CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI *(Personal Details)*			
Nama Penuh *(Full Name)*	Siti Nor Akmar binti Abdullah		Gelaran *(Title):* Professor
No. MyKad / No. Pasport	Warganegara Malaysian	Bangsa Malay	Jantina female
Jawatan	Lecturer	Tarikh Lahir *(Date of Birth)*	

Alamat Semasa *(Current Address)*	Jabatan/Fakulti *(Department/Faculty)*	E-mel dan URL *(E-mail Address and URL)*
No. 26, Jalan 3/5B, 43650 Bandar Baru Bangi, Selangor Tel:	Department of Agriculture Technology, Faculty of Agriculture, Universiti Putra Malaysia Tel: Fax:	E-mail: snaa@upm.edu.my URL:

B. KELAYAKAN AKADEMIK *(Academic Qualification)*			
Nama Sijil / Kelayakan *(Certificate / Qualification obtained)*	Nama Sekolah Institusi *(Name of School / Institution)*	Tahun *(Year obtained)*	Bidang pengkhususuan *(Area of Specialization)*
Bachelor of Science (BSc. Hons)	La Trobe University, Australia	1986	Biochemistry
Master of Science (MSc.)	National University of Malaysia	1995	Genetics
Doctor of Philosophy (Ph.D)	University of East Anglia / John Innes Centre, United Kingdom	1999	Plant Molecular Biology

C. KEMAHIRAN BAHASA *(Language Proficiency)*					
Bahasa / *Language*	Lemah *Poor (1)*	Sederhana *Moderate (2)*	Baik *Good (3)*	Amat Baik *Very good (4)*	Cemerlang *Excellent (5)*
English					✓
Bahasa Melayu					✓
Chinese					
Lain-lain *(other):*					

D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN ***(Scientific experience and Specialisation)***				
Organization	*Position*	*Start Date*	*End Date*	*Expertise*

E. PEKERJAAN ***(Employment)***				
Majikan / *Employer*	Jawatan / *Designation*	Jabatan / *Department*	Tarikh lantikan / *Start Date*	Tarikh tamat / *Date Ended*
Malaysian Palm Oil Board (MPOB)	Research Group Leader (Gene Expression Group) Senior Research Ofiicer Research Officer	Advanced Biotechnology and Breeding Centre (ABBC) ABBC ABBC		2003 2003 1998
Universiti Putra Malaysia (UPM)	Lecturer	Department of Agriculture Technology, Faculty of Agriculture, UPM	1 Nov., 2003	

F. ANUGERAH DAN HADIAH *(Honours and Awards)*				
Name of awards	*Title*	*Award Authority*	*Award Type*	*Year*
Academic Awards	Graduate Student Fellowship	IEEE Lasers and Electro-optics Society	National	2000
Non-Academic Awards				
Awards of Merit				

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) *(List of publications – author (s), title, journal, volume, page and year published)*	
Journal	1. Moradpour, M. and **Abdulah, S.N.A.** 2020. CRISPR/dCas9 platforms in plants: strategies and applications beyond genome editing. *Plant Biotechnology Journal*. *18,* 32–44. Q1 2. Muhammad, II., Kong, S.L., **Abdullah, S.NA.** and Munusamy, U. 2020. RNA-seq and ChIP-seq as complementary approaches for comprehension of plant transcriptional regulatory mechanism. *Int J Mol*

