

CURRICULUM VITAE



BUTIR-BUTIR PERIBADI (<i>Personal Details</i>)	
Nama Penuh (<i>Full Name</i>)	Raja Mohd Hafidz B. Raja Nhari
No. MyKad / (<i>Mykad No.</i>)	851008-08-6853
Warganegara (<i>Citizenship</i>)	Malaysia
Bangsa (<i>Race</i>)	Malay
Jantina (<i>Gender</i>)	Male
Jawatan (<i>Designation, grade</i>)	Research officer Q52
Tarikh Lahir (<i>Date of Birth</i>)	8 th October 1985
Jabatan/Fakulti (<i>Department/Faculty</i>)	Laboratory of Halal Science Research, Halal Products Research Institute, Putra Infoport, UPM, 43400 Serdang, Selangor, Malaysia.
No tel. pejabat dan fax (<i>Phone office and fax no.</i>)	Tel: 03-9769 1343; Fax: 03-8943 9745
E-mel (<i>E-mail Address</i>)	hafidz@upm.edu.my
Alamat rumah (<i>Home Address</i>)	Clio 2 Residence, Lebuhr IRC, IOI Resort City, 62502 Putrajaya, Selangor
No. tel bimbit (<i>Handphone</i>)	012-547 6449

KELAYAKAN AKADEMIK (<i>Academic Qualification</i>)			
Nama Sijil / Kelayakan (<i>Certificate / Qualification obtained</i>)	Nama Sekolah Institusi (<i>Name of School / Institution</i>)	Tahun (<i>Year obtained</i>)	Bidang pengkhususan (<i>Area of Specialization</i>)
MSc.	UPM	2017	Animal Cells Biotechnology
BSc. (Hons.)	UPM	2007	Microbiology

KEMAHIRAN BAHASA (<i>Language Proficiency</i>)					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English				√	
Bahasa Melayu					√

PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN (Scientific experiences and Specialization)				
<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Specialization</i>
Halal Products Research Institute	Research officer	2 nd February 2009	To date	Halal food authentication techniques. Familiar with immunoassay techniques (ELISA), lateral flow assay, one dimensional electrophoresis,) and development of monoclonal and polyclonal antibodies.

PEKERJAAN (Employment)				
<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Universiti Putra Malaysia	Research officer	Laboratory of Halal Science Research, Halal Products Research Institute	2 nd February 2009	To date

AHLI JAWATANKUASA (Committee Members)	
Name of Committee	Duration (date)
Sekretariat Program Putra @Saintis Halal Cilik	3-4 Disember 2019
Sekretariat Program Putra @Saintis Halal Cilik	19 Disember 2018
Social and Technical Committee Texture Analyzer Workshop	19-20 September 2018
Penyelaras Inovasi PTJ	24 Disember 2014- present
Pegawai Kawalan Trafik Pasukan Tindakan Kecemasan IPPH	1 November 2018 – 31 Oktober 2020
Pegawai Kawalan Trafik Pasukan Tindakan Kecemasan IPPH	2 Oktober 2017-1 Oktober 2018
Jawatankuasa Pengiring Lawatan Institut	27 th January 2016 – 2018
Jawatankuasa Pelaksana Bengkel GCMS 2016	25 th – 26 th May 2016
Jawatankuasa Saintifik MIHREC 2014	2 nd – 4 th December 2014
Jawatankuasa Pelaksana Simposium Sains dan Pengurusan Halal IMT-GT Ketiga 2009	21 st – 22 nd December 2009
Ahli Persatuan Pegawai Penyelidik UPM	Throughout the service period
Exco Persatuan Pegawai Penyelidik UPM	2022-2024

SENARAI PENYELIAAN PELAJAR LATIHAN INDUSTRI (List of industrial students)			
<i>Name</i>	<i>Degree</i>	<i>University</i>	<i>Duration (date)</i>
Nurmunirah Mohamad Rasli	Chemical Engineering Technology in Bioprocess	MICET UniKL	15 th July – 8 th November 2013
Ilma Kasim	BSc (Hons) Food Science and Nutrition	UKM	23 rd February – 5 th June 2015
Nurshaira Mohd Razi	BSc Science of Biological Sciences	UMT	28 th June – 18 th September 2015

