

Resume



Personal Particulars

Name : Jeffrey Lim Seng Heng

Age : 38 years old

Sex : Male

Nationality : Malaysian

Office address : Microbiology Lab, Block G (A15), Agrobiodiversity and Environment Research Centre, Persiaran MARDI-UPM, 43400 Serdang, Selangor.

Contact number : +6012-7523 810 (Mobile) or +603-8953 7243 (Office)

E-mail address : shlim@mardi.gov.my

Qualification : PhD., MSc. and BSc.

Specialization : Microbial conservation/Molecular Biology/Microbial Biochemistry/Microbial Biotechnology/Plant Pathology/Waste management (composting)

Award

Travel grant for International Curator Lecture and Workshop on Emerging Technologies and Management of Microbial Resources. Bangkok, Thailand. 7th - 9th March 2017.

Year: 2017

MARDI Young Researcher Award

Year: 2013

Excellent Service Award for Malaysian Agricultural Research and Development

Year: 2007

MARDI's Best Scientific Writer Award

Year: 2007

Current local and international network

- 1) Member, ASEAN network on Microbial Utilization
- 2) Member, The Asian Consortium for Conservation and Sustainable Use of Microbial Resources
- 3) Member, Malaysian Society for Microbiology
- 4) Member, Asian Federation of Biotechnology Malaysia Chapter

Reviewer

- 1) World Journal of Biotechnology (2012 till now)
- 2) African Journal of Biotechnology (2012 till now)
- 3) African Journal of Microbiology Research (2013 till now)
- 4) British Microbiology Research Journal (2014 till now)
- 5) Lifesciences Publishing Group (2014 till now)
- 6) Malaysian Journal of Microbiology (2013 till now)
- 7) Journal of Tropical Agriculture and Food Sciences (2013 till now)

Working Experience

<u>Period</u>	<u>Name Of Employer</u>	<u>Post Held</u>
Dec 16 - Present	Malaysian Agricultural Research And Development Institute	Senior Research Officer cum Process Owner for ISO of MARDI Microbial Culture Collection (MMCC)
Dec 11 – Dec 16	Malaysian Agricultural Research And Development Institute	Senior Research Officer
June 06 - Dec 11	Malaysian Agricultural Research And Development Institute	Research Officer cum Laboratory manager.

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June 04 – May 06	Malaysian Agricultural Research And Development Institute	Research Officer
Mar 02 - May 04	Malaysian Agricultural Research And Development Institute	Asst. Research Officer (Contract)

Consultative work

- 1) DUHC:-formulation of biofertilizer (2008-2010)
- 2) Mentari Alam Eko Sdn Bhd:- utilization of food waste compost for animal feed (2014-2016)
- 3) SMARTfert Sdn Bhd:- Biofertilizer evaluation (2017)
- 4) Ken Biotech Sdn Bhd:- Biofertilizer and biopesticide evaluation (2019)

Articles Published

Journals

L.S.H. Jeffrey, M.S. Umi Kalsom, A. R. Nor'Aini, S. Khozirah and H. Halizah. (2016). *Streptomyces griseus* AK25 a potential antifungal producer for anthracnose in chillies. *Journal of Tropical Agriculture and Food Sciences*. **44(2)**:9 – 18.

L. S. H. Jeffrey, M. S. Umi Kalsom, S, Khozirah, A. R. Noraini and H. Halizah. (2015). *Streptomyces ambofaciens* S2: A potential biological control agent for *Colletotrichum gleosporioides* the causal agent for anthracnose in red chilli fruits. *Journal of Plant Pathology & Microbiology*, S:1. <http://dx.doi.org/10.4172/2157-7471.S1-006>

L.S.H. Jeffrey and H. Halizah. (2014). Impact of media composition and growth condition of antifungal production by *Streptomyces ambofaciens* S2. *African Journal of Microbiology Research*. **8(10)**:994-1000.

L.S.H. Jeffrey, A.N. Norzaimawati and H. Rosnah. (2011). Prescreening of bioactivities from actinomycetes isolated from forest peat soil of Sarawak. *Journal of Tropical Agriculture and Food Science*. **39(2)**:245-254.

L.S.H. Jeffrey, M.S. Umi Kalsom and H. Halizah. (2011). Isolation, characterization and identification of potential actinobacteria with antifungal activities towards chilli anthracnose. *African Journal of Biotechnology*. **10(32)**:5979-5987.

