



NAME: MAZNAH ISMAIL

UNIT/DEPARTMENT: Nutrition and Dietetics

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FIELD OF SPECIALIZATION: Nutritional Biochemistry

CURRENT RESEARCH:

- | | | |
|----|-------------------|--|
| 1. | 2005-2007 | Project Leader (Contract Research) |
| | Title of Project: | Commercialisation of Stabilized Rice Bran Malaysia
Collaboration between UPM-Negeri Sembilan Biotech Satellite
National Biotech. Directorate (MOSTI) / Negeri Sembilan State |
| | Source of Fund | Economic Planning Unit
RM 1,000,000 |
| | Amount of Fund | On-going |
| | Status | |
- | | | |
|----|-------------------|---|
| 2. | 2005-2007 | Programme Leader (Contract Research) |
| | Title of Project: | Development of Nutraceuticals from Brown, Germinated Brown
Rices |
| | Source of Fund | BERNAS Sdn. Bhd |
| | Amount of Fund | RM 570,000 |
| | Status | On going |
- | | | |
|----|------------------|---|
| 3. | 2005 -2007 | Programme Leader (Contract Research) |
| | Title of Project | Development of Nutraceutical Product (Beverage Formulation)
from Black Seeds (Nigella sativa) with potential health benefits
Azi SmartLife Sdn. Bhd |
| | Source of Fund | RM 250,000 |
| | Amount of Fund | Negotiation |
| | Status | |

4.	2004-2007	Project Leader
	Title of Project	Development of Nutraceuticals from <i>Strobilanthes crispus</i> with cardioprotective properties
	Source of Fund	IRPA
	Amount of Fund	RM 201,500
	Status	Data collection
		<p>A number of papers have been published or presented at international and national seminars/conferences:</p> <p>- Nurhafzan Anis, I. & Maznah I. <i>Flavonoids Content of Strobilanthes crispus Leaves and Extracts by the Colorimetric and Reversed-Phase HPLC Method</i>. 20th Scientific Conference & Annual General Meeting, 24-25 Mac 2005, Crowne Plaza Mutiara Hotel, Kuala Lumpur.</p> <p>- Nurhafzan Anis, I. & Maznah I. <i>The Effect of JinBatu (Strobilanthes crispus) Extract on Lipid Profile of Hypercholesterolemia Induced Sprague Dowley Rats</i>. 19th Scientific Conference & Annual General Meeting, Nutrition Society of Malaysia, 25-26 March 2004, Prince Hotel & Residence, Kuala Lumpur.</p>
5	2004-2006	Project Leader
	Title of Project	Investigation of oryzanol absorption and interactions in Caco-2 cells and in animal model
	Source of Fund	MOE-competitive fundamental
	Amount of Fund	RM 100,000
	Status	Data collection

PUBLICATIONS:

- Journals

1. Azrina Azlan and Maznah Ismail. Extraction and Determination of Oryzanol in Rice Bran of Mixed Herbarium UKMB; AZ 6807: MR 185, AZ 6808: MR 211, AZ6809: MR 29. submitted to Cereal Chemistry, 2005
2. Azrina, A., Sokhini, A. M. and Maznah, I. Varying fat type using palm olein improved LDL/HDL in normo- to mild hypercholesterolemic subjects (submitted to Asia Pacific Journal of Clinical Nutrition, 2005)
3. Maznah I. & Catherine, B. D. Determination of total antioxidant activity and antioxidant properties in white rice, brown rice and germinated brown rice (GBR) (submitted to Journal of Food Composition and Analysis, 2005)
4. Maznah, I. & Ghanya, N. 2005. Fatty Acid Profile, α -tocopherol content and total antioxidant activity of oil extracted from *Nigella sativa* seeds. (Submitted to Journal of Food Composition and Analysis, June 2005).

