CURRICULUM VITAE

A. BUTIR-BUTIR PERIBADI *(Personal Details)*	
Nama Penuh *(Full Name)*	Rogayah Binti Sekeli
Gelaran *(Title):*	Dr.
Warganegara *(Citizenship)*	Malaysia
Bangsa *(Race)*	Melayu
Pusat *(Centre)*	Program Agri-omik dan Bioinformatik. Pusat Penyelidikan Bioteknologi dan Nanoteknologi, Ibu Pejabat MARDI, Persiaran MARDI-UPM, 43400 Serdang, Selangor.
E-mel dan URL *(E-mail Address and URL)*	lynn@mardi.gov.my

B. KELAYAKAN AKADEMIK *(Academic Qualification)*			
Nama Sijil / Kelayakan *(Certificate / Qualification obtained)*	**Nama Sekolah Institusi *(Name of School / Institution)***	**Tahun *(Year obtained)***	**Bidang pengkhususan *(Area of Specialization)***
Ijazah Sarjana Muda	Universiti Putra Malaysia	1997	Bioteknologi
Ijazah Sarjana	Universiti Putra Malaysia	2000	Bioteknologi Tumbuhan
Kedoktoran Falsafah (Ph.D)	Universiti Putra Malaysia	2014	Bioteknologi Tumbuhan

C. PEKERJAAN *(Employment)*				
Majikan / *Employer*	**Jawatan / *Designation***	**Jabatan / *Department***	**Tarikh lantikan / *Start Date***	**Tarikh tamat / *Date Ended***
Institut Penyelidikan dan Kemajuan Pertanian Malaysia (MARDI)	Pegawai Penyelidik Kanan	Pusat Penyelidikan Bioteknologi dan Nanoteknologi	1 Ogos 2000	Sehingga Kini

D. ANUGERAH DAN HADIAH *(Honours and Awards)*				
Nama Anugerah/Name of awards	***Tajuk/Title***	***Award Authority***	***Award Type***	***Year***
Academic Awards	Development of Delayed Ripening Eksotika Papaya using RNA Interference (RNAi) and Antisense RNA Technologies.	Universiti Putra Malaysia	Phd With Distinction	2014
Non-Academic Awards	1. Delayed Ripening Eksotika Papaya Via Silencing Technology (Main Researcher). 2. Anugerah perkhidmatan cemerlang 2015.	Malaysia Technology Expo Mardi	Bronze Medal	2016 2015

	3. Delayed Ripening Eksotika Papaya Via Silencing Technology (Main Researcher).	Malaysian Agricultural Innovation Challenge	Gold Medal	2015
	4. Delayed Ripening Eksotika Papaya Via Silencing Technology (Main Researcher).	Mardi Science and Technology Exhibition.	Gold Medal	2015
	5. Delayed Ripening Eksotika Papaya Via Silencing Technology (Main Researcher).	Mardi Science and Technology Exhibition	Best award for Knowledge Category.	2015
	6. Clean-gene Technology: Moving toward Safer Genetically-Modified Crops (Collaborator).	Mardi Science and Technology Exhibition	Silver Medal	2015
	7. Addressing Public Concern: Development of selectable marker free in transgenic papaya (Main Researcher).	Malaysian Agricultural Innovation Challenge	Bronze Medal	2014
	8. Production of novel and higher levels of betalain pigments in pitaya callus culture. (Main Researcher).	Mardi Science and Technology Exhibition	Gold Medal	2014
	9. Addressing Public Concern: Development of selectable marker free in transgenic papaya (Main Researcher).	Mardi Science and Technology Exhibition	Bronze Medal	2014
	10. Anugerah perkhidmatan cemerlang 2016.	Mardi		2006

