

## CURRICULUM VITAE 2025



A. BUTIR-BUTIR PERIBADI ( <i>Personal Details</i> )			
Nama Penuh (Full Name)	<b>Norhayati binti Ramli</b>		Gelaran (Title): Assoc. Prof. Dr
No. MyKad / No. Pasport (Mykad No. / Passport No.)	Warganegara (Citizenship) Malaysian	Bangsa (Race) Malay	Jantina (Gender) Female
Jawatan (Designation)	Associate Professor	Tarikh Lahir (Date of Birth)	11/5/1986

Alamat Semasa (Current Address)	Jabatan/Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)
No. 6, Jalan 7/5J, Seksyen 7, 43650 Bandar Baru Bangi, Selangor.	Department of Bioprocess Technology, Faculty of Biotechnology and Biomolecular Sciences, 43400 UPM Serdang, Selangor.	E-mail: <a href="mailto:yatiramli@upm.edu.my">yatiramli@upm.edu.my</a> ; <a href="mailto:yatiramli.upm@gmail.com">yatiramli.upm@gmail.com</a>

B. KELAYAKAN AKADEMIK ( <i>Academic Qualification</i> )			
Nama Sijil / Kelayakan (Certificate / Qualification obtained)	Nama Sekolah Institusi (Name of School / Institution)	Tahun (Year obtained)	Bidang pengkhususan (Area of Specialization)
Doctor of Philosophy	Universiti Putra Malaysia	2012	Microbial Biotechnology
Bachelor's Degree	Universiti Putra Malaysia	2008	Bachelor of Science (Biotechnology)

C. KEMAHIRAN BAHASA ( <i>Language Proficiency</i> )					
Bahasa / Language	Lemah Poor (1)	Sederhana Moderate (2)	Baik Good (3)	Amat Baik Very good (4)	Cemerlang Excellent (5)
English				/	
Bahasa Melayu					/
Chinese					
Lain-lain (other):					

<b>D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific Experience and Specialization)</b>				
Organization	Position	Start Date	End Date	Expertise/ Category
<i>Association/ Society</i>				
Asian Federation of Biotechnology (AFOB)	Member	2013	To date	Biotechnology
Asian Federation of Biotechnology (AFOB) Malaysia Chapter	Lifetime Member	2013	To date	Biotechnology
Applied Microbiology International	Member	2024	To date	Microbiology
Asian Federation of Biotechnology (AFOB) Malaysia Chapter	Committee Member	2021	2024	Biotechnology
Applied Microbiology International	Member	2023	2024	Applied Microbiology
The Society for Biotechnology, Japan	Member	2020	2021	Microbial Biotechnology
Kyushu University, Japan	Research Attachment	2014	2014	Environmental Microbiology
Kyushu Institute of Technology, Japan	Research Attachment	2009	2009	Microbial Biotechnology
SIRIM Berhad, Malaysia	Research Attachment	2008	2009	Microbial Biotechnology

<b>E. PEKERJAAN (Employment)</b>				
Majikan / Employer	Jawatan / Designation	Jabatan / Department	Tarikh lantikan / Start Date	Tarikh tamat / Date Ended
Universiti Putra Malaysia	Associate Professor	Department of Bioprocess Technology, FBSB, UPM	1 <sup>st</sup> October 2019	To date
Universiti Putra Malaysia	Senior Lecturer	Department of Bioprocess Technology, FBSB, UPM	2 <sup>nd</sup> January 2013	30 <sup>th</sup> September 2019
Universiti Putra Malaysia	Research Assistant	Department of Bioprocess Technology, FBSB, UPM	1 <sup>st</sup> July 2011	31 <sup>st</sup> December 2012

<b>F. PENGAJARAN (Teaching)</b>	
Subjects	Programmes
Industrial Microbiology (BTC4204/ BTC4205)	Bachelor of Science (Hons.) Biotechnology, Bac. (Hons.) Microbiology, Bac. (Hons.) Cell & Molecular Biology; Bac. (Hons.) Biochemistry
Introduction to Biotechnology (BTC3001)	Bachelor of Science (Hons.) Biotechnology, Bac. (Hons.) Cell & Molecular Biology
Instrumentation in Biotechnology Research (BTC3003)	Bachelor of Science (Hons.) Biotechnology, Bachelor of Science in Biotechnology with Honours