G.H. Tan, M. S Nordin, T. L. Kert, A. B. Napsiah and **L.S.H. Jeffrey**. (2009). Isolation of beneficial microbes from biofertilizer product. *Journal of Tropical agriculture and Food Sciences*. **37(1)**: 10-109.

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L.S.H. Jeffrey. (2008). Isolation, characterization and identification of Actinomycetes from agriculture soils at Semongok, Sarawak. *African Journal of Biotechnology*. **7**:3700-3705.

L.S.H. Jeffrey, R. Son and S. Tosiah (2008). Preliminary screening of endophytic fungi isolated from medicinal plants at MARDI Sessang, Sarawak for their bioactivity. *Journal of Tropical Agriculture and Food Science* **36**:121-126.

L.S.H. Jeffrey, M.R. Azrizal, A.A.H. Nor Ayshah and G.H. Tan (2008). Isolation and bioprospecting of actinomycetes from Ayer Keroh Recreational Park, Malaysia. *Journal of Tropical Agriculture and Food Science* **36**:155-163.

L.S.H. Jeffrey, A.M. Sahilah, R. Son and S. Tosiah. (2007). Isolation and screening of actinomycetes from Malaysian soil for their enzymatic and antimicrobial activities. *Journal of Tropical Agriculture and Food Science* **35**:159-164

L.S.H. Jeffrey and M.R. Azrizal. (2007). Screening for cellulose activities in actinomycetes isolated from different location of Peninsular Malaysia. *Journal of Tropical Agriculture and Food Science* **35**:153-158

L.S. H. Jeffrey, R. Son and A. M. Sahilah (2005). Bioprospecting of Streptomyces Isolated from Malaysia Soils for Their Bioactive Compounds. *Annual Report of ICBiotech* **27**:974-978.

A.M. Sahilah, S. Tosiah, R. Son, W.L. Ooi, C.Y.K. Queen, **L.S.H. Jeffrey, S.C. Chua and M.T. Mohd. Senawi.** (2005). Typing of *Ralstonia solanacearum* isolated from tomato by antibiotic susceptibility, plasmid profiling and PCR-based techniques of RAPD and ERIC *Journal of Tropical Agriculture and Food Science* **33**:73-82

S. H. Lim, I. Salmah, W.L. Ooi, K. Sushil, A.M. Sahilah and Radu Son. (2003). PCR primers designed from the *UidA* gene sequence for the detection on *Eschericia Coli* O157:H7. *Journal of Food Technology* **2(1)**:67-70.

Intellectual Property

L.S.H. Jeffrey. 2012. A biological pesticide. PI 20122005233. Patent pending.

Magazines write up

Nor Ayshah Alia Ali Hassan and **Jeffrey Lim Seng Heng.** (2016). Mikroorganisma: Lubuk duit tersembunyi. Agromedia. pg 18-19.

Jeffrey Lim Seng Heng. (2009). Conservation of microbes, its importance. Agromedia. Pg 32-33.

Jeffrey Lim Seng Heng. (2008). Microbes in Agriculture. Agromedia. pg 30-31.

Proceedings

L.S.H. Jeffrey and M.Z. Nur Samahah (2016). Isolation of *Pseudomonas fluorescens* from soil. 33rd Symposium of the Malaysian Society for Microbiology 2016. Ramada Plaza Melaka. 14-17 December 2016.

L.S.H. Jeffrey (2015) Characterization of antifungal producing actinomycetes using metabolomics approach. International Congress of Malaysian Society for Microbiology. Bayview Beach Resort, Penang Malaysia. 7-9 December 2015

L.S.H. Jeffrey, M. S. Umi Kalsom, S, Khozirah, A. R. Noraini and H. Halizah. (2014). Metabolomic, a new frontier in culture collection. Agrobiodiversity and Agroenvironment Symposium 2014.

H. Halizah, S. Tosiah and **L.S.H. Jeffrey**. (2013). Isolation of herbicidal activity from *Exserohilum monoceras* 1125. International Congress of the Malaysian Society for Microbiology. Langkawi Lagoon Resort, Langkawi, Kedah, Malaysia. 12-15 December 2013.

