

INSTITUTE OF BIOSCIENCES

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Field of expertise : Molecular Biology

**Research Interests:**

My research interests are in cancer biology and the therapeutics potentials of natural products on cancer. I am working on development of 3D model(s) that provide cancer environment similar to real *in vivo* cancer tissues and utilising the 3D model(s) for testing potential natural products or any compounds of interest.

List of Publications: H index = 5

(Top 10 papers that are related to your research interest)

1. Kamarudin, A.A., Saad, N., Sayuti, N.H., Razak, N.A.A., Esa, N.M. 2020. Enhancement of phenolics and antioxidant activity via heat assisted extraction from moringa oleifera using response surface methodology and its potential bioactive constituents. Malaysian Journal of Medicine and Health Sciences 16(2), pp. 83-90.
2. Sayuti, N.H., Kamarudin, A.A., Ab. Razak, N.A., Saad, N., Pak Dek, M.S. and Mohd Esa, N. 2020. Optimized Aqueous Extraction Conditions for Maximal Phenolics, Flavonoids and Antioxidant Capacity from Artocarpus heterophyllus (Jackfruit) Leaves by Response Surface Methodology (RSM). Malaysian Journal of Medicine and Health Sciences 16(2), pp. 135-144.
3. Kamaruddin, A.A., Mohd Esa, N., Saad, N., Sayuti N.H. and Ab. Razak, N.A. 2020. Heat assisted extraction of phenolic compounds from Eleutherine bulbosa (Mill.) bulb and its bioactive profiles using response surface methodology. Industrial Crops and Products 144(112064). Q1 IF: 4.191
4. Jaafaru MS, Nordin N, Rosli R, Shaari K, Bako HY, Saad N, Noor NM, Abdull Razis AF. 2019. Neuroprotective effects of glucomoringin-isothiocyanate against H₂O₂-Induced cytotoxicity in neuroblastoma (SH-SY5Y) cells. Neurotoxicology: 89-104. (Q2) IF: 3.263
5. Saad, N., Alberio, R., Johnson, A.D., Emes, R.D., Giles, T.C., Clarke, P., Grabowska, Anna, M. and Allegrucci, C. 2018. Cancer reversion with oocyte extracts is mediated by cell cycle arrest and induction of tumour dormancy. Oncotarget 9(22): 16008-16027. (Q1) IF: 5.168
6. Saad, N., Mohd Esa, N. and Ithnin, H. 2013. Suppression of β -catenin and Cyclooxygenase-2 Expression and Cell Proliferation in Aoxozymethane-Induced Colonic Cancer in Rats by Rice Bran Phytic Acid (PA). Asian Pacific Journal Cancer of Cancer Prevention 14 (5): 3093-3099.
7. Shafie, N.H., Mohd Esa, N., Ithnin, H. Md Akim, A., Saad, N. and Pandurangan. 2013. Preventive Inositol Hexaphosphate Extracted from Rice Bran Inhibits Colorectal through Involvement of Wnt/ β -Catenin and COX-2 Pathways. BioMed Research International 681027.
8. Shafie N.H., Mohd Esa, N. I., Ithnin, H., Saad N. Pandurangan, A.K. 2013. Pro-Apoptotic Effect of Rice Bran Inositol Hexaphosphate (IP6) on HT-29 Colorectal Cancer Cells. International Journal of Molecular Sciences 14: 23545-23558.

9. S. Norazalina, M.E. Norhaizan, I. Hairuszah, M.S. Norashareena (2010). Anticarcinogenic efficacy of phytic acid extracted from rice bran on azoxymethane-induced colon carcinogenesis in rats. *Experimental and Toxicologic Pathology* 62: 259–268.

10. Saiful Yazan Latifah, Nurdin Armania, Tan Hern Tze, Yaacob Azhar, Abdul Hadi Nordiana, Saad Norazalina. 2010. Germinated brown rice (GBR) reduces the incidence of aberrant crypt foci with the involvement of β -catenin and COX-2 in azoxymethane-induced colon cancer in rats. *Nutrition Journal* 9:16.

List of Grants:

(Top 3 grants that are related to your research interest: PI or Co-PI)

<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
1.Evaluation of citral for targeting breast cancer ALDH ⁺ drug resistant cells	Project Leader	2017-2019	Universiti Putra Malaysia	Completed
2.Dissecting the potential of calreticulin as a prognostic biomarker of invasive breast cancer	Co-researcher	2017-2019	Universiti Putra Malaysia	Completed
3.Effect of temukut on azoxymethane (AOM)-induced colon cancer rats	Co-researcher	2010-2012	Ministry of Science and Technology, Malaysia	Completed

List of Book/Book Chapter:

- 1.Norazalina Saad, Nur Khatijah Mohd Zin, Shafinah Ahmad Suhaimi, Muhammad Ehsan Fitri Rusli, Norsharina Ismail, Siti Nurulhuda Mastuki, Rozita Rosli. 2019. Ricinoden dronheudelotii (Njangsa): Composition, Nutritional Values and Product. *Wild Fruits: Composition, Nutritional Value and Products* pp 301-311.
2. Norsharina Ismail, Nur Hanisah Azmi, Siti Nurulhuda Mastuki, Norazalina Saad, Ahmad Faizal Abdull Razis. 2019. Antidesma montanum: Biochemistry and Bioactive Compounds. *Wild Fruits: Composition, Nutritional Value and Products*: pp 359-365.
3. Siti Nurulhuda Mastuki, Siti Munirah Mohd Faudzi, Norsharina Ismail, Norazalina Saad, 2019. Muntingia calabura: Chemical Composition, Bioactive Component and Traditional Uses. *Wild Fruits: Composition, Nutritional Value and Products* pp 549-564.

List of Patent:

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