., Gamage, K., **Bulugahapitiya, V. P.** (2014). Nutritional and Anti-nutritional contents of alternative plant feed ingredients for fish feed formulation. *Indian Journal of Animal Sciences* **85** (2): 117–125.
- 5).**Vajira P. Bulugahapitiya**, Syed Ghulam Musharaff (2009), Biotransformation of Nootkatone using *Macrophomia phaseolina*, *Ruhuna Journal of Science*, 4,13-20.
- 4).**Vajira P. Bulugahapitiya**, P.T. Kiriede Arachchi (2006), Cytotoxic compounds from seeds of *Nigellasativa* (Black cumine), *Ruhuna Journal of Science*, 1, 152-161.
- 3.). **Vajira P. Bulugahapitiya**, Philippe Renaud (2001), Polysubstituted 1-hydroxycyclopentane carboxylic acid derivatives via a group selective radical annulations; *Acad.Sci.Paris, Chimic/Chemistry*, 4,619-624.
- 2). Lilian Parra rapado, **Vajira P. Bulugahapitiya** and Philippe Renaud (2000), Synthesis of Non-racemic 1-Hydroxycycloalkene-1-carboxylic acid derivatives by metathesis of  $\alpha,\alpha$ -dialkylated Glycolate derivatives, *Helv.Chim.Acta* 83(7), 1625-1632.
- 1) **Priyadarshanie Bulugahapitiya**, Y. Landais, L.P. Rapado, D. Planchenault and V.Weber (1997), A stereospecific Access to Allylic system using Rhodium (II)-vinyl carbenoid insertion into Si-H, O-H and N-H bonds; *J.Org.Chem.* 62, 1630-1641

### Proceedings as Full papers/ Abstracts

46) V P Bulugahapitiya, R F Hafeel, G E D de Zoysa, A P Bentota, M G M Dulanthi, (2019), Nutrient Composition of Selected Improved and Traditional Rice varieties (*Oryza sativa* L.), , 16<sup>th</sup> Academic Session & 15<sup>th</sup> Vice Chancellors Award Ceremony, 6<sup>th</sup> March, University of Ruhuna, Matara, Sri Lanka .

45) **Bulugahapitiya, V.P.** , Abeysuriya, A.P.H.I. , Jayatissa, L.P (2019), Change in Contents of Vitamin C, Total Phenolic, Total Flavonoid and Antioxidant Activities of Selected Fruits Stored under Refrigeration, 16<sup>th</sup> Academic Session & 15<sup>th</sup> Vice Chancellors Award Ceremony, 6<sup>th</sup> March, University of Ruhuna, Matara, Sri Lanka.

44) **V.P Bulugahapitiya**, S.S.I Jayarathne , Investigation of the medicinal plants, *Costus speciosus* and *Aporosa lindleyana* leaves for their Biochemical composition, 16<sup>th</sup> Academic Session & 15<sup>th</sup> Vice Chancellors Award Ceremony, 6<sup>th</sup> March, University of Ruhuna, Matara, Sri Lanka

43) **V. P. Bulugahapitiya, A. P. H. I. Abeysuriya, D. N. A. Arachchi, and L. P. Jayatissa (2018)**, Antioxidant properties, contents of vitamin C, total phenolic, total flavonoid and dietary iron of selected Sri Lankan fruit species , Asian Symposium of Medicinal Plants, Spices and other Natural Products XVI, 12-14 December, BMICH, Colombo, Sri Lanka.

42) **Bulugahapitiya, V.P.**, Abeysuriya, A.P.H.I., Jayatissa, L.P, (2018), Determination of Vitamin C Content and Antioxidant Properties of Selected Sri Lankan Wild Fruit Species, 15<sup>th</sup> Academic Session of University of Ruhuna, March, 2018.

41) R.F. Hafeel,**V.P. Bulugahapitiya**, A.P. Bentota, and G.E.D. de Zoysa (2017), A comparative investigation on agronomic traits of popularly grown improved and traditional varieties of rice , 73<sup>rd</sup> Annual Session, Sri Lanka Association for the Advancement of Science (SLAAS), Colombo, Sri Lanka.