	Sci. 25, 21(1). Q1 3. Azzeme, A.M., **Abdullah, S.N.A.,** Aziz, M.A. and Wahab, P.E.M. 2020. Overexpression of oil palm *EgDREB1* in lowland tomato decreased fruit size and produced parthenocarpic fruits. *Biologia Plantarum 64,* 58-67. 1. Q2 4. Isha, A., Yusof, N.A., Shaari, K., Osman, R., **Abdullah, S.N.A. and** Wong, M.Y. 2020. Metabolites identification of oil palm roots infected with Ganoderma boninense using GC-MS-based metabolomics *Arabian Journal of Chemistry 13* (7), 6191-6200. Q2 5. Rebitanim, N.M., Hanafi, M.M., Idris, A.S., **Abdullah, S.N.A.,** Mohidin, H and Rebitanim, N.Z. 2020. GanoCare® Improves Oil Palm Growth and Resistance against Ganoderma Basal Stem Rot Disease in Nursery and Field Trials. *BioMed Research International 2020* ID 3063710020. Q2 6. Azizul, I., Fowotade, S.A., Yusof, N.A., Osman, R., Wong, M-Y., and **Abdullah, S.N.A.** 2019. An NMR metabolomics approach and detection of *Ganoderma boninense*-infected oil palm leaves using MWCNT-based Electrochemical Sensor. *Journal of Nanomaterials*. https://doi.org/10.1155/2019/4729706. Q2 7. Bahari, M.N.A., Sakeh, N.M., **Abdullah, S.N.A.,** Ramli, R.R. and Kadkhodaei, S. 2018. Transciptome profiling at early infection of *Elaeis guineensis* by *Ganoderma boninense* provides novel insights on fungal transition from biotrophic to necrotrophic phase. *BMC Plant Biology*, 377. Q1 8. Ahmadi, F., **Abdullah, S.N.A.,** Kadkhodaei, S., Ijab, S.M., Hamzah, L., Aziz, M.A., Rahman, Z.A. and Alwee, S.S.R.S. 2018. Functional characterization of the gene promoter for an *Elaeis guineensis* phosphate starvation-inducible, high affinity phosphate transporter in both homologous and heterologous model systems. *Plant Physiology and Biochemistry 127*, 320-335. Q1 9. Hanifiah, F.H.A., **Abdullah, S.N.A.,** Othman, A., Shaharuddin, N.A. and Saud, H.M. 2018. GCTTCA as a novel motif for regulating mesocarp-specific expression of the oil palm (*Elaeis guineensis* Jacq.) stearoyl-ACP desaturase gene. *Plant Cell Reports 37 (8),* 1127-1143. Q1 10. Wahab, N.A., Ramli, Z., **Abdullah, S.N.A**., Suhaimi, N., Massawe, F. 2018. Isolation and characterisation of an ethylene receptor (ERS-type) from oil palm (*Elaeis guineensis* Jacq.) mesocarp. *Journal of Oil Palm Research 30 (2),* 251-264. Q4 11. Ramli, Z., Wahab, N.A., Chan, P.L., Masura, S.S., **Abdullah, S.N.A**. and Parveez, G.K.A. 2018. Tissue-specific promoters: the importance and potential application for genetic engineering in oil palm. *Journal of Oil Palm Research 30 (1*), 1-12. Q4

12. Azzeme, A.M., **Abdullah, S.N.A.,** Aziz, M.A. and Wahab, P.E.M. 2017. Oil palm drought inducible DREB1 induced expression of DRE/CRT-and non-DRE/CRT-containing genes in lowland transgenic tomato under cold and PEG treatment. *Plant Physiology and Biochemistry. 112*, 129-151. Q1

13. Babura, S.R., **Abdullah, S.N.A.** and Khazai, H. 2017. Advances in genetic improvement for tocotrienol production: A review. *Journal of Nutritional Science and Vitaminology 63 (4)*, 215-221. Q4

14. Moradpour, M. and **Abdullah, S.N.A.** 2017. Evaluation of pEASY-Uni Seamless Cloning and Assembly Kit to clone multiple fragments of *Elaeis guineensis* DNA. *Meta Gene 14*, 134-141. Scopus

15. Azizi, P., Rafii, M.Y., Mahmood, M., **Abdullah, S.N.A**., Hanafi, M.M. and Latif M.A. (2017). Evaluation of RNA extraction methods in rice and their application in expression analysis of resistance genes against *Magnaporthe oryzae*. *Biotechnology & Biotechnological Equipment 31 (1*), 75-84. Q3

16. Ramli, Z., Wahab, N., **Abdullah, S.N.A**. and Parveez G.K.A. 2017. The use of *Arabidopsis thaliana* model system for testing oil palm promoter: case study on oil palm *MT3-A* Promoter. *Journal of Oil Palm Research 29 (2),* 189-196. Q4

17. Sahebi, M., Hanafi, M.M., van Wijnen, A.J., **Abdullah, S.N.A**., Azizi, P. Idris, A.S....2017. Profiling secondary metabolites of plant defence mechanisms and oil palm in response to *Ganoderma boninense* attack. *International Biodeterioration & Biodegradation 122*, 151-164. Q1

