CURRICULUM VITAE

i. Full Name : Fridelina Binti Sjahrir
ii. Academic Qualifications :

No.	Academic Qualification	Institution/Country	Year of Graduation
1.	PhD in Biotechnology	Universiti Selangor	2014
2.	Master of Science (Chemistry)	Univerisiti Teknologi Malaysia	2001
3.	Bachelor of Science (Industrial Chemistry) (Hons). (Second Class Lower)	Universiti Teknologi Malaysia	1998

iii. Current Professional Membership:

No.	Professional Body	Position/Title	Year

iv. Current Teaching and Administrative Responsibilities:

a. Current Subject(s) taught:

No.	Code	Name of Subject
1.	FKD1223	Chemistry II
2.	FSD1241	Physical Laboratory ll
3.	FSD3233	Industrial Safety
4.	FTS2243	Corrosion
5.	FIS3324	Final Year Project II

b. Administrative Responsibilities:

No.	Description	Date
1.	Dean Faculty of Engineering and Life Sciences	1st September 2018 - ongoing
2.	Deputy Dean Faculty of Engineering and Life Sciences	1st September 2016 – 31st August 2018
3.	Dean Faculty of Science and Biotechnology	1st December 2014 – 31st August 2016
4.	Dean	1st January –

	Faculty of Applied Science and Mathematics	31st July 2008
5.	Director Centre for Foundation Studies	1st August 2006 – 31st December 2007
6.	Deputy Dean Faculty of Science and Education	Oct 2005 – July 2006
7.	Head of Department, Science and Mathematics & Coordinator for Science Foundation Program Faculty of Science and Education	June 2004 – Oct 2005
8.	Chemistry Coordinator	Jan 2002 – June 2004

v. Previous Employment:

No.	Employer Name and Address	Position	Years	
			Start	End
1.	UNISEL	Associate Professor	15th December 2018	-
2.	UNISEL	Senior Lecturer	1st January 2007	15th December 2018
3.	UNISEL	Lecturer	August 2001	31 December 2006
4.	UNISEL	Tutor	June 2001	August 2001
5.	Universiti Teknologi Malaysia	Demonstrator	Jan 1999	Mac 2000
6.	Universiti Teknologi Malaysia	Research Assistant	Jun 1998	December 1998

vi. Conferences and Training:

No.	Title	Venue	Date
1.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif I. (2016). Kinetic study of cell free extract of nitrile-hydrolyzing enzymes of *Rhodococcus* UKMP-5M in the biotransformation of nitrile. Proceedings in International	Shah Alam, Selangor	29-30 November 2016

	Conference of Life Sciences Revolution 2016		
2.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif I and Cass A.E.G (2015). Optimization of method for immobilization of *Rhodococcus* UKMP-5M in the biotransformation of nitrile. Proceedings in International Conference of Life Sciences Revolution,	Shah Alam, Selangor	24-25 November 2015
3.	Maegala Nallapan Maniyam, Fridelina Sjahrir, Abdul Latif Ibrahim. (2014). Detoxification of simulated cyanide-containing industrial effluents by *Rhodococcus* UKMP-5M. Monash Science Symposium, Malaysia	Monash University	18-19 June 2014
4.	Fridelina Sjahrir, Maegala Nallapan Maniyam and Abdul Latif Ibrahim. (2014). Biotransformation of acrylonitrile by immobilised cells of *Rhodococcus* UKMP-5M. Monash Science Symposium, Malaysia Monash University, 18-19 June 2014.	Monash University	18-19 June 2014
5.	Sjahrir F and Nallapan Maniyam M. The application of green chemistry methods by microbial green technology research group in Universiti Selangor. Proceedings in the Seminar Nasional Pengembangan Sumber Daya Manusia dan Perekonomian Masyarakat,	Fakultas Penternakan Universiti Andalas	22nd April 2013
6.	Nor Suhaila Y., Hasdianty, A., Norazah, M.N., Nallapan Maniyam M., Fridelina S dan Abdul Latif, I. Microbial in Green Chemistry. Proceedings in the Seminar Nasional Pengembangan Sumber Daya	Fakultas Penternakan Universiti Andalas	22nd April 2013

