europass | Curriculum Vitae | Prof. Dharini Sivakumar

PERSONAL INFORMATION

JOB APPLIED FOR
WORK EXPERIENCE
POSITION
PREFERRED JOB
STUDIES APPLIED FOR
PERSONAL STATEMENT

Professor for module _AGR/12 (Plant pathology)

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Replace with dates (from - to)
EDUCATION AND TRAINING

~~Research Chair and Professor at the Tshwane University of Technology, Pretoria~~ West, South Africa. -2015 until now

Main activities; Responsible for postgraduate research training and Bachelors in Technology Postharvest technology course

Replace with dates (from - to)

PhD in Postharvest Technology, University of Colombo Sri Lanka

Specialised in postharvest pathology, technology

Associate Professor at Tshwane University of Technology, Pretoria West, South Africa.

MPhil. in Postharvest technology, University of Colombo Sri Lanka

Specialised in postharvest pathology, postharvest physiology and technology

Main activities; Teaching undergraduate students and Bachelors in Technology Postharvest technology course -2010 to 2015

Replace with EQF (or other) level if relevant

BSc Hons. University of Jaffna, Sri Lanka Botany

Professional researcher Department of Plant pathology, currently Plant and soil Science, University of Pretoria 2007 to 2010

Postdoctoral researcher Department of Plant pathology, currently Plant and soil Science, University of Pretoria 2004 to 2007

PERSONAL SKILLS

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Home language English

English is the home language, I speak, understand and write well.I Currently I am teaching all the courses in English. n

Other language(s)

AFRIKANS UNDERSTANDING VERY GOOD	SPEAKING FAIR	WRITING FAIR

Communication skills — Excellent communication skills in English

Organisational / managerial skills — Leadership : Currently I am managing 15 people in my research team :

Job-related skills

I have 10 years of teaching experience and use power presentations and slide shows, during teaching. Include pack house visits to familiarise the students to the problems assocatiated with the fruit industry. I have taught this course in **UNIVERSITA' POLITECNICA DELLE MARCHE in 2017, 2018.**

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Excellent	Excellent	Good	Good	Fair

Replace with name of ICT-certificates

Driving licence

Hold A South African driving licence to drive a motor car

ADDITIONAL INFORMATION

Publications I have published 98 research publications
Presentations 50 Conference presentations
Projects Handled almost 25 research projects
Awards Obtained university awards
Memberships .Member of ISHS (International Society for Horticulture)
Citations Google scholar H index 30 .

ANNEXES List of publications (last 10 years in the field of postharvest pathology)

Obianom, C.P., Romannazzi, G., Sivakumar D. 2019. Effects of chitosan treatment on avocado postharvest diseases and expression of phenylalanine ammonia-lyase, chitinase and lipoxygenase genes. Postharvest biology and technology 147 214-221

Romanazzi, G., Feliziani, E., Sivakumar D. 2019. Chitosan, a Biopolymer With Triple Action on Postharvest Decay of Fruit and Vegetables: Eliciting, Antimicrobial and Film-Forming Properties. Frontiers in Microbiology 9:2745

Obianom, C ., Sivakumar, D. 2018. Differential response to combined prochloraz and thyme oil drench treatment in avocados against the control of anthracnose and stem-end rot. . Pytoparasitica 46(8) DOI:

Obonom, C., Sivakumar, D. 2018. Natural plant volatiles as an alternative approach to control stem-end rot in avocado cultivars". Journal of Phytopathology **DOI:** 10.1111/jph.12653 1116 (1) 1-9 10.1007/s12600-018-0663-9

Glowacz, M., Roets, N., Sivakumar, D. 2017 Control of anthracnose disease via increased activity of defence related enzymes in 'Hass' avocado fruit treated with methyl jasmonate and methyl salicylate. Food Chemistry. 1;234:163-167

Bill, M., Korsten, L., Remize, F., Glowacz, M., Sivakumar D. Effect of thyme oil vapours exposure on phenylalanine ammonia-lyase (PAL) and lipoxygenase (LOX) genes expression, and control of anthracnose in 'Hass' and 'Ryan' avocado fruit. ScientiaHorticulturae 224:(20) 232-237

Mouatcho, J.C., Tzortzakis, N., Soundy, P,. SivakumarD. Bio-sanitation treatment using essential oils against E.coli 0157:H7 on fresh lettuce. New Zealand journal of crop and Horticultural Science 45 (3) 165-174

Romanazzi,G., Feliziani,E., Bautista Baños, S.,Sivakumar,D. 2017. Shelf Life Extension
of Fresh Fruit and Vegetables by Chitosan Treatment. Critical Reviews in Food Science and nutrition 57(3):579-601.