E. SENARAI PENERBITAN *(LIST OF PUBLICATIONS)*

Journal

1. Rogayah Sekeli, Nazrul Hisham Nazaruddin, Amin Asyraf Tamizi, Noriha Mat Amin, Chien- Yeong Wee, Johari Sarip, Nora'ini Abdullah, Nurain Izzati Saidi, Roslinda Abdul Razak and Zaifulfarizal Zulkifli (2019). Enhancing Eksotika Papaya Resistance to Dieback Disease through Quorum Quenching, J. Trop. Plant Physiol. 11(1) (2019):1-9

2. Low LY, Ong-Abdullah, J, Wee CY, Sekeli R, Tan CK, Low JY, Lai KS (2019) Effects of lignosulfonates on callus proliferation and shoot induction of recalcitrant Indica rice. Sains Malays 48(1), 7–13.

3. Rogayah Sekeli, Muhammad Hanam Hamid, Roslinda A. Razak, Chien-Yeong Wee and Janna Ong Abdullah (2018). Malaysian Carica papaya L. var. Eksotika: Current Research Strategies Fronting Challenges, Review Article, Front. Plant Sci. 9:1380. doi:10.3389/fpls.2018.01380

	4. Rogayah Sekeli, K. H. Nasir, Wee Chien Yeong and Vilasini Pillai (2016). Assessment of co-transformation technique for Malaysian orchid variety (*Dendrobium Savin white*) with cymbidium mosaic virus coat protein gene, J. Trop. Agric. and Fd. Sc Vol. 44 (2), pp 265-276. 5. S. Rogayah, O.A. Janna, N. Parameswari, M. Pauziah, A.B. Umi Kalsom and C.Y. Wee (2015). A quick protocol to facilitate the selection of putative delayed ripening transgenic papaya lines for field evaluation. J. Trop. Agric. and Fd. Sc. 43(2)(2015): 155 – 164. 6. Rogayah Sekeli, Janna Ong Abdullah, Parameswari Namasivayam , Pauziah Muda, Umi Kalsom Abu Bakar, Wee Chien Yeong and Vilasini Pillai (2014). RNA Interference of *1-Aminocyclopropane-1-carboxylic Acid Oxidas*e (*ACO*1 and *ACO*2) Genes Expression Prolongs the Shelf Life of Eksotika (Carica papaya L.) Papaya Fruit, Molecules 2014, 19, 8350-8362; doi:10.3390/molecules19068350. 7. Rogayah Sekeli, Janna Ong Abdullah, Parameswari Namasivayam, Pauziah Muda and Umi Kalsom Abu Bakar (2013). *1-Aminocyclopropane-1-Carboxylate Oxidase* 2 reduction effects on physical and physiological responses of Eksotika papaya. Journal of Crop Improvement, Vol 27: 487-506. DOI: 10.1080/15427528.2013.795205. 8. Rogayah Sekeli, Janna Ong Abdullah, Parameswari Namasivayam, Pauziah Muda and Umi Kalsom Abu Bakar (2013). Better rooting procedure to enhance survival rate of field grown Malaysian Eksotika papaya transformed with *1-aminocyclopropane-1-carboxylic acid oxidase* gene. ISRN Biotechnology, vol. 2013, Article ID 958945, doi:10.5402/2013/958945.
Chapter in book	1. Andrew De-Xian Kok, Low Lee Yoo, Rogayah Sekeli, Wee Chien Yeong, Zetty Norhana Balia Yusof and Lai Kok Song (2018). Chapter 3; Iron Biofortification of Rice: Progress and Prospects. In Rice Crop - Current Developments (eds) Farooq S., Zafar K. and Amjad I., IntechOpen. 25-44 DOI:10.5772/intechopen.73572.
Proceedings	1. Rogayah Sekeli, Ahmad Nazarudin Mohd. Roseli, Normaniza Osman, Roohaida Othman, Siti Aishah Hassan, Siti Hajar Ahmad, Lok Eng Hai, Nor Mayati Che Husin, Tsan Fui Ying, Zamri Ishak, Puteri Edaroyati Megat Wahab, Nazrul Hisham Nazaruddin and Amin Asyraf Tamizi (2018). Transactions of the Malaysian Society Plant Physiology Vol. 25 (2018), eISSN 2600-9595. 2. Rogayah, S., Zaiful Farizal, Z., Norzihan, A., Siti Norhayati, I.and Siti Ratnadia, J. (2018). *In vitro* Mass Propagation of Hermaphrodite Carica papaya cv. Eksotika. 28th Malaysian Society of Plant Physiology Conference, 28-30 August, 2018, Hotel Perdana, Kota Bharu, Kelantan, p40-41. 3. Nora'ini, A., Rogayah, S., Nazrul Hisham, N., Amin Asyraf, T., Rohaiza, A.R., Zaifulfarizal, Z. and Kok-Song, L. (2018). Enhancement of Sheath Blight Disease Tolerance in Transgenic MR219 rice cultivar (Oryza sativa L. cv. MR219) by Overexpressing Chitinase Gene. 28th Malaysian Society of Plant Physiology Conference, 28-30 August, 2018, Hotel Perdana, Kota Bharu, Kelantan, p29-30. 4. Roslinda, A.R., Rosimah, N. and Rogayah, S. (2018). Development of Salt-tolerant Lines of Watermelon (Citrulus lanatus L.). 28th Malaysian Society of Plant Physiology Conference, 28-30 August, 2018, Hotel Perdana, Kota