40) **Bulugahapitiya, V.P.**, Abeysuriya, A.P.H.I., Jayatissa, L.P, (2017) Determination of Total vitamin C content and the anti-oxidant capacity of selected underutilized fruits in Sri Lanka and the Stability of vitamin C under different storage conditions, International Symposium on Agriculture and Environment (ISAE 2017), Colombo, Sri Lanka.

39) **Vajira P. Bulugahapitiya**, A. A.M.B. Munasinghe, Menik L Hettihewa ,Nubuhiro Kihara (2017), Identification of Bergenin and a diastereoisomer of Bergenin from the herb, *Flueggea leucopyrus* Willd as potent anti-cancer agents, against Human Ovarian

Carcinoma , International Symposium on Traditional and Complementary Medicine (TradMed 2017), Colombo, Sri Lanka.

38) **Vajira P. Bulugahapitiya**, L.A. S. Priyangika, “Analysis of nutrient compositions in commercially available selected, processed dry food products and instant dry food mixtures”, 4<sup>th</sup> Ruhuna International Science and Technology Conference -2017, Faculty of Science, University of Ruhuna, Matara, Sri Lanka 2017

37) **Vajira P. Bulugahapitiya**, A. A. M. B. Munasinghe, Nobuhiro Kihara, Menik L. Hettihewa Isolation and characterization of novel anti-cancer compounds against human ovarian carcinoma from the medicinal herb, *Flueggea leucopyrus*. Willd. NSF Research Summit, 7-8 July, 2016, BMICH, Colombo.

36) **Vajira P. Bulugahapitiya**, A. A. M. B. Munasinghe, Nobuhiro Kihara, Menik L. Hettihewa (2016), “Evaluation of Anti-Oxidant Power of *Flueggea leucopyrus*. Willd, a Medicinal Herb Used as Complementary Medicine for Cancer and Characterization of New Anti-Cancer Compounds”, 18th International Conference on Natural Products and Drug Discovery to be held in Kuala Lumpur, Malaysia, February, 11-12, 2016 .

35) Munasinghe A.A.M.B, Hettihewa LM, **Bulugahapitiya V.P** (2016), “ Cytotoxic and anti-hTERT Activity of *Fluggea Lucopyrus* Willd. Studies on Human Ovarian Carcenoma cells”, 13<sup>th</sup> Academic Sessions, , University of Ruhuna, Sri Lanka.

34) **Vajira.P.Bulugahapitiya**, Liyanagamage D.S.N.K Investigation (2016), Antioxidants Properties and Corrosion Inhibition Properties of Fruits of *Dilenia retusa*, “Godapara” and Preparing Silver Nanoparticles using Fruit Extracts 10<sup>th</sup> Academic Sessions, March, 2016, University of Ruhuna, Sri Lanka

33) **Vajira P. Bulugahapitiya** and L.A S. Priyangika (2016), Investigation of toxicity, proximate and antioxidants capacity of the leaves of ”thebu”, *Coctus specioses* (Koenig) Sm grown in Sri Lanka, 3<sup>rd</sup> Ruhuna International Science and Technology Conference, January 2016. University of Ruhuna, Sri Lanka.

32) **Vajira. P. Bulugahapitiya**, Munasinghe, M.M.A.B (2015), “Eco-friendly synthesis of Silver nanoparticles functionalized with *Flueggea leucopyrus* (Willd) bark extract, Proceedings of 2<sup>nd</sup> Ruhuna International Science and Technology Conference, 22-23, January 2015. University of Ruhuna, Sri Lanka.

31) **Vajira. P. Bulugahapitiya**, Munasinghe M.M.A.B, Nobuhiro Kihara, Menik Hettihewa (2014), “ Scientific investigation of *F.leucopyrus* (Willd), isolation and characterization of potential compounds present in the plant.” Sri Lanka Japan Collaborative Research, 15<sup>th</sup> December 2014, Kandy, Sri Lanka.

