

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI <i>(Personal Details)</i>			
Nama Penuh <i>(Full Name)</i>	MIRA SYAHFRIENA BINTI AMIR RAWA		Gelaran <i>(Title)</i> : DR.
No. MyKad / No. Pasport <i>(Mykad No. / Passport No.)</i> 900929-14-5756	Warganegara <i>(Citizenship)</i> MALAYSIAN	Bangsa <i>(Race)</i> MALAY	Jantina <i>(Gender)</i> FEMALE
Jawatan <i>(Designation)</i>	SENIOR LECTURER	Tarikh Lahir <i>(Date of Birth)</i>	29 SEPT 1990

Alamat Semasa <i>(Current Address)</i>	Jabatan/Fakulti <i>(Department/Faculty)</i>	E-mel dan URL <i>(E-mail Address and URL)</i>
Department of Cell and Molecular Biology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia 43400 Serdang, Selangor	Department of Cell and Molecular Biology, Faculty of Biotechnology and Biomolecular Sciences, Universiti Putra Malaysia 43400 Serdang, Selangor	mirasyahfrien@upme.du.my https://profile.upm.edu.my/mirasyahfrien H/P: 019-996 3903

B. KELAYAKAN AKADEMIK <i>(Academic Qualification)</i>			
Nama Sijil / Kelayakan <i>(Certificate / Qualification obtained)</i>	Nama Sekolah Institusi <i>(Name of School / Institution)</i>	Tahun <i>(Year obtained)</i>	Bidang pengkhususan <i>(Area of Specialization)</i>
Ph.D.	RIKEN, Japan / Universiti Sains Malaysia	2020	Pharmaceutical Technology
Master of Medical Science	Universiti Malaya	2016	Parasitology
Bachelor of Science	State University of New York (SUNY) at Buffalo	2013	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					✓

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (<i>Scientific experience and Specialisation</i>)				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
University of Wisconsin-Madison	Postdoctoral Research Associate	Jun 2023	May 2025	Metabolomics
Universiti Sains Malaysia	Postdoctoral Fellow/Undergraduate Instructor	Aug 2021	May 2023	Natural product characterization
RIKEN, Japan	Scientist I	Apr 2020	Mar 2021	Natural product characterization from <i>Trichoderma</i> sp.
RIKEN, Japan	International Program Associate	Apr 2017	Mar 2020	Natural product characterization medicinal plants
Universiti Sains Malaysia	Research Officer	Jul 2016	Mar 2020	Pharmaceutical technology
Universiti Malaya	Graduate Research Assistant	Sep 2013	Mar 2016	Genetics and molecular biology of <i>Plasmodium knowlesi</i>
SUNY Buffalo	Undergraduate Lab Assistant	Jan 2013	May 2013	Molecular biology

E. PEKERJAAN (<i>Employment</i>)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Universiti Putra Malaysia	Senior Lecturer	Department of Cell and Molecular Biology, Faculty of Biotechnology and Biomolecular Sciences	Apr 2026	Current
University of Wisconsin-Madison	Postdoctoral Research Associate	Department of Medical Microbiology and Immunology	Jun 2023	May 2025
Universiti Sains Malaysia	Postdoctoral Fellow/Undergraduate Instructor	School of Pharmaceutical Sciences	Aug 2021	May 2023
RIKEN, Japan	Scientist I	CSRS Chemical Biology	Apr 2020	Mar 2021

F. ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)				
<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
Academic Awards	1. UW-Madison Postdoctoral Fellowship	UW-Madison	International	2023-2025

	2. RIKEN International Program Associate Fellowship 3. Undergraduate Dean's List 4. Malaysian Government Academic Excellence Scholarship	RIKEN SUNY Buffalo MARA	International University National	2017-2020 2009, 2012 2009-2013
Non-Academic Awards	1. Second Place, Research Presentation Award, Perlman Symposium 2. Highlighted Article, Journal of Antibiotics 3. Sanggar Sanjung Award for Excellent Journal Publication 4. Undergraduate CURCA Research Award	UW-Madison Nature Publication Universiti Sains Malaysia SUNY Buffalo	International International University University	2025 2021 2020 2013