Advanced Enzyme Technology (BTC4102)	Bachelor of Science (Hons.) Biotechnology
Food Biotechnology (BTC4103)	Bachelor of Science (Hons.) Biotechnology
Seminar (BTC4991)	Bachelor of Science (Hons.) Biotechnology, Bachelor of Science in Biotechnology with Honours
Scientific Writing in Biotechnology (BTC3004)	Bachelor of Science in Microbiology with Honours
Disertasi Bachelor (BTC4959)	Bachelor of Science in Biotechnology with Honours

<b>G. PERSIDANGAN (Conference)</b>		
Persidangan / Conference	Year	Venue
12 <sup>th</sup> Symposium on Applied Engineering and Sciences 2024 (SAES 2024)	2024	Kyutech Tobata Campus, Japan
Biotech Horizon International Symposium 2024	2024	Universiti Putra Malaysia
The 35 <sup>th</sup> Annual Meeting of the Thai Society for Biotechnology and International Conference (TSB 2023) (Invited Speaker)	2023	Greenery Resort Khao Yai, Nakhon Ratchasima, Thailand.
11 <sup>th</sup> Symposium on Applied Engineering and Sciences 2023 (SAES 2023)	2023	Universiti Putra Malaysia
AFOB Malaysia Chapter International Symposium (AFOBMCIS 2022)	2022	Pelangi Beach Resort & Spa, Langkawi, Malaysia
UPM-Kyutech 10 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2022)	2022	Virtual symposium
UPM-Kyutech 9 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2021)	2021	Virtual symposium
JAMS10 <sup>th</sup> ANNUAL SYMPOSIUM (Invited Speaker)	2021	Virtual symposium
AFOB Malaysia Chapter International Symposium (AFOBMCIS 2021)	2021	Virtual symposium
The Society for Biotechnology, Japan Web Symposium 2020 (Invited Speaker)	2020	Virtual symposium
UPM-Kyutech 8 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2020)	2020	Virtual symposium
4 <sup>th</sup> World Congress on Biotechnology and Biological Studies (WCBBS-2019) (Keynote Speaker)	2019	Sama-sama Hotel KLIA, Kuala Lumpur, Malaysia
UPM-Kyutech 7 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2019)	2019	Universiti Putra Malaysia
AFOB Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019) (Invited Speaker)	2019	The Everly Hotel, Putrajaya, Malaysia

Asian Symposium on Microbial Ecology 2019 (ASME2019), Tunghai University, Taichung, Taiwan (Invited Speaker)	2019	Tunghai University, Taichung, Taiwan
6 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2018)	2018	Universiti Putra Malaysia
5 <sup>th</sup> International Symposium on Applied Engineering and Sciences (SAES2017)	2017	Universiti Putra Malaysia
33 <sup>rd</sup> Symposium of the Malaysian Society for the Microbiology 2016	2016	Ramada Plaza Melaka, Malaysia
The 68 <sup>th</sup> Annual Meeting of the Society of Biotechnology Japan (Invited Speaker)	2016	Toyama, Japan
Biotechnology of Biomass Utilization for ASEAN Development	2016	Faculty of Science, Chulalongkorn University, Thailand
Asian Congress on Biotechnology 2015 (ACB2015)	2015	Istana Hotel, Kuala Lumpur, Malaysia
AFOB Regional Symposium 2015 (ARS2015)	2015	Universitas Indonesia, Depok, Indonesia
3 <sup>rd</sup> International Symposium on Applied Engineering and Sciences (SAES2015)	2015	Universiti Putra Malaysia
UPM - Kyutech MSSC Seminar – International Research Collaboration	2015	Faculty of Biotechnology & Biomolecular Sciences, Universiti Putra Malaysia
UPM-Sejong University Biotechnology Joint Symposium 2015	2015	Faculty of Biotechnology & Biomolecular Sciences, Universiti Putra Malaysia
AFOB Regional Symposium 2014 (ARS2014)	2014	Seri Pacific Hotel, Kuala Lumpur, Malaysia
2 <sup>nd</sup> International Symposium on Applied Engineering and Sciences (SAES2014)	2014	Kyushu Institute of Technology, Japan
1 <sup>st</sup> International Symposium on Applied Engineering and Sciences (SAES2013)	2013	Faculty of Engineering, Universiti Putra Malaysia