Nurul Syafirah Mohd Shari	BSc Science of Biological Sciences	UMT	28 th June – 18 th September 2015
Muhammad Asyraf bin Mansor	Diploma Teknologi Makmal	UPSI	27 Mac- 4 Jun 2017
Roshatika Azhar	BSc Microbiology	UM	28 Jun – 22 Ogos 2017
Azyan Nafisah bt Muhammad Zailani	BSc (Hons.) Food Biotechnology	USIM	11 Feb – 14 Jun 2019
Nurul Hazeeqah Bt Hassan	BSc (Hons) Biomolecular Science	UiTM Shah Alam	29 Jul – Okt 2019
Wardah Ariffin	BSc (Hons) Biology	UPM	3 Feb – 17 Julai 2020

SENARAI PENYELIAAN PELAJAR TAHUN AKHIR (<i>List of final year students</i>)				
Name	Degree	University	Supervisor	Duration (date)
Muhammad Asraf Alif B. Mohamed Rashidi	BSC Microbiology	UPM	Dr. Irwan Hanish (FBSB), Raja Mohd Hafidz Raja Nhari	13 September 2016-18 Jun 2017
Fatin Nurlisa bt. Amir	BSC Microbiology	UPM	Dr. Irwan Hanish (FBSB), Raja Mohd Hafidz Raja Nhari dan Nur Fadhilah Khairil Mokhtar	15 April 2019 – 31 Jan 2020
Khairun Nisa' Binti Mesnan	Bachelor Pengurusan Perkhidmatan Makanan	UPM	Prof Madya Dr Nor Ainy Mahyudin, Raja Mohd Hafidz	20 Disember 2022- 31 Julai 2023.

ANUGERAH DAN HADIAH (<i>Honours and Awards</i>)			
<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
Anugerah Perkhidmatan Cemerlang	Majlis Gemilang Putra dan Sambutan Hari Pekerja 2019	Sijil Penghargaan	2019
Soluble polysaccharides of palm kernel cake as a potential prebiotic on the growth of probiotics	Poster presentation in The Second Bioprocessing and Biomanufacturing Symposium 2017	CoA	2017
Detection of porcine blood using monoclonal antibody based-ELISA	Pameran Rekacipta, Penyelidikan dan Inovasi UPM	Silver	2016
Identification of Polypeptide Biomarkers of Porcine Gelatin using Two-dimensional Electrophoresis	Malaysia Innovation Expo (MIExpo)	Silver	2013
Method for extraction of gelatins in food and non-food products	Pameran Rekacipta, Penyelidikan dan Inovasi UPM	Gold	2012
Comparison of Bovine and Porcine Skin Gelatin based on Chemical Properties	Pameran Rekacipta, Penyelidikan dan Inovasi UPM	Silver	2011

Differentiation on bovine and porcine gelatin based on chemical and functional properties	Poster presentation in Halal Science and Innovation Excellence, World Halal Research Summit (Certificate of participation)	CoA	2011
Comparison of bovine and porcine skin gelatin based on amino acid composition, polypeptide pattern and gel strength.	Poster presentation in 3 rd IMT-GT International Symposium on Halal Science and Management (Certificate of appreciation)	CoA	2009

SENARAI PENERBITAN (Nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published); IPR, JOURNAL REVIEWER, COMPUTER SOFTWARE