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

Journal	Rawa, M. S. A., Haefner, B., Nickles, G. R., Ramirez, E. A., Keller, N. P., & Eagan, J. L. (2026). Genetic dereplication of multiple <i>Penicillium expansum</i> biosynthetic gene clusters reveals cryptic penta-cyclopeptide production. <i>Journal of Natural Products</i>, 2026, 89(3), 912–924. - Guarav, K., J. L, Oster, L. D. S., Rawa, M. S. A., Ramírez, E. A., Bok, J. W., Suen, P. H., Driscoll, B. E., Salogiannis, J., Keller, N. P., & Reck-Peterson S. L. (2026). Endosome motility controls light-responsive reproductive development and secondary metabolite production in <i>Aspergillus</i>. <i>BioRxiv</i>. 2026.03.03.70809 - Otoo, B., Calise, D.G., Park, S.C., Bok, J.W., Keller, N.P. and Rawa, M.S.A. (2025). ZfpA-dependent quorum sensing shifts in morphology and secondary metabolism in <i>Aspergillus flavus</i>. <i>Environmental Microbiology</i>, 27: e70100. - Eagan, J. L., Digman, E. R., Boon, M., Regalado, R., Rawa, M. S. A., Hull, C. M., & Keller, N. P. (2025). Patulin inhibition of specific apple microbiome members uncovers <i>Hanseniaspora uvarum</i> as a potential biocontrol agent. <i>Phytopathology</i>, 2024. https://doi.org/10.1094/PHYTO-06-24-0189-R. - Seo, H. W., Wassano, N. S., Rawa, M. S. A., Nickles, G. R., Damasio, A., & Keller, N. P. (2024). A timeline of biosynthetic gene cluster discovery in <i>Aspergillus fumigatus</i>: From characterization to future perspectives. <i>Journal of Fungi</i>, 10(4), 266. https://doi.org/10.3390/jof10040266.
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6. Ahmad, R., Mazlan, M. K. N., Aziz, A. F. A., Ghazalli, A. M., **Rawa, M. S. A.**, & Wahab, H. A. (2023). *Phaleria macrocarpa* (Scheff.) Boerl.: An updated review of pharmacological effects, toxicity studies, and separation techniques. *Saudi Pharmaceutical Journal*, 31(6), 874-888.
7. **Rawa, M. S. A.**, Al-Thiabat, M. G., Nogawa, T., Futamura, Y., Okano, A., & Wahab, H. A. (2022). Naturally occurring 8 β ,13 β -kaur-15-en-17-al and anti-malarial activity from *Podocarpus polystachyus* leaves. *Pharmaceuticals*, 15(7), 902.
8. **Rawa, M. S. A.**, Mazlan, M. K. N., Ahmad, R., Nogawa, T., & Wahab, H. A. (2022). Roles of *Syzygium* in anti-cholinesterase, anti-diabetic, anti-inflammatory, and antioxidant: from Alzheimer's perspective. *Plants*, 11(11), 1476.
9. **Rawa, M. S. A.**, Azman, N. A. N., Mohamad, S., Nogawa, T., & Wahab, H. A. (2022). In-vitro and in-silico anti-acetylcholinesterase activity from *Macaranga tanarius* and *Syzygium jambos*. *Molecules*, 27(9), 2648.
10. **Rawa, M. S. A.**, Nogawa, T., Okano, A., Futamura, Y., Wahab, H. A., & Osada, H. (2021). Zealpeptaibolin, an 11-mer cytotoxic peptaibol group with 3 Aib-Pro motifs isolated from *Trichoderma* sp. RK10-F026. *Journal of Antibiotics*, 74, 485-495.
11. **Rawa, M. S. A.**, Nogawa, T., Okano, A., Futamura, Y., Nakamura, T., Wahab, H. A., Osada, H. (2021). A new peptaibol, RK-026A, from the soil fungus *Trichoderma* sp. RK10-F026 by culture condition-dependent screening. *Bioscience, Biotechnology & Biochemistry*, 85(1), 69-76.
12. **Rawa, M. S. A.**, Hassan, Z., Murugaiyah, V., Nogawa, T., & Wahab, H. A. (2019). Anti-cholinesterase potential of diverse botanical families from Malaysia: Evaluation of crude extracts and fractions from liquid-liquid extraction and acid-base fractionation. *Journal of Ethnopharmacology*, 245, 112160.
13. **Rawa, M. S. A.**, Fong, M. Y., & Lau, Y. L. (2016). Genetic diversity and natural selection in the rhoptry-associated protein 1 (RAP-1) of recent *Plasmodium knowlesi* clinical isolates from Malaysia. *Malaria Journal*, 15(1), 62.
14. AlHawarri, M. B., Dianita, R., **Rawa, M. S. A.**, Nogawa, T., & Wahab, H. A. (2023). Potential anti-cholinesterase activity of bioactive compounds extracted from *Cassia grandis* L.f. and *Cassia timoriensis* DC. *Plants*, 12(2), 344.
15. Lai, M. Y., Rafieqin, N., Lee, P. Y., **Amir Rawa, M. S.**, Dzul, S., Yahaya, N., Abdullah, F. H., Othman, N., Jelip, J., Ooi, C. H., Ibrahim, J., Aung, M., Abdullah, A. H., Laili, Z. & Lau, Y. L. (2021). High incidence of *Plasmodium knowlesi* malaria compared to other human malaria species in several hospitals in Malaysia. *Tropical Biomedicine*, 38(3): 248-253.
16. Azman, N. A. N., Alhawarri, M. B., **Rawa, M. S. A.**, Dianita, R., Gazzali, A. M., Nogawa, T., Wahab, H. A. (2020). Potential Anti-acetylcholinesterase activity of *Cassia timorensis* DC. *Molecules*, 25(19), 4545.

	17. Riswanto, F. D. O., Rawa, M. S. A., Murugaiyah, V., Salin, N. H., Istyastono, E. P., Hariono, M., & Wahab, H. A. (2019). Anti-cholinesterase activity, of chalcone derivatives: Synthesis, in-vitro assay, and molecular docking study. <i>Medicinal Chemistry</i>, 17(5), 442-452. 18. Kumaran, K. R., Ahad, M. A., Rawa, M. S. A., Wahab, H., & Hassan, Z. (2019). Potential Malaysian medicinal plants for the treatment of Alzheimer's disease. <i>Australian Herbal Insight</i>, 1(4).
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