	Bharu, Kelantan, p31. 5. Rogayah S., Nazrul Hisham N., Nora'ini A., Amin Asyraf T. and Noriha M.A. (2016). Genetic Engineering of Eksotika Papaya for Resistance to Papaya Dieback Disease. Trans. Malaysian Soc. Plant Physiol. 23, pp 39-41. ISBN 978-967-10840-5-2. 6. Nor Fadzliana, A.F., Rogayah, S., Noor Azmi, S. and Janna Ong, A. (2016). Influence of Ascorbic Acid Addition on Betalain Production, Trans. Malaysian Soc. Plant Physiol. 23, pp 158 -161. ISBN 978-967-10840-5-2. 7. Rogayah, S., Rohaiza, A.R., Nazrul, H.N., Amin, A.T., Nora'ini, A., Sew, Y.S. and Nurain, I.S. (2016). Towards the Production of Genetically Modified Rice with Resistance to Sheath Blight Disease. 26th Malaysian Society of Plant Physiology Conference, 9 - 11 August 2016, The Waterfront Hotel, Kuching, Sarawak. 8. Rogayah Sekeli, Pauziah Muda, Umi Kalsom Abu Bakar, Wee Chien Yeong, Johari Sarip, Nazrul Hisham Nazaruddin and Amin Asyraf Tamizi (2015). Confined Field Assessment of Antisense Transgenic Papaya for Delayed Fruit Ripening. Asian Congress on Biotechnology, 15-19 November 2015, Hotel Istana, Kuala lumpur. 9. Rogayah Sekeli, Nazrul Hisham Nazaruddin, Nora'ini Abdullah, Amin Asyraf Tamizi and Noriha Mat Amin (2015). Genetic Engineering of Eksotika Papaya for Resistance to Papaya Dieback Disease. 25th Malaysian Society of Plant Physiology Conference, 18-20 August 2015, Sunway Lost World Hotel, Tambun, Ipoh Perak. 10. Roslinda Abdul Razak , Rogayah Sekeli, Noor Azmi Shaharuddin and Janna Ong Abdullah (2015). Using Mannose as a Positive Selection of Transformed Carica papaya L. var 'Eksotika'. Jurnal Teknologi (Sciences & Engineering) 77:31 (2015) 13-18. 11. Rogayah Sekeli, Roslinda Abdul Razak, Zaifulfarizal Zulkifli and Janna Ong Abdullah (2014). Effective selection of transformed Eksotika papaya using mannose. Biojohor, 25-27 August 2014, Persada Johor Convention Centre, Johor Bahru. 12. Rogayah Sekeli, Nor Fadzliana Abu Faizal, Yahya Hashim, Wee Chien Yeong, Janna Ong Abdullah, Noor Azmi Sahaluddin and Siti Fathiha Yahya. Effects of elicitiors on betalain production in red dragon fruit. Biojohor, 25-27 August 2014, Persada Johor Convention Centre, Johor Bahru. 13. Nor Fadzliana Abu Faizal, Rogayah Sekeli, Noor Azmi Shahaluddin and Janna Ong Abdullah (2014). Effects of Methyl-Jasmonate on Betalain Production in Red Pitaya. International Agriculture Congress, 25-27 November 2014, Pullman Putrajaya Lakeside, Putrajaya, Malaysia. 14. Rogayah Sekeli, Nor'aini Abdullah, Wee Chien Yeong, Nazrul Hisham Nazaruddin and Noriha Mat Amin (2014). Transformation of anti-pathogenic Gene into Malaysian Papaya Cv. Eksotika. International Agriculture Congress, 25-27 November 2014, Pullman Putrajaya Lakeside, Putrajaya, Malaysia. 15. Rogayah Sekeli, Janna Ong Abdullah, Parameswari Namasivayam, Pauziah Muda and Umi Kalsom Abu Bakar (2013). A quick protocol to facilitate the selection of potential transgenic papaya lines for field evaluation. Proceeding of the 24th Malaysian Society Of Plant Physiology Conference, 27-29 August