<p><i>Research articles (Cited and non-cited)</i> *Corresponding author</p>	<ol style="list-style-type: none"> 1. Raja Mohd Hafidz, R. N., Yaakob, C. M.*, Amin, I. and Noorfaizan, A. (2011). Chemical and functional properties of bovine and porcine skin gelatin. <i>International Food Research Journal</i> 18: 787-791 2. Raja Mohd Hafidz Raja Nhari*, Amin Ismail, and Yaakob B. Che Man (2012). Analytical Methods for Gelatin Differentiation from Bovine and Porcine Origins and Food Products. <i>Concise Reviews in Food Science. Journal of Food Science</i> 77: R42-46 3. Abdul Rohman*, Y. B. Che Man, R. M. Hafidz, N. N. Juliana and C. S. Tong (2013). Analysis of Melamine Using Electronic Nose, Gas Chromatography-Time of Flight –Mass Spectrometry and High-Performance Liquid Chromatography. <i>J.Food Pharm.Sci.</i> 1 43-48 (Non-cited Journal) 4. Aina Mohd Amin, Amin Ismail*, Y.B. Che Man, Raja Mohd Hafidz, R. N. (2013). Identification of polypeptide biomarkers of porcine skin gelatin by two-dimensional electrophoresis. <i>International Food Research Journal</i> 20(3): 1395-1399 5. Nur Azira, T., Che Man, Y. B*, Raja Mohd Hafidz, R. N., Aina, M. A., & Amin, I. (2014). Use of principal component analysis for differentiation of gelatin sources based on polypeptide molecular weights. <i>Food Chemistry</i>, 151, 286–92. 6. Raja Nhari, R. M. H., Hamid, M*, Rasli, N. M., Omar, A. R., El Sheikha, A. F.* and Mustafa, S. (2015), Monoclonal antibodies specific to heat-treated porcine blood. <i>J. Sci. Food Agric.</i>, 96: 2524–2531. 7. Raja Nhari, R. M. H.*, Khairil Mokhtar, N. F., Hanish, I.*, Hamid, M., Mohamed Rashidi, M. A. A., & Shahidan, N. M. (2018). Monoclonal antibody-based enzyme immunoassay for detection of porcine plasma in fish surimi. <i>Food Additives & Contaminants: Part A</i>, 35, 9, 807-817 8. Raja Nhari, R. M. H.*, Irwan Hanish, Khairil Mokhtar, N. F., Hamid, M. and El Sheikha, A. F.* (2019). Authentication approach using enzyme-linked immunosorbent assay for detection of porcine substances. <i>Quality Assurance and Safety of Crops & Foods</i>, 11 (5): 449-457
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	<p>9. Raja Mohd Hafidz Raja Nhari*, Azyan Nafisah Muhammad Zailani, Nur Fadhilah Khairil Mokhtar & Irwan Hanish (2020). Detection of porcine pepsin in model cheese using polyclonal antibody-based ELISA, <i>Food Additives & Contaminants: Part A</i>, 37:4, 561-567</p> <p>10. Khairil Mokhtar, N. F., Hanish, I., Mohd Hashim, A*, Zulkarnain, A., Raja Nhari, R. M. H., Abdul Sani, A. A., ... & Abdul Rahim, R. (2020). The Discovery of New Antilisterial Proteins from <i>Paenibacillus polymyxa</i> Kp10 via Genome Mining and Mass Spectrometry. <i>Frontiers in Microbiology</i>, 11, 960.</p> <p>11. Qamar Zia*, Mohammad Alawami, Nur Fadhilah Khairil Mokhtar, Raja Mohd Hafidz Raja Nhari, Irwan Hanish (2020). Current analytical methods for porcine identification in meat and meat products. <i>Food Chemistry</i> 324, 126664</p> <p>12. Mokhtar, N.F.K., Hashim, A.M., Abbasiliasi, S., Zulkarnain, A., Raja Nhari, R.M.H., Ariff, A., Mustafa, S. and Abdul Rahim, R. (2021), Physicochemical stability of antilisterial proteins from <i>P. polymyxa</i> Kp10 as potential food biopreservative. <i>Int. J. Food Sci. Technol.</i>, 56: 6549-6558.</p> <p>13. Ummu Nasuha Mohd Asri, Nur Fadhilah Khairil Mokhtar, Raja Mohd Hafidz Raja Nhari, Mohd Hafis Yuswan, Amalia Mohd Hashim, Sahar Abbasiliasi, Mohd Nasir Mohd Desa, Amin Ismail, Shuhaimi Mustafa (2021). Mass spectrometry determination of potential species-specific peptide markers in commercial seasoning cubes. <i>Journal of Food Composition and Analysis</i>, 104.</p> <p>14. Nur Fadhilah Khairil Mokhtar, Siti Zaharah Imran, Ming Gan Han, Mun Chun Leong, Mohd Nasir Mohd Desa, Raja Mohd Hafidz Raja Nhari, Nor Nadiha Mohd Zaki, Yus Aniza Yusof, Shuhaimi Mustafa & Amalia Mohd Hashim (2022) Next Generation Sequencing-based DNA metabarcoding for animal species profiling in fish feed, <i>Food Additives & Contaminants: Part A</i></p> <p>15. Raja Mohd Hafidz Raja Nhari*, Jun Hui Soh, Nur Fadhilah Khairil Mokhtar, Nurhidayatul Asma Mohammad & Amalia Mohd Hashim (2023) Halal authentication using lateral flow devices for detection of pork adulteration in meat products: a review, <i>Food Additives & Contaminants: Part A</i>, 40:8, 971-980, DOI: 10.1080/19440049.2023.2242955</p>
<p><i>Full proceeding/Book/ Monographs</i></p>	<p>Editor:</p> <ol style="list-style-type: none"> Jamilah, B., Raja Nhari, R. M. H., Mokhtar, N. F. K., Rosman, NN., Mohd Nor, N. A. N. Innovation of Sustainable Halal Industry. (2014) Proceedings of Malaysia International Halal Research & Education Conference, Putrajaya, Malaysia. (ISBN: 978-967-960-359-0)
<p><i>Conference Proceedings</i></p>	<ol style="list-style-type: none"> Raja Mohd Hafidz, R.N. and Che Man, Y.B. and Anuar, N. (2009) <i>Comparison of bovine and porcine skin gelatin based on amino acid composition, polypeptide pattern and gel strength</i>. In: 3rd IMT-GT International Symposium on Halal Science and Management 2009 (21-22 December 2009) hosted in KLIA, Sepang, Selangor, Malaysia, pp. 105-109 Noorsuliya Raihan, Sahar Abbasiliasi, Bashirat Bello, Nur Fadhilah Khairil Mokhtar, Raja Hafidz, Arbakariya Ariff, Shuhaimi Mustafa. (2017). Soluble polysaccharides of palm kernel cake as a potential prebiotic on the growth of

