

## CURRICULUM VITAE



Professor Ir. Dr. Yus Aniza Yusof  
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Halal Products Research Institute  
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### Education

1. PhD, DIC, Chemical Engineering, Imperial College London, UK
2. MSc, Chemical and Process Engineering, Universiti Kebangsaan Malaysia, Malaysia
3. BEng (Hons), Chemical and Process Engineering, Universiti Kebangsaan Malaysia, Malaysia

### Areas of Interest

Food Powder Technology  
Food Material Engineering  
Halal Products Characterisation

### Professional Qualification/ Membership/ Affiliation

1. Chartered Member (CEng MICheE), The Institution of Chemical Engineers (IChemE) UK
2. Professional Engineer (Peng), Board of Engineers Malaysia (BEM)
3. Graduate Member, The Institution of Engineers Malaysia (IEM)
4. Member, Malaysian Society for Engineering & Technology (mSET)

### Appointments

| Position   | Duration   |
|--|--|
| 1. Professor, Department of Process and Food Engineering, Faculty of Engineering, UPM            | 1 Feb 2019 - present                               |
| 2. Deputy Director, Halal Products Research Institute, UPM                                       | 1 April 2020 - present                             |
| 3. Head, Laboratory of Halal Services, Halal Products Research Institute, UPM                    | May 2017- 31 March 2020<br>July 2011 – 31 Jan 2019 |
| 4. Associate Professor, Department of Process and Food Engineering, Faculty of Engineering, UPM  | August 2009 – Dec 2014                             |
| 5. Head, Department of Process and Food Engineering, Faculty of Engineering, UPM                 |  |
| 6. Academic Coordinator, Department of Process and Food Engineering, Faculty of Engineering, UPM | August 2006 – August 2009                          |
| 7. Acting Head, Department of Process and Food Engineering, Faculty of Engineering, UPM          | September 2006 – October 2006                      |
| 8. Senior Lecturer, Department of Process and Food Engineering, Faculty of Engineering, UPM      | August 2008 – June 2011                            |
| 9. Lecturer, Department of Process and Food Engineering, Faculty of Engineering, UPM             | January 2006 – July 2008                           |
| 10. Tutor, Department of Process and Food Engineering, Faculty of Engineering, UPM               | August 1999 – December 2005                        |