5. Maznah, I. & Ghanya, N. Nutrients composition and minerals content of three different samples of *Nigella sativa* L. cultivated in Yemen. (Submitted to Journal of Food Chemistry, 2005).
6. Maznah, I., Ghanya, N., Zulkhairi, H. The effect of *Nigella sativa* L and its oil on atherogenesis in hypercholesterolemia induced rabbits. (Submitted to Asia Pacific Journal of Clinical Nutrition, 2005).
7. Maznah, I., Tai, C. K. & Rosita, M. H. Determination of selenium, vitamin E and omega-3 fatty acids of regular and nutrient-enriched eggs sold in Malaysia local markets. (sent to Journal of Food Composition and Analysis, 2005)
8. Maznah, I. and Wafaa, H. Gamma Oryzanol, fibre Content and Total Antioxidant Activity of rice bran produced from four Phases of Milling (submitted to Food Biochemistry, 2005)
- 9.. Maznah, I., Wan Nurulhidayah, W. S., Wahida, & Rosita, M. H. Determination of total antioxidant activity and selected antioxidant components in fresh, freeze- and spray-dried powders prepared from Malaysia's Best fruits (sent to Journal of Food Composition and Analysis, 2005)
10. Yap K.W., Yazid AM, Shuhaimi, M., I. Maznah, D. Meyer and Mohamed¹ S.

Microbial Distribution and Characterization of Bifidobacteria in stools of Formula-fed Infants supplemented with different doses of Inulin. Accepted with correction by J Nutrition and Food Science, 2005

- Conference Proceedings

1. Maznah Ismail and Azlina Mohd Danial (2002). *The effect of Strobilanthes crispus on malonaldehyde level and antioxidant activity of hypercholesterolemic rats.* XXI International conference on polyphenols, Marrakech-Morocco, September 9,2002
2. Maznah Ismail, Loh Su Peng, Hishamuddin Omar, Abdul Salam Abdullah and Rehir Dahalan (2001). *Bioavailability of Iron from Malaysian Foods Using Caco-2 Culture System.* International Congress of Nutrition, Vienna, Austria, August 27-31, 2001
3. Maznah Ismail, Loh Su Peng, Hishamuddin Omar, Abdul Salam Abdullah and Rehir Dahalan (2001). *A tracer study on the effect of Spirulina platensis on the bioavailability of iron in comparison to ferrous sulphate in the presence of calcium.* International Congress of Nutrition, Vienna, Austria, August 27-31, 2001
4. Maznah Ismail, Siti Sabariah Buhari, Zalilah Mohd. Shariff, Normah Hashim, Laily Paim, Norlijah Othman, Mohd. Sham Mohd Kassim, Rozita Abdul Talib, Abd Wahab Jantan, Zabidi Azhar Mohd Hussin (2001). *An outcome evaluation of nutrition promotion programme among Malaysian primary school children: A HELIC study.* International Congress of Nutrition, Vienna, Austria, August 27-31, 2001
5. Maznah Ismail, Loh Su Peng, Yim Hip Seng and Hishamuddin Omar (2001). *Bioavailability of iron from Spirulina platensis: Evaluation using Haemoglobin repletion in anaemic rats.* Bioavailability 2001, Interlaken, Switzerland, May 30- June 1, 2001.

6. Azlina Mohd. Danial, Maznah Ismail, Asmah Rahmat, Asmah Yahaya and Fauziah Othman (2000). *Effect of Strobilanthes crispus on the histology of rabbits aorta and coronary artery fed on high cholesterol diet*. International Seminar on the Role of Chemistry in Industry and Environment, August 30-31, 2000
7. (NOTE: was selected as the best five poster presentation)
8. Abdah Md. Akim, Asmah Rahmat, Maznah Ismail and Abdul Salam Abdullah (2000). *A study on total antioxidants activity in rice bran and the effect of rice bran extract on colon cancer cell line*. International Seminar on the Role of Chemistry in Industry and Environment, August 30-31, 2000
9. Huzaimah Abdul Sani, Asmah Rahmat and Maznah Ismail (2000). *Antioxidative activities of organic extracts of coleus amboinicus, culeus blumei and Amaranthus gangeticus compared to alpha-tocopherol and butylated hydroxytoluene (BHT)*. International Seminar on the Role of Chemistry in Industry and Environment, August 30-31, 2000.
10. Maznah Ismail and Teoh Sek Ling (1999). *Determination of total Antioxidant Activity of Selected Local Medicinal Plants*. An International Conference of Herbs, MINES, Serdang, Nov 9-12, 1999

TEACHING: Nutrition and Meatabolism, Nutraceuticals, Nutritional Biochemistry