	<p>probiotics. In: The Second Bioprocessing and Biomanufacturing Symposium, 12-13 Disember), Sains@USM, Penang, pp. 59</p> <p>3. Raja Mohd Hafidz, , A.Q. Sazili, Desa, Mohd Nasir Mohd Nasir, Mohd N.M., Latif M.A.M, Tohid, S.F.- Preliminary Studies on the Identification of Chemical Compounds as Potential Probes to Detect Porcine Thermostable Peptide AQ1 9th International Symposium on Applied Engineering and Sciences, Abstract, Non Citation-Indexed , Universiti Putra Malaysia / Kyushu Institute of Technology, International, 0 , [120 - 120], MALAYSIA, 2021</p> <p>4. Raja Mohd Hafidz Raja Nhari*, Nur Fadhilah Khairil Mokhtar, Nurhidayatul Asma Mohammad, Nor Ainy Mahyudin. 16th Asian Conference on Analytical Sciences (ASIANALYSIS XVI) 2023 Symposium on Halal Testing and Authenticity. Detection of Pork Adulteration in Raw and Processed Meat Products Using Lateral Flow Immunoassay. Abstract. Pp 116.</p>
<i>IPR</i>	<p>Granted patent A Ismail, Y Che Man, NA Tukiran, A Mohd Amin, Raja Mohd Hafidz, R. N. (2012). Method for extraction and identification of gelatin. PI2012003189, MY152806A</p> <p>Filing patent Raja Mohd Hafidz, R. N.; Shuhaimi Mustafa, Abdul Rahman Omar, Muhajir Hamid, A Ismail, (2012). Monoclonal antibodies specific to porcine plasma and hybridomas producing such antibodies. PI2015702493</p> <p>Copyright Arshad, Syariena, Raja Mohd Hafidz, Amin, Yuswan, , Mokhtar NFK, Shuhaimi M, Y. A. YUSOF, YUS ANIZA YUSOF, - Modul PUTRA@Saintis Halal Cilik Literacy Work, LY2020006607, 2020 ,</p>
<i>Journal reviewer</i>	<p>1. IFRJ16605: Chemical Composition and characterization of skin gelatin from buffalo (<i>Bubalus bubalis</i>) (International Food Research Journal)</p> <p>2. IFRJ161147: Confirmation of Bovine Gelatine in Commercial Capsule Shell Using Real Time Polymerase Chain Reaction (International Food Research Journal)</p>
<i>Computer software</i>	Microsoft Office 2010, Quantity One, i-Control™ Microplate reader software

