

## INDEXED-JOURNALS

1. A. Samad, A.F., Rahnamaie-Tajadod, R., Muhammad Sajad, Jani, J., Abdul Murad, A.M., Normah, M.N. & Ismail, I. 2019. Regulation of terpenoid biosynthesis by miRNA in *Persicaria minor* induced by *Fusarium oxysporum*. *BMC Genomics* (2019) 20:586. (Q1/ISI & SCOPUS)
2. A'wani Aziz, N., Mayalvanan, Y. & Baharum, S.N. 2019. Metabolite profiling of *Epinephelus fuscoguttatus* infected with vibriosis reveals Omega 9 as potential metabolite biomarker. *Fish Physiology and Biochemistry* DOI 10.1007/s10695-019-00633. (Q2/ISI & SCOPUS)
3. Ab Ghani, N.S., Ramlan, R.I., Raih, M.F. 2019. Drug ReposER: a web server for predicting similar amino acid arrangements to known drug binding interfaces for potential drug *repositioning*. *Nucleic Acids Research* 47: 350-356. (Q1/ISI & SCOPUS)
4. Abu Bakar, Z.H., Ahmad Damanhuri, H., Makpol, S., Wan Mohd Aizat W.K., Abdul Sani, N.F., Amir Hamzah, A.I.Z., Nor Aripin, K.N., Mohd Rani, M.D., Noh, N.A., Razali, R. & Mazlan, M. 2019. Effect of age on the protein profile of healthy Malay adults and its association with cognitive function competency. *Journal of Alzheimer's Disease* 70(Suppl 1): s43-s62. (Q2/ISI & SCOPUS)
5. Adib Ridzuan, N.R., Teoh, S.L., Abdul Rashid, N., Baharum, S.N., Othman, F. & Hussan, F. 2019. Protective effect of flavonoid-rich-fractions of *Polygonum minus* against cisplatin-induced DNA damage and apoptosis in rat liver. *Medicine & Health* 14(1)(Suppl): 1-250. (ISI & SCOPUS)
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7. Amirul-Aiman, A.J., Noraini, T., Nurul-Aini, C.A.C., Chung, R.C.K., Phupumirat, W., Ruzi, A.R., Bunawan, H., Idris, S., Suhaniza, R. 2019. Pollen morphology and harmomegathic characters of *Byttneria löfl.* Species (sterculiaceae s. S: subfam. Byttnerioideae). *Malaysian Applied Biology* 48(3): 19-26. (SCOPUS)
8. Azizan, K.A., Ibrahim, S., Abdul Ghani N.H. & Nawawi, M.F. 2019. Metabolomics approach to investigate phytotoxic effects of *Wedelia trilobata* leaves, litter and soil. *Plant Biosystems* <https://doi.org/10.1080/11263504.2018.1539042>. (Q3/ISI & SCOPUS)
9. Azman, A., Vasodavan, K., Joseph, N., Kumar, S., A Hamat, R., A Nordin, S., Wan M Aizat, Belkum, A.v. & Neela, V.K. 2019. Physiological and proteomic analysis of

