



RESEARCH OFFICER

Malaysian Agricultural Research and Development Institute (MARDI)

MARDI Kota Kinabalu, Lot 1, Jalan Selatan 3, KKIP, KM 7, Jalan

Teluk Sepangar, 88 460 Kota Kinabalu, Sabah.

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Academic qualification

1. MSc. Animal Nutrition , Universiti Malaysia Kelantan. 2017.
2. B. Of Sc. With Honours , Biotechnology with Management, Universiti Kebangsaan Malaysia. 2004.

Research Area / Research Expertise

Molecular genetics, animal production, animal nutrition.

Profesional Qualification / Membership / Affiliation

Malaysian Society of Animal Production (MSAP)

Appointments

Position	Duration
1. Research Officer, Technology Transfer and Entrepreneur Development Centre (TE), MARDI	Nov 2018 to date
2. Research Officer, Animal Science Research Centre (AS), MARDI	May 2011 to Oct 2018
3. MSc Candidate, Animal Nutrition, Faculty of Veterinary, Universiti Malaysia Kelantan (UMK)	Sept 2014 - Dec 2016

4. Research Officer, Livestock Research Centre (LR), MARDI Jan 2007 - May 2011
5. Research Officer, YSG Biotech, Kota Kinabalu, Sabah Sept 2004 - Dec 2006

Publications

1. **Norhayati, Z.**, Enggal, M., Saadiah, J. and Shanmugavelu, S. (2019). Milk production performance of jersey friesien in keningau, Sabah at early lactation. *Malaysian Journal of Animal Science*, 22 (2) : 107.
2. **Norhayati, Z.**, Wan Zahari, M., Shanmugavelu, S. and Dzulfazly, A. (2019). Tenderness and cooking loss in meat of male dorper sheep weaned at different ages. *Journal of Veterinar Malaysia*, 31 (1) : 43-44.
3. **Norhayati, Z.**, Rafidah, O., Amie Marini, A. B., Zarifah, M., Abu Bakar Azman, A. H., Wan Zahari, M., Johari Jiken, A. and Punimin, A. (2019). Genetic diversity in buffalo population of sabah / sarawak using microsatellite markers. *Proceeding of Regional Corn Conference (RCC 2019)*. The Ixora Hotel, Perai, Pulau Pinang. 26-28th February, 2019. 97-98pp.
4. **Norhayati, Z.**, Wan Zahari, Mohamed., Faezal Ashraff, A. L., Khaidzir, A. A., Ruzainizam, I., Zainal, A. M., Nooraisyah, S., Shanmugavelu, S. and Abdul Rahman, A. (2019). Pertumbuhan anak kambing biri-biri dorper sebelum disapih pada usia berbeza. *Seminar teknikal Pusat TE*. Metropoint Hotel, Melaka. 3-5 September 2019. 43pp.
5. **Norhayati, Z.**, Enggal, M., Saadiah, J. and Shanmugavelu, S. (2019). Innovative feed formulation for Sabah dairy cattle farmers. *MARDI Science and Technology Exhibition (MSTE)*. 29-31 October 2019. 190pp.
6. **Norhayati, Z.**, Enggal, M., Saadiah, J. and Shanmugavelu, S. (2019). Milk production performance of jersey friesien in keningau, Sabah at early lactation. *Proceeding of 5th ARCAP & 39th the Malaysian Society of Animal Production Annual Conference*. Dayang Bay Langkawi, Kedah. 26-28th November, 2019. 45pp.
7. **Norhayati, Z.**, Wan Zahari, M. and Shanmugavelu, S. (2018). Carcass Characterization of Dorper ram lambs weaned at different ages. *Malaysian Journal of Animal Science*, 21 (1) : 29-39.
8. **Norhayati, Z.**, Wan Zahari, M., Nooraisyah, S., Shanmugavelu, S. and Rahman, A. A. (2018). Carcass characteristics of male dorper sheep weaned at different ages. *Short Communication*. *Journal of Veterinar Malaysia*, 30 (1) : 20-22.
9. **Norhayati, Z.**, Wan Zahari, M. and Shanmugavelu, S. (2018). Nutrient digestibility of male Dorper sheep at different weaning ages. *Proceeding of 18th Asian-Australasian Animal Production (AAAP)*. Borneo Convention Centre Kuching, Kuching, Sarawak. 1-5th August, 2018. 530pp.
10. **Norhayati, Z.**, Wan Zahari, M. and Shanmugavelu, S. (2018). Evaluation on meat

quality of Dorper sheep weaned at different ages. MARDI Science and Technology Exhibition (MSTE). 8 -10 Oktober 2018. 66-67.