## Publications

### Journals (30 selected journals of over 150 publications)

1. Fikry, M., Yusof, Y. A., Awaadh, A. M., Rahman, R. A., Chin, N. L., (2020). Prediction of the shelf-life of date seeds brew by integration of acceptability and quality indices. *Journal of Food Measurement and Characterization*, 1-14.
2. Asghar, M.T., Yusof, Y.A., Mokhtar, M.N., Yaacob, M.E., Ghazali, H.M., Chang, L.S. & Manaf, Y.N. (2019). Coconut (Cocos nucifera L.) palm sap: Antioxidant and nutritional properties as potential source of sugar. *Food Science and Nutrition*, 1-11.
3. Abel, S.E.R., Yusof, Y.A., Chin, N.L., Chang, L.S., Ghazali, H.M. & Manaf, Y.N. (2020). Characterisation of Physicochemical Properties of Gum Arabic Powder at Various Particle Sizes. *Food Research 4* (Suppl. 1): 107-115.
4. Baroyi, S.A.H.M., Yusof, Y.A., Ghazali, H.M. Chin, N.L., Othman, S.H., Chang, L.S., Ghazali, N.S.M. (2019). A novel method based on passive diffusion that reduces the moisture content of stingless bee (*Heterotrigona itama*) honey. *Journal of Food Process Engineering*, e13221: 1-10.
5. Manzoor, S., Yusof, Y. A., Chin, N. L., Tawakkal, I.S.M., Fikry, M., Chang, L.S. (2019). Thin-layer drying characteristics of papaya (*Carica papaya*) peel using convection oven and microwave drying. *Pertanika Journal of Science and Technology*, 27(3): 1207 – 1226.
6. Ghazali, N.S.M., Yusof, Y.A., Ghazali, H.M. Chin, N.L., Othman, S.H., Manaf, Y.N.A., Baroyi, S.A.H.M. (2019). The application of clay pot for moisture reduction of *Geniotrigona thoracica* stingless bee honey. *International Journal on Advanced Science, Engineering, Information and Technology*, 9: 2028-2034.
7. Rokeya Begum, Yus Aniza Yusof, Mohammad Gulzarul Aziz, M. Burhan Uddin, (2017) Effect of drying methods on the properties of pectin extracted from jackfruit (*Artocarpus heterophyllus*) Waste, available online <http://dx.doi.org/10.1080/10942912.2017.1295054> *International Journal of Food Properties*, 1-12.
8. C. J. Etti PhD, Y. A. Yusof PhD, N. L. Chin PhD & S. Mohd Tahir, (2017) Tableting Properties and Compression Models of *Labisia pumila* Tablets, *Journal of Dietary Supplements* 14(2), 132-145.
9. M. Saifullah, Y. A. Yusof, N. L. Chin, M.G. Aziz, (2016) Physicochemical and flow properties of fruit powder and their effect on the dissolution of fast dissolving fruit powder tablets, *Powder Technology*, 301, 396-404.
10. M. Saifullah, Y. A. Yusof, N. L. Chin, M.G. Aziz, M.A. P. Mohammed, N. A. Aziz (2016) Dissolution profiling and its Comparison of Natural Fruit Powder Effervescent Tablets *Journal of Food Engineering*, 178, 60-70.
11. Y.A. Yusof, C.J. Etti, , N.L. Chin (2015) Development of Nutraceutical Product *International Journal on Advanced Science, Engineering and Information Technology*, Vol. 5 No. 3, pages: 50-55.
12. FS Mohd Salleh, YA Yusof, MS Anuar, NL Chin (2015) Understanding the Tableting Characteristics of *Ficus deltoidea* Powder by Fitting into Compression Models, *Journal of Food Process Engineering*, 38, 250-261.
13. M. Y. Ong, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. A. Mohd. Amin (2014). Characterisation of Fast Dispersible Fruit Tablets made from Green and Ripe Mango Fruits Powders, *Journal of Food Engineering*, 125, 17-23
14. F. S. Mohd Salleh, Y. A. Yusof, M. S. Anuar and N. L. Chin (2014). Flow Properties of *Ficus Deltoidea* Extract Powder and The Binders; *Acdisol* And *Avicel*, *Journal of Food Process Engineering*, 37(1), 63-74.
15. M.R. Faridatul Ain, Y.A. Yusof, N.L. Chin, Z. Mohd Dom ( 2014) Storage Study of *Arenga pinnata* Juice, *Agriculture and Agricultural Science Procedia* 2 (2014 ) 218-223.
16. P. Z. Lai, Y.A. Yusof, M. G. Aziz, N. L. Chin, N. A. Mohd Amin (2013). Compressibility and Dissolution Characteristics of Mixed Fruit Tablets Made from Guava and Pitaya Fruit Powders, *Powder Technology*, 247, 112-119.
17. P.K. Chong, M. G. Aziz, Y. A. Yusof, M.N. Naim, N. L. Chin, S. H. Syed Muhammad (2013). Modelling and determination of physico-chemical and morphological properties of microencapsulated red amaranth powder, *The Institution of Engineers Malaysia Journal*, 74 (2), 1-9.
18. T. Z. Chin, Y. A. Yusof, N. L. Chin, R. A. Talib, S.H. Othman, M. G. Aziz (2013). Changes in friction, surface roughness and tensile strength upon compaction of *Ficus deltoidea* powder, *ScienceAsia*, 39, 520-526.
19. A. A. Abdul Hamid, Y. A. Yusof, N. L. Chin, S. Mohamed, F. Salleh, 2013. Effect of Feed

