DR. MOHD TAUFIQ MAT JALIL

1. Contact details

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2. Current position

Senior Lecturer

3. Field of specialization

No.	Specialization
1.	Biology
2.	Enzymology
3.	Enzyme and Fermentation Technology
4.	Bacteriology
5.	Microbial Biotechnology
6.	Microbiology
7.	Microbial Secondary Metabolites
8.	Biotechnology
9.	Biostatistics

4. Education Records

Institutions	Qualification	Date
Maahad Yaakubiah, Bachok, Kelantan	Penilaian Menengah Rendah (PMR)	2001
Maahad Muhammadi (L), Kota Bharu	Sijil Menengah Ugama (SMU)	2002
Maahad Muhammadi (L), Kota Bharu	Sijil Pelajaran Malaysia (SPM)	2003
Kolej Matrikulasi Kedah, Changlun	Sijil Matrikulasi Sains Hayat	2004
Universiti Sains Malaysia, Penang	Bsc. Microbiology	2008
Universiti Sains Malaysia, Penang	Msc. Microbiology (Industrial Microb.)	2013
Universiti Sains Malaysia, Penang	PhD. Microbial Biotechnology	2019

5. Working Experience(s)

Post	Field/Course/Subject	Organization	Date
Tutor	Biostatistics (Tutorial)	School of Biological Sciences, Universiti Sains Malaysia	2010 – 2012
Instructor	Microbiology (Lab)	School of Distance Education, Universiti Sains Malaysia	2012
Researcher	Natural products	Faculty of Agro-based Industry,	2015

	(Antimicrobial activity)	Universiti Malaysia Kelantan	
Tutor	Biostatistics (Tutorial)	School of Biological Sciences, Universiti Sains Malaysia	2015 – 2016
Instructor	Biochemistry (Lab)	School of Distance Education, Universiti Sains Malaysia	2016
Tutor	Biostatistics (Tutorial)	School of Biological Sciences, Universiti Sains Malaysia	2017
Educator	Soil Ecology JIB 222 (Field works)	School of Distance Education, Universiti Sains Malaysia	December 2017
Researcher	Antimicrobial activity of fungal extract	School of Biological Sciences, Universiti Sains Malaysia	Mac 2018 – July 2018
Enumerator	Statistical analysis (Biostatistics)	Malaysian Institute of Pharmaceuticals and Nutraceuticals, Penang	June 2018
Educator	Soil Ecology JIB 222 (Field works)	School of Distance Education, Universiti Sains Malaysia	January 2018
Educator	Soil Ecology JIB 222 (Field works)	School of Distance Education, Universiti Sains Malaysia	February 2019
Educator	Soil Ecology JIB 222 (Field works)	School of Distance Education, Universiti Sains Malaysia	February 2020
Senior Lecturer	Applied Microbiology	School of Biology, Faculty of Applied Sciences, UiTM Shah Alam	January 2021 – present

6. Scholarship/Fellowship

Level of Study	**Sponsor**	**Date**
Msc.	USM Fellowship	2010 – 2012
PhD.	MyBrain15	2014 – 2017

7. Publications

a) Thesis

1. Effect of temperature on lipase activity from cold adapted microorganisms. Bsc. Thesis, Universiti Sains Malaysia. (August – 2008).
   Supervisor: Associate Professor Dr. Rashidah Abdul Rahim

2. Production of pectinase by *Aspergillus niger* LFP-1 using pomelo peels as a substrate via solid state fermentation. Msc. Thesis, Universiti Sains Malaysia. (March – 2013).
   Supervisor: Professor Dr. Darah Ibrahim

3. Antimicrobial and antibiofilm activities of an endophytic fungus, *Lasiodiplodia pseudotheobromae* IBRL OS-64 isolated from leaf of *Ocimum sanctum* Linn. PhD Thesis, Universiti Sains Malaysia. (September – 2019).
   Supervisor: Professor Dr. Darah Ibrahim

b) Seminar/Colloqium/Proceedings/Abstracts

1. **Taufiq M.M.J.** and Darah, I. (2010). Production of pectinase in solid substrate and submerged fermentation system by local yeast isolates: a comparative study. Abstract of the *7th IMT-GT UNINET and the 3rd Joint International PSU-UNS conferences "Bioscience"*, 7th and 8th October 2010, Prince of Songkla University, Hatyai, Thailand. Pp: 199.