Khumalo, K, M.M. Tinyane, P.P., Soundy, P., Romanazzi,G M.M. Glowacz, Sivakumar D.2017 Effect of thyme oil vapour exposure on the brown rot infection, phenylalanine ammonia-lyase (PAL) activity, phenolic content and antioxidant activity in red and yellow skin peach cultivars. Scientia Horticulturae (214), 195-199.

Mari M, Bautista-Baños S, Sivakumar D. 2016. Decay control in the postharvest system: Role of microbial and plant volatile organic compounds ,Postharvest biology and Technology (22), 70-81

Cindi MD, Soundy P, Romanazzi G,Sivakumar D. 2016. Different defense respo nses and brown rot control in two Prunus persicacultivars to essential oil vapours after storage Postharvest Biology and Technology,119: 9-17

Tzortzakis N, Chrysargyris A, Sivakumar D, Loulakakis K. 2016. Vapour or dipping applications of methyl jasmonate, vinegar and sage oil for pepper fruit sanitation towards grey mould. Postharvest Biology and Technology, 118, 120-127

Cindi, M.D., .Shittu, T., Sivakumar, D., Bautista-Baños, S.2015. Chitosan boehmite-alumina nanocomposite films and thyme oil vapour control brown rot in peaches (*Prunus persica* L.) during postharvest storage. Crop Protection 71 , 27-131.

Bill, M., Sivakumar, D., Korsten, L., Thompson, A.K. 2014. Efficacy of the combined application of edible coatings and thyme oil to control anthracnose in avocado *(Persea americana* Mill.) during postharvest storage. Crop Protection 64, 159-167.

Sivakumar, D., Bautista-Baños.S. 2014. A review on the use of essential oils for postharvest decay control and maintenance of fruit quality during storage. Crop Protection 64, 27-37.

Bill, M., Sivakumar, D., Thompson, K.A. Korsten, L. 2014. Avocado fruit quality management during the postharvest supply chain. Food reviews International 30,169-202.

Bautista-Baños, S., Sivakumar,D.,Bello-Pérez., Villanueva-Arce, R., Hernández- López, M. A 2013.review of the management alternatives for controlling fungi on papaya fruit during the postharvest supply chain. Crop Protection 49, 8-20.

Sellamuthu, P.S., Mafune, M., Sivakumar, D., Soundy P 2013. Thyme oil vapour and modified atmosphere packaging reduce anthracnose incidence and maintain fruit quality in avocado. Journal of the Science Food and Agriculture 93, 3024–3031.

Mafune, M., Sivakumar, D., Sellamuthu, P.S., Bautista-Baños, S. Use of lemon grass oil and modified atmosphere packaging on control of anthracnose and quality maintenance in avocado cultivars. Journal of Food Quality 36, 198–208

Sellamuthu, P.S., Sivakumar, D., Soundy P. Korsten, L. 2013. Enhancing the defence related and antioxidant enzymes activities in avocado cultivars with essential oil vapours. Postharvest Biology and Technology 81, 66–72.

Sellamuthu, P.S., Sivakumar, D., Soundy P. 2013.Antifungal activity and chemical composition of thyme, peppermint and citronella oils in vapour phase against avocado and peach postharvest pathogens. Journal of Food Safety 33, 86-93.

Salia Osman, M., Sivakumar, D., Korsten, L.,2011. Effect of biocontroagent *Bacillus amyloliquefaciens* and 1-methyl cyclopropene on the control of postharvest diseases and maintenance of fruit quality, Crop Protection 0,173-178.

Arrebola, E, Sivakumar, D, Korsten, L.2010. Effect of volatile compounds produced by *Bacillus* strains on postharvest decay in citrus. Biological Control 53, 122-128.

Arrebola, E, Sivakumar, D, Bacigalupo, R, Korsten, L. 2010. Combined application of antagonist *Bacillus amyloliquefaciens* and essential oils for the control of peach postharvest diseases. Crop protection 29, 369-377.