- Powder Quantity and Compression Pressure on the Tensile Strength of Eurycoma longifolia Jack tablets using Different Binders. *International Journal of Food Engineering*, doi 10.1515/ijfe-2012-0172.
20. N. A. Ghani, Y. A. Yusof, R. A. Talib, N. L. Chin, M. G. Aziz (2012) Changes Of Physical Properties during Microwave Processing of Sagon. *Journal of Food Processing and Preservation*, 10.1111/jfpp.12027, 1-10
  21. A. A. Abdul Hamid, Y. A. Yusof, N. L. Chin, S. Mohamed, 2012. Effect of Feed Powder Quantity and Compression Pressure on the Tensile Strength of Eurycoma longifolia Jack tablets using Different Binders. *International Journal of Food Engineering*, 8(1, Article 1.
  22. L. T. Ng, C. P. Han, Y. A. Yusof, N. L. Chin, R. A. Talib, F. S. Taip, M. G. Aziz (2012). Physicochemical and Nutritional Properties of Spray-Dried Pitaya Fruit Powder as Natural Colorant. *Food Science and Biotechnology*. 21(3): 675-682.
  23. Y. A. Yusof, F. S. Mohd. Salleh, N. L. Chin, R. A. Talib (2012). The Drying and Tableting of Pitaya Powder. *Journal of Food Process Engineering*. 35: 763–771.
  24. S. T. Yeow, A. Shahar, N. Abdul Aziz, M.S. Anuar, Y. A. Yusof, F.S. Taip (2011). The influence of operational parameters and feed preparation in a convective batch ribbon powder mixer, *Drug Design, Development and Therapy*, 5: 465-469.
  25. Z. Zainal Abidin, Y. A. Yusof, N. L. Chin, S. Mohamed (2011). Effect of Binder on Compression Characteristics of Eucheuma cottonii Powder, *Journal of Food, Agriculture and Environment*, 9(2): 137-41.
  26. Y. A. Yusof, A. C. Smith, B. J. Briscoe (2011). The effect of roll surface, temperature and particle size of powder on roll compaction of maize, *The Institution of Engineers Malaysia Journal*, 70(4), 56-64.
  27. S. D. Lim, Y. A. Yusof, N. L. Chin, R. T. Talib, J. Endan, M. G. Aziz (2011). Effect of Extraction Parameters on the Yield of Betacycnins from pitaya fruit (Hylocereus polyrhizes) pulps. *Journal of Food, Agriculture and Environment*, 9(2): 158-162.
  28. Y. A. Yusof, S. K. Ng, N. L. Chin, R. A. Talib (2010). Studies on the Effects of Wall Friction and Surface roughness upon Compaction Strength of Andrographis Paniculata Herb. *Tribology International*, 43, 1168-1174.
  29. Y. A. Yusof, A. C. Smith, B. J. Briscoe (2009). Uniaxial Die Compaction of Food Powders, *The Institution of Engineers Malaysia Journal*, 70(4), 41-48.
  30. Y. A. Yusof, A. C. Smith, B. J. Briscoe (2005). Roll compaction of maize powder, *Chemical Engineering Science*, 60 (14), 3919-3931.

#### Conference Proceedings (Selected Conference Proceedings)

1. Nashratul Shera Mohd Ghazali, Yus Aniza Yusof, Hasanah Mohd Ghazali, Chin Nyuk Ling, Siti Hajar Othman, Yanty Noorzianna Abdul Manaf, Syahrul Anis Hazwani Mohd Baroyi(2019). The Application of Clay Pot for Moisture Reduction of Geniotrigona Thoracica Stingless Bee Honey, 7th International Conference Sustainable Agriculture, Food and Energy (SAFE 2019), 18-21 October 2019, Phuket, Thailand.
2. Etti, C.J., Yusof, Y.A., Chang, L.S., and Ekanem, V.G. (Poster) (2018). Flowability and Nutritional Properties of Wheat-unripe Plantain Composite Flour, *The 4<sup>th</sup> International Conference on Aricultural and Food Engineering (CAFEi2018)*, 7-9 November 2018, Putrajaya, Malaysia.
3. Begum, R., Yusof, Y. A., Aziz, M. G., Uddin, M. B. (2016). Functional Properties of Jackfruit Waste Pectin as Influenced by Various Drying Methods, *The 2<sup>nd</sup> International Conference of Food Properties (ICFP 2016)*, Bangkok, Thailand.
4. MA Ali, YA Yusof, NL Chin, NM Ibrahim, Effect of Oven Drying Temperature On Nutrients Concentration And Color Quality Of Banana Slices, *The 8th Asia-Pacific Drying Conference (ADC 2015)*, Kuala Lumpur, Malaysia on 10-12 August 2015.
5. Y. A. Yusof, S. W. Tan, N. L. Chin, Compaction Characteristics of Rice Straw, Sugarcane Bagasse, Soybean Residue and Napier Grass, *3rd International Conference on Sustainable Agriculture, Food, and Energy (SAFE2015)*, 17-18 November 2015, Ho Chi Minh, Vietnam.
6. R.A. Stashia Eleaness, Y.A. Yusof, M. Nabilah, N.L. Chin, Dissolution of Gum Arabic in Water, *The 7th International Conference on Sustainable Agriculture for Food, Energy and Industry in Regional and Global Context, ICSAFEI2015*, Universiti Putra Malaysia, Serdang, Selangor, Malaysia, 25-27 August 2015.
7. M. Saifullah, Yusof Y. A., Aziz M. G., Chin N. L., Mohammed M. A. P., Aziz N. A, Dissolution Behaviour of Fast Dissolve Pitaya and Guava Fruit Powder Tablets, *National Conference On*