- 30) Paranamana N., Radampola, K. and **Bulugahapitiya, V. P.** (2014). Growth performance of Guppy fry fed on diets contains Jack fruit seed meal as partial replacement of Fishmeal. ISC 2014, International Science Congress, 8<sup>th</sup> and 9<sup>th</sup> December 2014, Pacific University, Udaipur, Rajasthan, India.
- 29) **Vajira. P. Bulugahapitiya**, Munasinghe M.M.A.B, Menik Hettihewa (2014). "Investigation of phytochemicals, nutrients and major elements in the leaves and the bark of *Flueggea leucopyrus* (Willd.)". 2<sup>nd</sup> Annual International Research Symposium, 29<sup>th</sup>-30<sup>th</sup> October 2014, Rajarata University of Sri Lanka, Mihintale.
- 28) Paranamana N., Radampola, K. and **Bulugahapitiya, V. P.** (2014). Major nutrients and anti-nutrients found in leafy vegetables; potential to use in fish feed. Winc 2014, the Wayamba International Conference, 29<sup>th</sup> July and 30<sup>th</sup> August 2014 Wayamba University, Sri Lanka.
- 27) Paranamana N., Radampola, K. and **Bulugahapitiya V. P.** (2014). Chemical Analysis of selected by-products and waste matter of various industries for fish feed preparation. i-PURSE, International Research sessions, 04<sup>th</sup>- 05<sup>th</sup> July 2014, University of Peradeniya, Kandy, Sri Lanka.
- 26) **Vajira P. Bulugahapitiya**, Green Method of Converting Atmospheric Pressure Carbon dioxide into Industrial carbonates, Proceedings of the International Conference on Chemical education, April, 3<sup>rd</sup>- 4<sup>th</sup>, 2014, Colombo, Sri Lanka.
- 25) **Bulugahapitiya V.P**, Munasinghe M.M.A.B · Investigation of Cytotoxicity by *Brine Shrimp Assay and Total Phenolic Content of Flueggea leucopyrus (Willd.)*, 11<sup>th</sup> Academic Session, March, 2014, University of Ruhuna, Matara.
- 24) Paranamana N., Radampola, K. and **Bulugahapitiya V. P.** (2014). Nutritional Composition of Selected Animal Based Feed Ingredients for Fish Feed Preparation. YSF (Young Scientists Forum) Symposium, 09<sup>th</sup> February 2014, HARTI, Colombo, Sri Lanka.
- 23) **Vajira P. Bulugahapitiya**, G.A.N.SGajaweera, Qualitative and Quantitative Investigation of Phytochemicals present in the leaves of Thebu, *Costus speciosus*, January, 22-24, 2014, RISTCON, Faculty of Science, University of Ruhuna. Matara, Sri Lanka.
- 22) N.Paranamana, K.Radampola, **V.P. Bulugahapitiya**, Nutritional and anti-nutritional contents of alternative plant feed ingredients for fish feed formulations, January, 22-24, 2014, RISTCON, Faculty of Science, University of Ruhuna. Matara, Sri Lanka.



- 21) **Vajira P. Bulugahapitiya\***, BK Sisila Maduranga and Nilushi Paranamana (2013), Investigation of Cytotoxicity of *Fluggea leucopyrus* using Brine Shrimp Cytotoxicity Assay, Proceeding and Abstracta of 9<sup>th</sup> Ruhuna Science Symposium, University of Ruhuna, Matara, Sri Lanka.
- 20) **Vajira P. Bulugahapitiya**, Nobuhiro Kihara (2012), Synthesis of novel catalyst for regioselective Diels-Alder reaction, First International Conference on Advanced Material, Science and Engineering (ICAMSE), Colombo, Sri Lanka.
- 19) **Vajira P. Bulugahapitiya**, D.T.H Samaraweere (2011), Preliminary investigation on phytochemicals present in *Bauniaracemosa* and test for the anti-bacterial effect, Proceeding of the 8<sup>th</sup> Science symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 18) **Bulugahapitiya V.P.** and Maduranga B.K.S. (2010), Investigation of anti oxidant activity of *Fluggea leucopyrus*, Proceeding of the 8<sup>th</sup> Academic session, University of Ruhuna, Matara, Sri Lanka.
- 17) D.V.D. Hemalika and **Vajira P. Bulugahapitiya** (2010), Investigation of Lead (Pb) content in *Ipomea aquatica* (kankun) grown in the Matara area, Proceeding of the 7<sup>th</sup> Science symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 16) **Vajira P. Bulugahapitiya**, W.M.C.S. Wijesinghe (2009), Preliminary studies of the seed of *Aleurites moluccanato* find out the cytotoxic compounds and the preparation of biodiesel. 6<sup>th</sup> Science symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka
- 15) S.R. Ganegamage and **V.P. Bulugahapitiya** (2009), Green Method for the treatment of waste water from Service station, Proceedings of the 6<sup>th</sup> Science Symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 14) **Vajira P. Bulugahapitiya**, Syed Ghulam Musharaff (2008), Biotransformation of Nootkatone using *Macrophomina phaseolina*, 5<sup>th</sup> Science Symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 13) **Vajira P. Bulugahapitiya**, P.T.C. Kirinde Arachchige (2007), Mosquito repellent compounds from the seeds of *Nigella sativa* L (Black cumin), Proceedings of the Fourth Academic Sessions, University of Ruhuna, Sri Lanka pp 151-158.
- 12) Akihito Narita, Yunika Tagchi, Hiroyaki Yasutake, Nobuhiro Kihara, Wasuka Mori and **Vajira P. Bulugahapitiya**, (2007), Construction of nanoporous materials functionalized by axial chirality: 3<sup>rd</sup> International symposium on Chemistry on Coordination Space, Awaji, Hyogo, Japan.