11. **Norhayati Zaini.** (2017). Effect of different weaning ages on growth performance, carcass components and long bone characteristics in Dorper lambs. Thesis. Universiti Malaysia Kelantan (UMK).

12. **Norhayati, Z.,** Wan Zahari, M. and Shanmugavelu, S. (2017). Growth Performance Of Dorper Sheep Weaned At Different Age. Proceeding of the veterinary Association Malaysia. Holiday Inn@Kuala Lumpur Glenmarie, Shah Alam, Selangor. 6-8th October, 2017. 112pp.

13. **Norhayati, Z.,** Wan Zahari, M. and Shanmugavelu, S. (2017). Economical value of Dorper sheep weaned at different ages. MARDI Science and Technology Exhibition (MSTE). 18 September 2017.61pp.

14. **Norhayati, Z.,** Wan Zahari, M., Nooraisyah, S., Shanmugavelu, S. and Rahman, A. A. (2017). Carcass characteristics of male Dorper sheep weaned at different ages. Proceeding of the Malaysian Society of Animal Production. Le Grandeur Resort, Johor. 27-30th August, 2017. 95-96.

15. **Norhayati, Z.,** Wan Zahari, M., Nooraisyah, S., Shanmugavelu, S. and Rahman, A. A. (2016). Skeletal development Dorper sheep weaned at different ages. Proceeding of the Malaysian Society of Animal Production. Hatten Hotel, Malacca. 31st May-3rd June, 2016. 140-141.

16. **Norhayati, Z.,** Wan Zahari, M., Nooraisyah, S., Shanmugavelu, S. and Rahman, A. A. (2015). Effect of different weaning duration on the growth rate, body composition, carcass quality and skeletal development of Dorper sheep. Kolokium Pascasiswazah UMK. Kelantan Trade Centre, Kota Bharu, Kelantan. 16 June 2015.

17. **Norhayati, Z.,** Mohd Sapwan, A.R. and Musaddin, K. (2012). Keberkesanan pemindahan teknologi MARDI di lading pengganda kambing boer komersil di Papar, Sabah. Persidangan Kebangsaan Pemindahan Teknologi 2012.

18. **Norhayati, Z.,** Shanmugavelu, S., Abdul Rashid, B., Sharom, S., Nik Siti Mariani, W.H., Musaddin, K., Johari Jiken, A. and Mohd. Mohid, H. (2010). Performance of pure bred Boer reared under semi-intensive system at Korporasi Pembangunan Desa (KPD) in Sabah. Proceeding of the Malaysian Society of Animal Production. Renaissance Hotel, Kota Bharu, Kelantan. 6th – 8th June, 2010. 149pp.

19. Johari Jiken, A., Zarifah, M., **Norhayati, Z.** and Ainu Husna, M.S.S. (2010). The water buffalo in Sabah and Sarawak. Proceeding of the Malaysian Society of Animal Production. Renaissance Hotel, Kota Bharu, Kelantan. 6th – 8th June, 2010. 160pp.

20. Nik Siti Mariani, W.H., Abdul Rashid, B., Sharom, S., Mohd. Mohid, H., and **Norhayati,**

Z. (2009). Clinical detection of Haemonchosis using the FANACHA Card. Proceeding of the Malaysian Society of Animal Production. Hyatt Regency Hotel, Kota Kinabalu, Sabah. 2nd – 5th June 2009. 266-267.

21. Mohd. Mohid, H., Salahudin, T., Aslinah, L.N.F, Yusmizawati, M.Y., **Norhayati, Z.**, Helda, S. and Effandy, M. (2008). Konvensyen Hari Peladang, Penternak dan Nelayan Peringkat Negeri Sabah. 4th Julai 2008.