- Agricultural and Food Mechanization 2014 (NCAFM 2014), 20 -22 May 2014, Kota Kinabalu, Sabah.
8. Taufiq, A. M., Yusof, Y.A. , Chin, N. L., Othman, S. H., Serikbaeva, A., M. G. Aziz, Effect of Vitamin C Release upon Dissolution of Pineapple and Tamarind Tablets, National Conference On Agricultural and Food Mechanization 2014 (NCAFM 2014), 20 -22 May 2014, Kota Kinabalu, Sabah.
  9. Yus Aniza Yusof, Iqar Ahmad Khan, Rai Niaz. University of Agricultural Faisalabad, Pakistan. Malaysian Varsity Launch Food Engineering Program, Business Recorder, Pakistan, 15 Oktober 2013, article online.
  10. Y. A. Yusof, E. W. Lim, N. L. Chin, 2012. Flowability of Herbal Powders, *International Conference and Exhibition on Pharmaceutical, Nutraceutical, and Cosmeceutical Technology, 20-21 November 2012, Kuala Lumpur Convention Centre, Malaysia.*
  11. P. H. Chong, M. G. Aziz, Y. A. Yusof, N. Mohd Nazli, N. L. Chin, 2012. Encapsulation By Spray Drying Of Crude Betacyanins: Physicochemical, Morphological And Nutritional Properties Of Produced Powder, *18th International Drying Symposium, 3-6 October 2012, Xiamen, China.*
  12. F. A. Mohd. Rosdan, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. A. Mohd. Amin, H. Mohd. Ghazali, P. H. Chong, 2012. Physicochemical Properties of Josapine Pineapple (Ananas Comosus), *International Conference on Agricultural and Food Engineering for Life, 26-28 November 2012, Palm Garden Hotel, Putrajaya.*
  13. C. J. Etti, Y. A. Yusof, N. L. Chin, M. G. Aziz, 2012. Effects Of Particle Size Upon Surface Roughness and Wall Friction During Compaction Of *Labisia Pumila* Tablets, *International Conference on Agricultural and Food Engineering for Life, 26-28 November 2012, Palm Garden Hotel, Putrajaya.*
  14. I. S. Shamsudin, M. S. Anuar, Y. A. Yusof, A. H. Mohd Hanif, T. Suraya, 2012. Compaction of Urea 46% Nitrogen by Uniaxial Die Compaction, *International Conference on Agricultural and Food Engineering for Life, 26-28 November 2012, Palm Garden Hotel, Putrajaya.*
  15. M. G. Aziz, M. Fasamanesh, Y. A. Yusof, M. N. Ibrahim, 2012. Thermal Properties and Compressibility of Freeze-dried Fruit Powder Containing Additives, *International Conference on Agricultural and Food Engineering for Life, 26-28 November 2012, Palm Garden Hotel, Putrajaya.*
  16. F. A. Mohd. Rosdan, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. A. Mohd. Amin, H. Mohd. Ghazali, P. H. Chong, 2012. Physicochemical Properties Comparison between Pulp and Powder of the Josapine Variety of Pineapple (Ananas Comosus), The 2<sup>nd</sup> Interantional Symposium on Processing & Drying of Foods, Vegetables and Fruits (ISPDVF2012), University of Nottingham, Malaysia Campus, 18-19 June 2012.
  17. P. H. Chong, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. Mohd. Naim, F. A. Mohd. Rosdan, 2012. Modelling of the Microencapsulation of Betacyanins and their Antioxidant Activity Extracted from Red Amaranth, The 2<sup>nd</sup> Interantional Symposium on Processing & Drying of Foods, Vegetables and Fruits (ISPDVF2012), University of Nottingham, Malaysia Campus, 18-19 June 2012.
  18. L.T. Ng, C. P. Han, Y. A. Yusof, N. L. Chin, R. A. Talib, M. G. Aziz, 2012. Quality of Spray-Dried Pitaya Fruit Powder as Natural Colourant , The 2<sup>nd</sup> Interantional Symposium on Processing & Drying of Foods, Vegetables and Fruits (ISPDVF2012), University of Nottingham, Malaysia Campus, 18-19 June 2012.
  19. P. H. Chong, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. Mohd. Naim, F. A. Mohd. Rosdan, 2012. Modelling of the Microencapsulation of Betacyanins and their Antioxidant Activity Extracted from Red Amaranth, Malaysian International Conference on Trends in Bioprocess Engineering (MICOTriBE) 2012, Langkawi, Kedah, 3-5 July 2012.
  20. F. A. Mohd. Rosdan, Y. A. Yusof, M. G. Aziz, N. L. Chin, N. A. Mohd. Amin, H. Mohd. Ghazali, P. H. Chong, 2012. Physicochemical Properties Comparison between Pulp and Powder of the Josapine Variety of Pineapple (Ananas Comosus), Malaysian International Conference on Trends in Bioprocess Engineering (MICOTriBE) 2012, Langkawi, Kedah, 3-5 July 2012.
  21. Y. A. Yusof, M. N. Ibrahim, R. A. Talib, 2012, Outcome Based Education Approach In Process And Food Engineering Studies In Universiti Putra Malaysi, An International Seminar On "Food Engineering-Way To Food Security", 16 March 2012, University of Agriculture, Faisalabad, Pakistan, ISBN: 978-969-9035-04-3, 1-10.
  22. S. W. Tan, Y. A. Yusof, N. L. Chin, M.N. Naim, R. A. Talib, 2011. Compression Properties on Selected Biomass Residues, *The International Conference on Chemical Engineering &*