- 11) Vajira P. Bulugahapitiya**, P.T. Kiriède Arachchi (2006), Cytotoxic compounds from the seeds of *Nigella sativa* L, Proceeding of the 4<sup>th</sup> Science Symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 10) Vajira P. Bulugahapitiya**, Subashini S.A.D (2005), Secondary metabolites present in fruit rinds of *Garcinia cambogia*., 3<sup>rd</sup> Science Symposium, Faculty of Science, University of Ruhuna, Matara, Sri Lanka.
- 09) Vajira.P. Bulugahapitiya** (2004), A preliminary chemical study on secondary metabolites present in fruits of *Memordicadioica*; Proceedings of the 2<sup>nd</sup> Academic Sessions, University of Ruhuna, Matara, Sri Lanka.
- 08) Vajira P. Bulugahapitiya**, Philippe Renaud (2003), Promising system to reduce epimerization: Stereoselective synthesis of  $\alpha$ -amino compounds via cyclic  $\alpha$ -amido radicals; 1<sup>st</sup> Academic Session, University of Ruhuna, Sri Lanka, pp 143-147.
- 07) Vajira P. Bulugahapitiya** , R.P.S.D.S. Chandanie (2002), Preliminary screening of solvent extracts of leaves, barks and roots of *Hemidesmus indicus* for different types of secondary metabolites; Proceeding of the 1<sup>st</sup> Science Symposium, Faculty of Science, University of Ruhuna, Sri Lanka, pp 35-38.
- 06) Vajira P. Bulugahapitiya**, Philippe Renaud (2002), Highly Stereo selective Synthesis of Bicyclic Hydroxy acid derivatives:  $\text{Co}_2(\text{CO})_8$  mediated Cyclization of  $\alpha, \alpha$ -disubstituted 1,3-dioxolones, Proceedings of the 58<sup>th</sup> Annual Session, Sri Lanka Association for the Advancement of the Science (SLAAS), Colombo.
- 05) Vajira P. Bulugahapitiya**, Philippe Renaud (2001), Reductive and alkylative decarboxylation of amino acids with the retention of the optical activity: New approach to  $\alpha$ -amino compounds, Proceedings of the 57<sup>th</sup> Annual session, Sri Lanka Association for the Advancement of Science (SLAAS), Colombo.
- 04 Liliana Parra Rapado, **Vajira P. Bulugahapitiya** and Philippe Renaud (1999), Synthesis of non-racemic  $\alpha$ -HydroxyCycloalkenecarboxylic Acid Derivatives by metathesis of  $\alpha \alpha$ -dialkylatedGlycolate Derivatives, Third international Electronic Conference on Synthetic Organic Chemistry (ECSOC-3), France.
- 03) Vajira P. Bulugahapitiya**, P. Renaud, A.Stojanovic (1999), Chiral Cyclic  $\alpha$ -Hydroxy acids from a chiral equivalent of Glycolic Acid, New Swiss Chemical Society, Autumn Assembly, Lausanne, Switzerland.
- 02) Vajira P. Bulugahapitiya**, P. Renaud, A. Stojanovic, Reductive and Alkylative Decarboxylation of N-protected Amino acids (1997), New Swiss Chemical Society, Autumn Assembly, Lausanne, Switzerland.

