

CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI (Personal Details)					
Nama Penuh(Full Name)	Abdul Rahman bin Omar			Gelaran (Title):Professor	
No. MyKad / No. Pasport(Mykad No. / Passport No.) 671022-01-5033	Warganegara (Citizenship) Malaysia	Bangsa (Race) Melayu	Jantina (Gender) Male		
Jawatan (Designation) Profesor & Director		Tarikh Lahir (Date of Birth)	22 October 1967		
Alamat Semasa (Current Address)	Jabatan/ Fakulti (Department/Faculty)	E-mel dan URL (E-mail Address and URL)			
Director Institute BioScience Faculty of Veterinary Medicine Universiti Putra Malaysia 43400 Serdang, Selangor Tel : 03-89472111 Fax : 03-89472101	Department of Veterinary Pathology & Microbiology Faculty of Veterinary Medicine Universiti Putra Malaysia 43400 Serdang, Selangor Tel : 03-89468268 Fax : 03-89468333	E-mail:aro@upm.edu.my URL: http://www.vet.upm.edu.my/?LANG=en&uri=/sp/page/2670/ProfRahman H/P:012-3717917			
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)		
D.V.M.	Universiti Pertanian Malaysia	1991	Veterinary Medicine and Animal Science		
Ph. D	Cornell University, New York, USA	1997	Major in immunology Minor in virology and biochemistry		
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				x	
Bahasa Melayu				x	
Chinese					
Lain-lain (other):					
D. PENGALAMAN SAINTIFIK DAN PENGKhususan (Scientific experience and Specialisation)					
Organization	Position	Start Date	End Date	Expertise	
Universiti Putra Malaysia	Tutor	1991	1992	Immunology	
	Lecture	1992	1997	Immunology	
	Associate Professor	Dec 2002	March 2009	Immunology	
	Professor	April 2009	To date	Immunology	
E. PEKERJAAN (Employment)					
Majikan / Employer	Jawatan / Designation	Jabatan / Department		Tarikh lantikan / Start Date	Tarikh tamat /Date Ended

Universiti Putra Malaysia	Tutor	Department of Veterinary Pathology & Microbiology Faculty of Veterinary Medicine and Animal Sciences, Universiti Pertanian Malaysia	1991	1992
	Lecturer	Department of Veterinary Pathology & Microbiology Faculty of Veterinary Medicine, Universiti Pertanian Malaysia	1992	1997
	Associate Professor	Faculty of Veterinary Medicine, Universiti Putra Malaysia	Dec 2002	March 2009
	Professor	Faculty of Veterinary Medicine, Universiti Putra Malaysia	April 2009	To date
	Head Laboratory	Laboratory of Molecular and Cell Biology, Institute of Bioscience, Universiti Putra Malaysia	Oct 2004	Feb 2006
	Deputy Director	Institute of BioScience, Universiti Putra Malaysia	March 2006	May 2011
	Director	Institute of BioScience, Universiti Putra Malaysia	June 2011	To date

F. ANUGERAH DAN HADIAH (Honours and Awards)

Name of awards	Title	Award Authority	Award Type	Year
Academic Awards	National Young Scientist Awards	MOSTE	-	2002
Non-Academic Awards	Excellent Service Awards	UPM	-	2000, 2003, 2007, 2011
Awards of Merit	-	-	-	

G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, mukasurat dan tahun diterbitkan) (List of publications – author (s), title, journal, volume, page and year published)

Journal Books/Monographs Chapters in book	Refer to the attachment 1
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H. PROJEK PENYELIDIKAN TERDAHULU (Past Research Project)

Project No.	Project Title	Role	Year	Source of fund	Status
Grant No. ABI (A) No. 12	Development of prototype vaccines against H5N1 and characterization of the vaccine induced responses	Project leader	2007 – 2011	MOSTI	Completed
04/01/07/0055RU	Genomic characterization of H5N1 viruses isolated from poultry farms	Project leader	2007 – 2009	UPM	Completed
BF/054UPM	Development and clinical trials of prototype kits for laboratory detection of avian influenza viruses	Project leader	2008 - 2009	MTDC	Completed
01-11-08-6390FR	Identification and characterization of novel genes that regulate feline infectious coronavirus infection in cats	Project leader	2009 - 2010	MOHE	Completed
05-01-04-SF1068	Immunomic analysis of host-pathogen interactions during Newcastle disease virus and infectious bursal disease virus infections in chickens	Project leader	2009-2012	MOA	completed
ERGS/1-2012/5527123	Determination of the role of circular RNA as antiviral agent against feline infectious peritonitis virus	Project leader	2012 - 2014	MOHE	Completed
-	Avian Immunogenomics - Immunogenetic analysis of chickens against avian immunosuppressive disease virus for the development of improved vaccines	Project leader	2009 - 2014	MOHE	Completed