<b>H. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)</b>				
Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	Bronze in Innovative Research Exhibition (IREx) 2024	UKM	National	2024
	Gold in Microbes Invention, Innovation and Ideation Challenge: Sustainable Development Goals (MINIC SDG) 2023	UPM (MINIC SDG 2023)	National	2023
	First Prize in Microbes Invention, Innovation and Ideation Challenge:	UPM (MINIC SDG 2023)	National	2023

Sustainable Development Goals (MINIC SDG) 2023			
DaSilva Award 2020	The Society for Biotechnology, Japan	International	2020
Bronze Medal in Putra Innocreative Competition in Teaching and Learning (PICTL2019)	Universiti Putra Malaysia	National	2019
Best Poster Award in AFOB Malaysia Chapter International Symposium 2019 (AFOBMCIS2019)	AFOB Malaysia Chapter	National	2019
Anugerah Perkhidmatan Cemerlang 2018	Universiti Putra Malaysia	University	2018
Silver Medal for International STEM Olympiad (ISTEMO) 2018, Universiti Putra Malaysia	International STEM Olympiad (ISTEMO)	International	2018
Recipient for "Joint Supervision Project" travel grant	Kyushu Institute of Technology, Japan	International	2018
Sijil Perkhidmatan Cemerlang 2017	Universiti Putra Malaysia	University	2017
Best Poster Award in Symposium on Applied Engineering and Sciences 2017 (SAES2017), Universiti Putra Malaysia.	UPM-Kyutech, Japan	International	2017
Pyrosequencing Training for Microbial Community Study	Japan International Cooperation Agency (JICA)	International	2015
Training for Project on Promotion of Green Economy with Palm Oil Industry for Biodiversity Conservation	Japan International Cooperation Agency (JICA)	International	2014
Graduate Research Fellowship	Universiti Putra Malaysia	University	2008-2011
Hadiah Sarjana Terengganu 2010	State of Terengganu Darul Iman	National	2010
Fellowship for Japan-East Network of Exchange Students and Youths (JENESYS)	Japan Student Services Organization (JASSO)	International	2009
JPA Scholarship	Public Service Department (JPA) Malaysia	National	2005-2008