- 01) **Vajira P. Bulugahapitiya**, P. Renaud, A. Stojanovic (1997), Alkylative Decarboxylation of Amino Acids with retention of the optical activity, 36<sup>th</sup> IUPAC Congress, Geneva, Switzerland.

## Google Scholar Citation ; November, 2018

(<https://scholar.google.com/citations?user=qDjJdwAAAAJ&hl=en&authuser=1>)

## Vajira P. Bulugahapitiya

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Organic Chemistry Natural product Chemistry

### Cited by VIEW ALL

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	All	Since 2013
<u>Citations</u>	161	46
<u>h-index</u>	4	3
<u>i10-index</u>	2	1

### Books and Magazines

1. “Carbon and its compounds”

Author: Vajira P. Bulugahapitiya (2013),

Published by Stanferd Lake Publishers, Colombo.

2. “Plant Based Natural Products: Extraction, Isolation and Phytochemical Screening Tests “

Author: Vajira P. Bulugahapitiya (2013).

3. “Common Practices and General Techniques in a Chemistry Laboratory”

Author: Vajira P, Bulugahapitiya (2013).

4. “Reactive Intermediates”

Author: Vajira P. Bulugahapitiya (2013).

### Editing & Editorial Board

“Collection of research abstract, Department of Chemistry, University of Ruhuna”,

Editor: Vajira P. Bulugahapitiya (2012).

Editorial Board Member : UoR Highlights, Biannual News Letter University of Ruhuna  
(2013 to date)

Member of Editorial Board, Ruhuna Journal of Science, Volume-1 (2006)

### **News Articles in News Papers/Magazines**

- “ඖෂධීය ශාක වල පිළිකා නිවාරන ගුණය” Vidusara , January, 2013
- “කාබන් වලට කළහැකි දේ පුදුම සහගතය” Scientific Magazine, St. Meris Convent, Matara, 2009.
- “එදිනෙදා ජීවිතයට කාබන්” Vidatha Magazine, Sumana Balika Vidyalaya, Ratnapura, 2010
- “Metal Organic Framework”, Chemistry in Ceylon, 2013.

### **Experience as a Reviewer, Evaluator and Selection Panel member**

- Served as a reviewer for reviewing abstracts, extended abstracts in local and international conferences ( State universities and SLAAS).
- Served as a reviewer for research grant proposal of University of Kelaniya, Open University Sri Lanka.
- Served as a selection panel member for promotion to professor position for academic in different universities (University of Colombo, Kelaniya, Peradeniya, Sri Jayawardhanapura, Open University Sri Lanka).
- Served as an evaluator for oral presentations in local and international conferences.
- Served as an evaluator in postgraduate progress presentation, University of Ruhuna.

### **Contribution to Institutional Development**

- Chairperson, 16<sup>th</sup> Academic Session and 15<sup>th</sup> Vice Chancellors awards ceremony, University of Ruhuna, 2018/2019 (held on 6<sup>th</sup> March, 2019)
- Head of the Department of Chemistry, University of Ruhuna, December, 2013 to date
- Technology Transfer Officer, Faculty of Science, University of Ruhuna – 2018 to date
- Serving as the member of Research Committee as a Professor and Head of the Department
- Serving as a member of Board of Study, Faculty of Science.
- Faculty Representative, Faculty of Science, Editorial Board of Ruhuna University News Letter, 2015.
- Faculty Representative, Faculty of Science, Organizing Committee of the Academic Session, 2016.
- Overall Coordinator, Oratory Competition of the University of Ruhuna, 2013.
- Warden for Female Hostels, University of Ruhuna, Wellamadama, 2011 up to date
- Career guidance representative of Faculty Science -Conducting Career Fair at the Faculty of Science, University of Ruhuna, 2011 and 2012
- Secretary, 9<sup>th</sup> Science Symposium, Faculty of Science, University of Ruhuna, 2012

