

SCOTLAND, U.K

AUGUST 1983

M.Sc (Major: Biochemistry; Minor: Nutrition)
Department of Biochemistry
Faculty of Science
Louisiana State University
Baton Rouge, U.S.A

JULY 1980

B.Sc (Hons) (Biochemistry)
Department of Biochemistry
Faculty of Science
University of Salford
Salford, U.K.

1976 - 1977

GCE-A Levels
Southend-on Sea College of Technology
Southend-on Sea, England
U.K

AWARDS RECEIVED

PROFESSIONAL AWARD:

NATIONAL AWARD:

- 2016** **Bioeconomy Innovation of the Year.**
Awarded during BioMalaysia & ASEAN Bioeconomy Conference 2016.
- 2015** **The IRES Excellent Paper Award for the paper entitled “Pre-osteoblastic Cells Proliferative Property Of Bioactive Compounds In Germinated Brown Rice: A Promising In Vitro Potentials In Osteoporosis” for the category Best Presentation / Best Content**
Awarded during The IRES International Conference at the held in Dubai, UAE
- 2015** **Vice Chancellor Fellowship Award 2014**
Anugerah Inovasi dan Pengkomersilan
Awarded during Majlis Gemilang Akademia Putra 2015
- 2015** **Best 10 Researchers Award (Second)**
In conjunction with Faculty Excellence Month 2015
- 2014** **Vice Chancellor Fellowship Award 2013**
Anugerah Penerbitan Makalah Jurnal Terbaik
(Award for Best Journal Article)
Awarded during Majlis Gemilang Akademia Putra 2014
- 2014** **Best Researcher Award**
Awarded during Faculty of Medicine and Health, Universiti Putra Malaysia Science Research Week 2014
- 2013** **Best Researcher Award**
Awarded during Faculty of Medicine and Health, Universiti Putra Malaysia Science Research Week 2013

- 2013** **Vice Canselor Fellowship Award (Excellect Researcher Categyory)**
Awarded during Majlis Gemilang Akademia Putra 2012
- 2012** **Biolnnovation Awards (Biotechnology Innvovation of the Year)**
Awarded during BioMalaysia 2012 Conference & Exhibition
- 2012** **Year 2012 MTSF Science & Technology Award**
- 2012** **Anugerah Bakti Putra 2011**
Awarded during Majlis Gemilang Putra 2011
- 2011** **Service Excellent Award 2010**
- 2010** **Best Researcher Award**
Awarded in conjunction with the Institute of Bioscience Innovation Week 2010
- 2008** **Outstanding Researcher Award**
Top Patent Filing Award
Awarded in conjunction with Majlis Gemilang Akademia Putra, UPM 2009
- 2006** **Prominent Women Employee Award (Executive Group)**
Awarded in conjunction with Labour Day 2006 by the Ministry of Human Resources
- 2005** **Vice Chancellor Fellowship Award**
(Excellent in Research)
- 1996- 2008** **Service Excellent Award**
(Universiti Putra Malaysia)

INTERNATIONAL PROFESSIONAL AWARD

- 2007 -2008** **Visiting Scientist and fellowship**
International Atomic & Energy Agency Fellowship Award
Freie Universität Berlin
Department of Pharmacy
Pharmaceutical Technology, Biopharmaceutics &
Nutricosmetics, GERMANY
- 2008** **IAEA Visiting Scientist**
Dept of Pharmaceutical Technology
Trinity College
Dublin, IRELAND
- 2000** **Association of Commonwealth Universities Fellowship Award**
Tenable at the University of Manitoba, Canada
June – October 2000
- 2001** **International Atomic & Energy Agency Fellowship Award (IAEA)**
Tenable at the Institute of Food Research, Norwich, England

March – June 2001

RESEARCH AWARDS

International Competition

- 2009**
1. **Gold Medal** at The International Exhibition of Ideas Inventions New Products (iENA), Nuremberg, Germany, 5 Nov – 9 Nov 2009. Thymoquinone Rich Fraction Prepared from Nigella Sativa Seeds with Cardioprotective and Neuroprotective Properties.
 2. **Bronze Medal** at The International Exhibition of Ideas Inventions New Products (iENA), Nuremberg, Germany, 5 Nov – 9 Nov 2009. Development of Functional Food and Nutraceutical from Germinated Brown Rice
- 2004**
3. **Gold Medal** at the 32nd International Exhibition of Inventions, Techniques and Products at Geneva, Switzerland, 31st Mar – 4th April 2004. *E-Ory: Antioxidant Rich Nutraceutical Formulation.*

National Competition

- 2016**
4. **Gold Medal**
Extraction of Fixed Oil & Thymoquinone Rich Fraction (TQGOLD)
BioMalaysia & ASEAN Bioeconomy Conference 2016 (31 May – 02 June 2016)
- 2014**
5. **Gold Medal**
Aqua Gelatin: Halal Marine-Based Gelatin For Versatile Nutraceutical And Cosmeceutical Applications
Bioinnovation Awards 2014 (19 - 21 November 2014 KLCC)
- 2014**
6. **Gold Medal**
Premier Marine Collagen
Invention & Innovation Awards 2014
Malaysia Technology Expo 2014 (20-22 February 2014 KLCC)
- 2012**
7. **Gold Medal**
Kenaf Bio-Oil from Waste to Health and Wealth
BioMalaysia 2012 Conference & Exhibition (05 – 07 November 2012, KLCC)
- 2012**
8. **Silver Medal**
OrygoldTM: An Acylated Steryl Glycoside-Rich Product for Health enhancement and disease prevention
BioMalaysia 2012 Conference & Exhibition (05 – 07 November 2012, KLCC)
- 2011**
9. **Silver Medal**
Kenaf Bio Oil from Waste to Health and Wealth
MTE Expo, (17-19 February 2011, KLCC)

- 2011** **10. Silver Medal**
Oryzanol Rich Fraction (E-Ory) Relives Exercise Induced Oxidative Stress
MTE Expo, (17-19 February 2011, KLCC)
- 2009** **11. Bronze Medal**
Antidiabetic activity of Lemba,
Penyelidikan dan Ciptaan Institusi Pengajian Tinggi Antarabangsa (PENCIPTA) 2009, (8 – 10 October 2009, KLCC Kuala Lumpur)
- 2009** **12. Silver Medal**
Thymoquinone Rich Fraction (TQRF) and Thymoquinone as Protective Agent for Alzheimer's disease
MTE Expo, (19 -21 February 2009, PWTC Kuala Lumpur)
- 2008** **13. Silver Medal**
Supercritical Fluid Extraction of Thymoquinone Rich Fraction From *Nigella Sativa*
MTE Expo, (19-21 February 2008, PWTC Kuala Lumpur)
- 2008** **14. Silver Medal,**
Development of nutraceutical isolated from *Nigella sativa* seeds for Reducing Cardiovascular Disease Risk
MTE Expo (21 – 23 February 2008), PWTC Kuala Lumpur
- 2007** **15. Silver Medal**
Nutraceuticals from Germinated Brown Rice
MTE Expo, March 2007, PWTC Kuala Lumpur
- 2004** **16. Outstanding Scientist Award**
Awarded by Ministry of Higher Education, September 2004
- 2003** **16. Public Sector Quality Award 2003 (Public Service Innovation Awards)**
Awarded by Prime Minister's Department
Rice bran: From Waste to Health Products
- 2003** **17. Silver Award**
Malaysian Science and Technology Invention and Innovation Research Competition, 2-4 November 2002, PWTC, organized by Ministry of Science, Technology and Environment
E-Ory: Antioxidant rich nutraceutical oil
- 2002** **18. Gold Medal**
Malaysian Science and Technology Invention and Innovation Research Competition, 2-4 November 2002, PWTC, organized by Ministry of Science, Technology and Environment
Rice Bran Malaysia (RBM): From Wasteful Resource to Useful Health Products
- 2001** **19. Applied Biology Merit Award**

Institute of Higher Learning Research and Development
Exhibition
Organised by Ministry of Education and UKM, October 2001, at PWTC
*Hypocholesterolemic and Anti-Cancer Effect of Rice Bran and Rice
Bran Oil*

Universiti Putra Malaysia Research Awards

- | | | |
|-------------|------------|---|
| 2014 | 20. | Gold Medal AquaGelatin: Halal and Safe Food Source for Healthy Living Pameran Reka Cipta, Penyelidikan dan Inovasi UPM 2014, (30 September – 01 Oktober 2014) Universiti Putra Malaysia |
| | 21. | Gold Medal Nanocrystal Delivery Vehicle Pameran Reka Cipta, Penyelidikan dan Inovasi UPM 2014, (30 September – 01 Oktober 2014) Universiti Putra Malaysia |
| 2013 | 22. | Gold Medal Novel Procedure for Efficient Collagen Production from Jellyfish Malaysian Innovation Expo (MIExpo 2013), (26 September – 28 September 2013) Universiti Putra Malaysia |
| 2012 | 23. | Gold Medal Use of A Composition comprising of Acylated Steryl Glucoside In the Manufacture of an antidiabetic, antioxidant and hypocholesterolemic Product. Pameran Reka Cipta, Penyelidikan dan Inovasi UPM 2012, (17 July - - 19 July 2012) Universiti Putra Malaysia |
| 2011 | 24. | Silver Medal Thymoquinone From Nigella Sativa Was Potent In Elimination Of Cervical Cancer Cells Siha Via Apoptosis with Down-Regulation Of Bcl-2 Protein. Pameran Reka Cipta, Penyelidikan dan Inovasi UPM 2011, (19 July - - 21 July 2011) Universiti Putra Malaysia |
| | 25. | Silver Medal Kenaf Seed Oil From Supercritical Carbon Dioxide Fluid Extraction Inhibits The Proliferation Of WEHI- ₃ B Leukemia Cells In Vivo. Pameran Reka Cipta, Penyelidikan dan Inovasi UPM 2011, (19 July - - 21 July 2011) Universiti Putra Malaysia |
| 2010 | 26. | Gold Medal Vanillin: A Novel non-Toxic Anti-colorectal Cancer Agent Used in Food Flavoring Industry. Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 10), (20 July – 22 July 2010), Universiti Putra Malaysia |
| 2010 | 27. | Gold Medal |

Gamma-oryzanol Rich Fraction Regulates the Expression of Antioxidant and Oxidative Stress Related Genes in Strenuous Exercise
Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 10), (20 July – 22 July 2010), Universiti Putra Malaysia

- 2010** **28. Silver Medal**
Defatted Kenaf Seed as a Potential Source of Protein in Food Industry.
Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 10), (20 July – 22 July 2010), Universiti Putra Malaysia
- 2009** **29. Gold Medal**
Antidiabetic activity of *C. latifolia* extracts in *in vitro* and *in vivo* Studies
Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 09), (28 July 2009), Universiti Putra Malaysia
- 2009** **30. Bronze**
Novel Food Ingredients from Supercritical Fluid Extracted Kenaf and Black Cumin Seeds
Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 09), (28 July 2009), Universiti Putra Malaysia.
- 2009** **31. Bronze**
Kenaf Seed Oil: A Novel High Antioxidative Specialty Oil From Kenaf By-Product.
Pameran Reka Cipta, Penyelidikan dan Inovasi (PRPI 09), (28 July 2009) Universiti Putra Malaysia
- 2008** **32. Gold Medal**
Thymoquinone Rich Fraction (TQRF) and Thymoquinone as Protective Agent for Alzheimer's disease
- 2007** **33. Bronze Medal**
Invention of Development of Bio-Health Products From Rice Bran Ferulats
PRPI 2007 (27 -29 November 2007) - Universiti Putra Malaysia
- 2007** **34. Bronze Medal**
Invention of Thymoquinone Rice Fraction of Nigella Sativa Oil for Prevention of Cardiovascular Disease
PRPI 2007 (27 -29 November 2007) - Universiti Putra Malaysia
- 2007** **35. Gold Medal**
Invention of Nigella Sativa Active Compound; Thymoquinone Protects Cerebellar Neurons Againsts AB-induced Apoptotic by caspases Inhibition
PRPI 2007 (27 -29 November 2007) - Universiti Putra Malaysia
- 2006** **36. Gold Medal**
Germinated Brown Rice Formulated Nutraceutical Powder
PRPI 2006 (22-24 Aug 2006) - (Universiti Putra Malaysia)

- 2006 37. **Silver Medal**
Anti-Obesity effect of Jin Batu (*strobilanthes crispus*) Leafly Extract On Diet-Induced Obese Rats
PRPI 2006 (22-24 Aug 2006) - (Universiti Putra Malaysia)
- 2006 38. **Silver Medal**
The Effects of *Strobilanthes Crispus* Extract on Serum Lipid Profile & The Antioxidant Status of Hypercholesterolomic Rabbits
PRPI 2006 (22-24 Aug 2006) - (Universiti Putra Malaysia)
- 2006 39. **Bronze Medal**
Synergistic Effect of Ryzanol-Tocotrienol Antioxidants on Platelet Aggregation
PRPI 2006 (22-24 Aug 2006) - (Universiti Putra Malaysia)
- 2006 40. **Silver Medal**
Nigella Sativa: In The Prevention of Apoptotic-like Cell Death in Cultured Neurons
PRPI 2006 (22-24 Aug 2006) - (Universiti Putra Malaysia)
- 2002 41. **Gold Medal**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Improving nutraceutical value of rice bran oil by Supercritical Fluid Extraction
- 2002 42. **Gold Medal**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Potential Health Benefits of Local Stabilised Rice Bran
- 2002 43. **Gold Medal**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Development of Standardized Functional Foods from Centella Asiatica (L) Urban
- 2002 44. **Silver Award**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Locally Grown Microalgae As Functional Food
- 2002 45. **Bronze Award**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Potential Health Benefits of Strobilanthes crispus
- 2002 46. **Bronze Ward**
Invention and Research Exhibition 2002
Universiti Putra Malaysia
Nutrition Intervention Package for Promotion of Healthy Lifestyle Among Malaysian Children: the H.E.L.I.C Study

- 2001 47. **Award for Top Ten Best Research Project**
 Research and Development Exhibition 2001
 Universiti Putra Malaysia
Hypocholesterolemic and Anti-Cancer Effect of Rice Bran and Rice Bran Oil.
- 2000 48. **Certificate:** Anugerah Reka Cipta & Penyelidikan
Anti-Cancer Effects of Rodent Tuber (Typhonium Flagelliforme) and Kecibeling (Strobilanthes Crispus) Extracts on Histology and Tumor Marker Enzymes during Hepatocarcinogenesis
- 2000 49. **Certificate:** Anugerah Reka Cipta & Penyelidikan
Isolation and Identification of Bioactive Compound from Strobilanthes Crispus

ACADEMIC APPOINTMENTS

| | |
|---|---|
| September 2006-present | Laboratory Head Laboratory of Molecular Biomedicine Institute of Bioscience |
| October 2004-2006 | Director, National Interim Institute Pharmaceutical and Nutraceutical Biotechnology (MOSTI) |
| June 2002 –May 2006 (Three appointments) | Coordinator Nutrition and Metabolism Module M.D programme |
| July 2001-May 2002 | Head Department of Nutrition and Health Science Faculty of Medicine and Health Science,UPM |
| March – June 2001 | Visiting Scientist Institute of Food Research Norwich, ENGLAND (IAEA Fellowship) |
| June – October 2000 | Visiting Professor University of Manitoba CANADA (Commonwealth Fellowship) |
| August 1996-June 2000 | Head Department of Nutrition and Health Science Faculty of Biomedicine and Health Science,UPM |

RESEARCH GRANTS:

The following research grants were secured for the conduct of research activities from an international body, Ministry of Science, Technology and Innovation, the state government, private companies and NGO:

| | | |
|---|---|-------------------|
| 1. International Grant | - | 3 project |
| 2. Pre-Commercialisation grant | - | 4 project |
| 3. Government Grants | | |
| (a) IRPA –EAR | - | 7 projects |
| (b) IRPA-Top Down | - | 3 projects |
| (c) UPM Research Grants | - | 7 projects |
| (d) State Government (Negeri Sembilan Biotech) | - | 1 project |
| (e) Ministry of Education (FRGS & TRGS) | - | 2 projects |
| (f) Ministry of Trade and Small Industries (KPPK) | - | 1 project |
| (g) RUGS grants | - | 2 projects |
| 4. Private Grants/ Contract Research | | |
| (a) BERNAS Dominals Sdn. Bhd | - | 1 project |
| (b) BERNAS Sdn. Bhd | - | 1 project |
| (c) Azi SmartLife Sdn. Bhd. | - | 1 project |
| (d) MediHerb Sdn Bhd | - | 1 project |
| (e) ABSciex, USA | - | 1 project |
| 3. Non-Governmental Organization Grant | | |
| (a) Yayasan Jantung Malaysia | - | 1 project |

RESEARCH LEADERSHIP

1. Acted as **Programme Leader** for IRPA (MOSTI) and BERNAS Sdn. Bhd funded projects with more than two projects per research programme
 No. of research programme: **4**

2. Acted as **Project Leaders** for IRPA (MOSTI)/KPPK and private companies funded funds
 No of Research Project : **18**

3. Acted as **Sole researcher** : **5**

4. Acted as **Co-Researcher** : **5**

AMOUNT OF RESEARCH FUNDING

| | |
|-------------------|-----------------------|
| FUND GIVEN | NO. OF PROJECT |
|-------------------|-----------------------|

1. RM 4,320,000 - 1 project
2. RM 3, 005,000 - 1 Project
3. RM 1,000,000 - 1 project
4. AS \$ 250,000 (RM 575,000) - 2 project
5. RM > 500,000 - 3 resaeerh programmes (leader for 3 projects > RM 250,000 per project)
6. RM > 250,000 - 9 research projects
7. RM > 100,000 - 5 research projects
8. RM > 50,000-RM 100,00 - 3 research projects

PRE-COMMERCIALISATION FUND

1. MTDC-BRIDGING FUND RM 4.32 MILLION (2008-2009)
2. GE-SYMBIOSIS (MOHE-MTDC) RM 2 million
3. BERNAS Sdn. Bhd. RM 3.05 million

RESEARCH ACTIVITIES

RESEARCH PROJECTS

| | | |
|---|--|---|
| 1 | 2015-2015 Title of project Source of Fund Amount Status | Project Leader & Consultant Effect of herbal extract on glucose uptake and insulin secretion in vitro Biotropics Malaysia Berhad RM 77,392.00 New |
| 2 | 2015-2017 Title of project Source of Fund Amount Status | Project Leader Anti-ageing and cardioprotective effect of edible bird's nest in premenopausal women COE Swiftlet, UPM RM 200,000.00 New |
| 3 | 2014-2015 Title of project Source of Fund Amount Status | Project Leader & Consultant Molecular Halal food testing study and development Contract Research (International) ABSciex (USA) RM 30,000 Completed |
| 4 | 2014-2015 Title of project Source of Fund Amount Status | Project Leader & Consultant Antidiabetic Properties Of Clinacanthus Nutans And Rhodamnia Cinerea Extracts Contract Research Biotropics Malaysia Berhad RM 90,787.80 Completed |

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| 5 | 2015 – 2017 Title of Project Source of Fund Amount Status | Project Leader Therapeutic Effects of Islamic Garden Ministry of Education Transdisciplinary Grant Scheme RM 780,000 New |
| 6 | 2013 – 2015 Title of Project Source of Fund Amount Status | Project Leader Biodistribution and Blood Brain Barrier Permeation of Novel Thymoquinone-Rich Fraction (TQRF) Nanoemulsion in Sporadic Rat Model of Alzheimer's Disease FRGS MOHE RM 80,000.00 On-going |
| 7 | 2013 – 2015 Title of Project Source of Fund Amount Status | Project Leader Improved Bakery Product with Stabilized Rice Bran for The Economy and Health Society Kementerian Pengajian Tinggi (KPT) RM 144,525.00 On going |
| 8 | 2013 – 2014 Title of Project Source of Fund Amount Status | Co- Reseacher Development of novel functional meat products with cardioprotective properties and enhanced shelf-life quality by incorporation of defatted kenaf seed meal (DKSM) MOSTI (Sciencefund) RM 144,500 On-Going |
| 9 | 2012 – 2014 Title of Project Source of Fund Amount Status | Project Leader Quality And Anti-Aging Determinants Of Edible Bird's Nest (Ebn) By Nutrigenomic And Metabolomic Strategies (Ketetapan/Pelarasan Keaslian Sarang Burung Walit) MOSTI RM 300,000.00 Complete |
| 10 | 2012 – 2014 Title of Project Source of Fund Amount Status | Project Leader Innovation in Diebetis management: all natural, sweet and low calorie curculin and curculigoside rich fraction (CCRF) from Curculigo latifolia. RUGS 2 RM 99,900.00 Complete |
| 11 | 2011 – 2013 Title of Project Source of Fund Amount Status | Project Leader Development of Novel Nano Lipid Delivery System for Alternative Hypocholesterolemic Drug from Oryzanol, Thymoquinone and Their Rich Fractions MOSTI RM 90,000 Completed |
| 12 | 2011 – 2013 Title of Project | Project Leader Nutrigenomics basis of MBEBP [2,2'-methylene-bis-(4-ethyl-6-tert-butyl-phenol)] rich fraction from curculigo latifolia on type 2 diabetes mellitus |

| | | |
|----|--|--|
| | Source of Fund Amount Status | RUGS 6 10,000 Completed |
| 13 | 2010 - 2014 Title of Project: Source of Fund Amount of Fund Status | Program Leader Nutraceuticals and Cosmeceuticals & Germinated of Brown Rice Bernas Sdn. Bhd. RM 3.05 million On Going |
| 14 | 2009 - 2010 Title of Project: Source of Fund Amount of Fund Status | Co-researcher Development of Novel Multifunctional Health Snack from Agricultural SFE Waste MOA Science Fund 86,158.00 Completed |
| 15 | 2009 - 2012 Title of Project: Source of Fund Amount of Fund Status | Co-researcher Developed of fat product interesterified with phytosterols from kenaf and rice bran oils to lower serum cholesterol levels in animal RUGS 165,000.00 Completed |
| 16 | 2009-2011 Title of Project: Source of Fund Amount of Fund Status | Project Leader Development of high antioxidative functional ingredient/ nutraceuticals from agricultural sfe waste: gastrointestinal stability and cell uptake RUGS 26,000.00 Completed |
| 17 | 2009-2011 Title of Project: Source of Fund Amount of Fund Status | Project Leader Nutrigenomics profiling of human neuronal SHSY5Y pre-treated with extracts formulation following exposure to Alzheimer's β -amyloid peptide and hydrogen peroxide <i>in vitro</i> . RUGS 30,000.00 Completed |
| 18 | 2008-2012 Title of Project: Source of Fund Amount of Fund Status | Project Leader Pre-commercialisation of Rice Bran Nutraceuticals. MTDC RM 4.32 million Completed |
| 19 | 2008-2009 Title of Project: Source of Fund Amount of Fund Status | Project Leader Bioconversion of Rice Bran ferulates to vanillin. RUGS 2 RM 187,000 Completed |
| 20 | 2008-2009 Title of Project: Source of Fund Amount of Fund Status | Project Leader Preclinical studies, Bioavailability and Pharmacokinetics of TQRF. RUGS 1 RM 289,000 Completed |
| 21 | 2008-2009 | Co-researcher |

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|----|---|---|
| | Title of Project: Source of Fund Amount of Fund Status | Clinical trial of N.sativa nutraceuticals as an alternative for HRT. RUGS 1 RM 297,000 Completed |
| 22 | 2007-2008 Title of Project: Source of Fund Amount of Fund Status | Project Leader Anti-diabetic agent from Curculigo latifolia. MOHE RM 30,000 Completed |
| 23 | 2005-2007 Title of Project: Source of Fund Amount of Fund Status | Project Leader (Contract Research) Bio-health products from kenaf Ministry of Agriculture RM 350,000 Completed |
| 24 | 2005-2007 Title of Project: Source of Fund Amount of Fund Status | Project Leader (Contract Research) Commercialisation of Stabilized Rice Bran Malaysia Collaboration between UPM-Negeri Sembilan Biotech Satellites. National Biotech. Directorate (MOSTI) / Negeri Sembilan State Economic Planning Unit RM 1,000,000 Completed |
| 25 | 2005-2007 Title of Project: Source of Fund Amount of Fund Status | Programme Leader (Contract Research) Development of Nutraceuticals from Brown, Germinated Brown Rices. BERNAS Sdn. Bhd RM 570,000 Completed |
| 26 | 2005 -2007 Title of Project Source of Fund Amount of Fund Status | Programme Leader (Contract Research) Development of Nutraceutical Product (Beverage Formulation) from Black Seeds (Nigella sativa) with potential health benefits. Azi SmartLife Sdn. Bhd RM 250,000 Completed |
| 27 | 2004-2007 Title of Project Source of Fund Amount of Fund Status | Project Leader Development of Nutraceuticals from <i>Stobilanthes crispus</i> with cardioprotective properties IRPA RM 201,500 Completed |
| 28 | 2004-2006 Title of Project Source of Fund Amount of Fund Status | Project Leader Investigation of oryzanol absorption and interactions in Caco-2 cells and in animal model MOE-competitive fundamental RM 100,000 Completed |

PATENTS

1. Status: Patent **granted** for product name E-ORY (Antioxidant Rich Nutraceutical Formulation)

MY - 144287 - A (MALAYSIA-GRANTED)
PI20050102

2. Status: Patent **granted** for product name Cardioprotective Effects of Nutraceuticals Isolated from Nigella Sativa Seeds

MY-145844-A (MALAYSIA-GRANTED)
13/124,370 (USA)
385/2011 (UAE)
09823872.8-2107 (EP)
PI 20084285
PCT/MY/2009/000114

3. Status: Patent pending for product name RiBO (Hypocholesterolemic Specialty Oil)

PI 20042722

4. Status: Patent pending for product name GBR (Process for Producing Germinated Brown Rice and Nutraceutical Product Therefrom)

PI 20064528

5. Status: Patent pending for product name Uses of Curculigo Latifolia (C.Latifolia) Extract

13/124,370 (US)
13/967883 (Divisional)(US)
5475791 (JAPAN-GRANTED)
09823871.0-2107 (EP-GRANTED)
PI 20084284
PCT/MY/2009/000112

6. Status: Patent pending for product name Extraction of Fixed Oil and Thymoquinone Rich Fractions (TQRF)

PCT/NA2010/000670 (Egypt)
678/MUMNP/2010 (India)
5641521 (Japan - GRANTED)
0.9818643.0 (European Patent Office)
HK1144825 (Hong Kong - GRANTED)
US8501250B2 (USA-GRANTED)
ZL200980100901.5 (CHINA-GRANTED)
PI 20084925

7. Status: Patent application pending for product name A Supercritical Fluid Extraction Process of Kenaf Seeds

664/MUMNP/2010 (India)
US8829214 (USA – GRANTED)
5584888 (Japan - GRANTED)
MX/a/2010/004349 (Mexico - GRANTED)
200980101373.5 (China)
PI 20084924

8. Status: Patent application is filed for product name A Use of a Composition Comprising of Acylated steryl Glucoside in the Manufacture of a Product.

PI 2011002256
PCT/MY2012/000091
153/2013 (Bahrain)
QA/201311/00283 (QATAR)
OM/P/2013/00275 (OMAN)
14/118,931 (United State of America)
1222/2013 (United Arab Emirates)
201280035158.1 (China)
14103779.5 (Hong Kong)

9. Status: Patent application is filed for product name A Composition for Managing Menopause.

PI 2013701906

10. Status: Patent application is filled for product name Composition for preventing cardiovascular diseases.

PI2014703622

PUBLICATION

A. BOOK CHAPTER

1. Imam MU. **Ismail M.** An Overview on Germinated Brown Rice and its Nutrigenomic Implications. In Genomics, Proteomics and Metabolomics in Nutraceuticals and Functional Foods. Bagchi D (Ed.). New Jersey, USA: Wiley-Blackwell, 2015, pp. 504-513. ISBN: 978-1-118-93042-7
2. **Ismail M,** Imam MU. Plant Bioresources and their Nutrigenomic Implications on Health. In Novel Plant Bioresources: Applications in Food, Medicine and Cosmetics. Gurib-Fakim A (Ed.). New Jersey, USA: Wiley-Blackwell, 2014, pp. 383-394. ISBN: 978-1-118-46061-0

- 3 Jeremy Brock, **Maznah Ismail**, Lourdes Sanches and Rosa Oria (1993). The Role of Lactoferrin in Infection, Immunity and Inflammation. In Perspectives of Infant Nutrition (eds). G. Sawatzki and M. Renner, George Thieme Med. Pub., Stuttgart, New York, pp 84 - 89.
- 4 Jeremy Brock, **Maznah Ismail**, Lourdes Sanches and Rosa Oria (1993). The Role of Lactoferrin and Transferrin in Iron Absorption. In Perspectives of Infant Nutrition (eds). G. Sawatzki and M. Renner, George Thieme Med. Pub., Stuttgart, New York, pp 90 - 93.
- 5 Jeremy Brock, **Maznah Ismail** and Lourdes Sanchez (1993). Interaction of Lactoferrin and Transferrin with Monocytic and Colon Carcinoma Cells. In Lactoferrin Structure and Functions (eds.) W.D. Hutchens, B.Lonnerdal and S. Rumball, Plenum Press, New York, pp 177-189.
- 6 Jeremy Brock, **Maznah Ismail**, Rosa Oria and Richard Sinclair (1993). Cellular responses to iron and iron compounds, lactoferrin and transferrin. In Progress in Iron Research (eds.) C. Hershko, Plenum Press, New York, pp 150 – 154
- 7 Nawalyah Abd Ghani and **Maznah Ismail** (1992). The Rural Family: Nutrition and Well-Being. In Issues in Rural Development in Malaysia (eds.) Victor T. King and Nazaruddin Mohd. Jali, DBP, Kuala Lumpur, pp 368 – 387
- 8 Nawalyah Abd. Ghani and **Maznah Ismail** (1992). Keluarga Desa Luar Bandar: Pemakanan dan Kesihatan. In Isu-Isu Pembangunan Luar Bandar di Malaysia (eds.) Victor T. King and Nazaruddin Mohd. Jali, DBP, Kuala Lumpur, pp 430 – 454

B. JOURNAL

- 9 Aminu Ishaka, Mustapha Umar Imam, Maznah Ismaila, Rozi Mahmudd, Zuki Zakaria Abu Bakar (2016). Nanoemulsified gamma-oryzanol rich fraction blend regulates hepatic cholesterol metabolism and cardiovascular disease risk in hypercholesterolaemic rats. *Journal of Functional Foods*, 26(2016) : pp. 338-349. **IMPACT FACTOR : 3.973. Q1**
- 10 Wai-Teng Wong, Maznah Ismail, Eusni Rahayu Mohd Tohit, Rasedee Abdullah, Yi-Da Zhang (2016). Attenuation of thrombosis by crude rice (*Oryza sativa*) bran policosanol extract: ex vivo platelet aggregation and serum levels of arachidonic acid metabolites. *Evidence-Based Complementary and Alternative Medicine*. Accepted. **IMPACT FACTOR : 1.931. Q2**
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C. PAPERS PRESENTED AT THE INTERNATIONAL SEMINAR / CONFERENCE / CONGRESS

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- 280 Wong Wai Chee & **Maznah I.** Determination of total dietary fiber and total antioxidant activity in some selected brans. 15th Scientific Conference of NSM, March 2000, Kuala Lumpur
- 281 Yap Gim Eng & **Maznah I.** Determination of total antioxidant activities in extracts of selected green, black and oolong teas (*Camellia sinensis*) and herbal teas. 15th Scientific Conference of NSM, March 2000, Kuala Lumpur
- 282 Yim Hip Seng, **Maznah I.** & Hishamuddin O. The effects of cultured and commercially prepared *spirulina platensis* on iron status in vivo. 15th Scientific Conference of NSM, March 2000, Kuala Lumpur
- 283 Loh S.P, **Maznah I.** & Rehir D. The effect of different doses of calcium supplementation on iron availability from *Spirulina platensis* by an in vitro

- digestion/Caco-2 cell culture system. Malaysia Science and Technology Congress 2001, 24-26 September 2001, Kota Kinabalu, Sabah
- 284 Ghanya, N. & **Maznah, I.** Nutrient composition of three different samples of *Nigella sativa* (Black seeds) cultivated in Yemen. (Presented as poster at 20th Scientific Conference of the Nutrition Society of Malaysia, 24 March 2004).
- 285 Ghanya, N. & **Maznah, I.** Hypocholesterolemic effect of *Nigella sativa* (Black seeds) and its oil in vivo. (Presented as poster at 19th Scientific Conference of the Nutrition Society of Malaysia, 24 March 2005).
- 286 Ghanya, N. & **Maznah, I.** The effect of *Nigella sativa* L and its oil on atherogenesis in hypercholesterolemia induced rabbits. (Presented as poster at Natural Product Exhibition on 16 April 2005).
- 287 **Maznah Ismail**, Loh Su Peng, Chia Kia Kheng and Then Yen Cher (2000). The effects of *Spirulina*, *Chlorella*, *Centella asiatica* and calcium supplements on the bioavailability of iron. In 15th Scientific Conference Of National Society Malaysia, Kuala Lumpur, Malaysia, March 25-26, 2000
- 288 Rabeta Mohd Salleh, Asmah Rahmat, Nawalyah Abd. Ghani and **Maznah Ismail** (2000). Total antioxidant activity of garlic and onion. In 15th Scientific Conference Of National Society Malaysia, Kuala Lumpur, Malaysia, March 25-26, 2000
- 289 Cheong Chih Han @ Mary Ann, **Maznah Ismail** and Susi Endrini (2000). Effects of *Morinda citrifolia* extracts on the proliferation of HepG2 and Caco2 cell lines. In 15th Scientific Conference Of National Society Malaysia, Kuala Lumpur, Malaysia, March 25-26, 2000
- 290 Loh Su Peng, **Maznah Ismail** and Hishamudin Omar (2000). The effect of calcium on the bioavailability of iron from *Spirulina plantensis* in vivo. In 15th Scientific Conference Of National Society Malaysia, Kuala Lumpur, Malaysia, March 25-26, 2000
- 291 Huzaimah Abdul Sani, Rosnah Mohamed, Asmah Rahmat and **Maznah Ismail** (1999). Antioxidant activities of catechin extract of *Coleus blumei*, *Amaranthus gangeticus* and *Lawsonia inermis*. 24th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology. Kuala Lumpur, September 30, 1999
- 292 Rabeta Mohd. Salleh., Asmah Rahmat, Nawalyah Abdul Ghani and **Maznah Ismail** (1999). Effect of supplementation of garlic (*Allium sativum* Linn) on plasma tumour marker enzymes activities in rats induced with Diethylnitrosamine and Acetylaminofluorene. 24th Annual Conference of the Malaysian Society for Biochemistry and Molecular Biology. Kuala Lumpur, September 30, 1999
- 293 Azlina Mohd. Danial, **Maznah Ismail**, Asmah Rahmat and Asmah Yahaya (1999). The effect of *Strobilanthes crispus* on lipid profile : in vivo study. 5th National Conference on Medical Sciences. Universiti Sains Malaysia, Kubang Kerian, May 4-5, 1999

- 294 Elizabeth Manickam, Asmah Rahmat, **Maznah Ismail**, Asmah Yahaya and Fauziah Othman (1999). Anticancer effect of *Strobilanthes crispus* on Diethylnitrosamine-initiated and 2-acetylaminofluorence-promoted hepatocarcinogenesis. 5th National Conference on Medical Sciences. Universiti Sains Malaysia, Kubang Kerian, May 4-5, 1999
- 295 Azlina Mohd. Danial, Elizabeth Manickam, **Maznah Ismail**, Asmah Rahmat and Asmah Yahaya (1999). Nutritional , anti-nutritional composition and antioxidant activity of leafy acetate extract of *Strobilanthes crispus*. 14th Scientific Conference, Nutrition Society of Malaysia, Seri Kembangan March 20-21, 1999
- 296 Rabeta Mohd. Salleh, Asmah Rahmat, Nawalyah Abdul Ghani and **Maznah Ismail** (1999). Effect of fresh garlic (*Allium sativum* Linn) on plasma tumour marker enzymes activities during hepatocarcinogenesis. 14th Scientific Conference, Nutrition Society of Malaysia, Seri Kembangan March 20-21, 1999
- 297 Rosnah Mohamed, Asmah Rahmat, **Maznah Ismail**, Asmah Yahaya, Zanariah Jarien and Wan Zurinah Wan Ngah (1998). The effect of *Lawsonia inermis* on tumor marker enzyme activities during hepatocarcinogenesis. Seminar ke 14, Penyelidikan Sebatian Semulajadi, Bangi, 21-22 Okt, 1998
- 298 Thilakavathy Karrupiah, **Maznah Ismail**, Asmah Rahmat, Siti Muskinah, Asmah Yahaya and Fauziah Othman (1998). The effect of *Thyphonium diverticum* extracts on the plasma gamma-glutamyl transpeptidase and the histology of the induced hepatocarcinogenesis rat liver. Seminar ke 14, Penyelidikan Sebatian Semulajadi, Bangi, 21-22 Okt, 1998.
- 299 **Maznah Ismail**. Biochemical assessment of nutritional status. Seminar on Nutrition and Community Health Status: Updating of knowledge. Serdang, Selangor, November 16-18, 1995.
- 300 Maznah Ismail & Fauziah Kamarudin. Iron status and causative factors among working women in Bagan Datoh District, Perak. Seminar on Towards Improving the Quality of Life. Serdang, Selangor, December 18, 1989.
- 301 **Maznah Ismail**, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail (1988). Current status of canteens at primary schools in Malaysia and foods sold at the school canteens. Workshop on Food Habits among Primary School Children. Kuala Lumpur, Malaysia, August 23-24, 1988
- 302 **Maznah Ismail**. Nutritional value and its effects on the health status of women. Seminar on Health for Students. Serdang, Selangor, August 18-25, 1988
- 303 **Maznah Ismail** and Ahmad Hariza Hashim (1987). Potential of duckweed (Family Lemnaceae) as a protein source. Seminar on Advances in Food Research in Malaysia. Serdang, Selangor, May 6-7, 1987

E. RESEARCH REPORTS

Thesis

- 304 **Maznah Ismail** (1993). Interactions of Lactoferrin with Monocytic and Enterocytic Cells; Its role in Uptake and Absorption, Ph.D thesis, Faculty of Medicine, University of Glasgow, Scotland.
- 305 **Maznah Ismail** (1983). Isolation and Characterisation of Duckweed (Family Lemnaceae) Proteins. Master's thesis, Faculty of Science, Louisiana State University, Baton Rouge, Louisiana, U.S.A
- 306 **Maznah Ismail** (1980) Protein Characterisation of Honey Bee (*Apis mellifera*) Venom. Final year thesis, Faculty of Science, University of Salford, England.

Technical Reports

- 307 **Maznah Ismail, Abdul Salam Abdullah, Azrina Azlan and Abdah Abd Hakim (2000)**. Hypocholesterolemic and Anti-Cancer Effects of Stabilised Full Fatted and Defatted Rice Bran. Submitted to BERNAS Dominals, Sdn. Bhd..
- 308 **Maznah Ismail, Abdul Salam Abdullah, Azrina Azlan** (1999). Stability Studies of Rice Bran Processed At Bernas Rice Factory. Submitted to BERNAS Sdn Bhd.
- 309 **Maznah Ismail, Nawalyah Abd. Ghani and Poh Siang Choo** (1989). Nutritional Anaemia Among Women and Children in Estates, Squatter areas and Villages. Research report prepared for IRPA
- 310 **Maznah Ismail, Nawalyah Abd. Ghani and Azidah Mokhtar** (1989). Bioavailability of Iron from The Diets of Estate Women. Research report prepared for IRPA
- 311 **Maznah Ismail, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail** (1989). Assessment of School Milk Programme in Primary Schools throughout Peninsular Malaysia. Research report submitted to the School Section, Health Unit, Ministry of Education, Malaysia
- 312 **Maznah Ismail, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail** (1988) Food Habits of Primary School Children in Kota Tinggi District, Johor, Malaysia. Research report submitted to the Main Committee of ASEAN Protein/Food Habits-AAECP.
- 313 **Maznah Ismail, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail** Food Habits of Primary School Children in Federal Territory, Malaysia. Research report submitted to the Main Committee of ASEAN Protein/Food Habits-AAECP.
- 314 **Maznah Ismail, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail** (1988) Current Status of the School Canteens in Peninsular Malaysia and Food Sold at the Canteens. Research report submitted to the Main Committee of ASEAN Protein/Food Habits- AAECP and School Section, Ministry of Education, Malaysia.
- 315 **Maznah Ismail, Nawalyah Abdul Ghani, Rokiah Mohd. Yusof and Azizah Ahmad**. Nutrient Analysis of Foods Sold at the School Canteens. Report submitted to the Main Committee ASEAN Protein/Food Habits-AAECP

- 316 **Maznah Ismail**, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof, Rohana Ismail and Azidah Mokhtar (1987). Food Habits of Primary School Children in Kemaman District, Terengganu, Malaysia. Research report submitted to the Main Committee of ASEAN Protein/Food Habits-AAECP
- 317 **Maznah Ismail**, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail (1987) Food Habits of Primary School Children in Kulim District, Kedah, Malaysia. Research report submitted to the Main Committee of ASEAN Protein/Food Habits-AAECP
- 318 **Maznah Ismail**, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail (1987) Food Habits of Primary School Children in Johor Bharu District, Malaysia. Report submitted to the Main Committee ASEAN Protein/Food Habits-AAECP
- 319 Nawalyah Abd. Ghani, **Maznah Ismail**, Rokiah Mohd. Yusof and Rohana Ismail (1987) Food Habits of Primary School Children in Melaka District, Malaysia. Report submitted to the Main Committee ASEAN Protein/Food Habits-AAECP
- 320 **Maznah Ismail**, Nawalyah Abd. Ghani, Rokiah Mohd. Yusof and Rohana Ismail (1986) Food Habits of Primary School Children in Hilir Perak District, Malaysia). Report submitted to the Main Committee ASEAN Protein/Food Habits-AAECP

F. ARTICLES PUBLISHED IN MAGAZINE AND RESEARCH BULLETINS

- 321 **Maznah Ismail**. Kenaf Bio Oil: From waste to health and wealth. Synthesis issue 37-39 (June-Disember) 2012.
- 322 **Maznah Ismail**, Azrina Azlan, Abdul Salam Abdullah. Development of Rice Bran Nutraceuticals with Cardioprotective properties. Synthesis, UPM R & D Digest, Issue 4 (3), 2004:8
- 323 **Maznah Ismail**, Azrina Azlan, Abdul Salam Abdullah. Development of Rice Bran Nutraceuticals with Cardioprotective properties. Bulletin Medic Putra, 2004
- 324 **Maznah Ismail**. E-Ory: Natural Antioxidant Rich Nutraceutical Formulation. RMC Compilation, 2004:5
- 325 **Maznah Ismail**, Abd. Salam Abdullah, Wafaa Hailat Mustafa, Azrina Azlan. E-Ory: Natural Antioxidant Rich Nutraceutical Formulation. RMC Compilation in Agrobio-UPM's Niche, 16-18 July 2004.
- 326 **Maznah Ismail**, Yim H.P. Nawalyah Abd. Ghani, Normah Hashim and Hishamudin Omar. Bioavailability of iron from spirulina platensis. UPM Research Report Vol 2 (1998): 315
- 327 **Maznah Ismail**, Loh SP, Abd. Salam Abdullah, Hishamuddin O & Rehir D. The Effect of Different Doses of Calcium Supplementation on Iron Availability from Spirulina platensis by in vitro method. UPM Research Report, 1997-2000:317

- 328 **Maznah Ismail**, Loh SP, Abd. Salam Abdullah, Hishamuddin O & Rehir D. Comparison of the Effect of Calcium on the Bioavailability of Iron from Spirulina platensis and Ferrous Sulphate. UPM Research Repor 1997-2000: 319
- 329 **Maznah Ismail**, Hishamudin Omar, Loh SP. Bioavailability studies of Iron from Spirulina platensis Using haemoglobin Repletion and Caco-2. R&D at UPM: Research Snapshots, Part 2 (2004): 234-236
- 330 **Maznah Ismail**, Siti Sabariah Buhari, Zalilah Mohd Shariff, Normah Hashim, Laily Paim, Norlijah Othman, Mohd. Sham Mohd Kassim. An outcome evaluation of nutrition promotion program among Malaysian primary school children: a HELIC study. R&D at UPM: Research Snapshots, Part 2 (2004): 236-237
- 331 **Maznah Ismail**, Abd. Salam Abdullah, Azlina Mohd. Danil, Elizabeth Manickam, Asmah Yahaya. Potential Health Benefits of Strobilatnthes crispus. R&D at UPM: Research Snapshots, Part 2 (2004): 238
- 332 **Maznah Ismail**, Hishamuddin Omar, Abd. Salam Abdullah, Rehir Dahalan, Loh SP. Locally grown microalgae as functional food. R&D at UPM: Research Snapshots, Part 2 (2004): 239-240
- 333 **Maznah Ismail**. R & D at UPM: Inventions, Innovative research and Products, 1998: 55

G: ARTICLES PUBLISHED IN NEWSPAPERS

- 334 **Maznah Ismail**. OryGold kurang sakit jantung. Berita Harian, 13 Oktober 2012.
- 335 **Maznah Ismail**. UPM hasil produk OryGold. Utusan Malaysia, 13 Oktober 2012.
- 336 **Maznah Ismail**. Agriculture to go hi-tech. The Star, 13 Oktober 2012.
- 337 **Maznah Ismail**. UMNO sedia muzakarah : TPM. Parti tiada masalah asalkan PAS ikhlas demi kepentingan ummah dan negara. Berita Harian, 18 Mei 2012.
- 338 **Maznah Ismail**. Ekstrak Habatussauda dalam produk kesihatan. Utusan Malaysia, 5 Mac 2010
- 339 **Maznah Ismail**. Khasiat Habbatus Sauda. Bahan antioksidan sakit jantung, barah dan arthritis. Berita Harian, 10 Februari 2010
- 340 **Maznah Ismail**. Jintan Hitam mampu cegah penyakit Kardiovaskular, Saraf. Kosmo, 29 Januari 2010
- 341 **Maznah Ismail**. UPM cadang komersial hasil penyelidikan terbaru. Harian Metro, 29 Januari 2010.

- 342 **Maznah Ismail.** UPM Berjaya hasilkan produk kurang risiko nyanyuk. Sinar Harian, 29 Januari 2010.
- 343 **Maznah Ismail.** Habatussauda bantu rawat penyakit Alzheimer. Utusan Malaysia, 27 Januari 2010
- 344 **Maznah Ismail** and Hishamuddin Omar. Khasiat Spirulina Untuk Anemia. Utusan Malaysia, 15 Januari 2005
- 345 **Maznah Ismail.** Potensi Dedak Beras Untuk Kesihatan. Utusan Malaysia, 8 Mei 2004
- 346 **Maznah Ismail.** Kurangkan Kolesterol dari Dedak, Berita Harian Oktober 2003
- 347 **Maznah Ismail.** Potensi Kesihatan Dedak Beras. Mastika, April 2004

COMMERCIALISATION

Build up 2 start-ups for commercializing own R & D in 2011. Acted as Technical Director for both companies.

1. **NUTRACREME Sdn Bhd** – Commercialising Thymoquinone Rich Fraction and Nigella sative oil (TQ Gold™, HS Gold™)
2. **GERMIBRAN Sdn Bhd** – Commercialising Germinated Brown Rice Instant Cereal Drink (ORYGold DRINK™)

UNDERGRADUATE RESEARCH SUPERVISION

| Undergraduate program | Status | No of students |
|-------------------------------------|-----------|----------------|
| B.Sc (Nutrition & Community Health) | Completed | 60 |
| B.Sc (Chemistry) co-supervisor | Completed | 3 |
| B.Sc (Biomedicine)-co supervisor | Completed | 4 |
| MD | Completed | 15 |

GRADUATE RESEARCH SUPERVISION

PhD (TOTAL NO = 35)

| NO | STUDENT NAME | FIELD OF STUDY | THESIS TITLE | SUPERVISOR Y STATUS | STUDY STATU S |
|----|--------------------------------|--------------------------|---|---------------------|---------------|
| 1 | Ismaila Muhammad Sani | Pharmacology | Potential Of Germinated Brown Rice And Its Bioactives As Replacement To Hormone Therapy In Menopausal Model | Supervisor | Completed |
| 2 | Dr. Mustapha Umar Imam | Molecular Biotechnology | Nutrigenomic Study Of Germinated Brown Rice In Type 2 Diabetes Mellitus | Supervisor | Completed |
| 3 | Zaki A.H Tubesha | Nutritional Sciences | Development, Characterization, And Investigation Of Anti-Diabetic Properties Of Thymoquinone Rich Fraction Nanoemulsion Obtained From Black Cumin | Supervisor | Completed |
| 4 | Siti Aisyah Binti Abd Ghafar | Biotherapeutics | Effects Of Kenaf Seed Oil Extracted By Supercritical Fluid Extraction On Colon Cancer In Vitro And In Vivo | Supervisor | Completed |
| 5 | Fatemeh Abedini | Molecular Biotechnology | The Effect Of Silencing Cxcr4 Sirna Engrafted Cationized Dextran Complex Nanoparticles On C-Met And E-Cadherin In Colorectal Cancer Cells | Supervisor | Completed |
| 6 | Ho Ket Li | Biotherapeutics | Anti-Colorectal Cancer Properties Of Vanillin In-Vitro And In-Vivo | Supervisor | Completed |
| 7 | Ghanya Naji Mohammed Al-Naqeeb | Nutritional Sciences | Regulation Of Genes Involved In Cholesterol Metabolism By Thymoquinone Rich Fraction And Thymoquinone | Supervisor | Completed |
| 8 | Azrina Bt Azlan | Nutritional Sciences | The Effect Of Rice Bran And Blended Rice Bran Oils On Indices Of Coronary Heart Disease | Supervisor | Completed |
| 9 | Nur Akmal Binti Ishak | Biotherapeutics | Antidiabetic Activity Of Curculigo Latifolia Extracts In In Vitro And In Vivo Studies | Supervisor | Completed |
| 10 | Hou Zhiping | Nutritional Biochemistry | Anti-Aging Properties And Nutrigenomics Basis Of Edible Bird's Nest In-Vitro And In-Vivo Study | Supervisor | Completed |
| 11 | Woo Fong Yen | Nanosciences | Development Of Plant Based Neuroactive | Co-Supervisor | Completed |

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|----|----------------------------------|-------------------------|---|---------------|-----------|
| | | | Pharmaceutical By Using Patch Method | | |
| 12 | Foo Su Chern | Aquatic Biotechnology | The Production Of Fucoxanthin-Rich Fraction (Fx-Rf) From Diatom, Chaetoceros Calcitrans And Its Anti-Proliferative Activities On Liver Cancer Cells And Shelf-Life Extension Of Fxrf Bioactives By Microencapsulation | Co-Supervisor | Completed |
| 13 | Ng Wei Keat | Pharmacology | Cytotoxicity Of Thymoquinone And Thymoquinone-Loaded Nanostructured Lipid Carrier Towards Cervical Cancer Cells (Hela And Siha) | Co-Supervisor | Completed |
| 14 | Nicholas Khong Mun Hoe | Medical Biotechnology | Production And Characterization Of Collagen And Gelatin From Edible Jellyfish (Acromitus Hardenbergi Stiasny, 1934) For Fabrication Of Biofunctional Scaffold | Co-Supervisor | Completed |
| 15 | Mohd Firdaus Bin Ismail | Agricultural Botany | Pollination Ecology And Fruit Development Of Molineria Rubriclavata And Molineria Latifolia | Co-Supervisor | Completed |
| 16 | Shafiu Abdullahi Kamba | Medicinal Chemistry | Therapeutic Effects Of Calcium Carbonate Nanocrystal Aragonite Polymorph As Drug Delivery System On Metastatic Bone Cancer | Co-Supervisor | Completed |
| 17 | Nyo Nyo Mar | Molecular Biotechnology | Characterization Of Amylopectin Structure, Physicochemical Properties, And Soluble Starch Synthase Activities In Endosperm Starches Of Rice | Co-Supervisor | Completed |
| 18 | Roghayeh Abbasalipourkabirreh | Medical Biotechnology | Characterization, Cytotoxicity And Antitumor Effect Of Tamoxifen-Loaded Solid Lipid Nanoparticle | Co-Supervisor | Completed |
| 19 | Nik Nur Hasanah Binti Nik Hassan | Biotherapeutics | Development, Characterization And Atherosclerosis Reversal Potential Of Oryzanol-Rich Fraction Nanoemulsion | Supervisor | On-Going |

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|----|------------------------------|-------------------------|--|------------|-------------------|
| 20 | Sarega A/P Nadarajan | Nutritional Sciences | Cardio-Protective Effects Of Clinacanthus Nutans | Supervisor | Thesis Submission |
| 21 | Suzannah Binti Sharif | Nutritional Sciences | Development Of Nano-Size Cocoa Polyphenols And Study On Its Sensory And Bioavailability | Supervisor | On-Going |
| 22 | Ooi Der Jiun | Medical Biotechnology | Anti-Diabetic Properties And Nutrigenomics Basis Of Curculigoside And Curculin Rich Fraction From Curculigo Latifolia | Supervisor | T |
| 23 | Aminu Ishaka | Medical Biotechnology | Cardioprotective Properties Of E-Ory Blend And Rice Bran Wax Policosanol Nanoemulsions In Hyperlipidemia Using Induced-Hyperlipidemic In Vivo Models | Supervisor | On-Going |
| 24 | Nur Hanisah Binti Azmi | Biotherapeutics | Nutrigenomic Effects Of Germinated Brown Rice On Oxidative Stress-Induced B-Amyloid Accumulation In Vitro And In Vivo | Supervisor | On-Going |
| 25 | Wong Wai Teng | Biotherapeutics | Anti Platelet Aggregation Effect Of Rice Bran Policosanol | Supervisor | On-Going |
| 26 | Chan Kim Wei | Nutritional Sciences | Defatted Kenaf Seed Meal (Dksm) As Novel Functional Meat Filler With Anti-Hypercholesterolemic & Antioxidant Properties | Supervisor | On-Going |
| 27 | Norsharina Binti Ismail | Neuroscience | Neuroprotective Effects Of Thymoquinone-Rich Fraction Nanoemulsion (Tqrfne) And Thymoquinone Nanoemulsion (Tqne), In Vitro And In Vivo | Supervisor | On-Going |
| 28 | Zhang Yida | Medical Biotechnology | Cardio-Protective Effects Of Edible Bird's Nest, In Vivo And In Vitro | Supervisor | Thesis Submission |
| 29 | Hadiza Altine Adamu | Molecular Biotechnology | Multigenerational Effect Of Germinated Brown Rice On Obesity And Insulin Resistance | Supervisor | On-Going |
| 30 | Ramlah Binti Mohamad Ibrahim | Biotherapeutics | A Clinical Trial Cardioprotective Effects of Edible Bird's Nest in Peri Menopause Women | Supervisor | On-Going |
| 31 | Bilyaminu Abubakar | Pharmacology | Transgenerational epigenetic effect of high | Supervisor | On-Going |

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|----|---------------------------------|-------------------------|--|---------------|----------|
| | | And Toxicology | and low amylose rice in normal and high fat diet fed rats | | |
| 32 | Hafeez Muhammad Yakasai | Molecular Biotechnology | Mechanistic Basis for Antidiabetic and Antioxidant Effects of Ficus carica | Supervisor | On-Going |
| 33 | Nurul Nadiah bt Mohd Nasir | Biotherapeutics | A Clinical Trial on Anti-Aging Effects of Edible Bird's Nest In Peri Menopause Women | Supervisor | On-Going |
| 34 | Intan Soraya Binti Che Sulaiman | Oleochemistry | Design Of Nanoemulsion Formulation Containing Extracts Of Clinacanthus Nutans Lindau Leaves For Cosmeceutical Application. | Co-Supervisor | On-Going |
| 35 | Ziti Akhtar Binti Shafii | Oleochemistry | Design And Development Of Nanocosmeceutical Containing Natural Antioxidant From Manilkara Zapota Fruit And Seed Extracts. | Co-Supervisor | On-Going |

MASTER (TOTAL NO=27)

| NO | STUDENT NAME | FIELD OF STUDY | THESIS TITLE | SUPERVISORY STATUS | STUDY STATUS |
|-----------|------------------------------|-------------------------|--|---------------------------|---------------------|
| 1 | Foong Lian Chee | Nutritional Sciences | Preparation And Characterisation Of Iron-Binding Peptides From Defatted Rice Bran Protein Hydrolysates | Supervisor | Completed |
| 2 | Mariam Nyako Kura | Medicinal Chemistry | The Chemopreventive Effect Of Extracts Of Clinacanthus Nutans On Colorectal Cancer In Vitro And In Vivo. | Supervisor | Completed |
| 3 | Ramlah Binti Mohamad Ibrahim | Nutritional Sciences | Effects Of Nigella Sativa L.Seed Powder On Menopausal Women With Metabolic Syndrome | Supervisor | Completed |
| 4 | Adamu Hadiza Altine | Molecular Biotechnology | Biotransformation Of Ferulic Acid, Antioxidant Activity And Cholesterol Gene Regulation Of Byproducts (In Vitro) | Supervisor | Completed |
| 5 | Sima Alishavandi | Imunology | Effect Of Gamma-Oryzanol, Oryzanol Rich Fraction And The Fractioned Components On Colorectal Cancer Cell Line (Ht-29) And Cytokine | Supervisor | Completed |

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|----|--------------------------------|--------------------------|--|---------------|-----------|
| | | | Production Of Human Preperhal Blood Mononuclear Cell (Pbmc) | | |
| 6 | Nazila Motedayen | Applied Microbiology | Microbial Bioconversion Of Ferulic Acid To Vanillin By Combination Of Aspergillus Niger K8 And Phanerochaete Cryso sporium Atcc 24725 | Supervisor | Completed |
| 7 | Norsharina Binti Ismail | Nutrition | The Neuroprotective Effects Of Nigella Sativa Extracts And Its Active Compound Thymoquinone On Alzheimer's Peptide Ab(1-40)-Induced Neurotoxicity In Primary Cerebellar Neurons In Vitro | Supervisor | Completed |
| 8 | Norhasnida Binti Zawawi | Nutrition | Effect Of "Jln Batu" (Strobilanthes Crispus) Leafy Extract On Lipolysis In Diet - Induced Obese Rats Fed A High-Fat Diet | Supervisor | Completed |
| 9 | Ghanya Naji Mohammed Al-Naqeeb | Nutritional Biochemistry | Nutrients Composition And Hypocholesterolemic Effect Of "Black Seed"(Nigella Sativa) And Its Oil In Vivo | Supervisor | Completed |
| 10 | Nurzillah Binti Maliki | Nutritional Biochemistry | The Effect Of Oryzanol And Tocotrienol On Platelet In Aggregation And Blood Lipid In Rats | Supervisor | Completed |
| 11 | Nurhafzan Anis Binti Ismail | Nutritional Biochemistry | The Effect Of Strobilanthes Crispus Extract On Serum Lipid Profile And The Antioxidant Status Of Hypercholesterolemic Rabbits | Supervisor | Completed |
| 12 | Wafaa Mustafa Hailat | Nutritional Biochemistry | "Bioavailability And Pharmacokinetics Studies Of Gamma Oryzanol Extracted From Local Rice Bran" | Supervisor | Completed |
| 13 | Rida Anak Tajau | Polymer Chemistry | Radiation Synthesis And Characterization Of Micro And Nano Particles Of Epoxidised Rbd Palm Olein Acrylate (EpolA) | Co-Supervisor | Completed |
| 14 | Armania Binti Nurdin | Pharmacology | Isolation And Elucidation Of Bioactive Compound(S) From Dillenia Suffruticosa (Griffith Ex Hook. F. & Thomson) Martelli And Its Cytotoxic Properties Towards Human Cancer Cell Lines. | Co-Supervisor | Completed |
| 15 | Foo Jhi Biau | Oncology | In Vitro Cytotoxicity And In Vivo Antitumour Properties Of Kenaf Seed Oil Towards Leukaemia | Co-Supervisor | Completed |
| 16 | Elham | Molecular | Identification Of Abundantly | Co- | Completed |

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|----|------------------------------|---------------------------------|---|---------------|-----------|
| | Rastegari | Biotechnology | Expressed Proteins From <i>Curculigo Latifolia</i> Fruit, Root And Leaf Through Optimized Extraction Protocols | Supervisor | |
| 17 | Norazalina Binti Saad | Medical Biotechnology | Effects Of Phytic Acid Extracted From Rice Bran On Azoxymethane-Induced Colon Carcinogenesis In Rats | Co-Supervisor | Completed |
| 18 | Hasnah Binti Bahari | Physiology | <i>Tinospora Crispa</i> Effects On Lipid Profiles And Antioxidant Activities In Rabbits Fed With High Fat Diet' | Co-Supervisor | Completed |
| 19 | Lee Siew Yen | Human Development | Consumption Behavior In Health Products Among Older Consumers In Peninsular Malaysia | Co-Supervisor | Completed |
| 20 | Adilius Manual | Physiology | The Antinociceptive And Anti-Inflammatory Effect Of <i>Alpinia Conchigera</i> In Mice And Rats | Co-Supervisor | Completed |
| 21 | Mahanom Binti Hussin | Food Chemistry And Biochemistry | Efficacy Of <i>Centella Asiatica</i> In Reducing Oxidative Stress | Co-Supervisor | Completed |
| 22 | Yap Keng Wai | Food Chemistry And Biochemistry | Gut Microbial Profile And Urinary Mineral Of Inulin Supplemented Formula-Fed Infants | Co-Supervisor | Completed |
| 23 | Siti Farhana Fathy | Biotherapeutics | In Vivo Studies Of Chemopreventive Effect Of Tqrf Nanoemulsion On Colon Cancer. | Supervisor | On-Going |
| 24 | Nur Diyana Binti Md Zamri | Medical Biotechnology | Effects Of Germinated Brown Rice On Diabetes Complications | Supervisor | On-Going |
| 25 | Muhamad Gaddafi Bin Samsudin | Food Biotechnology | Kenaf Seeds Dietary Fibre As Functional Food Ingredient | Co-Supervisor | On-Going |
| 26 | Muhammad Afiq Bin Senen | Food Science | Modulation Of Lipolysis Pathway In The Human Visceral Adipocyte By <i>Stroilanthes Crispus</i> Extract | Co-Supervisor | On-Going |
| 27 | Zulaikha Binti Tajuddin | Biotherapeutics | Modulation Of Adipogenesis In Human Visceral Adipocytes By <i>Strobilanthes Crispus</i> Extracts | Co-Supervisor | On-Going |

INTERNAL EXAMINERS AND CHAIRMAN FOR M.S AND Ph.D THESES

Acted as internal examiners and chairman for UPM M.S and Ph.D thesis.

ACADEMIC ADVISORS

1. Acted as PA to groups of students from B.S (Nutrition and Community Health) programme and M.D Programme.
2. Acted as Advisor to Students' Nutrition Club (Undergraduate)
3. Acted as Advisor to Graduate Students Club
4. Acted as research supervisor to a group of students from German –Malaysia Institute
5. Acted as research supervisor to 2 groups of students from MARA Junior College, Taiping and Jasin Melaka.

JOURNALS - EDITORIAL BOARD / REVIEWER

Reviewer

British Journal of Pharmaceutical Research

Title : Study of preventive effectiveness of *Nigella sativa* L. against rat kidney stones, generated by ethylene glycol
2015

Reviewer

European Journal of Medicinal Plants

Title : Aqueous Extract of the Fruits of *Xylopia aethiopica* (Dunal) A. Rich. Protects against Carbon tetrachloride - Induced Hepatotoxicity in Rats
2015

Reviewer

Journal of Medicinal Food
Title : Chemopreventive Action of Anthocyanin-rich Black Soybean Fraction in APCMin+ Intestinal Polyposis Model
2015

Reviewer

Sains Malaysiana
Title : Graviola: A perspective on its potential anticancer activity
2015

Reviewer

International Journal of Pediatric Research
Title : The effect of resistance training on vascular health and cardiovascular disease risk factors in non-obese active adolescents.
2015

Reviewer

British Journal of Medicine and Medical Research
Title : Alzheimer disease and environmental exposure to neurotoxic factors: A controversy
2014

Reviewer

European Journal of Medicinal Plants
Title : Polyphenolic Compounds With Anti-Ages Activity From Three Clusiaceae Plants
2014

Reviewer

American Journal of Experimental Agriculture
Title : Chemical and Anti-nutritional Composition of Cola acuminata Varieties
2014

Reviewer

British Biotechnology Journal
Title : Hepatic gene expression of insulin like growth factor and selected antioxidants in diabetic rats treated with Turmeric or Black cumin seed
2014

Reviewer

IJAPR Review Department
Title : Application of PSX biocontrol preparation confers root-knot nematode control and increased fruit quality in tomato under field conditions
2014

Reviewer

British Journal of Pharmaceutical Research
Title : Antimicrobial and cytotoxic activities and GC-MS analysis of phytochemicals of methanolic extract of *Curculigo pilosa* (Schum and Thonn) Engl. (Hypoxidaceae) rhizomes
2014

Reviewer

Annual Research & Review in Biology
Title : Neuroprotective And Free Radicals Scavenging Potentials Of Some Common Leafy Vegetables Consumed In South-Eastern Nigeria
2014

Reviewer

British Journal of Applied Science & Technology

Title : Estrogenic and Hypocholesterolemic Effects of Aqueous Extract of *Nicotiana tabacum* (Tobacco) on the Micro-anatomical architecture of the Testis in Male Albino Wistar Rats.
2014

Reviewer

SpringerPlus

Title : Mitigating role of thymoquinone rich fractions from *Nigella sativa* oil and its constituents, thymoquinone and limonene on lipidemic-oxidative injury in rats.
2014

Reviewer

Plant Cell Biotechnology And Molecular Biology

Title : The study of the electromagnetic fields effect on the anticancer properties of *Nigella sativa* L. seeds.
2014

Reviewer

Annual Research & Review in Biology

Title : The effect of water extract of *Zataria multiflora* on microvascular permeability in streptozocin induced diabetic rats
2014

Reviewer

Journal of Applied Biomedicine.

Title : Polyphenolic Constituents from *Kickxia ramosissima*: Hepatorenal Protection and Antidiabetic Potential.
2014

Reviewer

African Journal of Microbiology Research

Title: Differential Immunoreactivity of the Root-knot Nematodes, *Meloidogyne graminicola* and *M. incognita* to Polyclonal and Monoclonal Antibodies and Identification of Antigens through Proteomics Approach.
2013

Reviewer

Annual Research & Review in Biology

Title: Radical scavenging, reducing power, lipid peroxidation inhibition and chelating properties of extracts from *Artemisia campestris* L. aerial part I
2013

Reviewer

British Biotechnology Journal

Title: Utilization of Agro-Industrial Waste Residues for The Production of Novel 1,4- β -D-Glucan Glucohydrolase from *Aspergillus Oryzae* IIB-6.
2013

Reviewer

Journal of Scientific Research and Reports.

Title: On the effectiveness of Canny's and Snakes' algorithm in diabetic retinopathy I.
2013

Reviewer

Journal of Agricultural and Crop Research

Title: Utilization Of Cereal Grain Fractions To Improve Oxidative Stability Of Beef Burgers Under Chilled Storage.

2013

Reviewer

European Journal of Medicinal Plants

Title: Ipomoea Batatas L. Reduces Body Weight By Decreasing Food Intake And Fasting Blood Glucose Level

2013

Reviewer

Food and Chemical Toxicology

Title: Protective Effects of Pre-Germinated Brown Rice Diet on Low-levels of Pb Induced Liver and Kidney Dysfunction in Developing Rat

2013

Reviewer

British Journal of Applied Science & Technology

Title: Chemical, sensory and microbiological evaluation of novel product manufactured from water soluble constituents of germinated grains.

2013

Reviewer

International Research Journal of Pure and Applied Chemistry

Title: Proximate and Mineral Composition of Nine Nigerian Fruits

2013

Reviewer

Food Chemistry

Title: Antitumor and Antioxidant Potential of Some Selected Pakistani Honeys

2013

Reviewer

Journal of Scientific Research and Reports

Title: Study of Clinico-Hematological And Immunophenotypic Profile In Adult Patients with Acute Lymphoblastic Leukemia in Eastern India

2013

Reviewer

African Journal of Agricultural Research

Title: A Third Generation Neonicotinoid Insecticide for Management of Rice Brown Planthopper.

2013

Reviewer

International Journal of Nanomedicine.

Title: Synthesis and characterization of low-toxicity N-caprinoyl-N-trimethyl chitosan as cancer-targeting self-assembled micelles for osteole.

2013

Reviewer

Food and Chemical Toxicology

Title: Effect of grapefruit juice on the precarcinogenic, oxidative, and micronuclei induction by azoxymethane in mice.

2013

Reviewer

Journal of Food Science and Technology

Title: Determination of Gamma-aminobutyric Acid in Germinated Brown Rice by HPTLC

2013

Reviewer

African Journal of Agricultural Research

Title: Dinotefuran: A Third Generation Neonicotinoid Insecticide for Management of Rice Brown Planthopper.

2013

Reviewer

Journal of the Chemical Society of Pakistan

Title: Flavonoids of *Prunus armeniaca* and their antibacterial studies

2013

Reviewer

Journal of Medicinal Plants Research

Title: Phyto-chemical analysis and Antifungal Activity of aerial parts of *Justicia gendarussa* *Burm.*

2013

Reviewer

Food and Chemical Toxicology

Title: Fatty acid profile, oxidative stability and toxicological safety of bayberry kernel oil

2013

Reviewer

International Journal of Nanomedicine

Title: Thymoquinone-Loaded Nanostructured Lipid Carriers: Preparation, Gastroprotection, In Vitro Toxicity and Pharmacokinetic Properties after Extravascular Administration

2013

Reviewer

Journal of Medicinal Plants Research

Title: Antioxidant and androgenic effects of *Nigella sativa* seeds on reproductive functions in alloxan diabetic male rat.

2013

Reviewer

Journal of Medicinal Plants Research

Title: Phyto-chemical analysis and Antifungal Activity of aerial parts of *Justicia gendarussa* *Burm.*

2013

Editorial / Review Board

Journal of Food Chemistry and Nutrition

2013

Reviewer

Journal of Pharmacognosy and Phytotherapy

Title: Toxicological Evaluation Of Fermented Liquor And Methanolic Extract Of Beniseeds In Albino Rats

2013

Reviewer

Jurnal Sains Malaysiana

Title: Antioxidant Activity of Methanol Extract of *Tinospora crispa* and *Envartamia Cororania*.

2012

Reviewer

Jurnal Sains Malaysiana

Title: Acute Toxicity Study of *Cosmos Caudatus* on Biochemical Parameters in Male Rats.

2012

Reviewer

Journal of The Chemical Society of Pakistan

Title: DNA binding studies of new Ferrocene based Bimetallics

2012

Reviewer

Journal Nutrition and Metabolism

Title: Effects of pre-germinated brown rice-derived steryl glucosides fraction in diet-induced obesity mice.

2012

Reviewer

Molecular Biology Report

Title: Antihyperglycemic effect of curcumin: an in vitro and in vivo study.

2012

Reviewer

Journal of Medicinal Plants Research

Title: Isoflavones from *Calpurnea aurea* subsp. *aurea* and their anticancer activity.

2012

Reviewer

African Journal of Biotechnology

Title: Biotransformation of Prednicarbate by Bacterial Cell Culture

2012

Reviewer

Artemesia Current Research and Future Porspect

Title:

Part I: Introduction, cultivation and yield enhancement strategies

Part II: Artemisinin: Extraction, detection and estimation

Part III: Genetic engineering and metabolic pathway alterations

Part IV: Various applications of artemisinin

2012

Reviewer

Canadian Journal of Physiology and Pharmacology

Title: Germinated grains: Consumer health fad or functional health food
2012

RESEARCH AWARDS

Many research awards have been received for various research products as shown on pages 3-7.

These awards were obtained at International, National and Institutional level

ACKNOWLEDGEMENT AS R & D EXPO JUDGE

I have been invited as JUDGE in the Universiti Kebangsaan Malaysia R & D Expo for two years; 2004 and 2005

ACKNOWLEDGEMENT AS TECHNICAL EVALUER FOR PRIORITY RESEARCH (PR) AND EAR (MOSTI) EVALUATOR for FRGS/ERGS GRANT APPLICATION UNDER MOHE

I have been selected to be in the Technical Evaluation Committee for Priority Research for the Ministry of Science, Technology and Innovation for the Health Sector as well in the Technical Committee (UPM) for Experimental Applied Research for Health Sector

As well for Fundamental Research Grant Scheme and Eeperimental Research Grant Scheme under MOHE 2010-present

RESEARCH AND PRODUCT EXHIBITION

Represented Universiti Putra Malaysia in various exhibitions at international and national levels as follows:

1. Exhibition: The Malaysian International Modern Wellness Exhibition (IMWE 2015)
Date: 16 – 19 April 2015
Venue: MINES International Exhibition & Convention Centre, Malaysia.
2. Exhibition: AUTM Asia 2015
Date: 06 – 09 April 2015
Venue: KLCC

3. Exhibitor: Penang International Halal Expo and Conference (PIHEC) 2015
Date: 30 January – 01 February 2015
Venue: Spice Arena, Penang

4. Exhibitor: National Innovation Conference & Exhibition (NICE) 2014
Date: 31 October – 02 November 2014
Venue: Menara MATRADE , Kuala Lumpur

5. Exhibitor: International Trade Malaysia (INTRADE 2014)
Date: 20-22 October 2014
Venue: Menara MATRADE , Kuala Lumpur

6. Exhibitor: 5th International Greentech & Eco Products Exhibition Malaysia (IGEM2014)
Date: 16-19 October 2014
Venue: Kuala Lumpur Convention Centre

7. Exhibitor: Sidang Media Unversiti Penyelidikan - Kementerian Pendidikan Malaysia - Siri 4 : Pengkomersilan
Date: 02 October 2014
Venue: UTM Skudai Johor

8. Exhibitor: Halal Fiesta Malaysia 2014
Date: 03-07 September 2014
Venue: Pusat Pameran Mines, Seri Kembangan, Selangor

9. Exhibitor: Persidangan dan Pameran Pengkomersilan MOSTI
Date: 13 – 15 August 2014
Venue: Pusat Konvensyen Shah Alam

10. Exhibitor: SME Annual Showcase (SMIDEX 2014)
Date: 04-06 June 2014
Venue: KLCC, Kuala Lumpur

11. Exhibitor: Pameran Halal Antarabangsa Sabah 2013
Date: 12 – 15 Disember 2013
Venue: 1 Borneo Kota Kinabalu, Sabah.

12. Exhibitor: Malaysia International Comodity Conference & Showcase 2013
Date: 24 – 27 Oktober 2013
Venue: MAEPS Serdang, Selangor.