**I. SENARAI PENERBITAN (Nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)**

- 1) Sabri, I., Ng, K. X., Soffi, N. K. M., Yusoff, M. Z. M., Muhammad, N. A. N., Ho, L. S., ... & Ramli, N. (2025). Novel insights into indigenous phenol-degrading bacteria from palm oil mill effluent and their potential mechanisms for efficient phenol degradation. *Environmental Technology & Innovation*, 37, 103983.
- 2) Sabri, I., Yusoff, M. Z. M., Muhammad, N. A. N., Ho, L. S., & Ramli, N. (2025). Metabolic Conversion of Phenol to Polyhydroxyalkanoate (PHA) for Addressing Dual Environmental Challenges: A Review. *Current Research in Microbial Sciences*, 100352.
- 3) Lee, L. X., Fauzi, N. F. E. M., Roslan, A. M., Ariffin, H., Yusoff, M. Z. M., Ramli, N., & Abdul-Mutalib, N. A. (2025). Evaluating grease trap management practices: A case study from Seri Kembangan, Malaysia. *Journal of Environmental Management*, 373, 123935.
- 4) Lee, L.X., Haslan, H.A., Tan, P.Q., Mohamed Fauzi, N.F.E., Roslan, A.M., Ariffin, H., Mohd Yusoff, M.Z., Ramli, N. and Abdul-Mutalib, N.A. (2025). Physicochemical changes and emissions impact during co-composting of grease trap solid waste and rice husk. *International Journal of Environmental Science and Technology*, 1-18.
- 5) Samsuri, I. A., Yusoff, M. Z. M., Hassan, M. A., Sharaai, A. H., Ramli, N., Farid, M. A. A., ... & Maeda, T. (2025). Evaluating greenhouse gas reduction in Seremban, Malaysia: A pilot study on biogas production from organic municipal solid waste. *Energy for Sustainable Development*, 86, 101718.
- 6) Ali, N. L., Foo, H. L., Ramli, N., Halim, M., & Thalij, K. M. (2025). Efficient Assessment and Optimisation of Medium Components Influencing Extracellular Xylanase Production by *Pediococcus pentosaceus* G4 Using Statistical Approaches. *International Journal of Molecular Sciences*, 26(15), 7219.
- 7) Sabri, I., Yusoff, M. Z. M., Muhammad, N. A. N., Ho, L. S., & Ramli, N. (2024). Enhancing polyhydroxyalkanoate (PHA) production from phenol through fermentation strategies: A review. *AsPac J. Mol. Biol. Biotechnol.*, 32 (4) (Special Issue): 38-50.
- 8) Arisah, F. M., Ramli, N., Ariffin, H., Maeda, T., Farid, M. A. A., & Yusoff, M. Z. M. (2024). Novel Insights into Cr (VI)-Induced Rhamnolipid Production and Gene Expression in *Pseudomonas aeruginosa* RW9 for Potential Bioremediation. *Journal of Microbiology and Biotechnology*, 34(9), 1877.
- 9) Mat Arisah, F., Ramli, N., Ariffin, H., Maeda, T., Ahmad Farid, M. A., & Yusoff, M. Z. M. (2024). *Pseudomonas aeruginosa*-mediated cr (VI) bioremediation: mechanistic insights and future directions. *Bioremediation Journal*, 1-31.
- 10) Izan, N.L.M., Bahrin, E.K., Ariffin, H., Yusoff, M.Z.M., Ramli, N. (2024). Identification and evaluation of locally isolated fungi through rapid screening for potential mycelium-based biofoam application in Malaysia. *Malaysian Applied Biology*, 53(2), pp. 101–113.
- 11) Zainudin, M.H.M., Mohd Yusoff, M.Z., Ramli, N., Mohd Yasin, N.H. (2024). Editorial: Sustainable agricultural and livestock waste management through composting. *Frontiers in Sustainable Food Systems*, 8, 1412594.
- 12) Sharuddin, S. S., Ramli, N., Yusoff, M. Z., Muhammad, N. A., Ho, L. S., & Maeda, T. (2023). Insights into bacterial community metatranscriptome and metabolome in river water influenced by palm oil mill effluent final discharge. *Journal of Applied Microbiology*, 134(10), 1xad219.
- 13) Nik-Pa, N. I. M., Sobri, M. F. M., Zolkefli, N., Abd-Aziz, S., Faizal, M., Ibrahim, N. B. M. A., & Ramli, N. (2023). Deciphering the molecular landscape: In-silico analysis of cyclodextrin glycosyltransferase for enhanced enzyme functionality and cyclodextrin synthesis. *Malaysian Journal of Biochemistry & Molecular Biology*, 2, 45-54.
- 14) Koyum, K. A., Foo, H. L., Ramli, N., & Loh, T. C. (2023). Biotransformation of gluten-free composite flour mediated by probiotics via solid-state fermentation process conducted under different moisture contents. *Frontiers in Nutrition*, 10.
- 15) Sharuddin, S. S., Ramli, N., Yusoff, M. Z. M., Muhammad, N. A. N., Ho, L. S., & Maeda, T. (2022). Advancement of Metatranscriptomics towards Productive Agriculture and Sustainable Environment: A Review. *International Journal of Molecular Sciences*, 23(7), 3737.
- 16) Fairus, M. J. B. M., Bahrin, E. K., Arbaain, E. N. N., & Ramli, N. (2022). Mycelium-based composite: A way forward for renewable material. *J. Sustain. Sci. Manag*, 17, 271-280.
- 17) Jaini, M. F. M., Roslan, N. F., Yusof, M. T., Saidi, N. B., Ramli, N., Zainudin, N. A. I. M., & Hashim, A. M. (2022). Investigating the potential of endophytic lactic acid bacteria isolated from papaya seeds as plant growth promoter and antifungal agent. *Pertanika Journal of Tropical Agricultural Science*, 45(1):207-233.
- 18) Mohamad-Zainal, N. S. L., Ramli, N., Zolkefli, N., Jamari, N. A., Mustapha, N. A., Hassan, M. A., & Maeda, T. (2021). Zero-emission of palm oil mill effluent final discharge promoted bacterial biodiversity rebound in the receiving water system. *Applied Sciences*, 11(22), 10814.