- Senate representative, Faculty of Science, University of Ruhuna (2011-2013)
- Acting Head / Chemistry, Department of Chemistry, University of Ruhuna. (2010).
- Serving as a member of Preliminary and Formal Inquiry Committees, university of Ruhuna, 2009-2011.
- Carrier Advisor, Faculty of Science, 2006 and 2009 - 2013
- Course coordinator for Inter-Faculty courses, Faculty of Science, University of Ruhuna, 2008 onwards
- Joint Secretary of Ruhuna Science Teachers Association, Faculty of Science, 2008- 2012
- Student counsellor, Faculty of Science, 2002-2006, 2008-2010
- Mentor, Faculty of Science, University of Ruhuna , 2008- 2013
- Coordinator of Ruhuna University Service Laboratory, 2008 onwards.
- Initiated Exchange Programme for Academic and Researches between Kanagawa University Japan and University of Ruhuna (MOU signed in 2008)
- Proposal Writer, IRQUE project, Faculty of Science, University of Ruhuna, Sri Lanka (2005).
- Joint secretary, Alumni association, University of Ruhuna, Matara (2003- 2006).
- Serving as a member of Logistic Committee of Silver Jubilee, University of Ruhuna, 2003.

### **Contribution to National Level**

- Serving as a reviewer in Institutional Review of universities , 2018
- Serving as a reviewer in Program Review of Non-state sector , 2018-2019
- Resource person for preparing Advanced Level Resource Book, NIE, 2017-2018
- Reviewer of the Advanced Level Chemistry syllabus – 2015
- Resource person in Advanced Level Chemistry workshop for Teachers in Southern province.
- Rappoteur, E-2 Section, Sri Lanka Association for the Advancement of Science ( 2004-2005)
- Steering Committee member of Young Scientists Forum, Sri Lanka, (2004)
- Supporting to hold the Techo Lanka Exhibition, 2004
- Committee member, E-2 Section, Sri Lanka Association for the Advancement of Science (2003)
- Serving as the Chief Examiner of A/L Chemistry Evaluation and Re-scrutiny process (2003-2011 and 2014 to present)
- Organizing Workshops for Teachers of Advanced Level Chemistry, 2003, 2009

- Conducting Seminars for Advanced Level students , 2003, 2010, 2011
- Participating in Sri Lanka Conferences in Science and Technology to prepare the recommendation for the Development of Science and Technology Sector(BICOST) in Sri Lanka
- Serving as the Supervisors for conducting International Chemistry Quiz organized by Institute of Chemistry, Ceylon 2003 -2012

## **Memberships**

### **Members of the Ad-hoc Committees of the University**

- Member of Science Faculty Research Committee 2013 onwards
- Member of Science Faculty Equipment Committee., 2012 onwards
- Member of Anti-ragging Committee, 2010
- Member of Student Request Committee , 2006
- Member of Tsunami Relief Committee, 2005
- Member of the ITRC Committee, Faculty of Science, University of Ruhuna, 2004.
- Member of the committee of Avoid Road Accident, 2004

### **Memberships in Learned Societies**

- Member of NAM S & T Centre, India
- Life member of Sri Lanka Association for the Advancement of Science (SLAAS), Sri Lanka
- Life Member of Institute of Chemistry, Ceylon.
- Member of Young Scientist Forum, Sri Lanka.

### **Serving as a visiting Lecturer**

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- Visiting lecturer in Medical Laboratory course, Faculty of Medicine, University of Ruhuna , 2009 onwards
  - Visiting Lecturer , Faculty of Fisheries and Marine Sciences, University of Ruhuna , 2016 todate.
- Visiting lecturer in B.Pharm degree course, Faculty of Medicine, University of Ruhuna 2008 onwards
- Visiting lecturer in Pharmaceutical Chemistry, B.Sc. Special Degree in Pharmacy, University of Colombo, Colombo, Sri Lanka. 2005-2006.