02-01-04-SF1449	Transcriptome profiling for identifying novel biomarkers in swiftlets of conservation and industry importance	Project leader	2012 - 2015	MOSTI	Completed
02-02-13-1371FR	Transcriptome and methylome profiling of <i>Pasteurella multocida</i> serotype B:2 genome for functional characterization of virulence genes associated with intracellular invasion of bovine cells	Project Leader	2013-1015	MOE	On going
PRGS/1/2014/SG05/UPM/01/2	Laboratory scale production and evaluation of circular triple-helix forming oligonucleotide (cTFO) RNA as antiviral agent in cats diagnosed with feline infectious peritonitis disease	Project Leader	2014-2016	MOE	On going
TRGS	Evaluation of immunogenic response and immunity induced by sago based biopolymer encapsulated live and killed NDV vaccines against NDV infection in chicken	Project Leader	2015-2018	MOE	On going

I. ID PUBLISHING (<i>Publishing ID</i>)		
	Author ID	Name
<i>Scopus</i>	7202864053	Omar AR
<i>ORC ID</i>	orcid.org/0000-0001-7379-0507	
<i>Web of Science ID</i>	-	
<i>Researcher ID</i>	H-8448-2013	
<i>Others</i>	Goggle Scholar H-index 29, Citation 2413)	

J. RANGKAIAN SOSIAL (<i>Social Networking</i>)	
<i>Facebook</i>	√
<i>LinkedIn</i>	√
<i>Researchgate</i>	√
<i>Academia</i>	
<i>Google Scholar</i>	√
<i>Blog</i>	
<i>Website url</i>	http://www.vet.upm.edu.my/?LANG=en&uri=/sp/page/2670/ProfRahman
<i>Others</i>	