13. Exhibition: HALFEST 2013
Date: 2 – 6 Oktober 2013
Venue: Malaysia International Exhibiton & Convention Centre Mines Seri Kembangan, Selangor.

14. Exhibition: MAHA International 2012
Date: 23 November – 02 disember 2012
Venue: Malaysia Agro Exposition Park Serdang (MAEPS)

15. Exhibition: Pameran Ekspo Pertanian & Pesta Konvokesyen UPM Ke 36

- Date: 12 Oktober 2012
Venue: Bukit Ekspo, Taman Pertanian UPM
16. Exhibition: 1 MALAYSIA PROMOTION IN OMAN
Date: 29 – 30 April 2012
Venue: Crown Plaza Hotel, Muscat Oman
17. Exhibition: Malaysia International Commodity Conference and Showcase (Miccos 2011)
Date: 28 – 30 Oktober 2011
Venue: MAEPS, Serdang.
18. Exhibition: MAHA 2010
Date: 26 November 2010 hingga 05 Disember 2010
Venue: MAEPS, Serdang.
19. Exhibition: Majlis Dialog Ke-5 Kerjasama Dua Hala Kementerian Perusahaan Perladangan Dan Komoditi - UPM
Date: 6 April 2010
Venue: Universiti Putra Malaysia
Title: Innovation In Kenaf By Products : Phytosterol Rich Oil For Health
20. Exhibition: Sidang Media Sempena Majlis Promosi Hasil Penyelidikan UPM 2010
Date: 28 Januari 2010
Venue: Institut Biosains, UPM
Title: Thymoquinone Rich Fraction Prepared from Nigella Sativa Seeds with Cardioptotective and Neuroprotective Properties.
21. Exhibition: International Conference on Kenaf & Allied Fibres 2009 (ICKAF2009)
Date: 1-3 Disember 2009
Venue: Legend Hotel, Kuala Lumpur
Title: Supercritical Fluid Extraction (SFE) & Antioxidant activity Of Kenaf Seed Oil
22. Exhibition: International Exhibition of Ideas Inventions New Products (iENA) 2009
Date: 5-9 November 2009
Venue: Nuremberg, Jerman
Title: 1) Thymoquinone Rich Fraction Prepared from Nigella Sativa Seeds with Cardioptotective and Neuroprotective Properties.
2) Development of Functional Food and Nutraceutical from Germinated Brown Rice
23. Exhibition: Penyelidikan dan Ciptaan Institusi Pengajian Tinggi Antarabangsa (PENCIPTA) 2009
Date: 8-9 October 2009
Venue: KLCC, Kuala Lumpur
Title: Antidiabetic activity of Lemba

24. Exhibition: EIAT 2006
Date: 16-19 February 2006
Venue: PWTC, Kuala Lumpur
Title: Nutraceutical Products from Local Resources

25. Exhibition: Biotechnology Asia
Date: 16-18 August 2005
Venue: PWTC, Kuala Lumpur
Title: Nutraceutical Products from Local Resources

26. Exhibition: BioMalaysia 2003 & 2005
Date: 28-29 April 2005
Venue: PICC, Putrajaya
Title: Pharmaceutical and Nutraceutical Research Programme

27. Exhibition: NATPRO 2005 (Asia Natural product Expo)
Date: 14-16 April 2005
Venue: PWTC, Kuala Lumpur
Title: Black seed (*Nigella sativa*) as a potential nutraceutical

28. Exhibition: 32nd International Exhibition of Inventions, Techniques and Products
Date: 31 march-4th April 2004
Venue: Palexpo, Geneva, Switzerland
Title: E-Ory: Antioxidant Rich Nutraceutical Formulation

29. Exhibition: Malaysian Science and Technology Invention and Innovation Research Competition
Date: 22-25 Nov 2004 and 2003
Venue: PWTC, Kuala Lumpur

30. Exhibition IPTA R & D Expo
Date: October 2002, 2003, 2004
Venue: PWTC, Kuala Lumpur

31. Exhibition: MAHA
Date: September 2004
Venue: The MINES, Seri Kembangan

32. Exhibition: Hari Keputraan Sultan Perak
Date: May 2004
Venue: Sek. Men. Sri Perak, Teluk Intan

33. Exhibition: Anugerah Inovasi Perkhidmatan Awam
Date: 21 august 2003
Venue: Kota Kinabalu, Sabah

COMMERCIALISATION OF RESEARCH PRODUCTS

1. **ORYGOLD™** by Germibran Sdn. Bhd
2. **HS GOLD™** by Nutracreme Sdn. Bhd

THREE PRODUCTS TO BE COMMERCIALISED:

1. **Rice Bran Malaysia -RBM**
Stabilised local rice bran as a potential nutraceutical rich in fiber, phytosterols and antioxidants
2. **Hypocholesterolemic Formulated Oil- RiBO**
Formulated oil with good lipif profile for cardioprotective properties in particular for cholesterol lowering effect, synthesized from local agricultural by-products
3. **Antioxidant Formulation – E-ORY**
Formulation of potent antioxidants; gamma-oryzanol, tocotrienol and tocopherol with optimum concentration ratios for maximum antioxidant effects, properties and bioavailabilities

PROGRAM FOR COMMERCIALISATION

1. **Title of program** : Program Symbiosis Keusahawanan Siswazah UPM-MTDC

Product : Production of GBR (Germinated Brown Rice) As Neutra Nutraceutical and Functional Food

Date : 21 November 2010 – 16 Disember 2010

Venue : Hotel Equatorial Bangi, Selangor
Taman Negara Endau Rompin
2. **Title of program** : BiotechCorp Technology Evaluation and Networking Programme (Bnet) in collaboration with Frost & Sullivan

Product : 1) Kenaf Bio – Oil (Hibiscus cannabinus L.)
2) TQRF (Thymoquinone Rich Fraction)

Date : 15 Disember 2010

Venue : Hotel Berjaya Times Square, Kuala Lumpur

CONSULTANCY SERVICES

| | |
|---------------------------|---|
| Project/Assignment | Effect of herbal extract on glucose uptake and insulin secretion in vitro |
| Role: | Consultant |

| | | |
|---|--|---|
| | Client: Duration: Status: | Biotropics Malaysia Berhad 28 August 2015 – 19 November 2015 Completed |
| 1 | Project/Assignment Role: Client: Duration: Status: | Molecular Halal food testing study and development. Consultant AbSciex Co. (USA) Nov – Disember 2014 On-Going |
| 2 | Project/Assignment Role: Client: Duration: Status: | Antidiabetic Properties Of Clinacanthus Nutans And Rhodamnia Cinerea Extracts Consultant Biotropics Malaysia Berhad August 2014 – January 2015 On- Going |
| 3 | Project/Assignment Role: Client: Duration: Status: | Development of Extruded Brown Rice Powder & Breakfast Cereal Using Direct Extrusion Technology Technical Expert Technology Park Malaysia Corporation Sdn. Bhd 2012 On Going |
| 4 | Project/Assignment Role: Client: Duration: Status: | Kandungan Hypocholestrolemic Property Dalam Jamu Temulawak Consultant MediHerbs Heritage Sdn Bhd 5 Januari 2010 – 4 September 2010 Complete |
| 5 | Project/Assignment Role: Client: Duration: Status: | Technical Evaluator PR-NBD Project NBD, MOSTI 2005 Complete |
| 6 | Project/Assignment Role: Client: Duration: Status: | Technical Evaluator EA-IRPA Helath Sector UPM 2005 Complete |
| 7 | Project/Assignment Role: Client: Duration: Status : | Expo Penyelidikan dan Pembangunan 2005 Judge Universiti Kebangsaan Malaysia 2005 Complete |
| 8 | Project/Assignment Role: Client: Duration: Status: | Initiate NS Biotechnology Satellite Consultant Unit Perancang Ekonomi Negeri Sembilan 2005-2006 Beginning |
| 9 | Project/Assignment Role: Client: Duration: | Technical Expert PR-IRPA: Health Sector MOSTI 2004 |

| | | |
|----|---|--|
| | Status | Complete |
| 10 | Project/Assignment: Role: Client: Duration: Status | Expo Penyelidikan dan Pembangunan 2004 Judge Universiti Kebangsaan Malaysia 2004 Complete |
| 11 | Project/Assignment: Role: Client: Duration: Status : | Working Group for the Prevention of Micronutrient Deficiencies Member/Resource Person Ministry of Health, Malaysia 2002 Complete |
| 12 | Project/Assignment: Role: Client: Duration: Status: | Regional Training Course for East Asia Pacific on Application of Isotopic Techniques : Human Nutrition Research, Bangkok, Thailand Expert/Lecturer International Atomic and Energy Agency 1999 Completed |
| 13 | Project/Assignment: Role: Client: Duration: Status: | Preparation of Malaysia Dietary Guidelines Member of Technical Committee & Dietary Guidelines Ministry of Health 1998-1999 Completed |
| 14 | Project/Assignment: Role: Client: Duration: Status: | Codex Alimentarius Commission FAO/WHO Food Standard Programme: Part of National Committee on Nutrition and Foods for Special Dietary Uses Member/Resource Person Ministry of Health, Malaysia 1996 Completed |
| 15 | Project/Assignment: Role: Client: Duration: Status: | National Committee for the Preparation of Health Recipes Member/Resource Person Ministry of Health, Malaysia 1996 Completed |
| 16 | Project/Assignment: | A Study on the Assessment of School Milk Programme in Peninsular Malaysia. This Study was Conducted on Primary School Children, Teachers in Charge of the Programme, Ministry of Education Officers and Milk Companies Throughout Malaysia |