L.S.H. Jeffrey, M.S. Umi Kalsom, S. Khozirah, A.R. Nor Aini and H. Halizah. (2012). ¹H NMR for better and faster characterization of *Streptomyces* spp. 1st Regional Conference On Agrobiodiversity Conservation and Sustainable Utilization. One Helang Hotel, Langkawi, Kedah, Malaysia. 25-27 September 2012.

H. Halizah and **L.S.H. Jeffrey**. (2012). Optimization of culture conditions for the production of antifungal compounds by *Bacillus subtilis*. 1st Regional Conference On Agrobiodiversity Conservation and Sustainable Utilization. One Helang Hotel, Langkawi, Kedah, Malaysia. 25-27 September 2012.

L.S.H. Jeffrey, M. S. Umi Kalsom, S, Khozirah, A. R. Noraini and H. Halizah. (2011). Isolation of antifungal compound from *Streptomyces* sp. S2. International Congress of the Malaysian Society for Microbiology. Bayview Beach Resort, Penang, Malaysia. 8-11 December 2011.

L.S.H. Jeffrey and H, Halizah. (2010). Actinobacteria with potential to control anthracnose on chilli. 2nd National Conference on Agrobiodiversity conservation and sustainable utilization. Promenade Hotel Tawau, Sabah, Malaysia. 11-13 May 2010

L.S.H. Jeffrey. (2009). Diversity of *Streptomyces* isolated from Malaysian soil. Proceeding for 15th International Symposium on the Biology of Actinomycetes. Shanghai, China. 19-27 August 2009.

L.S.H. Jeffrey. (2009). Microbes for a sustainable agriculture. Proceeding for The 3rd Regional Conference on Natural Resources in the Tropics. Kuching, Sarawak. 3-5 August 2009.

L.S.H. Jeffrey and H. Halizah. (2009). Potential biopesticide from actinomycetes isolated from Malacca soil. 2nd National Conference On Agro Environment. Johor Bahru, Johor. 24-26 March 2009.

L.S.H. Jeffrey and H. Halizah. (2009). Locally Isolated Microbes As Potential Soil Bio-Rejuvenators. 2nd National Conference On Agro Environment. Johor Bahru, Johor. 24-26 March 2009.

L.S.H. Jeffrey. (2008). Malaysian Indigenous Microorganisms (MIMO): A soil rejuvenating solution. MARDI Science and Technology Exhibition 2007. Poster presentation. (Silver award for innovative technology)

L.S.H. Jeffrey. (2008). MARDI Indigenous Microorganisms (MIMO): Potential solution for controlling weeds. National Conference on Organic Agriculture. Subang, Selangor. 4-6 November 2008.

L.S.H. Jeffrey and N. Sarah. (2008). Actinomycetes: Potential Anthracnose Inhibitor. Proceeding for 30th Symposium of Malaysian Society for Microbiology– Microbes: Biotechnology Engine for Health and Wealth Creation. Hyatt Regency Resort Kuantan, Pahang Darul Makmur. 16–19 August 2008

L. S. H. Jeffrey and A. R. Azrizal. (2008). Biodiversity of soil actinomycetes isolated from Crocker Range, Sabah. Biodiversity and National Development: Achievements, Opportunities and Challenges. Kuala Lumpur. 28-30 May 2008

L. S. H. Jeffrey and H. Rosnah. (2008). Biodiversity of actinomycetes isolated from Muar Johor. Biodiversity and National Development: Achievements, Opportunities and Challenges. Kuala Lumpur. 28-30 May 2008

L. S. H. Jeffrey, A. N. Norzaimawati, H. Rosnah and A. R. Azrizal, (2007). Preliminary screening of *Streptomyces* spp. to be used as biocontrol agents for controlling bacterial wilting disease in tomato. Proceeding for 29th Symposium of the Malaysian Society for Microbiology. *Kuala Terengganu*, 23-26 November 2007.

L. S. H. Jeffrey and A. R. Azrizal, (2007). Isolation and screening of microbes isolated from chicken dung for their bioactivities. Proceeding for 29th Symposium of the Malaysian Society for Microbiology. *Kuala Terengganu*, 23-26 November 2007.

L.S.H. Jeffrey, A.R. Azrizal., A.N. Norzaimawati and H. Rosnah (2007) Antagonistic actinomycetes species against selected phytopathogens. MARDI Science and Technology Exhibition 2007. Poster presentation.