	2013, PrinzPark Resort, Terengganu. 16. Rogayah Sekeli, Siti Ratnadia Jamaludin, Wee Chien Yeong and Indu Bala Jaganath (2013). Enhancement of betalain production in dragon fruit using callus culture. Proceeding of the 24th Malaysian Society Of Plant Physiology Conference, 27-29 August 2013, PrinzPark Resort, Terengganu. 17. Rogayah Sekeli, Janna Ong Abdullah, Parameswari Namasivayam, Pauziah Muda and Umi Kalsom Abu Bakar (2013). Enhancement of Eksotika Papaya Shelf Life by Supression of *ACC Oxidase* Gene using RNA Interference Technique. Proceeding of the Postharvest Losses and Food Waste Conference, 26-28 November 2013, Swiss-Garden Golf Resort & Spa Damai Laut, Lumut, Perak. 18. Nazrul Hisham Nazaruddin, Rogayah Sekeli, Noriha Mat Amin, Wee Chien Yeong, Nor'aini Abdullah and Amin Asyraf Tamizi. Screening of transgenic Eksotika papaya for resistance to papaya dieback disease, The 3rd Plant Genomics Congress: Asia, 11-12 April 2016, Renaissance Kuala Lumpur Hotel, Malaysia. 19. Razean Haireen, M.R., Erny Sabrina, M.N., Rogayah, S., Nur Samahah, M.Z, Azman, R. (2016) Kerabat Liar Betik : Berpotensi Mengawal Penyakit Virus Bintik Cincin Betik (PRSV). Persidangan Kebangsaan Agrobiodiversiti (NAC) 2016. 4-6 Okt 2016. Kuala Terengganu. 20. Nazrul Hisham Nazaruddin, Rogayah Sekeli, Roslinda Ab Razak, Nor'aini Abdullah and Amin Asyraf Tamizi (2016) Excision of Selectable Marker Gene from Transgenic Eksotika Papaya by using Heat-inducible FLP/FRT Recombination System, Trans. Malaysian Soc. Plant Physiol. 23: 58-62. 21. Nazrul Hisham Nazaruddin, Rogayah Sekeli, Rohaiza Ahmad Redzuan, Amin Asyraf Tamizi, Sew Yun Shin and Lina Rozano (2016) In Silico Analysis of Rice Thaumatin-like Protein (OsiPR5) and Chitinase (Rcht2) Genes, 26th Malaysian Society of Plant Physiology Conference (MSPPC 2016), 9-11 August 2016, The Waterfront Hotel, Kuching, Sarawak. 22. Nazrul Hisham Nazaruddin, Rogayah Sekeli, Roslinda A. Razak , Nora'ini Abdullah and Amin Asyraf Tamizi, Excision of Kanamycin Resistance Gene from Transgenic Eksotika Papaya by using FLP/FRT Recombination System, 25th Malaysian Society of Plant Physiology Conference (MSPPC 2015), 18-20 August 2015, Sunway Lost World Hotel, Tambun, Ipoh, Perak. 23. Sew Yun Shin, Rogayah Sekeli, Nurfitri Liyana Shamshudin, Noriha Mat Amin, Rohaiza Ahmad Redzuan and Amin Asyraf Tamizi. Isolation, characterization and construct development of rice malate dehydrogenases towards generation of transgenic rice with enhanced yield and biomass. 12th Asian Congress on Biotechnology (ACB) 15-19 November 2015, Istana Hotel, Kuala Lumpur, Malaysia.
Other publications	1. Rogayah Sekeli, Nazrul Hihsam Nazaruddin, Amin Asyraf Tamizi, Roslinda Abdul Razak and Nora'ini Abdullah (2018). Pokok Transgenik Bebas Gen Penanda Antibiotik. Agromedia Khas Buah-buahan 2018, ISSN:1511-094X, p84-85. 2. Rogayah Sekeli, Wee Chien Yeong, Siti Fatiha Yahya, Nor Fadzliana Abu Faizal, Nor Hidayu Che Asari dan Chandradevan Machap (2017). Penghasilan dan peningkatan pigmen betalain melalui teknologi kultur kalus pitaya. Buletin Teknologi MARDI, Bil. 12(2017): 57-63.