Selected journal publications from 2013, * as corresponding author

1. Jazayeri SD, Ideris A, Shameli K, Moeini H, **Omar AR**. (2013). Gene expression profiles in primary duodenal chick cells following transfection with avian influenza virus H5 DNA plasmid encapsulated in silver nanoparticles. *International Journal of Nanomedicine* 8:781-790.
2. Murulitharan K, Yusoff K, **Omar AR**, Molouki A. (2013). Characterization of Malaysian velogenic NDV strain AF2240-I genomic sequence: a comparative study. *Virus Genes* 431-430.
3. Ebrahimi Nigjeh S, Yusoff FM, Mohamed Alitheen NB, Rasoli M, Keong YS, **Omar AR**. (2013). Cytotoxic effect of ethanol extract of microalga, *Chaetoceros calcitrans*, and its mechanisms in inducing apoptosis in human breast cancer cell line *Biomedical Research International* 2013:783690.
4. Ghrici M, El Zowalaty M, **Omar AR**, Ideris A. (2013). Newcastle disease virus Malaysian strain AF2240 induces apoptosis in MCF-7 human breast carcinoma cells at an early stage of the virus life cycle. *International Journal Molecular Medicine*31(3):525-532.
5. Ghrici M, El Zowalaty M, **Omar AR**, Ideris A. (2013). Induction of apoptosis in MCF-7 cells by the hemagglutinin-neuraminidase glycoprotein of Newcastle disease virus Malaysian strain AF2240. *Oncology Report* doi: 10.3892/or.2013.2573.
6. Lim KL, Jazayeri SD, Yeap SK, Mohamed Alitheen NB, Bejo MH, Ideris A, **Omar AR***. (2013). Antibody and T cell responses induced in chickens immunized with avian influenza virus N1 and NP DNA vaccine with chicken IL-15 and IL-18. *Research Veterinary Science* Aug 12. doi:pii: S0034-5288(13)00238-5.
7. Subramaniam K, Shariff M, **Omar AR**, Hair-Bejo M, Ong BL. (2013). Detection and molecular characterization of infectious spleen and kidney necrosis virus from major ornamental fish breeding states in Peninsular Malaysia. *Journal Fish Diseases* Aug 16. doi: 10.1111/jfd.12152.
8. Balasubramaniam VRMT, Hong Wai T, ArioTejo B, **Omar AR**, Syed Hassan S (2013). Highly pathogenic avian influenza virus nucleoprotein interacts with TREX complex adaptor protein Aly/REF. *PLoS ONE* 8(9): e72429. doi:10.1371/journal.pone.0072429.
9. Yap HY, Ghazali K, Wan Mohamad Nazarie WF, Mat Isa MN, Zakaria Z, **Omar AR***. (2013). Draft genome sequence of *Pasteurella multocida* subsp. *multocida* strain PMTB, isolated from a buffalo. *Genome Announcement* 7: 1(5). pii: e00872-13.
10. Gan HM, Sieo CC, Tang SG, **Omar AR**, Ho YW. (2013). The complete genome sequence of EC1-UPM, a novel N4-like bacteriophage that infects *Escherichia coli* O78. *Virology Journal*,18: 10(1):308.
11. Harun MS, Kuan CO, Selvarajah GT, Wei TS, Arshad SS, Bejo MH, **Omar AR***. (2013). Transcriptional profiling of feline infectious peritonitis virus infection in CRFK cells and in PBMCs from FIP diagnosed cats. *Virology Journal* 10(1):329.
12. Rasoli M, Yeap SK, Tan SW, Moeini H, Ideris A, Bejo MH, Alitheen NB, Kaiser P, and **Omar AR***. (2014). Alteration in lymphocyte responses, cytokine and chemokine profiles in chickens infected with genotype VII and VIII velogenic Newcastle disease virus. *Comparative Immunology Microbiology Infectious Disease*. doi:pii: S0147-9571(13)00079-9. 10.1016/j.cimid.2013.10.003.
13. Oi Kuan Choong, Parvaneh Mehrbod, Bimo Ario Tejo, and **Abdul Rahman Omar***. (2014). In vitro antiviral activity of circular triple helix forming oligonucleotide RNA towards feline infectious peritonitis virus replication. *Biomedical Research International* 2014.
14. Subramani T, Yeap SK, Ho WY, Ho CL, **Omar AR**, Aziz SA, Nik Abdul Rahman NMA, and Alitheen, NB. (2014). Vitamin C suppress cell death in MCF-7 human breast cancer cells induced by tamoxifen. *Journal of Cellular and Molecular Medicine*, 18, 305-313.
15. Aziz MYA, **Omar AR**, Subramani T, Yeap SK, Ho WY, Ismail NH, Ahmad S, Alitheen NB. (2014). Damnacanthal is a potent inducer of apoptosis with anticancer activity by stimulating p53 and p21 genes in MCF-7 breast cancer cells. *Oncology Letters*, 7, 1479-1484.
16. Ang HY, Subramani T, Yeap SK, **Omar AR**, Ho WY, Abdullah MP, and Alitheen NB (2014). Immunomodulatory effects of *Potentilla indica* and *Dendrophthoe pentandra* on mice splenocytes and thymocytes. *Experimental and Therapeutic Medicine*, 7, 1733-1737.