2. **Taufiq M.M.J.** and Darah, I. (2010). Production of pectinase from pomelo peels in solid substrate and submerged fermentation system by local yeast isolates. Proceedings of the *3rd PPSKH/IPS Postgraduate Colloqium*, School of Biological Sciences, Universiti Sains Malaysia, Pulau Pinang. 2nd, 3rd and 4th June 2010. Pp: 46.

3. **Taufiq M.M.J.** and Darah, I. (2011). Pomelo waste as a substrate for fungal pectinase production by *Aspergillus* sp. LFP-1 via solid substrate fermentation. Proceedings of the *5th PPSKH Postgraduate Colloqium*, School of Biological Sciences, Universiti Sains Malaysia, Pulau Pinang. 22nd and 23rd June 2011. Pp: 60.

4. **Taufiq M.M.J.** and Darah, I. (2011). Peranan mikroorganisma dalam 3culeate pertanian bagi menjamin kelestarian alam. Abstract of the *Regional Conference on Local Knowledge*, Kampung Tok Senik Resort, Langkawi, 10th and 11th October 2011. Pp: 103.

5. **Taufiq, M.M.J** and Darah, I. (2015). Isolation and screening of endophytic fungi from medicinal herb, basil (*Ocimum sanctum*) for the production and characterization of bioactive fungal metabolites. Proceedings of the *12th PPSKH Postgraduate Biocolloqium*, School of Biological Sciences, USM, 11th August 2015.

6. **Taufiq M.M.J.** and Darah, I. (2016). Screening of Antimicrobial Activity of Endophytic Fungi Isolated from Medicinal Herb, *Ocimum sanctum* Leaves, Proceedings of the *10th IMTGT-UNINET conference Bioscience: the element of life*, Prince of Songkla University, Hatyai, Thailand, 1st and 2nd December 2016. Pp: 43.

7. **Taufiq M. M. J.** and Darah, I. (2016). Isolation of Endophytic Fungi from *Ocimum sanctum* Leaves Using Different Growth Media and Leaf age maturity, Proceedings of the *10th IMTGT-UNINET conference Bioscience: the element of life*, Prince of Songkla University, Hatyai, Thailand, 1st and 2nd December 2016. Pp: 114.

8. **Taufiq, M. M. J.** and Darah, I. (2018). Effect of ethyl acetate extract of *Lasiodiplodia pseudotheobromae* OS-64 isolated from *Ocimum sanctum* Linn. leaves on antimicrobial activity and antibiofilm formation. Proceedings of the *17th SBS Postgraduate Bio-colloqium*, School of Biological Sciences, USM, 7th February 2018.

c) Articles/Journals

1. Darah, I, **Taufiq, M.M.J.** and Lim, S. H. (2013). Pomelo *Citrus grandis* (L.) Osbeck peel as an economical alternative substrate for fungal pectinase production. *Food Science and Biotechnology*. 22(6):1683-1680.

2. Mu'azzam K.A.A.R, **Taufiq, M.M.J**, Noor Azlina, I., Noorhazira, S. and Darah, I. (2015). Screening of antibacterial activity of endophytic fungi isolated from different leaf ages of *Curcuma manga* using different growth media. *International Journal of Research in Medical and Health Sciences*. 5(2): 1- 10.

3. Mu'azzam, K.A.A.R, **Taufiq, M.M.J** and Darah, I. (2015). Isolation and Screening of Antibacterial Activity of Endophytic Fungi Isolates from *Ocimum citriodorum* Vis. Leaves. *Australian Journal of Basic and Applied Sciences*. 9(28): 155-161.

4. Darah, I. **Taufiq, M.M.J.** and Sheh-hong, Lim. (2015). Pectinase production by *Aspergillus niger* LFP-1 using pomelo peels as substrate: An optimization study using shallow tray system. *Indian Journal of Biotechnology*. 14: 553-558.

5. **Taufiq, M.M.J**. and Darah, I. (2018). Fungal Endophytes Isolated from the Leaves of a Medicinal Plant *Ocimum sanctum* Linn and the Evaluation of Their Antimicrobial Activities. *African Journal of Microbiology Research*. 12(26): 616-622.

6. **Taufiq, M.M.J**. and Darah, I. (2018). Anti-MRSA of the ethyl acetate crude extract from *Lasiodiplodia pseudotheobromae* IBRL OS-64, an endophytic fungus isolated from leaf of *Ocimum sanctum* Linn. *International Journal of Pharmacy and Pharmaceutical Sciences*. 10(8): 50-55.

7. **Taufiq, M.M.J**. and Darah, I. (2019). Antibacterial activity of an endophytic fungus *Lasiodiplodia pseudotheobromae* IBRL OS-64 residing in leaves of a medicinal herb, *Ocimum sanctum* Linn. *Journal of Applied Biology & Biotechnology*. 7(2): 35-41.

8. **Taufiq, M.M.J**. and Darah, I. (2019). Effect of ethyl acetate crude extract of *Lasiodiplodia pseudotheobromae* IBRL OS-64 against oral cavity bacteria with emphasis on *Streptococcus mutans. Journal of Applied Pharmaceutical Science*. 9(11): 78 – 85.

9. **Taufiq, M.M.J**. and Darah, I. (2019). Effects of cultural conditions in enhancing the production of anti-MRSA of *Lasiodiplodia pseudotheobromae* IBRL OS-64, an endophytic fungus isolated from leaf of *Ocimum sanctum* L. in submerged fermentation. *Journal of Pure and Applied Microbiology*, 13(4): 2517 – 2531.

10. **Jalil, M.T.M**., Ibrahim, D. and Suhaimi, N.S.M. (2020). Time-kill study and morphological changes of *Proteus mirabilis* cells exposed to ethyl acetate crude extract of *Lasiodiplodia pseudotheobromae* IBRL OS-64. *Malaysian Journal of Microbiology*. 16(3):219-228.

11. **Taufiq, M.M.J**. and Darah, I. (2020). Study of ethyl acetate crude extract of *Lasiodiplodia pseudotheobromae* IBRL OS-64, an endophytic fungus isolated from the leaf of *Ocimum sanctum* for anti-biofilm agent. *International Journal of Pharma and Bio Sciences*. 11(2): b7-18.

12. **Taufiq, M.M.J**. and Darah, I. (2020). Biological activity of *Lasiodiplodia pseudotheobromae* IBRL OS-64 extracts, an endophytic fungus isolated from medicinal herb, *Ocimum sanctum* against foodborne diarrhoea-caused bacteria. *Pharmacognosy Journal*. 14(4): 897-904.

13. **Taufiq, M.M.J**. and Darah, I. (2020). Antibacterial and antibiofilm activities of crude extract of *Lasiodiplodia pseudotheobromae* IBRL OS-64 against foodborne bacterium, *Yersinia enterocolitica*. *Journal of Pharmaceutical Research International*. 32(14): 87-102

14. **Taufiq, M.M.J**. and Darah, I. (2020). Anti-candidal activity of ethyl acetate crude extract of endophytic fungus, *Lasiodiplodia pseudotheobromae* IBRL OS-64 against *Candida albicans*. *International Journal of Pharmaceutical Research*. 12(SI2): 257-265.

15. **Jalil, M.T.M**. and Ibrahim, D. (2020). Antimicrobial activity of volatile compounds produced by endophytic fungi associated with *Ocimum sanctum*. *Bangladesh Journal of Pharmacology*. 15(4): 110 – 112

16. **Jalil, M.T.M.** and Ibrahim, D. (2021). Partial purification and characterisation of pectinase produced by *Aspergillus niger* LFP-1 grown on pomelo peels as a substrate. *Tropical Life Sciences Research*. 32(1): 1 – 22

17. **Taufiq, M.M.J**. and Darah, I. (2020). Anti-yeast activity of endophytic fungi isolated from medicinal herb, *Ocimum sanctum* with emphasis on *Candida albicans*. *Research Journal of Biotechnology*. Accepted on 1st August 2020.