- Industrial Biotechnology 2011 (ICCEIB2011)*, 28 Nov-1 Dec. 2011, Kuantan, Malaysia.
23. Y. A. Yusof, S. N. Mohd. Din, N. L. Chin, M. S. Anuar, Stress Relaxation of Selected Viscoelastic Herbs, *Regional Tribology Conference*, 22-24 Nov, Langkawi, Kedah, 11-15.
  24. N. Abd. Razak, Y. A. Yusof, N. L. Chin, Direct Compression Characterisation of Andrographis Paniculata Extract, *Proceedings of the 24th Symposium of Malaysian Chemical Engineers. a conference of World, Engineering, Science & Technology Congress ESTCON 2010*, (15-17 June 2010), Kuala Lumpur, Malaysia, pp. 295-300.
  25. A. A. Abdul Hamid, Y. A. Yusof, N. L. Chin, S. Mohamed, The Influence of Densities of Single Component Powder on the Tensile Strength of Tablets, *Proceedings of the 2010 International Conference on Fundamental and Applied Sciences, a conference of World, Engineering, Science & Technology Congress ESTCON* (15-17 June 2010), Kuala Lumpur, Malaysia.
  26. Z. Zainal Abidin, Y. A. Yusof, N. L. Chin, S. Mohamed, Compression Characteristics of Eucheuma Cottonii Powder, *Conference on Advanced Processes and Materials (World Engineering Congress)* (2-5 Ogos 2010), Kuching, Sarawak, 211.
  27. F. S. Mohd. Salleh, Y. A. Yusof, N. L. Chin, M. S. Anuar, Flow Properties of Acdisol and Microcrystalline Cellulose, *Conference on Advanced Processes and Materials (World Engineering Congress)* (2-5 Ogos 2010), Kuching, Sarawak, 209.
  28. S. H. A. Rahman, R. A. Talib, K. Abdan, N. L. Chin, Y. A. Yusof, K. F. M. Yunus, Composite Films from Kenaf Derived Cellulose (KDC) Fibers and Polylactic Acid (PLA), *Conference on Advanced Processes and Materials (World Engineering Congress)* (2-5 Ogos 2010), Kuching, Sarawak, 6-10.
  29. Y. A. Yusof, S. R. Abd Jalil, N. L. Chin, R. A. Talib, J. Endan, A. Yahaya, J. Adnan, Drying of Catfish Feed Pellets., 11th Asean Food Conference 2009, 21-23 Oct 2009. Bandar Seri Begawan, Brunei Darussalam. 115-117.

### Keynote Speakers/Invited Speakers

#### Keynote Speaker

1. Yusof, Y. A. (2017). Advanced Herbal and Fruit Powders Processing, *Inovasi Teknologi dalam Mewujudkan Kemandirian Pangan Berkelanjutan*, 4<sup>th</sup> October 2017, Politeknik Pertanian Negeri Payakumbuh, Limapuluh Kota West Sumatra, Indonesia.
2. Y.A. Yusof (2015) Development of Nutraceutical Product, International Conference on Quality Improvement and Development of Food Product (QID-Food 2015), Andalas University, Padang, Indonesia, Istana Bung Hatta, Bukittinggi, Indonesia, 18 April 2015.
3. Yus Aniza Yusof (2015) Improved Curricula of B.Sc Food Engineering, Bangladesh Agricultural University, Bangladesh, 16 September 2015.