- Visiting lecturer, M.Sc course in Biotechnology and Molecular Biology, University of Ruhuna, Matara, Sri Lanka. 2008

### **Resource person in preparing and reviewing of Curriculum - Chemistry**

- Resource person in curriculum preparing workshop- B.Pharm Degree course , Faculty of Medicine, University of Ruhuna. ( 2007- 2008)
- Resource person in curriculum reviewing / preparing (General Degree - three year and four year & Special Degree in Chemistry) Department of Chemistry Faculty of Science, University of Ruhuna ( 2000 - 2018)
- Preparing of courses in Organic Chemistry ,Department of Biosystem Technology, Faculty of Technology, University of Ruhuna ( 2017-2018).

### **Serving as the Examiner for Postgraduate degrees**

- MSc in Analytical Chemistry, University of Colombo, 2007
- MPhil in the University of Ruhuna
- PhD in Organic Chemistry, Andra University, India, 2013

### **Attending in Workshops, Symposium, National and International Conferences**

- 15<sup>th</sup> Academic Session & 14<sup>th</sup> Vice Chancellor Awards ceremony-2018, University of Ruhuna.
- International Symposium on Agriculture and Environment (ISAE 2017), Colombo, Sri Lanka.
- 73<sup>rd</sup> Annual Session (2017), Sri Lanka Association for the Advancement of Science (SLAAS), Colombo, Sri Lanka
- International Symposium on Traditional and Complementary Medicine (TradMed 2017), Colombo, Sri Lanka.
  - .NSF Research Summit, 7-8 July, 2016, BMICH, Colombo.
- 1<sup>st</sup> International Conference on Bioscience and Biotechnology – January,2016 Colombo.
- 18th International Conference on Natural Products and Drug Discovery to be held in Kuala Lumpur, Malaysia, February, 11-12, 2016 .
- Institutional Reviewers Training Workshop , 2015, Katunayake
- SLAAS Theme seminar, December, 2015, Colombo.
- National Consultative Workshop on Strengthening and Roadmapping of Emerging Technology Innovation Systems of Sri Lanka (COSTI) Nov. 2015, Colombo.
- Workshop on How to operate SLQF, 2015, Colombo.

- International Conference on Chemical Science 2012, organized by IUPAC, RSCNSF and OPCW on 20<sup>th</sup>- 22<sup>nd</sup> , 2012 , Colombo.
- 3<sup>rd</sup> International Conference on Medicinal Plants and Herbal products, organized by Faculty of Medicine and Institute of Indigenous Medicine of University of Colombo and University of Sri Venkateswara, India on 19<sup>th</sup> -21<sup>st</sup> , December, 2011
- Workshop on Bioassays for Natural Products Research at IFS, Kandy on 25<sup>th</sup>-26<sup>th</sup> March, 2010.
- Participating in workshop on Self Evaluation and Subject Review, organized by University of Ruhuna on 24<sup>th</sup> July 2008
- The International Conference on New Direction in Teaching, Learning and Evaluation of Chemical Science at the Tertiary Level, organized by University of Kelaniya with IUPAC, RSC, UGC and SLAAS on 11<sup>th</sup> -12<sup>th</sup> March, 2006
- International Symposium on Herbal Medicines, Phyopharmaceuticals and other Natural Products: Trends and Advances, organized by ITT, Sri Lanka and NAM S&T Centre, India on 15<sup>th</sup> – 17<sup>th</sup> June, 2005.
- Participating in SLAAS Annual Sessions in Sri Lanka 2002-2012
- Participating in Technical Sessions of Institute of Chemistry, Ceylon, 2004-2012
- Workshop on Research & Development: The need for a new Research Culture organized by NASTEC , Sri Lanka at ICT Auditorium, University of Colombo on 21<sup>st</sup> December, 2004.
- Silver Jubilee Conference on Chemical Education for National Development, organized by Institute of Chemistry, Ceylon on 29<sup>th</sup> -30<sup>th</sup> April, 2004
- Theme Seminar on Herbal Medicines for the People, organized by SLAAS on 10<sup>th</sup> December, 2003
- Training seminar / workshop on Industrial Processing, distillation, Solvent Extraction and Quality Assurance of Essential Oil and Oleoresins, organized by ITI, Sri Lanka on 09<sup>th</sup> July, 2003.

## Personal Profile

- Date of Birth : 08 November, 1965
- Nationality : Sri Lankan
- Gender : Female
- Marital Status : Married (two children)

## Referees



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