8. Research Grant(s)

No.	Research title/Sponsor	Date	Value
1.	Solid substrate fermentation for pectinase production by an indigenous fungal isolate using citrus waste as a substrate. *Researcher-Master Student.* (USM Incentive Grants for Postgraduate)	21 July 2011 – 20 June 2012	RM 8,800

9. Award(s) and Achievement

No.	Award(s)	Conference/Seminar/Event
1.	Dean's List	School of Biological Sciences, Universiti Sains Malaysia. Year 2008
2.	2nd Best Oral Presenter	Screening of Antimicrobial Activity of Endophytic Fungi Isolated from Medicinal Herb, *Ocimum sanctum* Leaves, Oral presentation at the *10th IMTGT-UNINET conference Bioscience: the element of life*, Prince of Songkla University, Hatyai, Thailand, 1st and 2nd December 2016.

10. Co-curriculum activities/Community Services

No.	Activities	Date
1.	Pantun coach for student college (Desasiswa Fajar Harapan, USM, Penang)	2013 – 2018
2.	Pantun coach for student college (Desasiswa Tekun, USM Penang)	2015 – 2018
3.	Pantun coach for student college (Desasiswa Indah Kembara, USM Penang)	2017 – 2018
4.	USM representative for Pantun Antara Jabatan Kerajaan Pulau Pinang Competition organised by JKKN Penang – 4th place.	2016
5.	Judges for Pantun Antara Jabatan Kerajaan Pulau Pinang Competition organised by JKKN Penang	2017
6.	Coach and Manager for USM pantun representative group for Pantun Antara Jabatan Kerajaan Pulau Pinang Competition	2017

organised by JKKN Penang – 1st place.

7.	Chief Judges for Pantun Tiga Penjuru Competition organised by Convex Secretariat, USM Penang	2015 – 2017
8.	Chief Judges for Pantun Antara Desasiswa (PADU) Competition organised by Majlis Penggawa and BHEPP Universiti Sains Malaysia, Penang	2017 – 2018
9.	Pantun coach for SMKA Al-Mashoor (Lelaki), Pulau Pinang	2019

11. Role as a reviewer for Journal(s)

No.	Title	Journal	Year
1.	Metal Tolerance Potential Of Bacterial Isolates From Cow Rumen Liquor.	Annual Research & Review in Biology	2020
2.	Antimicrobial Susceptibility Profile of Urinary Tract Pathogenic Infections in Diabetic Patients Attending a Health Facility in Kumasi, Ghana.	International Journal of Pathogen Research	2020
3.	Antimicrobial activities of Idiolites of Endophytic Fungi Isolated from the leaves of *Dacryodes edulis*.	African Journal of Biotechnology	2020
4	The role of cytokines and cellular receptors in the tuberculosis associated immune reconstitution inflammatory syndrome	Pharmaceutical Microbiology	2020
5	Evaluation of in vitro Antiprotease, antibacterial and antibiofilm activities of *Beta vulgaris* var cicla extracts	Plant Cell Biotechnology and Molecular Biology	2020
6	Biological activity survey of the Brazilian non-conventional food plants: *Pereskia culeate* Mill. And *Pereskia grandifolia* Haw. (Cactaceae)	Pharmaceutical Sciences	December 2020
7	Bioremoval capacity of phenol by some selected endophytic fungi isolated from *Hibiscus sabdariffa* and batch biodegradation of phenol in paper and pulp effluents	Iranian Journal of Microbiology	February 2021
8	Phylogenetic analyses and bioactivities of endophytic Pestalotiopsis from Amazonian species.	African Journal of Microbiology Research	February 2021
9	Phytochemistry and biological activity of Terung Asam, indigenous fruit-vegetables of Sarawak – A review	Journal of Sustainability Science and Management	14 March 2021

12. Referees

No.	Relationship	Name(Position)/Address/Email/Contact number
1.	Supervisor - Master and PhD studies	Professor Dr. Darah Ibrahim (Professor of Microbiology), School of Biological Sciences, USM, Penang. darah@usm.my 012-428 2276
2.	Supervisor - Degree study	Associate Professor Dr. Rashidah Abdul Rahim (Senior lecturer/Associate Professor) School of Biological Sciences, USM, Penang. rshidah@usm.my 019-481 6630