#### Invited Speaker:

1. Yusof, Y. A., Halal Science and Innovation, 9 June 2020, organized by SAFE Network based in Indonesia (webinar)
2. Yusof, Y. A., Food Security and Food Safety Issues in Malaysia, 22 May 2020, organized by Kazakh National Agrarian University, Kazakhstan (webinar)
3. Yusof, Y. A., Outstanding Guest Lecturer, Halal Science Analysis, 3rd October 2017, Faculty of Agricultural Technology, Andalas University, Padang, Indonesia.
4. Yusof, Y. A., Invited Speaker, Halal Product Testing for DNA and Chemical Analysis, The 8th Biennial Regional Symposium on Total Laboratory Management – Quality, Safety, Environment and Laboratory Informatics (QSEL 2017), 10 October 2017, Putra World Trade Centre, Kuala Lumpur, Malaysia.
5. Y. A. Yusof, M. N. Ibrahim, R. A. Talib, 2012, Outcome Based Education Approach In Process And Food Engineering Studies In Universiti Putra Malaysia, An International Seminar On “Food Engineering-Way To Food Security”, 16 March 2012, University of Agriculture, Faisalabad, Pakistan, ISBN: 978-969-9035-04-3, 1-10.
6. Y. A. Yusof, E. W. Lim, N. L. Chin, 2012, Flowability of Herbal Powders, International Conference and Exhibition on Pharmaceutical, Nutraceutical, and Cosmeceutical Technology, 20-21 November 2012, Kuala Lumpur Convention Center, ISBN 978-967-10833-1-4

### Chapter in Books

1. Y. A. Yusof, A. A. Abdul Hamid, S. Ahmad, N. Abdul Razak, N. L. Chin, S. Mohamed (2011). A

*Comparison of the Direct Compression Characteristics of Andrographis Paniculata, Eurycoma Longifolia Jack, and Orthosiphon Stamineus Extracts for Tablet Development*, in “*New Tribological Ways*”, InTech, Vienna Australia. (Editor, Taher Ghrib), ISBN 978-953-307-206-7.pp: 219-232.

2. N. L. Chin, **Y. A. Yusof**. (Guest Editors). 2010. The Institution of Engineers' Malaysia Journal, Vol. 71, No.4, December 2010.
3. Mustapa Kamal, S.M., Hussain, S.A., Chin, N.L., Abdul Rashid, S., Sobri, S., **Yusof, Y.A.** Taip, F.S. and Abdullah, L.C. (Eds.). 2007. Proceedings of the World Engineering Congress 2007, Penang, Malaysia, 5-9 August 2007. ISBN 978-983-41705-8-5.

### Research Grants

| No | Project Title  | Amount (RM)         | Year      | Source of Fund                               |
|----|--|---------------------|-----------|--|
| 1. | Pysico-chemical and Sensory Properties of Stingless Bee Honey Processing and Packaging   | 135800              | 2017-2019 | TRGS, MOHE                                   |
| 2. | Design and fabrication of low cost moringa oleifera leaves and seeds solar tunnel dryer, shredder and tablet forming machine for rural areas | ~13000 (USD\$ 3000) | 2015-2016 | COMSTECT –TWAS, The World Academy of Science |
| 3. | Enhancement of Gum Arabic Dissolution in Water   | 20 000              | 2015-2017 | UPM  |
| 4. | Process Optimization, Characterization and Storage Stability of Spray Dried Arrenga Pinnata Juice Powder                                     | 20 000              | 2016-2018 | UPM  |
| 5. | Investigations of Dissolution Kinetics and Modelling for Evaluation of Malaysian Fruit Powder Tablets  | 86 500              | 2013-2015 | FRGS, MOHE                                   |
| 6. | Development of Fast Dispersible Natural Fruit Powder Tablets   | 200 000             | 2011-2014 | ScienceFund, MOSTI                           |
| 7. | Formulation and Computational Modeling of Herbal Powders Tableting Process   | 60 000              | 2012-2014 | UPM  |
| 6. | Extraction of Betalains From Pitaya Fruit as A Natural Food Colourant  | 165 000             | 2009-2012 | UPM  |
| 7. | Studies on granulation properties and processes of Malaysian herbal powders  | 80,000              | 2006-2008 | MOHE-FRGS                                    |
| 8. | Tableting of Malaysian herbal powders  | 10,000              | 2006-2007 | UPM SPLB                                     |