- 19) Mat Arisah, F., Amir, A. F., **Ramli, N.**, Ariffin, H., Maeda, T., Hassan, M. A., & Mohd Yusoff, M. Z. (2021). Bacterial resistance against heavy metals in *Pseudomonas aeruginosa* RW9 involving hexavalent chromium removal. *Sustainability*, 13(17), 9797.
- 20) Mohamad-Zainal, N. S. L., **Ramli, N.**, Zolkefli, N., Mustapha, N. A., Hassan, M. A., & Maeda, T. (2021). Survivability of *Alcaligenaceae* and *Chromatiaceae* as palm oil mill effluent pollution bioindicators under fluctuations of temperature, pH and total suspended solid. *Journal of Bioscience and Bioengineering*, 132(2), 174-182.
- 21) Zolkefli, N., **Ramli, N.**, Mohamad-Zainal, N. S. L., Mustapha, N. A., Yusoff, M. Z. M., Hassan, M. A., & Maeda, T. (2020). *Alcaligenaceae* and *Chromatiaceae* as pollution bacterial bioindicators in palm oil mill effluent (POME) final discharge polluted rivers. *Ecological Indicators*, 111, 106048.
- 22) Mohamad Sobri, M. F., Abd-Aziz, S., Abu Bakar, F. D., & **Ramli, N.** (2020). *In-silico* characterization of glycosyl hydrolase family 1  $\beta$ -glucosidase from *Trichoderma asperellum* UPM1. *International Journal of Molecular Sciences*, 21(11), 4035.
- 23) Nik-Pa, N. I. M., Sobri, M. F. M., Abd-Aziz, S., Ibrahim, M. F., Kamal Bahrin, E., Mohammed Alitheen, N. B., & **Ramli, N.** (2020). Combined optimization of codon usage and glycine supplementation enhances the extracellular production of a  $\beta$ -cyclodextrin glycosyltransferase from *Bacillus* sp. NR5 UPM in *Escherichia coli*. *International Journal of Molecular Sciences*, 21(11), 3919.
- 24) Zolkefli, N., **Ramli, N.**, Mohamad-Zainal, N. S. L., Mustapha, N. A., Yusoff, M. Z. M., Hassan, M. A., & Maeda, T. (2020). A review of current and emerging approaches for water pollution monitoring. *Water*, 12(12), 3417.
- 25) Zainudin, M. H., Mustapha, N. A., Maeda, T., **Ramli, N.**, Sakai, K., & Hassan, M. (2020). Biochar enhanced the nitrifying and denitrifying bacterial communities during the composting of poultry manure and rice straw. *Waste Management*, 106, 240-249.
- 26) Mohd-Nor, D., **Ramli, N.**, Sharuddin, S.S., Hassan, M.A., Mustapha, N.A., Ariffin, H., Sakai, K., Tashiro, Y., Shirai, Y., Maeda, T. (2019). Dynamics of microbial populations responsible for biodegradation during the full-scale treatment of palm oil mill effluent. *Microbes and Environments*, 34(2), 121-128
- 27) Nik-Pa, N.I.M., Abd-Aziz, S., Ibrahim, M.F., Alitheen, N.B.M., **Ramli, N.** (2019). Improved extracellular secretion of  $\beta$ -cyclodextrin glycosyltransferase from *Escherichia coli* by glycine supplementation without apparent cell lysis. *Asia-Pacific Journal of Molecular Biology and Biotechnology*, 27(2), 93-102
- 28) Mohd-Ariff, I.N., Bahrin, E.K., **Ramli, N.**, Abd-Aziz, S. (2019). Direct use of spent mushroom substrate from *Pleurotus pulmonarius* as a readily delignified feedstock for cellulase production. *Waste and Biomass Valorization*, 10(4), 839-850
- 29) Mohamad, N., **Ramli, N.**, Abd-Aziz, S., Ibrahim, M.F. (2019). Comparison of hydro-distillation, hydro-distillation with enzyme-assisted and supercritical fluid for the extraction of essential oil from pineapple peels. *3 Biotech*, 9(6), Article number 234
- 30) Hisham, N.H.M.B., Ibrahim, M.F., **Ramli, N.**, Abd-Aziz, S. (2019). Production of biosurfactant produced from used cooking oil by *Bacillus* sp. HIP3 for heavy metals removal. *Molecules*, 24;2617.
- 31) Samsudin, M.H., Hassan, M.A., Idris, J., **Ramli, N.**, Yusoff, M.Z.M., Ibrahim, I., Othman, M.R., Ali, A.A.M., Shirai, Y. (2019). A one-step self-sustained low temperature carbonization of coconut shell biomass produced a high specific surface area biochar-derived nano-adsorbent. *Waste Management & Research*, 37(5); 551-555
- 32) Arbaain, E.N.N., Bahrin, E.K., Mohd Noor, N., Ibrahim, M.F., **Ramli, N.**, Abd-Aziz, S. (2019). Chemical-free pretreatment of unwashed oil palm empty fruit bunch by using locally isolated fungus (*Schizophyllum commune* ENN1) for delignification. *Food and Bioproducts Processing*, 118: 207-216.
- 33) Mohd-Nor, D., **Ramli, N.**, Sharuddin, S.S., Hassan, M.A., Mustapha, N.A., Amran, A., Sakai, K., Shirai, Y., Maeda, T. (2018). *Alcaligenaceae* and *Chromatiaceae* as reliable bioindicators present in palm oil mill effluent final discharge treated by different biotreatment processes. *Ecological Indicators*, 95, 468-473.
- 34) Sharuddin, S. S., **Ramli, N.**, Mohd-Nor, D., Hassan, M. A., Maeda, T., Shirai, Y., ... & Tashiro, Y. (2018). Shift of low to high nucleic acid bacteria as a potential bioindicator for the screening of anthropogenic effects in a receiving river due to palm oil mill effluent final discharge. *Ecological Indicators*, 85, 79-84.
- 35) Mustapha, N. A., Hu, A., Yu, C. P., Sharuddin, S. S., **Ramli, N.**, Shirai, Y., & Maeda, T. (2018). Seeking key microorganisms for enhancing methane production in anaerobic digestion of waste sewage sludge. *Applied Microbiology and Biotechnology*, 102, 5323-5334.
- 36) Sharuddin, S. S., **Ramli, N.**, Hassan, M. A., Mustapha, N. A., Amran, A., Mohd-Nor, D., ... & Maeda, T. (2017). Bacterial community shift revealed *Chromatiaceae* and *Alcaligenaceae* as potential bioindicators in the receiving river due to palm oil mill effluent final discharge. *Ecological Indicators*, 82, 526-529.

- 37) Zulkarnain, A., Bahrin, E. K., **Ramli, N.**, Phang, L. Y., & Abd-Aziz, S. (2018). Alkaline hydrolysate of oil palm empty fruit bunch as potential substrate for biovanillin production via two-step bioconversion. *Waste and Biomass Valorization*, 9, 13-23.
- 38) Zainudin, M. H. M., **Ramli, N.**, Hassan, M. A., Shirai, Y., Tashiro, K., Sakai, K., & Tashiro, Y. (2017). Bacterial community shift for monitoring the co-composting of oil palm empty fruit bunch and palm oil mill effluent anaerobic sludge. *Journal of Industrial Microbiology and Biotechnology*, 44(6), 869-877.
- 39) Mustapha, N. A., Sharuddin, S. S., Zainudin, M. H. M., **Ramli, N.**, Shirai, Y., & Maeda, T. (2017). Inhibition of methane production by the palm oil industrial waste phospholine gum in a mimic enteric fermentation. *Journal of Cleaner Production*, 165, 621-629.
- 40) Chin, C. F. S., Furuya, Y., Zainudin, M. H. M., **Ramli, N.**, Hassan, M. A., Tashiro, Y., & Sakai, K. (2017). Novel multifunctional plant growth-promoting bacteria in co-compost of palm oil industry waste. *Journal of Bioscience and Bioengineering*, 124(5), 506-513.
- 41) Ibrahim, M. F., **Ramli, N.**, Bahrin, E. K., & Abd-Aziz, S. (2017). Cellulosic biobutanol by *Clostridia*: Challenges and improvements. *Renewable and Sustainable Energy Reviews*, 79, 1241-1254.
- 42) Soo, C. S., Yap, W. S., Hon, W. M., Ramli, N., Shah, U. K. M., & Phang, L. Y. (2017). Improvement of hydrogen yield of ethanol-producing *Escherichia coli* recombinants in acidic conditions. *Electronic Journal of Biotechnology*, 26, 27-32.
- 43) Soo, C. S., Yap, W. S., Hon, W. M., **Ramli, N.**, Shah, U. K. M., & Phang, L. Y. (2017). Improvement of hydrogen yield of ethanol-producing *Escherichia coli* recombinants in acidic conditions. *Electronic Journal of Biotechnology*, 26, 27-32.
- 44) Soo, C. S., Yap, W. S., Hon, W. M., **Ramli, N.**, Shah, U. K. M., & Phang, L. Y. (2017). Co-production of hydrogen and ethanol of *Escherichia coli* SS1 isolate. *Chiang Mai J Sci*, 44, 768-73.
- 45) **Ramli, N.**, Abd-Aziz, S., Alitheen, N. B., Hassan, M. A., & Maeda, T. (2013). Improvement of cyclodextrin glycosyltransferase gene expression in *Escherichia coli* by insertion of regulatory sequences involved in the promotion of RNA transcription. *Molecular Biotechnology*, 54, 961-968.
- 46) **Ramli, N.**, Abd-Aziz, S., Hassan, M. A., Alitheen, N. B., Kamaruddin, K., & Ibrahim, Z. (2011). Molecular cloning and extracellular expression of cyclodextrin glycosyltransferase gene from *Bacillus* sp. NR5 UPM. *African J. Microb. Res*, 5, 3475-3482.
- 47) **Ramli, N.**, Abd-Aziz, S., Hassan, M. A., Alitheen, N., & Kamaruddin, K. (2010). Potential cyclodextrin glycosyltransferase producer from locally isolated bacteria. *African Journal of Biotechnology*, 9(43), 7317-7321.