18. Nusaibah, S.A., **Abdullah, S.N.A.,** Idris, A.S., Sariah, M. and Pauzi, Z.M. 2016. Involvement of metabolites in early defense mechanism of oil palm (*Elaeis guineensis* Jacq.) against *Ganoderma* disease. *Plant Physiology and Biochemistry, 109,* 156-165. Q1

19. Ebrahimi, M., **Abdullah, S.N.A.,** Aziz, M.A. and Namasivayam, P. 2016. Oil palm *EgCBF3* conferred stress tolerance in transgenic tomato plants through modulation of the of the ethylene signaling pathway. *Journal of Plant Physiology 202***,** 107-120. Q1

20. Azzeme, A.M., **Abdullah, S.N.A.,** Aziz, M.A. and Wahab P.E.M. 2016. Oil palm leaves and roots differ in physiological response, antioxidant enzyme activities and expression of stress-responsive genes upon exposure to drought stress. *Acta Physiologiae Plantarum 38 (2),* 1-12. Q2

21. Moradpour, M., Aziz, M.A. and **Abdullah, S.N.A**. 2016. Establishment of In Vitro Culture of Rubber (*Hevea brasiliensis*) from Field-derived Explants: Effective Role of Silver Nanoparticles in Reducing

Contamination and Browning. *J Nanomed Nanotechnol 7 (375),* 2. Scopus

22. Azizi, P., Rafii, M.Y., **Abdullah, S.N.A**., Nejat, N., Maziah, M., Hanafi, M.M. and Latif, M.A. 2016. Toward understanding of rice innate immunity against *Magnaporthe oryzae*. *Critical reviews in biotechnology 36 (1)*, 165-174. Q1

23. Amin, A.M., Rahman, Z.A., Hanafi, M.M., **Abdullah, S.N.A**. 2016. Variation in nitrogen uptake efficiency in upland rice landraces as influenced by P fertilization. *Australian Journal of Crop Science 11 (12)*, 1608. Q2

24. Kong, S.L., **Abdullah, S.N.A.,** Ho, C.L. and Amiruddin, M.D. 2016. Molecular cloning, gene expression profiling and *in silico* sequence analysis of vitamin E biosynthetic genes from the oil palm. *Plant Gene, 5,* 100-108. Scopus

25. Engku, A.K., Norida, M., Juraimi, A.S., Rafii, M.Y., **Abdullah, S.N.A**., Alam, M.A. 2016. Gene flow from Clearfield® rice to weedy rice under field conditions. *Plant, Soil and Environment* 62 (1), 16-22. Q2

26. Azizi, P., Rafii, M.Y., **Abdullah, S.N.A**., Hanafi, M.M., Maziah, M. Sahebi, M. 2016. Over-expression of the Pikh gene with a CaMV 35S promoter leads to improved blast disease (*Magnaporthe oryzae*) tolerance in rice. *Frontiers in Plant Science* 7, 773. Q1

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29. Azizi P., Rafi MY., Mahmood M., **Abdullah, S.N.A**., Hanafi MM., Nejat N. (2015). Differential Gene Expression Reflects Morphological Characteristics and Physiological Processes in Rice Immunity against Blast Pathogen Magnaporthe oryzae. 7PLOS ONE. DOI: 10.1371/journal.pone.0126188. Q1

30. Azizi P., Rafii MY., Maziah M., **Abdullah, S.N.A**., Hanafi MM., Latif MA. (2015). Understanding the shoot apical meristem regulation: A study of the phytohormones, auxin and cytokinin, in rice. Mechanisms of development 135, 1-15. Q1

31. Haddadi F., Abd Aziz M., **Abdullah, S.N.A**., Tan SG., Kamaladini H. (2015). An Efficient Agrobacterium-Mediated Transformation of Strawberry cv. Camarosa by a Dual Plasmid System. Molecules 20 (3),

3647-3666. Q3

32. Sahebi M., Hanafi MM., **Abdullah, S.N.A**., Rafii MY., Azizi P., Idris AS. (2015). Serine-rich protein is a novel positive regulator for silicon accumulation in mangrove. Gene 556 (2), 170-181. Q2