### Awards/Recognition (Current)

| No | Name of awards | Title                          | Award Authority  | Award Type | Year |
|----|----------------|--------------------------------|--|------------|------|
| 1. | Silver Medal   | Chewable Moringa Fruity Tablet | International Conference and Exposition on Inventions by Institutions of Higher Learning 2019 (PECIPTA' 19), Universiti Tun Hussien Onn Malaysia, Batu Pahat, Johor, | National   | 2019 |

|     |                       |   |   |               |      |
|-----|-----------------------|---|---|---------------|------|
| 2.  | Silver Medal          | High Intensity<br>Ultrasound-aided<br>Food Mixing<br>System   | IENA, Germany   | International | 2015 |
| 3.  | Silver Medal          | Ultrasound Bath<br>Aided Mixing<br>System   | Malaysia Technology Expo  | National      | 2015 |
| 4.  | Bronze Medal          | Dissolution<br>Behaviour of<br>Fast Dissolve<br>Pitaya and<br>Guava Fruit<br>Powder Tablets                       | International Engineering<br>Invention and Innovation<br>Exhibition"(I-Envex)                                   | International | 2014 |
| 5.  | Bronze Medal          | Effect of Vitamin<br>C Release upon<br>Dissolution of<br>Pineapple and<br>Tamarind<br>Tablets                     | International Engineering<br>Invention and Innovation<br>Exhibition"(I-Envex)                                   | International | 2014 |
| 6.  | Bronze Medal          | Development of<br>Natural Food<br>Colourant using<br>Amaranthus<br>Gangeticus                                     | International Engineering<br>Invention and Innovation<br>Exhibition"(I-Envex)                                   | International | 2013 |
| 7.  | Bronze Medal          | Ultrasound Bath<br>Aided Mixing of<br>Cake Butter   | Pameran Reka Cipta,<br>Penyelidikan dan Inovasi<br>UPM  | UPM           | 2011 |
| 8.  | Bronze Medal          | Processing of<br>Pitaya Fruit<br>Powder   | Pameran Reka Cipta,<br>Penyelidikan dan Inovasi<br>UPM  | UPM           | 2011 |
| 9.  | Bronze Medal          | Pitaya Fruit<br>Powder as a<br>Natural Food<br>Colourant  | International Engineering<br>Invention and Innovation<br>Exhibition"(I-Envex)                                   | International | 2011 |
| 10. | Bronze Medal          | Pelleting of Rice<br>Straw,<br>Sugarcane<br>Bagasse,<br>Soybean<br>Residue and<br>Napier Grass as<br>Biomass Fuel | International Engineering<br>Invention and Innovation<br>Exhibition"(I-Envex)                                   | International | 2011 |
| 11. | Bronze Medal          | A Tableting<br>Device for<br>Malaysian Herbal<br>Powders  | Pameran International<br>Exposition of Research and<br>Inventions of Institutions of<br>Higher Learning PECIPTA | International | 2009 |
| 12. | Bronze Medal          | The Effect of<br>Friction and<br>Surface<br>Roughness upon<br>Compaction of<br>Ficus Deltoidea<br>Herbs           | National Research and<br>Innovation Competition,<br>Universiti Sains Malaysia,<br>Penang                        | National      | 2008 |
| 13. | Presentation<br>Award | Tableting of<br>Selected<br>Malaysian Herbs   | 1 <sup>st</sup> International Conference<br>Biotechnology for the<br>Wellness Industry                          | International | 2008 |

### Professional Services/Consultation

| No | Year | Title  | Authority  | Amount   |
|----|------|--|--|----------|
| 1. | 2020 | Texture Analysis of Hamburger Buns   | Stern Ingredients Asia-Pacific Pte Ltd., Singapore | 2,486.76 |
| 2. | 2019 | Physical, mechanical, barrier and chemical resistance tests on material integrity on packaging materials | ASO Shoji Co. Ltd, July 2018                       | 4,902.00 |
| 3. | 2017 | Halal Product Services   | Local Industries Bangladesh                        | On-going |
| 4. | 2015 | Scientific Expert for Curricula and Course Development Specialist in Food Engineering                    | Agricultural University, Bangladesh.               | USD 2450 |
| 5. | 2015 | Visiting Lecturer for Mevlana Programme  | Suleyman Demieral University, Turkey               | USD 1140 |
| 6. | 2015 | Assessor for Curriculum and Course Development Master of Engineering and Technology (Food Safety)        | Kazakh National Agrarian University, Kazakhstan.   |          |
| 7. | 2014 | Visiting Lecturer for MS. Biotechnology and Food Science (Powder Technology)                             | Kazakh National Agrarian University, Kazakhstan    | USD 2000 |
| 8. | 2013 | Visiting Lecturer for BSc. Food Engineering, FE501 (Physical Properties of Food)                         | University of Agriculture, Faisalabad, Pakistan    | USD 2000 |
| 9. | 2012 | International Expert in Curriculum Review for Food Engineering Programme                                 | University of Agriculture, Faisalabad, Pakistan    | USD 200  |