L.S.H. Jeffrey. (2006) Preliminary Screening for Antimicrobial Compounds Isolated From Indigenous Soil Actinomycetes in Malaysia. National Conference on Agroenvironment 2006. Poster presentation.

L.S.H. Jeffrey, A.H. Nor Ayshah Alia, M.R. Azrizal and G.H. Tan. (2006). Diversity of Actinomycetes Isolated From Ayer Keroh Recreational Park,

Malaysia. National conference on agrobiodiversity conservation and sustainable utilization. Poster presentation.

L.S.H. Jeffrey, R. Son and A.M. Sahilah. (2006). Bioprospecting of Actinomycetes from soil grown with medicinal plants for their bioactivities. Proceeding for 28th Symposium of the Malaysian Society for Microbiology. 24-27 November 2006. p. 206-208.

L.S.H. Jeffrey, A.M. Sahilah, R. Son, M.R. Razean Haireen and H. Rosnah (2005). Screening for bioactivity of endophytic fungi isolated from medicinal plants in Sessang, Sarawak Proceeding for International Conference on Pesticide 2005. 6-8 July 2005. p. 60-61.

L.S.H. Jeffrey, M.R. Azrizal and M.R. Razean Haireen. (2005). Molecular identification of cellulolytic producing actinomycetes. Proceeding for 27th Symposium of the Malaysian Society for Microbiology. 24-27 November 2005. p. 260-261.

M.R. Razean Haireen, **L.S.H. Jeffrey**, A.M. Sahilah, S. Tosiah, A.N. Nurzaimawati and H. Rosnah. (2005). Isolation and identification of actinomycetes effective against phytophthora palmivora, a casual pathogen of root rot in papaya. Proceeding for 27th Symposium of the Malaysian Society for Microbiology. 24-27 November 2005. p. 390-392.

A.M. Sahilah, S.Y. Tang, **L.S.H. Jeffrey**, M.R. Razean Haireen, A.N. Nurzaimawati and H. Rosnah. (2005). Isolation and screening of actinomycetes for controlling plant pathogenic bacteria of *Ralstonia solanaceum*. Proceeding for 27th Symposium of the Malaysian Society for Microbiology. 24-27 November 2005. p. 393-396.

L.S.H. Jeffrey, A.M. Sahilah and R. Son. (2004). Screening Of Actinomycetes From soils collected from Muar for bioactive compounds. Proceeding for 26th Symposium of the Malaysian Society for Microbiology. 25-28 November 2004. p. 369-371.

A.M. Sahilah, **L.S.H. Jeffrey** and H. Rosnah, (2004). Comparison between undisturbed and clean and cleared area in peatland ecosystem as indicated by microbial community changes. Proceeding for 26th Symposium of the Malaysian Society for Microbiology. 25-28 November 2004. p. 277-230.

National and International reports

L.S.H. Jeffrey, S. Tosiah and A.M. Musaalbakri. (2016). Current Scenario of Microbial Collection in MARDI. Report presented to members of ASEAN network on Microbial Utilization. Bali, Indonesia. 3rd-5th August 2016.

L.S.H. Jeffrey. (2015). Overview of Malaysia Agriculture Research and Development Institute (MARDI) culture collection status. Report presented to members of The Asian Consortium for Conservation and Sustainable Use of Microbial Resources. Jakarta, Indonesia. 8-10th October 2015.

M.S. Umi Kalsom, M. Sariah, S.S. Lee, A.R. Raha, **L.S.H. Jeffrey**, A.M. Sahilah, M. Stella, M. Sepiah and A.R. Razean Haireen. (2006). International Report MICROBIAL DIVERSITY: STRATEGIES AND ACTION PLANS National Conference on Preparation of Strategies and Action Plan for Agricultural Biodiversity, Marine and Coastal Biological Diversity, Biological Diversity of Inland Water Ecosystems and Invasive alien Species.

N. Mohd. Shukor, A. Zulhairil, **L.S.H. Jeffrey**, M.R. Razean Haireen, M.N. Erny Sabrina, J. Rosliza, and S. Sabki. (2007). Final report on the establishment of the national Information sharing mechanism (NISM) on the Implementation of the global plan of action (GPA) For the conservation and sustainable utilization of plant genetic resources for food and agriculture In Malaysia. <http://mega.mardi.my/gpa/mys/index.html>. Serdang, MARDI.