Research Experiences

1. Sub-Projek RMKe-11(Pembangunan baka tenusu terpilih Jersey-Frisien dan baka kacukannya yang beradaptasi kepada persekitaran dan makanan tempatan)
 - **Ketua Projek** : Effect of feed quality to milk quantity and quality of jersey-friesien in Sabah (P-RL410-1001) (Tahun 2018 - kini)
2. Sub-Projek RMKe-11(Pembangunan baka tenusu terpilih Jersey-Frisien dan baka kacukannya yang beradaptasi kepada persekitaran dan makanan tempatan)
 - **Ketua Projek** : Quantity, quality and safety of milk supply to processing plants in Sabah (P-RL410-1001) (Tahun 2017)
3. Projek “Program Susu 1Malaysia”
 - **Kollaborator** :Projek MARDI Bersama Sabah International Dairy (SID) (Tahun 2017)
4. Projek RMKe-11
 - **Kollaborator** : Kajian sistem pengeluaran tepat baka tenusu tempatan yang teradaptasi dengan makanan dan persekitaran (Tahun 2017 – kini)
5. Projek RMKe-11
 - **Kollaborator** : Pembangunan baka tenusu terpilih Jersey-Fresien dan baka kacukannya yang beradaptasi kepada persekitaran dan makanan tempatan (Tahun 2017 – kini)
6. Projek Sarjana Sains (Universiti Malaysia Kelantan)
 - **Ketua Projek** : Effect of Different Weaning ages on growth performance, carcass components and long bone characteristics in Dorper lambs (Tahun 2014-2016)
7. Projek Wang Rezab MARDI (WRM)
 - **Ketua Projek** : Genetic Characterization of Swamp and Murrah Buffalo in Sabah / Sarawak (JJL2381301NSR99) (Tahun 2009-2013)
8. Projek NKEA
 - **Kollaborator** : Pembangunan penanda molekul untuk pengeluaran susu lembu Sahiwal dan kacukan Sahiwal (Tahun 2014)

9. Projek Wang Rezab MARDI (WRM)
 - **Kollaborator** : Studies on Reproductive and Growth Performance of Swamp buffalo at Maragang Merapok Station Lawas, Sarawak (JL2361401NSR999) (Tahun 2010-2013)
10. Projek RMKe-10
 - **Kollaborator** : Pembangunan Usahawan IKS Pertanian dan Makanan Negeri Sabah (Tahun 2011-2012)
11. Projek Wang Rezab MARDI (WRM)
 - Penyampaian Teknologi Agro-Makanan Melalui Promosi dan Hubungan Industri Berkesan Negeri Sabah (Tahun 2011-2012)
12. Projek Wang Rezab MARDI (WRM)
 - Peningkatan Pemindahan Teknologi Melalui Projek Perintis MARDI Negeri Sabah (2011-2012)
13. Projek Peningkatan Skala (P-TP104-1303-P20999)
 - Projek Peningkatan Skala Teknologi Pengeluaran Kumpulan Pengganda (Multiplier Herd) Baka Kambing Boer Secara Komersial (2007-2009)

Awards / Recognition

No.	Name of Award	Title	Award Authority	Year
1.	Silver Medal	Innovative feed formulation for Sabah dairy cattle farmers	MARDI Science and Technology Exhibition (MSTE) 2019, Selangor	2019
2.	Second Best Poster Presenter	Pertumbuhan anak kambing biri-biri dorper sebelum disapih pada usia berbeza.	Seminar teknikal Pusat TE. Metropoint Hotel, Melaka. 3-5 September 2019	2019
3.	Excellent Service Award	-	MARDI, Selangor	2018
4.	Bronze Medal	Evaluation on meat quality of Dorper sheep weaned at different ages)	MARDI Science and Technology Exhibition (MSTE) 2018, Melacca	2018
5.	Bronze Medal	Economical value of Dorper sheep weaned at different ages	MARDI Science and Technology Exhibition (MSTE) 2017, Selangor	2017

6.	Third Place	Kumpulan @kinabalu	AUM MARDI	2019
7.	First Place	Kumpulan Sutera Bayu	KIK MARDI	2013
8.	Second Place	Kumpulan Borneo Perkasa	KIK MARDI	2013

PENGLIBATAN DALAM PERSATUAN / PENCAPAIAN KIK

1. Pengerusi Kelab Sukan, Kebajikan dan Rekreasi MARDI Kota Kinabalu Sesi 2018/2020
2. Wakil MASSA zon Sabah Sesi 2018/2020
3. Fasilitator kumpulan KIK MARDI Sabah 2013
 - Kumpulan Sutera Bayu-Johan KIK Peringkat MARDI 2013
 - Kumpulan Borneo Perkasa-Naib Johan Peringkat MARDI 2013