33. Faiz Ahmad, Mohamed Musa Hanafi, Md Abdul Hakim, Mohd Y. Rafii, Ibrahim Wasiu Arolu and **Abdullah, S.N.A**. (2015). Genetic Divergence and Heritability of 42 Coloured Upland Rice Genotypes (*Oryzasativa*) as Revealed by Microsatellites Marker and Agro-Morphological Traits PLoS One. 2015; 10(9): e0138246. Q1

34. Alizadeh F., **Abdullah, S.N.A.,** Chong P.P., Selamat A.B. (2014). Expression Analysis of Fatty Acid Biosynthetic Pathway Genes during Interactions of Oil Palm (Elaeis guineensis Jacq.) with the Pathogenic *Ganoderma boninense* and Symbiotic *Trichoderma harzianum* Fungal Organisms. Plant Molecular Biology Reporter. 32(1): 70-81. Q2

35. Al-Shanfari, AB. and **Abdullah, S.N.A.** (2014). Isolation and Expression Analysis of Transcripts encoding Metallothioneins in Oil Palm. Biologia Plantarum 58 (1): 18-28. Q2

36. Azizi, P., Rafii, MY., **Abdullah, S.N.A**. Nejat, N., Maziah, M., Hanafi, MM., Latif, MA...(2014). Toward understanding of rice innate immunity against Magnaporthe oryzae. Critical reviews in biotechnology, 1-103. Q1

37. Kamaladini, H., **Abdullah**, **S.N.A.** Maheran AA, Ismanizan, I and Fatemeh, H (2013). Breaking-off Tissue-specific Activity of the Oil Palm Metallothionein-like Gene Promoter in T1 Seedlings of Tomato Exposed to Metal Ions. J. Plant. Physiol. 170(2013): 346-354. Q1

38. Omidvar, V., **Abdullah, S.N.A.,** Ho, CL and Maziah, M. (2013). Isolation and Characterization of an Ethylene-responsive Element Binding Protein (EgEREBP) from Oil Palm (Elaeis guineensis). Australian Journal of Crop Sci. 7(2): 219-226. Q3.

39. Valdiani, A., Javanmard, A., Talei, D., Tan, S, Nikzad, S., Mihdzar, AK and **Abdullah, S.N.A.** (2013). Microsatellite-based Evidences of Genetic Bottlenecks in the Cptic Species "Andrographis paniculata Nees": a Potential Anticancer Agent. Mol Biol Rep (2013) 40: 1775–1784. Q2

40. Omidvar, V., **Abdullah, S.N.A.,** Ebrahimi, M., Ho, CL and Maziah, M. (2013). Gene Expression and Functional Characterization of the EgAP2-1 Transcription Factor during Oil Palm Fruit Ripening and in Response to Ethylene and ABA Treatments. Biologia Plantarum. 57(4): 646-654. Q2

41. Alizadeh, F., **Abdullah, S.N.A.,** Khodav, A and Chong, PP (2013).

Improvement in in vitro growth rates of Ganoderma species with industrial wood waste supplements. African Journal of Microbiology Research 7 (29), 3772-3788. Q4

42. Alizadeh, F., **Abdullah, S.N.A.,** Khodav, A and Chong, PP (2013). Influence of oil palm-fungi interactions on soil microfungal community and growth profile of plant. Journal of Pure and Applied Microbiology 7 (4): 2577-2590.Q4

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44. Omidvar, V., **Abdullah, S.N.A.,** Ho, CL and Maziah, M. (2012). Isolation and Characterization of Two ABRE-binding Proteins: EABF and EABF1 from the Oil Palm. Mol. Biol. Rep. 39:8907-8918. Q2

45. Ahmed, A-S., **Abdullah, S.N.A.,** Halimi M. S., Omidvar, V., Napis, S. (2012). Differential Gene Expression Identified by Suppression Subtractive Hybridization during Late Ripening of Fruit in Oil Palm. Plant Mol. Biol. Rep. 30:768-779. Q2

46. Ashkani AS., Rafii, MY., Rusli, I., Sariah, M., **Abdullah, S.N.A.,** Abdul Rahim, H. and Latif MA. (2012). SSRs for Marker-Assisted Selection for Blast Resistance in Rice (Oryza sativa L.). Plant Mol. Biol. Rep. 30: 79-86. Q2

47. Sathyapriya, H., Wong, M.Y., Sariah, M. and **Abdullah, S.N.A.** (2012) Root Colonisation of Pseudomonas aeruginosa Strain UPMP3 and Induction of Defence-Related Genes in Oil Palm (Elaeis guineensis). Ann. Appl. Biol. 160: 137-144. Q2

48. Nejat, N., Vadamalai, G., Davis, R.E., Harrison, N.A., Sijam, K., Dickinson, M., **Abdullah, S.N.A.** and Zhao, Y. (2012). Candidatus Phytoplasma Malaysianum', a Novel Taxon Associated with Virescence and Phyllody of Madagascar Periwinkle (Catharanthus roseus). Int. J. Syst. Evol. Microbiol. DOI: 10.1099/ijs.0.041467-0. Q2

49. Sohrabi, M., Rafii, MY., Hanafi, MM., **Abdullah, S.N.A.** and Latif, MA. (2012). Genetic Diversity of Upland Rice Germplasm in Malaysia Based on Quantitative Traits. TheScientificWorldJOURNAL. DOI:10.1100/2012/416291. Q1

50. Nyo Nyo, M., **Abdullah, S.N.A.,** Maznah, I. and Maziah, M (2012). Determination of Amylopectin Structure and Physicochemical Properties in Rice Endosperm Starch of Mutant Lines Derived from Malaysian Rice Cultivar MR219. J. Sci. Food Agric. DOI 10.1002/jsfa.5737. Q2

51. Law, C. C., Zaharah, AR., Husni, MHA and **Abdullah, S.N.A.** (2012).

Evaluation of Nitrogen Uptake Efficiency of Different Oil Palm Genotypes Using ^{15}N Isotope Labelling Method Pertanika J. Trop. Agric. Sci. 35 (4): 743 – 754. Q4

52. Fahimeh, A., **Abdullah, S.N.A.,** Alireza, K. Faridah, A., Umi Kalsom, Y. and Pei Pei, C. (2011). Differential Expression of Oil Palm Pathology Genes during Interactions with *Ganoderma boninense* and *Trichoderma harzianum*. J. Plant Physiol. 168(10):1106-1113. Q1

53. Kamaladini, H., **Abdullah, S.N.A.** and Maheran AA. (2011). Metal Inducible Activity of the Oil Palm Metallothionein-like Gene Promoter (MT3-A) in Prokaryotes. J. Biosci. Bioeng. 111(2): 217-225. Q1

54. Nusaibah, SA., **Abdullah, S.N.A.,** Mohamad Pauzi, Z, Idris, AS and Sariah, M. (2011). Detection of Phytosterols in *Ganoderma boninense*-Infected Oil Palm Seedlings through GC-MS Analysis. J. Oil Palm Res. Vol.23 August 2011: 1069-1077. Q4

55. Ashkani AS., Rafii, MY., Sariah, M., **Abdullah, S.N.A.** Rusli, I., Abdul Rahim, H. and Latif MA. (2011). Analysis of Simple Sequence Repeat Markers Linked with Blast Disease Resistance Genes in a Segregating Population of Rice (*Oryza sativa*). Genet and Mol. Res. 10 (3): 1345-1355. Q4

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Damage in Huanglongbing (HLB) Infected Citrus. Afr. J. Biotechnol. 9(36): 5897-5901. Q4

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64. Tan, NP., Zaharah, AR., **Abdullah, S.N.A.** and Jamaluddin, N (2010). Evaluating the Variability of Gafsa Phosphate Rock Uptake by Oil Palm Genotypes at Nursery Stage. Pertanika. J. Trop. Agric. Sci. 33 (2): 223 – 231. Q4

65. Thohirah, LA., Hajivand, S., Sijam, K. and **Abdullah, S.N.A.** (2009). A Review on Control of Huanglongbing (HLB) Disease with Reference to its Occurrence in Malaysia. Afr. J. Biotechnol. 8(17): 4007-4015. Q4

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67. Hajivand, S., Thohirah, LA., Sijam, K., **Abdullah, S.N.A.** and Nur Ashikin Psyquay, A. (2009). Differential Reaction of Citrus Species in Malaysia to Huanglongbing (HLB) Disease using Grafting Method. American Journal of Agricultural and Biological Sciences. 4(1):32-38. Q2

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69. Mat Yunus, AM., Ghulam Kadir, AP., Abang Masli, DI. , Chan, PL. and **Abdullah, S.N.A.** (2009). Construction of PHB and PHBV Multiple-Gene Vectors Driven by an Oil Palm Leaf-Specific Promoter. Plasmid. 62 (3): 191-200. Q3

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	(2009). Molecular Characterization of Phytoplasma Associated with Coconut Yellow Decline (CYD) in Malaysia. Am. J. Applied Sci. 6 (7): 1331-1340. Q1 72. Nejat, N., and Sijam, K., **Abdullah, S.N.A.,** Vadamalai, G. and Dickinson, M. (2009). First report of a 16SrXIV, 'Candidatus Phytoplasma cynodontis' Group Phytoplasma Associated with Coconut Yellow Decline in Malaysia. Plant Pathol. 58(2):389. Q1 73. Syaiful Bahri, P., **Abdullah, S.N.A.,** Maheran, AA., Sariah, M. and Othman, O. (2009). Somatic Embryogenesis from Scutellar Embryo of Oryza sativa L. var. MR219. Pertanika J. Trop. Agric. Sci. 32 (2): 185-194. Q4 74. Omidvar, V., **Abdullah, S.N.A.,** A., Marziah, M. and Maheran, AA. (2008). A Transient Assay to Evaluate the Expression of Polyhydroxybutyrate Genes Regulated by Oil Palm Mesocarp-specific Promoter. Plant Cell Rep. 27:1451-1459. Q1. 75. **Abdullah, S.N.A.** and Zubaidah, R. (2008) Mesocarp-specific Metallothionein-like Gene Promoter for Genetic Engineering of Oil Palm. J. Oil Palm Res. [Malaysia-MIT Biotechnology Partnership Programme (MMBPP Special Issue): 1 – 8. Q4 76. Chan, PL., **Abdullah, S.N.A.** and Roohaida, O. (2008).Light-Harvesting Chlorophyll A/B Binding Protein (LHCB) Promoter for Targeting Specific Expression in Oil Palm Leaves. J. Oil Palm Res. (MMBPP Special Issue): 21 – 29. Q4 77. Nurniwalis, AW, Suhaimi, N, **Abdullah, S.N.A.,** Aminah S and Mohamad Arif, MA. (2008). Gene Discovery via Expressed Sequence Tags from the Oil Palm (Elaeis guineensis Jacq.) Mesocarp. J. Oil Palm Res. (MMBPP Special Issue): 87-96. Q4
Books/Monographs	**Book (as editor)** 1. Crop Improvement: Sustainability Through Leading-Edge Technology. 2017. **Abdullah, SNA**., Chai-Ling, H., Wagstaff, C (eds). Springer International Publishing Switzerland. 2. Plant, Soil and Microbes Volume 1: Implications in Crop Science (2016). Hakeem, KR, Akhtar, MS., **Abdullah, SNA** (eds.). Springer International Publishing Switzerland.
Chapter in book	**Book Chapters** 1. Azzeme AM., **Abdullah, SNA**. 2019. Adaptive Mechanisms of Plants Against Salt Stress and Salt Shock. In Salt Stress, Microbes, and Plant Interactions: Mechanisms and Molecular Approaches. Akhtar MS (ed).