	Manusia dan Perekonomian Masyarakat		
7.	Norazah M.N., Maegala N.M., Nadzirah A.S., Nor Suhaila Y., Hasdianty A., Fridelina S., Rozila A., Jayesree N. and Noor Azmaheera A.G. IAB Women in Science International Program. Proceedings in the Seminar Nasional Pengembangan Sumber Daya Manusia dan Perekonomian Masyarakat	Fakultas Penternakan Universiti Andalas	22nd April 2013
8.	Nor Suhaila, Y., Hasdianty, A., Fridelina, S Norazah, M.N. and Maegala, N.M., Abdul Latif, I. Microbes as a source of Enzyme. Proceeding Seminar on Tropical Bio-resources for Sustainable Bio-industry	School of Life Sciences and Technology ITB, Bandung, Indonesia.	30th-31st October 2013
9.	UNISEL-ITB Partnership Program (Special Poster Presentation) Proceeding Seminar on Tropical Bio-resources for Sustainable Bio-industry	School of Life Sciences and Technology ITB, Bandung, Indonesia.	30th-31st October 2013
10.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif and Cass A.E.G (2010). A study on the effect of inducers on the growth and the production of nitrile-converting enzymes from *Rhodococcus* UKMP-5M Proceedings in IAB-IAS International Symposium	Shah Alam, Selangor	8-9 December 2010
11.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif and Nagy J.M (2009). Optimization of culture conditions for the production of nitrilase from *Rhodococcus* UKMP-5M.	Shah Alam, Selangor	29 – 30 October 2009

	Proceedings in 17th Islamic World Academy of Science (IAS) Conference 'Towards the knowledge Society in the Islamic World: Production, Application and Dessimination		

vii. Research and Publications:

No.	Title	Year
1.	Noor Halini Baharim, Maegala Nallapan Maniyam, Wan Zarina Wan Mohamed, Nazahiyah Sulaiman, Fridelina Sjahrir (2020). Chemistry Laboratory Manual Foundation in Science. Addeen Solution.	2020
2.	Noor Halini Baharim, Wan Zarina Wan Mohamed, Nazahiyah Sulaiman, Fridelina Sjahrir, Norazlina Idris (2019). Laboratory Manual for General Chemistry: Addeen Solution. ISBN: 978-967-17369-3-7	2019
3.	F. Sjahrir, M.N. Maniyam, A.L. Ibrahim and A. E. G. Cass. (2018). Biotransformation of acrylonitrile by resting cells of *Rhodococcus* UKMP-5M as biocatalyst. *Journal of Fundamental and Applied Sciences*. **10(6S):** 896-908. doi: http://dx.doi.org/10.4314/jfas.v10i6s.41	2018
4.	Nallapan Maniyam M, Sjahrir F and Hari M. (2018). Decolourization of Methylene Blue by *Rhodococcus* Strain UCC0003. International Journal of Environmental Science and Development. **9(11)**:322-326. doi: 10.18178/ijesd.2018.9.11.1122	2018
5.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif and Cass A.E.G (2017). A potential of a Malaysia Strain, *Rhodococcus* UKMP-5M in Bioremediation of Nitrile. *Open Access Journal of Microbiology and Biotechnology*. **2(1)**:000117.	2017
6.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim and Abdul Latif and Cass A.E.G (2016). Kinetic study of cell free extract of nitrile-hydrolyzing enzymes of *Rhodococcus* UKMP-5M in the biotransformation	2016

