

Summary of Curriculum Vitae

- ✦ Raseetha Vani Siva Manikam
- ✦ Female, Malaysian, 35 years old.
- ✦ Has about 9 years teaching experience.
- ✦ Teaching subject: Food Chemistry II & Instrumental Analysis of Foods
- ✦ Proficient in Microsoft Office, Unscrambler, SPSS and ChemDraw
- ✦ Proficient in spoken & written English, Tamil and Malay.
- ✦ Contact : raseetha_vani@yahoo.com



ACADEMIC QUALIFICATION

- Senior Lecturer, Universiti Teknologi MARA (Jun 2014-current)
- Postdoctoral Research Fellow, University of Malaya (Oct 2013-Feb 2014)
- PhD (Food Science), University of Otago, New Zealand (2013)
- M.Sc Chemistry (Analytical & Instrumental), University of Malaya (UM), KL (2008)
- BSc Hons Industrial Chemistry, University Technology Malaysia (UTM), JB (2005)
- SPM; 1st Grade, King George V Secondary School (SMKGV), N.Sembilan (2000)

CAREER OBJECTIVES

Highly self-motivated and goal-oriented professional committing to pursuing a long-term career in academic field that maintains the quality of delivering lectures in order to fulfill the students' requirements in their respective studies and altogether helps the institution to expand its wings globally. Besides that I hope to advance in this field and to seek a challenging kind of position in any organization that would permit me an opportunity to translate and establish management skills, interpersonal skills and knowledge of science for improvement and growth.

RESEARCH INTEREST

Research interest is in the field of food science and technology based on valorization of fruits and vegetable waste. Research interest is also focused in the nutritional and medicinal values of mushrooms. Research background diversified in the field of food chemistry, postharvest technology and mycology.

Current research interest is mainly focused on isolation of chlorogenic acid (CGA), a phenolic acid, which possess antioxidant and anti-inflammatory properties. CGA that could be extracted from waste food materials could be utilized as it is believed to contain slimming effect onto human.

RESEARCH GRANTS/SCHOLARSHIPS/AWARDS/DISTINCTIONS

- Travel grant from Korean Diabetes Association – USD 1000 to attend conference (Sept 2017)
- Lestari Grant Scheme from Universiti Teknologi MARA entitled: Potential use of lactic acid by lactobacillus consortium for quality improvement of oyster mushroom (pleurotus sajor-caju), RM20,000, Member (2017-2019)
- Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education entitled: Elucidating the potential of tannase production from agri-industrial residues via solid state fermentation, RM70,471.70, Member (2016-2019)
- Fundamental Research Grant Scheme (FRGS) from Ministry of Higher Education entitled: Assessment from bacterial polymer from agricultural waste as feed in the preparation of polymer electrolytes, RM 100 000, Member (2016-2019)
- Research Acculturation Grant Scheme (RAGS) from Ministry of Higher Education entitled: Potential source of chlorogenic acid as weight loss stimulant from food manufacturing waste, RM 80 000, Principal Investigator (2014-2017)
- Research Acculturation Collaborative Effort (RACE) from Ministry of Higher Education entitled: The role of glucagon like peptide-1 (GLP-1) on peripheral tissues (muscle, liver and adipose) in type-2 diabetes mellitus (T2DM), RM 50 000, Member (2015-2018)
- University of Otago Dr Sulaiman Daud PhD Scholarship – NZD 25,000 per/annum (2009-2012)
- Travel grant from NZ Institute of Food Science & Tech – NZD 1000 to attend conference (June 2010)
- Travel grant from CSIRO, Australia – AUD 500 to attend conference (Aug 2010)

EMPLOYMENT HISTORY

Institution Name : Universiti Teknologi MARA
Position : Senior Lecturer
Duration : June 2014 – current
Reason for leaving : NA
Duties :

- Supervise students' during their laboratory practical & mark their laboratory reports;
- Teaching modules; Food Chemistry II (FST653) and Instrumental Analysis of Foods (FST606) for 3rd year students
- 2 MSc student and 8 undergraduate students

Institution Name : University of Otago, New Zealand
Position : Demonstrator
Duration : Feb 2010 – Oct 2011
Reason for leaving : end of contract.
Duties :

- Supervise students' during their laboratory practical & mark their laboratory reports;
- Feb – June 2010; Food Systems (FOSC 202)
- Feb – June 2011; Food Chemistry I (FOSC 201)
- July – Oct 2011; Food Systems (FOSC 202)

Institution Name : Nilai University, Malaysia
Position : Lecturer Rank II
Duration : 28th Dec 2008 – 4th Sept 2009
Reason for leaving : to further studies (PhD)
Duties :