- Stenotrophomonas maltophilia* grown under the iron-limited condition. *Future Microbiology* Vol. 14, No. 16. (Q2/ISI & SCOPUS)
10. C.R.A. Duff-Farrier, D.R. Mbanzibwa, S. Nanyiti, H. Bunawan, J.L. Pablo-Rodriguez, K.R. Tomlinson, A.M. James, T. Alicai, S.E. Seal, A.M. Bailey, G.D. Foster. 2019. Strategies for the Construction of Cassava Brown Streak Disease Viral Infectious Clones. *Molecular Biotechnology* 61(2): 93-101. (Q3/ISI & SCOPUS)
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  12. Fadzilah, N.H., Abdul Ghani, I. & Hassan, M. 2019. Proteomics as a tool for tapping potential of entomopathogens as microbial insecticides. *Archives of Insect Biochemistry and Physiology* 100 (1): e21520. (Q2/ISI & SCOPUS)
  13. Goh, H-H., Abu Bakar, S., Kamal Azlan, N.D., Zainal, Z. & Normah, M.N. 2019. Transcriptional reprogramming during Garcinia-type recalcitrant seed germination of *Garcinia mangostana*. *Scientia Horticulturae* 257 (2019) 108727. (Q1/ISI & SCOPUS)
  14. Hamezah, H.S., Durani, L.W., Yanagisawa, D., Ibrahim, N.F., Wan Mohd Aizat, Makpol, S., Wan Ngah, W.Z., Damanhuri, H.A. & Tooyama, I. 2019. Modulation of proteome profile in ABPP/PS1 mice hippocampus, medial prefrontal cortex, and striatum by palm oil derived tocotrienol-rich fraction. *Journal of Alzheimer's Disease* 2019;72(1):229-246. doi: 10.3233/JAD-181171. (Q2/ISI & SCOPUS)
  15. Harun, S., Abdullah-Zawawi, M-R., A-Rahman, M.R.A., Nor Muhammad, N.A. & Mohamed-Hussein, Z-A. 2019. SuCComBase: a manually curated repository of plant sulfur-containing compounds. *Database*, 2019, 1–9 doi:10.1093/database/baz021. (Q1/ISI & SCOPUS)
  16. Ilias, I.A., Negishi, K., Yasue, K. Jomura, N., Morohashi, K., Baharum, S.N., Goh, H-H. 2019. Transcriptome-wide effects of expansin gene manipulation in etiolated *Arabidopsis* seedling. *Journal of Plant Research* 132 (2):159–172. (Q2/ISI & SCOPUS)
  17. Ismail, S.N.F., Baharum, S.N., Fazry, S., Low, C.F. 2019. Comparative genome analysis reveals a distinct influence of nucleotide composition on virus host species specific interaction of prawn infecting nodavirus. *Journal of Fish Diseases* 2019;42:1761–1772. (Q1/ISI & SCOPUS)
  18. Jamaluddin, N.D., Rohani, E.R., Normah, M.N. & Goh, H-H. 2019. Transcriptome-wide effect of DE-ETIOLATED1 (DET1) suppression in embryogenic callus of *Carica papaya*. *Journal of Plant Research* (2019) 132:181–195. (Q2/ISI & SCOPUS)
  19. Kamaruzaman, K.A., Wan Mohd Aizat & Mat Noor, M. 2019. Mass spectrometry data of diabetic rat sperm proteome treated with *Gynura procumbens* aqueous extract. *F1000Research* 8(844): 1 – 7. (SCOPUS)
  20. Kannan M, Saad MM, Talip N, Baharum SN, Bunawan H. 2019. Complete genome sequence of Rice tungro bacilliform virus infecting Asian rice (*Oryza sativa*) in Malaysia. *Microbiology Resource Announcements* 8 (20): e00262-19. (SCOPUS)

21. Khalaf, A.A., Desa, S. & Baharum, S. 2019. Agricultural Waste Biodiesel Potential and Physicochemical Properties in Extracted Seeds Oil. *Journal of Advanced Research in Dynamical and Control Systems* Vol. 11, 04-Special Issue, 2019. (SCOPUS)
22. Low, C-F., Shamsir, M.S., Mohamed-Hussein, Z-A. & Baharum, S.N. 2019. Evaluation of potential molecular interaction between quorum sensing receptor, LuxP and prouper fatty acids: in-silico screening and simulation. *PeerJ* 7:e6568 DOI 10.7717/peerj.6568. (Q2/ISI & SCOPUS)
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24. M.S.M. Yusop, R. Ersoy, M.A. Akbar, M.F.M Saad, H.H. Goh, S.N. Baharum, H. Bunawan. 2019. First report of Bougainvillea chlorotic vein-banding virus causing chlorosis and vein banding of Bougainvillea spectabilis in Malaysia. *Plant Disease* <https://doi.org/10.1094/PDIS-02-19-0292-PDN>. (Q1/ISI & SCOPUS)
25. Mac Aogáin M, Tiew PY, Lim AYH, Low TB, Tan GL, Hassan T, Ong TH, Pang SL, Lee ZY, Gwee XW, Martinus C, Sio YY, Matta SA, Ong TC, Tiong YS, Wong KN, Narayanan S, Bijin Au V, Marlier D, Keir HR, Tee A, Abisheganaden JA, Koh MS, Wang Y, Connolly JE, Chew FT, Chalmers JD, Chotirmall SH. 2019. Distinct 'Immuno-Allertypes' of Disease and High Frequencies of Sensitisation in Non-Cystic-Fibrosis Bronchiectasis. *J Respir Crit Care Med* 199(7): 842–853. (Q1/ISI & SCOPUS)
26. Mamat, S. F., Azizan, K. A., Baharum, S.N., Mohd Noor, N. & Aizat, W. M. 2019. The influence of two solvent extraction ratios in GC-MS-based metabolomics of different *Garcinia mangostana* Linn. fruit tissues. *International Food Research Journal* 26(5): 1447-1457. (Q4/ISI & SCOPUS)
27. Mat Saad, M.F., Abdul Rahman, N. & Mohd Yusoff, M.Z. 2019. Hydrogen and methane production from co-digestion of food waste and chicken manure. *Pol. J. Environ. Stud.* 28(4): (2019), 1-10. (Q4/ISI & SCOPUS)
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29. Mazlan, O., Wan Mohd Aizat, Aziz Zuddin, N.S., Baharum, S.N. & Normah, M.N. 2019. Metabolite profiling of mangosteen seed germination highlights metabolic changes related to carbon utilization and seed protection. *Scientia Horticulturae* 243 (2019) 226–234. (Q1/ISI & SCOPUS)
30. Mohamad Jazamuddin, F., Wan Mohd Aizat, Goh, H-H., Low, C-F. & Baharum, S.N. 2019. Alternative RNA extraction method in *Vibrio vulnificus* infected brown-marbled grouper, *Epinephelus fuscoguttatus*. *Tropical Life Sciences Research* 30(2): 201–209. (SCOPUS)

31. Mohamad Yusop, M.S., Mat Saad, M.F., Talip, N., Baharum, S.N. & Bunawan, H. 2019. A Review on Viruses Infecting Taro (*Colocasia esculenta* (L.) Schott). *Pathogens* 2019, 8, 56; doi:10.3390/pathogens8020056. (ISI & SCOPUS)
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37. Pang, S.L., Ho, K.L., Waterman, J., Rambo, R.P., The, A.H., Mathavan, I., Harris, G., Beis, K., Say, Y.H., Anusha, M.S., Sio, Y.Y., Chew, F.T. & Ng C.L. 2019. Crystal structure and epitope analysis of house dust mite allergen Der f 21. *Scientific Reports* (2019) 9:4933. (Q1/ISI & SCOPUS)
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43. Remali, J., Mohamad Zin, N., Ng, C.L. Wan M. Aizat & John J.L Tiong 2019. Fenazin sebagai potensi antibiotik baru daripada *Streptomyces kebangsaanensis*. *Sains Malaysiana* 48(3)(2019): 543–553. (Q3/ISI & SCOPUS)
44. Rosandy, A.R., Yeoh, C.Y., Cheahh, Y.K. Abu Bakar, M., Muhamad, A. & Mohd Khal, R. 2019. Psychrotolerant actinobacteria *Barrientosimonas humi* 39T as a source of diketopiperazine. *Malaysian Journal of Analytical Science* 23(4) (2019): 748 – 762. (SCOPUS)
45. Shah, F.L.A., Ramzi, A.B., Baharum, S.N., Noor, N.M., Goh, H.H., Leow, T.C., Oslan, S.N. & Sabri, S. 2019. Recent advancement of engineering microbial hosts for the biotechnological production of flavonoids. *Molecular Biology Reports* <https://doi.org/10.1007/s11033-019-05066-1>. (Q3/ISI & SCOPUS)
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51. Wan Mohd Aizat, Ahmad-Hashim, F.H. & Syed Jaafar, S.N. 2019. Valorization of mangosteen, “The Queen of Fruits,” and new advances in postharvest and in food and engineering applications: A review. *Journal of Advanced Research* 20 (2019) 61–70. (Q1/ISI & SCOPUS)
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54. Yong, W.H., Al-Bajalan, H.M., Sage, E.E., Elangovan, D., Mat Yajit, N.L., Sarizan, N.M., Zitzmann, N., JL Kiappes, Hasbullah, S.A., Ismail, N.H. & Mackeen, M.M. 2019. Alpha-glucosidase inhibition of lactone intermediates of the iminosugar deoxynojirimycin. *Jurnal Teknologi* 81(5): 121 – 128. (ISI & SCOPUS)
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57. Zainal-Abidin, R-A., Abu-Bakar, N., Sew, Y-S., Simoh, S & Mohamed-Hussein, Z-A. 2019. Discovery of Functional SNPs via Genome-Wide Exploration of Malaysian Pigmented Rice Varieties. *International Journal of Genomics* Volume 2019, Article ID 4168045, 12 pages <https://doi.org/10.1155/2019/4168045>. (Q3/ISI & SCOPUS)

#### **NON-CITATION-INDEXED JOURNAL**

1. Adib Ridzuan, N.R., Teoh, S.L., Abdul Rashid, N., Othman, F., Baharum, S.N. & Hussan, F. 2019. Anti-inflammatory effect of *Polygonum minus* flavonoid-rich-fraction against cisplatin-induced hepatotoxicity in sprague dawley rats. *Research Updates in Medical Science Vol. 7 Issue Supplement 1 : 2019*.
2. Aleng, N-A., Mohamed-Hussein, Z-A., 2019. Computational Systems Biology Approach on Polycystic Ovarian Syndrome (PCOS). *Journal of Molecular and Genetic Medicine* 2019, 13:1 DOI:10.4172/1747-0862.1000392.

#### **PROCEEDING**

1. Mohammad Khalil, N., Baharum, S.N., Sa'ariwijaya, M.S.F., Sidik, N.M. & Sairi, F. 2019. Antioxidant activity of apple snail crude extracts. *AIP Conference Proceedings* 2111(1):040007. (SCOPUS)

#### **BOOKS**

1. Tan, L.W., Chew, J.K., Zainal, Z. 2019. Manipulasi genetik padi tahan kemarau. Penerbit UKM. ISBN 9789674128135.

2. Rosli, A.F., Baharum, S.N. & Goh, H.H. 2019. Merungkai kandungan fitokimia dalam kendi periuk kera (*Nepenthes sp.*). Penerbit UKM. ISBN 9789672388296.
3. Mamat, S.F., Baharum, S.F., Azizan, K.A., Normah, M.N. & Wan Mohd Aizat, W.K. 2019. Buah manggis proses pemasakan dan taburan sebatian kompleks. Penerbit UKM. ISBN 9789672288531.

#### CHAPTER IN BOOKS

1. Aziz, N.A., Adnan, L.A. & Baharum, S.N. 2019. The Effect of *Vibrio Vulnificus* Infection on Starved *Epinephelus Fuscoguttatus* Analysed Using GC-MS. In: Innovation For Sustainability and Green Technology: Degradation of Inanimate Forms (eds. Liyana Amalina Adnan, Nurhidaya Mohamad Jan, Hatika Kaco). pg. 17–36. USIM PRESS. ISBN 978-967-440-700-1.
2. Govender N., Mohamed-Hussein ZA., Wickneswari R. 2019. Transcriptomic View of *Jatropha curcas* L. Inflorescence. In: *Mulpuri S., Carels N., Bahadur B. (eds) Jatropha, Challenges for a New Energy Crop*. Springer, Singapore. ISBN 978-981-13-3103-9.
3. Marzaimi, I.N. & Wan Mohd Aizat. 2019. Bioactive Food as Dietary Interventions for Arthritis and Related Inflammatory Diseases. In: *Ronald Ross Watson & Victor R. Preedy (eds.), Bioactive Food as Dietary Interventions for Arthritis and Related Inflammatory Diseases (2nd edition)*. pg. 273-289. ISBN: 978-0-12-813820-5.
4. Mat-Sharani, S., Quay, D.H.X., Ng, C.L. & Raih, M-F. 2019. Structural Genomics. In: *Encyclopedia of Bioinformatics and Computational Biology*. pg. 1-7. Elsevier Inc. ISBN 9780128114148.
5. Ng, C.L. & Raih, M.F. 2019. Applications of Ribosomal RNA Sequence and Structure Analysis for Extracting Evolutionary and Functional Insights. In: *Encyclopedia of Bioinformatics and Computational Biology*. pg. 1-14. Elsevier Inc. ISBN 9780128114148.
6. Nor A. Nor Muhammad. 2019. Biological Database Searching. In: *Guenther, R. and Steel, D. (eds.), Encyclopedia of Bioinformatics and Computational Biology*, vol. 3, pp. 29–38. ISBN 9780128114322.

#### OTHER PUBLICATIONS

1. A. Rahaman, S.N., Mat Yusop, J., Mohamed-Hussein, Z-A., Wan Mohd Aizat, Ho, K.L., Teh, A-H., Waterman J., Tan, B.K., Tang, H.L., Li, A.L., Ee, S.C. & Ng, C.L. 2019. Structural and functional studies of human C1ORF123 protein reveal a zinc-binding domain and its potential role in mitochondrial oxidative phosphorylation. *27TH FAOBMB & 44TH ANNUAL MSBMB CONFERENCE 2019*. 19 - 22 August 2019, Berjaya Times Square Hotel Kuala Lumpur.
2. Aizat, M. Wan, Ibrahim, S., Rahnamie-Tajadod, R., Loke, K-K., Goh, H-H., Normah, M.N.. 2019. Methyl jasmonate elicitation on kesum (*Persicaria minor* Huds.) leaf triggered proteome changes related to defense and growth. *The 6th International*

*Biotechnology Symposium*. 10-11 July 2019, The Pacific Sutera Hotel, Kota Kinabalu, Sabah.

3. Baharum, S.N., Ahmad, R., Marzuki, N.F., Goh, Y.K., Azizan, K.A., Goh, Y.K. & Goh, K.J. 2019. Untargeted metabolite profiling of Mycoparasitic *Scytalidium parasiticum*, an antifungus agent using LC-TOF-MS. *Asia-Oceania Metabolomics Forum*. 21-22 November 2019, National University of Singapore. pg. 18.
4. Baharum, S.N., Veeramohan, R., Wan Mohd Aizat, Goh, H-H., Mansor, S.M., Mohd Yusof, N.S. & Ng, C.L. 2019. The metabolomics study of *Mitragyna speciosa* alkaloids. *27TH FAOBMB & 44TH ANNUAL MSBMB CONFERENCE* 2019. 19 - 22 August 2019, Berjaya Times Square Hotel Kuala Lumpur.
5. Basar, N., Elias, H.S., Othman, A., Baharum, S.N. & Azizan, K.A. 2019. Isolation, structure elucidation of lupeol, sterol group and chemical profiling of *Fortunella Polyandra* leaves using UPLC Q-TOF/MS. *The 32nd International Conference of Analytical Sciences* 2019. 14-16 August 2019, Thistle Port Dickson Resort.
6. Goh, H-H. 2019. A roadmap to low carbon economy. *New Straits Times* 14/12/2019.
7. Goh, H-H. 2019. Functional genomics of tropical plants. *Empowering agricultural research through (meta)genomics*. 25th - 28th June 2019, Faculty of Science, Kasetsart University, Bangkok
8. Goh, H-H. 2019. Metabolomics analysis of Nepenthes pitcher plants. *Asia-Oceania Metabolomics Forum*. 21-22 November 2019, National University of Singapore. pg. 34.
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10. Goh, H-H. 2019. Research attachment at National Institute of Genetics (NIG) in Mishima, Japan. Hosted by Professor Dr. Masanori Arita. *Lipoquality Newsletter*.
11. Goh, H-H. 2019. Transcriptomic analysis of mangosteen seed germination. *6th Plant Genomics and Gene Editing Congress: Asia, Microbiome for Agriculture Congress Asia*. 29 -30 July 2019, Grand Millennium Hotel Kuala Lumpur, Malaysia.
12. Goh, H-H. 2019. Network analysis of mangosteen seed germination. *27th FAOBMB & 44th MSBMB Conference*. 19-22 Aug 2019, Berjaya Times Square Hotel, Kuala Lumpur.
13. Goh, HH-H. 2019. We dislike GM Foods because we're ignorant about them. *New Straits Times*, August 8, 2019 @ 10:55pm.
14. Hassan, M. 2019. Ancaman racun serangga. *Mega Agro Utusan Malaysia*, 16 September 2019. pg. 24-25.
15. Hassan, M. 2019. Racun Mesra Alam Lebih Selamat. *Mega Agro Utusan Malaysia*, 16 September 2019.
16. Mamat, S.F., Baharum, S.N., Azizan, K.A., Normah, M.N. & Wan Mohd Aizat . 2019. Analysis of The Metabolite Changes During *Garcinia Mangostana* Linn. (Mangosteen) Ripening Using Metabolomics Approach. *3rd International Conference on Molecular*



*Biology and Biotechnology 2019 (ICMBB2019)*. 24-25th April 2019, UCSI Kuala Lumpur.

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