J. PROJEK PENYELIDIKAN TERDAHULU ( <i>Past Research Project</i> )					
Project No.	Project Title	Role	Year	Source of fund	Status
GP-IPS/2025/981 9900	Biotransformation of phenol in black liquor into polyhydroxybutyrate for improved biocomposite materials with polylactic acid	Project Leader	2025-2027	UPM	On-going
FRGS/2024	Diversification of spent-biochar role during chicken manure composting to improve microbial succession and soil quality toward sustainable agriculture practice	Member	2024-2026	MOHE	On-going
HICOE MOHE	Carboxymethylation of cellulose nanofibrils for use as filler and coating material in oil palm biomass pulp-based products	Member	2023-2026	MOHE	On-going
FRGS/1/2022/ STG01/UPM/ 02/2	Investigation on the mechanism of phenol biodegradation by complex microbiome of palm oil mill effluent with simultaneous conversion into bioplastics	Project Leader	2022-2025	MOHE	Completed

	Commercialisation metrics and technology transfer professional enhancement in Malaysia HLIs and GRIs	Member	2023-2024	Ministry of Finance	Completed
DaSilva Award 2020	Creation of value-added products and pollution bacterial indicators towards the sustainability of palm oil industry	Project Leader	2020 - 2023	The Society for Biotechnology, Japan	Completed
PPRN	Development of antimicrobial coating for HVAC cooling coils	Project Leader	2022-2023	Matching (MOHE-Industry)	Completed
GP-IPM	Feasibility of limonite as an additive for reducing ammonium and hydrogen sulphide emissions from poultry manure and improving bird's growth performance	Member	2022-2024	UPM	On-going
	Development of Selangor Biotechnology Action Plan (SBAP)	Consultant	2020-2021	Invest Selangor	Completed
	Development of Pilot Scale Biodegradable Nanocomposite Production Facilities and Scale-Up Production of Nanocellulose and Biodegradable Nanocomposites	Member	2021-2022	Japan Science and Technology Agency (Through Kyushu Institute of Technology, Japan)	Completed
Matching Grant UPM-Kyutech/2020	Optimization of melt-processing conditions for the production of biodegradable polyhydroxyalkanoates/cellulose nanofibril bionanocomposite	Member	2020-2022	UPM/Kyutech	On-going
Matching Grant UPM-Kyutech/2019/9300463	Development of molecular-based indicator for biomonitoring the river water contamination due to palm oil mill effluent final discharge	Project Leader	2019 - 2022	UPM/Kyutech	Completed
Geran Putra Top Down UPM 2019/9671301	Production of biodiesel from used cooking oil in UPM Bintulu Campus	Member	2019 - 2021	UPM	On-going
GP/2018/9630500	Quantification of the functional genes amplification in the biodegradation of palm oil mill effluent for the determination of bioindicators in river water	Project Leader	2018 - 2020	UPM	Completed
GP-IPS/2018/9534600	Assessment of bacterial community shift in the river water polluted by palm oil mill effluent final discharge and post-zero emission system	Project Leader	2018 - 2020	UPM	Completed
FRGS	Assessment of bacterial community of polluted rivers	Project Leader	2017-2020	MoHE	Completed

(FRGS/1/2017/STG05/UPM/02/29)	caused by palm oil mill effluent final discharge and relationship with environmental factors for the development of bioindicator assessment system				
Geran Putra Berimpak	Valorisation of waste cooking oil and biodiesel side streams glycerine for sustainable production of biosurfactants by <i>Pseudomonas aeruginosa</i> strains	Member	2017-2019	UPM	Completed
SATREPS	Promotion of green economy with palm oil industry for biodiversity conservation in Malaysia	Member	2014-2018	MoHE	Completed
FRGS	Characterization of biosurfactant from used cooking oil and interaction improvement for heavy metals removal	Member	2014-2017	MoHE	Completed
GP-IPS/2014/942 9400	Molecular cloning of $\beta$ -glucosidase gene into <i>Candida tropicalis</i> for enhancement of ethanol production from oil palm empty fruit bunch	Project Leader	2014-2016	UPM	Completed
GP-IPM	Enzyme assisted extraction of essential oils from pineapple wastes using crude cellulase cocktail	Member	2014-2016	UPM	Completed
GP-IPM/2013/940 2000	Molecular cloning of cellulase structural gene into <i>Candida tropicalis</i> for one-step bioconversion of oil palm biomass into bioethanol	Project Leader	2013-2015	UPM	Completed
FRGS/2/2013/SG05/UPM/02/17	Characterization of a novel thermostable cyclodextrin glycosyltransferase and the promotion of RNA transcription for production improvement of recombinant enzyme	Project Leader	2013-2016	MoHE	Completed

<b>K. PENYELIAAN (Supervision)</b>								
Category	Current Student				Graduate			
	PhD	Master/MSKK	Bachelor	Total	PhD	Master/MSKK	Bachelor	Total
Chairman	3	1	2	6	3	6	26	35
Member	4	1	-	5	3	8	-	11
Total	7	2	2	11	6	14	26	46