- Conduct lectures for Introductory Chemistry (CHM 130) for Year 1-Diploma in Biotechnology
- Conduct lectures for General Chemistry I (CHM 142) for Year 1-Foundation in Science
- Conduct lectures for Chemistry for Engineering (CHM 161) for Year 1-Diploma in Engineering
- Supervise students' during their Chemistry laboratory practical & mark their laboratory reports.
- Teaching load : Semester Jan 2009 (11 hours)
Semester May 2009 (17 hours)

Institution Name : University of Malaya, Malaysia
Position : Tutor/demonstrator
Duration : 16th July '07 – 16th Dec 2008
Reason for leaving : end of contract.
Duties :

- Conduct tutorial classes for General Chemistry & Chemistry courses (preparation for Japan programme) and to monitor their continuous assessments.
- Supervise students' during their Chemistry laboratory practical & mark their laboratory reports.

Company Name : Chemical Industries (Far East) Ltd, Singapore
Position : Lab Technician
Duration : 28th March '06 – 17th March '07
Reason for leaving : to further studies (MSc)
Duties :

- Analyze product samples of caustic soda, sodium hypochlorite, acid hydrochloric and liquid chlorine by titration, filtration, density measurement, UV-Vis spectrophotometer, Gas Chromatography and Inductively Coupled Plasma at Chemical Industries.
- Analyze COD level in waste water at Chemical Industries.
- Involved in waste water treatment activities at Chemical Industries.

Company Name : Hi-Speed Supplies Sdn. Bhd., N.Sembilan, Malaysia
Position : QC Executive
Duration : 11th July '05 – 21st March '06
Reason for leaving : opportunity to work in Singapore.
Duties :

- Control the quality of various beverages produced including the raw material, pre-process, filling, packaging, storage & dispatch at Hi-Speed Supplies.
- Control the hygiene of pre-process according to HACCP at Hi-Speed Supplies.
- Conduct microbiological test on beverages at Hi-Speed Supplies.
- Involved in waste water treatment activities.
- Involved in water purification steps (to be used for manufacturing) using carbon filtration.

PUBLICATIONS

- Raseetha, S., Nurul-Nabilah, M., Zulkifli, M. F. and Ismail, W. I. W. Inhibition of lipid accumulation in 3T3-L1 adipocytes by chlorogenic acid derived from green coffee (*Robusta* sp.) beans and pulps, *Malaysian Applied Biology Journal*, 46(4):1-8. [Accepted/In-press, Peer reviewed]
- Raseetha, S., Rajikin, N., Haiyee, Z. A., Ismail, W. I. W. (2016). Assessment of antioxidant activity and total phenolic content from green coffee *Robusta* Sp. beans. *Malaysian Journal of Analytical Sciences* (DOI:http://dx.doi.org/10.17576/mjas-2016-2005-zz) [Peer reviewed, Impact factor 0.035]
- Raseetha, S. and Nadirah, S. (2017). Effect of different packaging materials on quality of fresh-cut broccoli and cauliflower at chilled temperature. *International Food Research Journal* (accepted) [Peer reviewed, Impact factor: 0.144]
- Raseetha, S. and Abdullah, N. (2016). Implications of inappropriate storage temperatures in harvested green coffee (*Robusta* sp.) beans to antioxidant properties and polyphenol oxidase activity. *Transactions on Science and Technology*, 3(1-2), 193 - 202 [Peer reviewed]
- Raseetha, S., Oey, I., Hamid, N. and Burritt, D. J. (2014). Monitoring colour, volatiles in the headspace and enzyme activity to assess the quality of broccoli florets (*Brassica oleracea* L. *italica* cv. *Bellstar* and *Legacy*) during postharvest storage. *International Journal of Food Science & Technology*, International Journal of Food Science & Technology, 49, 280–287, [Peer reviewed, Impact factor: 1.384]
- Raseetha, S., Oey, I., Burritt, D. J., Heenan, S. and Hamid, N. (2013). Evolution of antioxidant enzymes activity and volatile release during storage of processed broccoli (*Brassica oleracea* L. *italica*). *LWT-Food Science and Technology*, 54, 216–223 [Peer reviewed, Impact factor: 2.545]
- Raseetha, S., Leong, S. Y., Burritt, D. J., and Oey, I. (2013). Understanding the degradation of ascorbic acid and glutathione in relation to the levels of oxidative stress biomarkers in broccoli (*Brassica oleracea* L. *italica* cv. *Bellstar*) during storage and mechanical processing. *Food Chemistry*, 138: 1360-1369 [Peer reviewed, Impact factor: 3.655]
- Raseetha, S., Heenan, S. P., Oey, I., Burritt, D. J., Hamid, N. (2011). A new strategy to assess the quality of broccoli (*Brassica oleracea* L. *italica*) based on enzymatic changes and volatile mass ion profile using Proton Transfer Reaction Mass Spectrometry (PTR-MS). *Innovative Food Science and Emerging Technologies*, 12(2): 197-205 [Peer reviewed, Impact factor: 3.030]
- Raseetha Vani, S. Cheng, S. F. and Chuah, C. H (2009). Comparative study of volatile compounds from genus *Ocimum*, *American Journal of Applied Sciences* 6 (3): 523-528 [Peer reviewed, Impact factor: 0.417]

CONFERENCES

- Oral presenter, International Congress of the Malaysian Society for Microbiology, 4th – 7th December 2017, Putrajaya, Malaysia.

- Poster presenter, International Congress of the Malaysian Society for Microbiology, 4th – 7th December 2017, Putrajaya, Malaysia.
- Poster presenter, Malaysian Science and Technology Congress, 30th Oct – 1st Nov 2017, UPM, Serdang, Malaysia.
- Poster presenter, International Cell Signalling Conference, 24-26th July 2017, Terengganu, Malaysia.
- Poster presenter, International Food Research Conference, 25-27th July 2017, UPM, Serdang, Malaysia.
- Oral presenter, 30th EFFoST International Conference: Targeted Technologies for Sustainable Food Systems, 28th -30th Nov 2016, Austrian Economic Chamber, Vienna, Austria.
- Oral presenter, International Conference on Science and Natural Resources 2016, Kota Kinabalu, Sabah, Malaysia
- Poster presenter, 28th Regional Symposium of Malaysia Analytical Sciences 2015, Perak, Malaysia
- Poster presenter, Institute of Food Technologists (IFT) Annual Meeting and Food Expo 2012, Las Vegas, Nevada, USA
- Poster presenter, The New Zealand Institute of Food Scientist and Technologist (NZIFST) Conference 2012, Hamilton, New Zealand
- Poster presenter, US-NZ Science and Technology Workshop 2011, Dunedin, New Zealand
- Poster presenter, Consumer and Applied Sciences Centenary Conference 2011, Dunedin, New Zealand
- Poster presenter, The New Zealand Institute of Food Scientist and Technologist (NZIFST) Conference 2010, Auckland, New Zealand
- Mini oral and poster presenter, 5th Innovative Foods Conference (FIESTA) 2010, Melbourne, Australia
- Oral Presenter, 4th Mathematical & Physical Science Graduates Congress 2008, National University of Singapore, Singapore
- Oral Presenter, Malaysian International Conference on Essential Oils, Flavor & Fragrances 2008 at PWTC, Kuala Lumpur, Malaysia
- Poster Presenter, 3rd Mathematical & Physical Science Graduates Congress 2007, University of Malaya, Malaysia

RESEARCH BACKGROUND

- Nutritional composition in mushroom & mushroom based products
- Isolation of bioactive compound (chlorogenic acid) from food manufacturing waste as potential sliming agent (current research)
- Understanding the quality changes of broccoli by identifying the markers that could be related to oxidative stress during storage (PhD research)
- Analysis of volatiles/essential oil profiles from Ocimum species-medicinal plant (MSc research)
- Determination of ascorbic acid in orange juices using polarography (work related)
- Analyze the reduction of methane gas emission on landfill cover soil using Gas Chromatography (work related)
- Analysis of ethanol (alcohol) present in Non Alcoholic Beverages using UV-Vis Spectrophotometer (BSc research)

PERSONAL STRENGTHS

- Able to communicate effectively to people from all walks of life
- Fast learning and adapting capabilities
- Ability to adapt to new environment quickly and effectively
- Leadership and strong desire to success
- Skilled at handling UV-Vis, ICP, IR, NMR, GC and Mercury Analyzer
- Familiar with ISO 9001, ISO 14000, ISO 17025 documentations'
- Executive Committee Member of Malaysian Mushroom Research Association
- Member of Malaysian Society of Waste Management Experts
- Postgraduate representative and member of The New Zealand Institute of Food Science and Technology Inc (NZIFST)
- Member of The Otago Institute
- Reviewer for Journal of Agricultural and Food Chemistry (ACS Publications) since Sept 2011

- National Editor for Transactions on Science and Technology since April 2016

SKILLS

IT skills : Microsoft Office (Word, Excel and Power Point), Unscrambler, SPSS statistics, Adobe Photoshop, Paint,

Chem 3D, Chem Sketch

Language Spoken : English, Malay, Tamil

Language Written : English, Malay, Tamil

Referees

- Associate Prof Dr Rozi Ahmad, +60193815510, Universiti Teknologi MARA, Malaysia, rozitex@salam.uitm.edu.my (Head of Dept)
- Prof Dr Indrawati Oey, +6434798735, University of Otago, New Zealand, indrawati.oey@otago.ac.nz (PhD project supervisor)
- Prof Dr Chuah Cheng Hock, +6012 – 2275816, University of Malaya, Malaysia, chchuah@um.edu.my (MSc project supervisor)