	(pp 27-47) Springer, Singapore 2. Azizi, P., Hanafi, MM., **Abdullah, SNA**., Sahebi, M., Taheri, S. 2019. An Enigma in the Genetic Responses of Plants to Salt Stresses. In Salt Stress, Microbes, and Plant interaction. Akhtar MS (ed) (pp 105-132). Springer, Singapore 3. Munusamy, U. and **Abdullah, SNA**. 2019. Vitamin E. In: Ozturk M., Hakeem K. (eds) *Plant and Human Health,* Volume 2. (pp 345-360) Springer, Cham. 4. Moradpour, M., **Abdullah, SNA.** 2017. Cisgenesis and Intragenesis as New Strategies for Crop Improvement. In Crop Improvement: Sustainability through Leading-edge Technology Abdullah, SNA., Ho, CL., Wagstaff, C. (eds). Pp. 191-216 5. **Abdullah, SNA.,** Azzeme, AM., Ebrahimi, M., Ariff, EAKE., Hanifiah, FHA. 2017. Transcription Factors Associated with Abiotic Stress and Fruit Development in Oil Palm. In Crop Improvement: Sustainability through Leading-edge Technology Abdullah, SNA., Ho, CL., Wagstaff, C. (eds). Pp. 71-99 6. Munusamy, U., **Abdullah, SNA**. 2017. Tools and Targeted Genes for Plant Disease Detection. In Crop Improvement: Sustainability through Leading-edge Technology **Abdullah, SNA**., Ho, CL. and Wagstaff, C. (eds). 359-379 7. **Abdullah, SNA.**, Akhtar, MS. Plant and necrotrophic fungal pathogen interaction: mechanism and mode of action. In: Hakeem KR, Akhtar MS, **Abdullah SNA**. (eds). Plant, soil and microbes. Cham: Springer; 2016. p. 29-53. 8. **Abdullah, SNA.**, Zubaidah, R., Manaf, MA. and Nurniwalis, W. (2003). Targeting Gene Expression in Mesocarp and Kernel of the Oil Palm Fruits. Pp. 411 – 414. In Advanced Researches of Plant Lipid. N. Murata, M. Yamada, I Nishida (eds) Kluwer Academic Publishers. 9. Mohd Basri, W., **Abdullah, SNA.,** Maizura, I. and Norman, K. (2003). Oil Palm. Pp. 335 – 382. In Handbook of Industrial Crops. VL Chopra (ed). The Haworth Press, Inc., New York.
Proceedings	
Other publications	
Computer software	

H. PROJEK PENYELIDIKAN TERDAHULU *(Past Research Project)*					
Project No.	*Project Title*	*Role*	*Year*	*Source of fund*	*Status*
	Enhancing Phosphorus Efficiency by Oil Palm through Selected Transporter from Potential Genotypes	Co-researcher	2006	Yayasan FELDA	Completed
	Isolation and Molecular Characterization of Key Tocotrienol Biosynthetic Genes and their Promoter Sequences from Oil Palm	Project Leader	2007	FRGS, MOHE	Completed
	Tissue-specific Regulatory Sequences and Transcription Factors from Oil Palm for Plant Genetic Engineering	Programme Leader	2007	ABI-MOSTI	Completed
	Molecular Tools for Basal Stem Rot Resistance in Oil Palm	Programme Leader	2008	MPOB	Completed
01-09-09-685FR Vote No: 5523713	Characterization of a Gene Encoding the Key Enzyme L-Ascorbic acid (Asa)	Project Leader	2009	FRGS, MOHE	Completed

	Biosynthesis in Metroxylon Sago				
05-03-11-1449RU Vote No: 9301800	Functional Analysis of Oil Palm Vitamin E Genes	Project Leader	2011	RUGS	Completed
	Functional Characterisation Transcription Factors with Potential as Key Regulators of Palm Oil Production	Project Leader	2013	ACGT, Genting Plantation Berhad	Completed
	Development of High Yielding and Dwarf Oil Palm Planting Materials	Co-researcher	2013	United Malacca Plantation Berhad	Completed
	Targeted Transcript Profiling Using Massive Parallel Sequencing of Genes Involved in Signaling Molecules During Interaction of Oil Palm with Ganoderma boninense and Trichoderma Harzianum	Project Leader	2013	FRGS, MOHE	Completed
GP-IBT/2013/9411500 Vote No: 9411500	Isolation and Characterization of Transcription Factors	Project Leader	2013	Putra	Completed

	Involved in Coordinating Expression of Defense Response Genes during Interaction of Oil Palm with Ganoderma boninense				
	Detection of Phytohormones, Anti-microbial Compounds and Fungal Elicitors in G. boninense Infected Oil Palm	Co-researcher	2015	LRGS, MOHE	Completed
Vote No: 5450795	Functionally Important Sequence Variants in Key Vitamin E Genes of *Elaeis guineensis* Germplasm Materials	Project Leader	2015	Science Fund, MOSTI	Completed
Vote 5535700 No:	Unveiling the Molecular Regulation Of Water Stress And Phosphate Deficiency Responses For Improvement Of Oil Palm Planting Materials And The Associated Socio-Economic Analysis	Programme Leader	2017	TRGS, MOHE	Completed
Vote No: 9551500	Establishment	Project	2017	Putra	Completed

	of genome editing Platform for Oil Palm	Leader		Grant	