	3. Rogayah Sekeli, Nazrul Hisham Nazaruddin, Nora'ini Abdullah, Amin Asyraf Tamizi, Noriha Mat Amin, Roslinda Abdul Razak, Nurain Izzati Saidi dan Wee Chien Yeong (2016). Peningkatan Sistem Pertahanan Terhadap Penyakit Mati Rosot Betik Melalui Kejuruteraan Genetik Tumbuhan, Buletin Teknologi MARDI, Bil. 11(2017): 47 – 56. 4. Dr. Rogayah Sekeli, Dr. Wee Chien Yeong, Dr. Umi Kalsom Abu Bakar, Dr. Pauziah Muda, Dr. Johari Sarip, Nazrul Hisham Nazaruddin dan Amin Asyraf Tarmizi (2015). Delayed ripening Eksotika papaya via silencing technology. Book of MARDI Innovation Day 2015: Driving People's Economy Through Innovation, MAEPS, 25-27 August 2015. 5. Rogayah Sekeli, Nazrul Hisham Nazaruddin dan Amin Asyraf Tamizi (2015). Teknologi penyenyapan pengekspresan gen. Buletin Teknologi MARDI, Bil. 8(2015): 81 – 89. 6. Nazrul Hisham Nazaruddin dan Rogayah Sekeli (2015) Pembaharuan dalam kejuruteraan genetik tumbuhan: menuju ke arah teknologi gen bersih, Buletin Teknologi MARDI, 7:1-11. 7. Rogayah Sekeli, Wee Chien Yeong, Noriha Mat Amin and Nazrul Hisham Nazaruddin (2014). Addressing public concern: development of selectable marker free in transgenic papaya. Book of MARDI Innovation Day 2014: Driving People's Economy Through Innovation, 9th MSTE, MAEPS, Nov 3-5, 2014. 8. Rogayah Sekeli, Wee Chien Yeong, Indubala Jaganath and Chandradevan Manchap (2014). Production of novel and higher levels of betalain pigments in pitaya callus culture. Book of MARDI Innovation Day 2014: Driving People's Economy Through Innovation, 9th MSTE, MAEPS, Nov 3-5, 2014.