PENJANAAN KEWANGAN	Jumlah kumulatif
Perkhidmatan yang ditawarkan/ jaringan/latihan/konsultansi	RM 6,333.31

PROJEK PENYELIDIKAN SEMASA DAN TERDAHULU (<i>Current and Past Research Project</i>)						
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>	<i>Approved budget (RM)</i>
05-02-10-0935RU	Application of 2D SDS-PAGE in differentiation of gelatins from bovine and porcine origins	Project leader	2010-2012	Research University Grant Scheme (UPM)	Completed	30,000

06-01-04-SF1515	Development Of Monoclonal Antibodies Against Heat Treated Porcine Blood for Blood Detection In Surimi Products	Project leader	2012-2015	Sciencefund (MOSTI)	Completed	175,000
02-02-12-2038RU	Development of polyclonal antibodies against thermostable proteins of porcine blood for detection in fish-based products using ELISA	Project leader	2012-2015	Research University Grant Scheme (UPM)	Completed	40,000
Contract research	Profiling Of Polypeptide Via LC-MS/MS [Pembangunan kaedah analisis halal MyHAC (JAKIM)- IPPH (UPM)]	Co-researcher	2017-2018	MyHAC	Completed	114,500
GP-IPM-/2016/9508400	Molecular characterisation and determination of antiviral properties of putative antimicrobial protein (AMP) from <i>Pediococcus acidilactici</i>	Co-researcher	2016-2018	Geran Putra IPM	Completed	60,000
04-01-17-1925FR	Mechanistic study of antimicrobial peptides from locally isolated lactic acid bacteria against antibiotic-resistant pathogens	Co-researcher	2017-2019	FRGS	Completed	75,400
GP/2018/9625900	Detection of porcine pepsin in food products using polyclonal antibody-based ELISA	Project leader	2018-2020	Geran Putra	Completed	50,000
6380033-10205	Discovery of porcine-specific microRNA marker for Halal meat authentication	Project leader	2019-2021	A New Mind, Saudi Arabia	Completed	80,000
9687600	Identification and Characterization of new MicroRNA Biomarkers for Halal Food Authentication	Co-researcher	2020-2023	GP-IPS	On-going	20,000
GP-IPM/2022/9737700	Validation of lateral flow immunoassay for detection of pork in raw and processed foods	Project leader	2022-2024	GP-IPM	On-going	35,000
JUMLAH						679,900

PROJEK KERJASAMA JANGKA PENDEK (MTA)					
<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>	<i>Approved budget (RM)</i>
Preliminary Test of mAbs that Specific to Porcine Blood Plasma in a Prototype Detection Kit Produced by NanoBio Lab, Singapore	Project leader	2020-2021 (1 year)	GP/2018/9625900	Completed	24,500