	of nitrile. *Indian Journal of Fundamental and Applied Life Science*. **7(1)**, 13-19.	
7.	Sjahrir, F., Nallapan Maniyam, M, Ibrahim, Abdul Latif and Cass A.E.G (2016). Biotransformation of acrylonitrile using immobilized cells of *Rhodococcus* UKMP-5M as biocatalyst. *Indian Journal of Fundamental and Applied Life Science*. **6(1)**, 58-67.	2016
8.	Nallapan Maniyam, M, Sjahrir, F., Ibrahim, Abdul Latif and Cass A.E.G (2016). Biotransformation of cyanide by a Malaysian isolate, *Rhodococcus* UKMP-5M as biocatalyst. *Indian Journal of Fundamental and Applied Life Science*. **6(1)**, 75-81.	2016
9.	Nallapan Maniyam, M, Sjahrir, F., Ibrahim, Abdul Latif and Cass A.E.G (2015). Biodetoxification of cyanide-containing industrial wastewater by *Rhodococcus* UKMP-5M. *Biologia*. **69(12)**, 1635-1643.	2015
10.	Nallapan Maniyam, M, Sjahrir, F., Ibrahim, Abdul Latif and Cass A.E.G (2015). Enzymatic cyanide degradation by cell-free extract of *Rhodococcus* UKMP-5M. *Journal of Environmental Science and Health.* **50(4)**, 357-364.	2015
11.	Maegala Nallapan Maniyam, Nor Suhaila Yaacob, Fridelina Sjahrir, Jayasudha Nagarajan, Jayesree Nagarajan, Anthony E.G. Cass, Norazah Mohamad Nawawi and Abdul Latif Ibrahim (2016). *Rhodococcus* UKMP-5M: A versatile bioremediation Microorganism in Alvarez J. (Ed.) Biodegradation, Properties, Analysis and Performance. Nova Science Publisher Inc: New York. pp 1-78.	2016
12.	Nallapan Maniyam M., Sjahrir F., Ibrahim A. L. and Cass E. A. G. (2013). Biodegradation of cyanide by acetonitrile-induced cells of *Rhodococcus* sp. UKMP-5M. *The Journal of General and Applied Microbiology*. **59(6)**: 393-404.	2013
13.	Nallapan Maniyam M, Sjahrir F, Ibrahim AL and Cass E. A. G. (2013). Biodegradation of cyanide by *Rhodococcus* UKMP-5M. *The Journal of General*	2013

	and Applied Microbiology. *Biologia*. **68**: 177-185. (Impact factor: 0.557).	
14.	Nallapan Maniyam M, Sjahrir F and Ibrahim A. L. (2011). Bioremediation of cyanide by optimized resting cells of *Rhodococcus* strain isolated from Peninsular Malaysia. *International Journal of Bioscience, Biochemistry and Bioinformatics* **1(2), 98-101.**	2011

viii. Consultancy:

No.	Name of Organization	Date
1	Development of Banana Stem as Biomaterial for Remediation of Foul Odor and Color of Freshwater Sample. Research Member Geran Industri SEMESTA-MBI 2020. RM35,000.00	1 July 2020 – 30th June 2021
2	Development of an Adsorbent form banana Pseudo-Stem as a Smart Green Tool for the Removal of heavy metals in an abandoned mine in Bestari Jaya, Selangor . Project Leader Geran Penyelidikan Negeri Selangor (GPNS) RM35,000.00	16 Disember 2018-31 Disember 2020
3	Continuous Operation System for Microalgae Production Optimzed for Sustainable Tropical Aquaculture (COSMOS) Project Advisor Geran Penyelidikan SATREP – JICA RM1,429,000.00	April 2016 - Mac 2021
4	Establishment of Soil Extraction Techniques From Various Soil Types In Malaysia With Applications Of Computational Model To Enhance Targeted Algae Growth Member RM445,000.00 MOHE Matching Fund	Aug 2015 - ongoing
5	A Study on Selected Enzymes of *Rhodococcus* UKMP-5M and its Application in Green Chemistry Member Selangor State Government RM500,00.00	2008-2011

6	Building of Genomics-Led Green Chemistry for Industrial Biotechnology Researcher/Graduate Students Ministry of Science, Technology and Innovation	2007-2009

ix. Community Service:

No.	Description	Period
1.	Editor in Chief Malaysian Journal of Sustainable Agriculture	1 August 2017
2.	Associate Editors Open Access Journal of Microbiology and Biotechnology	March 2017

x. Other Relevant Information: