

INSTITUTE OF BIOSCIENCE

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Field of expertise : Plant Metabolomics



Research Interests:

- NMR-based metabolomics analysis of natural product extracts.

List of Publications: H index = 7

1. **Azizul Isha**, Nor Azah Yusof, Khozirah Shaari, Rosiah Osman, Wong Mui-Yun, Siti Nor Akmar Abdullah (2020). Metabolites identification of oil palm roots infected with *Ganoderma boninense* using GC-MS-based metabolomics. *Arabian Journal of Chemistry*, 13(7), 6191-6200.
2. **Azizul Isha**, Nor Azah Yusof, Rosiah Osman, Wong Mui-Yun, Siti Nor Akmar Abdullah (2020). NMR-based metabolomics reveals effect of *Ganoderma boninense* infection on oil palm leaf at 30 days post-infection. *Plant Omics Journal*, 13(1), 15-20.
3. **Azizul Isha**, Fowotade Sulayman Akanbi, Nor Azah Yusof, Rosiah Osman, Wong Mui-Yun, Siti Nor Akmar Abdullah (2019). An NMR metabolomics approach and detection of *Ganoderma boninense*-infected oil palm leaves using MWCNT-based electrochemical sensor, *Journal of Nanomaterials*, 2019, 1-12.
4. Shuaibu Babaji Sanusi, Mohd Fadzelly Abu Bakar, Maryati Mohamed, Siti Fatimah Sabran, **Azizul Isha** (2019). Effect of *Nepenthes ampullaria* Jack extract on the cell growth, cell membrane integrity, and morphology of mycobacterial cells. *Drug Invention Today*, 11(2), 209-215.
5. **Azizul Isha**, Nur A'thifah Yusof, Intan Safinar Ismail (2016). Harvesting age and time effect of *Andrographis paniculata* leaf on its anti-inflammatory activity, *Journal of Biosciences and Medicines*, 4(12), 175-188.
6. Mohd Fadzelly Abu Bakar, Nur Amalina Ismail, **Azizul Isha**, Angelina Lee Mei Ling (2016). Phytochemical composition and biological activities of selected wild berries (*Rubus moluccanus* L., *R. fraxinifolius* Poir., and *R. alpestris* Blume). *Evidence-Based Complementary and Alternative Medicine*, 2016, 1-10.
7. **Azizul Isha**, Radhakrishnan Narayanaswamy, Lam Kok Wai, Intan Safinar Ismail (2016). Molecular docking analysis of selected *Clinacanthus nutans* constituents as xanthine oxidase, nitric oxide synthase, human neutrophil elastase, matrix metalloproteinase 2, matrix metalloproteinase 9 and squalene synthase inhibitors. *Pharmacognosy Magazine* 12 (Suppl 1), S21.
8. Mazni Abu Zarin, Ho Yin Wan, **Azizul Isha**, Nurdin Armania (2016) Antioxidant, antimicrobial and cytotoxic potential of condensed tannins from *Leucaena leucocephala* hybrid-Rendang. *Food Science and Human Wellness*, 5(2), 65-75.
9. Nur A'thifah Yusof, **Azizul Isha**, Intan Safinar Ismail, Alfi Khatib, Khozirah Shaari, Faridah Abas, Yaya Rukayadi (2015). IR-Metabolomics approach in detecting changes of *Andrographis paniculata* metabolites due to different harvesting ages and times. *Journal of the Science of Food and Agriculture*, 95(12), 2533-2543.
10. Mohd Fadzelly Abu Bakar, Nor Ezani Ahmad, Monica Suleiman, Asmah Rahmat, **Azizul Isha** (2015). *Garcinia dulcis* fruit extract induced cytotoxicity and apoptosis in HepG2 liver cancer cell line. *BioMed Research International*, 2015, 1-10.

List of Grants:

1. Nanosensor for early detection of *Ganoderma boninense* and soil quality for control of the related disease. Long Term Research Grant Scheme-NanoMITE (LRGS-NanoMITE). 2015-2020. Co-Principal Investigator.
2. Metabolite Profiling of *Andrographis paniculata* using FT-NMR Spectroscopy for Quality Assessment. Research University Grant Scheme (RUGS)-Universiti Putra Malaysia. 2010-2012. Principal Investigator.

List of Book Chapter:

1. Nor Azah Yusof, **Azizul Isha** (2020). Nanosensors for early detection of plant diseases in A. Husen, M. Jawaid (Eds) *Nanomaterials for Agriculture and Forestry*, (pp. 407), Elsevier.