### Student Supervision

#### Postdoctoral

| No. | Name                                   | Title  | Status    |
|-----|--|--|-----------|
| 1.  | Dr. Yanty Noorzianna binti Abdul Manaf | Development of Value-Added Products from Sweet Potatoes  | On-going  |
| 2.  | Dr. Umami Kalthum Hanapi               | Pysico-chemical and Sensory Properties of Stingless Bee Honey Processing and Packaging                                       | Completed |
| 3.  | Dr. Muhamad Gulzarul Aziz              | Efficient Extraction and Stabilization by Spray Drying of Natural Colourant from Purple Pitaya, Red Spinach and Red Amaranth | Completed |

#### PhD (Main Supervisor)

| No. | Name               | Title  | Status    |
|-----|--------------------|--|-----------|
| 1.  | Christopher Etti   | The Compression and Flowability Characteristics of <i>Labisia Pumilia</i> Extract Powder                                   | Graduated |
| 2.  | Chong Pik Han      | Encapsulation and Application of Betacyanins and Antioxidants During Spray Drying of <i>Amaranthus Gangeticus</i> Extracts | Graduated |
| 3.  | Muhammad Azhar Ali | Evaluation of Moringa Oliefera Tablets for Drinking Water Purification   | Graduated |



|    |                                     |  |           |
|----|-------------------------------------|--|-----------|
| 4. | Stasia Elaanass Abel                | Extrusion of Soursop Snack   | On-going  |
| 5. | Rokeya Begum                        | Pectin Extraction of Agro-by-product   | Graduated |
| 6. | Muhammad Tuseef Asghar Ali          | Processsin of Sugar Palm   | On-going  |
| 7. | Ibrahim Mohamed Fikry Mohamed Ahmed | New Product Development of Palm Date By-Products                               | Graduated |
| 8. | Raza Ali                            | Design of Turmeric Processing Unit to Preserve Curcumin                        | On-going  |
| 9. | Aida Safina binti Aridi             | Extraction of Chitin and Chitosan From <i>L. leucocephala</i> (Petai Belalang) | On-going  |

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**MS with thesis (Main Supervisor)**

| No. | Name                                   | Title  | Status    |
|-----|--|--|-----------|
| 1.  | Assal Haj Najafi (GS17657)             | Osmotic Dehydration Combined with Low Temperature Drying of Pitaya   | Graduated |
| 2.  | Norawanis bt Abd. Razak (GS 19756)     | Oprimising the Conditions for Tableting of <i>Andrographis paniculata</i> for Medicinal Application          | Graduated |
| 3.  | So'Bah bt. Ahmad (GS 19238)            | Study on Direct Compression and Effects of Binders on Orthosiphon Stamineus and Tablet Properties            | Graduated |
| 4.  | Aziana Azlin bt Abdul Hamid (GS 18968) | Study on Direct Compression and Effects of Binders on Eurycoma Longifolia Jack Powders and Tablet Properties | Graduated |
| 5.  | Zafirah binti Zainal Abidin (GS 19988) | Compression Characteristics of <i>Eucheuma Cottonii</i> powder   | Graduated |
| 6.  | Faiqa Shazeaa Mohd. Salleh (GS 24933)  | The Compression and Compaction Characteristics of <i>Ficus Deltoidea</i> Extract Powder                      | Graduated |
| 7.  | Faridatul Ain Rosdan (GS 28872)        | Development of Fast Compressible Pineapple Tablets   | Graduated |
| 8.  | Md. Saifullah (GS 35172)               | Dissolution and Optimization of Fruit Powder Tablet  | Graduated |
| 9.  | Taufiq Aminullah bin Mokhtar (GS34257) | Modelling of Dissolution Kinetics of Natural Fruit Powder Tablet   | Graduated |
| 10. | Syahrul Anis Mohd. Baroyi              | Processing and Packaging of Stingless Bee Honey  | On-going  |
| 11. | Sama Manzoor (GS50429)                 | Utilization of Waste Papaya Peel as a Source of Animal Feed  | Graduated |
| 12. | Nashratul Shera Binti Mohamad Ghazali  | Physico-chemical and Sensory Properties of Toracica Stingless Bee Honey                                      | On-going  |