17. Lam HY, Yusoff K, Yeap SK, Subramani T, Abd-Aziz S, **Omar AR**, and Alitheen NB. (2014). Immunomodulatory effects of Newcastle disease virus AF2240 strain on human peripheral blood mononuclear cells. *International Journal of Medical Sciences*, 19;11(12):1240-1247.
18. Abu N, Akhtar MN, Yeap SK, Lim KL, Ho WY, Zulfadli AJ, **Omar AR**, Sulaiman MR, Abdullah MP, and Alitheen NB. (2014). Flavokawain A induces apoptosis in MCF-7 and MDA-MB231 and inhibits the metastatic process in vitro. *PLoS One* 6;9(10):e105244.
19. Sue MJ, Yeap SK, **Omar AR**, and Tan SW. (2014). Application of PCR-ELISA in molecular diagnosis. *Biomedical Research International* 2014; 2014:653014.
20. Mehrbod P, Hair-Bejo M, Tengku Ibrahim TA, **Omar AR**, El Zowalaty M, Ajdari Z, and Ideris A. (2014). Simvastatin modulates cellular components in influenza A virus-infected cells. *International Journal of Molecular Medicine* 34(1):61-73.
21. Mehrbod P, Ideris A, **Omar AR**, and Hair-Bejo M. (2014). Prophylactic effect of herbal-marine compound (HESA-A) on influenza A virus infectivity. *BMC Complement Alternative Medicine* 7;14:131.
22. Rasouli M, Abbasi S, Sarsaifi K, Hani H, Ahmad Z, and **Omar AR**. (2014). The L-cell isolation from heterogonous population of intestinal cell line using antibiotic selection method. *Applied Biochemistry Biotechnology* 172(1):394-404. doi: 10.1007/s12010-013-0514-6.
23. Mehrbod P, **Omar AR**, Hair-Bejo M, Haghani A, and Ideris A. (2014). Mechanisms of action and efficacy of statins against influenza. *Biomedical Research International* 2014;2014:872370.
24. Juliana MA, Nurulfiza I, Hair-Bejo M, **Omar AR**, and Aini I. (2014). Molecular characterization of fowl adenoviruses isolated from inclusion body hepatitis outbreaks in commercial broiler chickens in Malaysia. *Pertanika Journal Tropical Agriculture Science* 37 (4): 483 – 497.
25. Abdulwahab Kammon, Tan Sheau Wei, **Abdul Rahman Omar**, Abdunaser Dayhum, Ibrahim Eldghayes, Monier Sharif (2014). Molecular detection and characterization of infectious bronchitis virus from Libya. *World Academy of Science, Engineering and Technology International Journal of Medical, Pharmaceutical Science and Engineering* 7, 12: 689-691.
26. Yong CY, Yeap SK, Goh ZH, Ho KL, **Omar AR**, Tan WS. (2014). Hepatitis B virus epitope displayed on the virus-like particles of prawn nodavirus induced humoral and cell-mediated immune responses. *Applied Environment Microbiology* 2014 Nov 21. pii: AEM.03695-14.
27. Tan CG, Ideris A, **Omar AR**, Yii CP, Kleven SH. (2014). Polymerase chain reaction-based discrimination of viable from non-viable *Mycoplasma gallisepticum*. *Onderstepoort Journal of Veterinary Research* 81 (1). doi: 10.4102/ojvr.v81i1.708.
28. Mohamed Ibrahim Saeed, **Abd Rahaman Omar**, Mohd Zobir Hussein, Isam Mohamed Elkhidir, and Zamberi Sekawi. (2015). Systemic antibody response to nano-size calcium phosphate biocompatible adjuvant adsorbed HEV-71 killed vaccine. *Clinical Experimental Vaccine Research*.4(1):88-98.
29. Mehrbod P, Harun MS, Shuid AN, and **Omar AR***. (2015). Transcriptome analysis of feline infectious peritonitis virus infection. *Methods Molecular Biology* ;1282:241-50
30. Abu N, Mohamad NE, Yeap SK, Lim KL, Akhtar MN, Zulfadli AJ, Beh BK, Abdullah MP, **Omar AR**, and Alitheen NB. (2015). In vivo antitumor and antimetastatic effects of flavokawain B in 4T1 breast cancer cell-challenged mice. *Drug Design, Development and Therapy* 2015;9 1401–1417.
31. Faruku Bande, Siti Suri Arshad, Mohd Hair Bejo, Hassan Moeini, and **Abdul Rahman Omar**. (2015). Progress and challenges toward the development of vaccines against avian infectious bronchitis. *Journal of Immunology Research* 2015, 424860.
32. Mehdi Rasoli, Swee Keong Yeap, Sheau Wei Tan, Kiarash Roohani, Ye Wen Kristeen-Teo, Noorjahan Banu Alitheen, Yasmin Abd Rahaman, Ideris Aini, Mohd Hair Bejo, Pete Kaiser, **Abdul Rahman Omar***. (2015). Differential modulation of immune response and cytokine profiles in the bursae and spleen of chickens infected with very virulent infectious bursal disease virus. *BMC Veterinary Research* 11:75.
33. Looi Qi H, Aini I, Md Zuki AB and **Omar AR***. (2015). Morphology comparison of swiftlet species from natural and man-made habitats in Malaysia. *Sains Malaysiana* 44 (4); 49-502
34. Yong CY, Yeap SK, Ho KL, **Omar AR**, and Tan WS. (2015). Potential recombinant vaccine against influenza A virus based on M2e displayed on nodaviral capsid nanoparticles. *International Journal of Nanomedicine* 10:2751-63.

35. Roohani K, Tan SW, Yeap SK, Ideris A, Bejo MH, and **Omar AR**. (2015). Characterisation of the genotype VII Newcastle disease virus (NDV) Isolated from NDV vaccinated chickens and the efficacy of LaSota and recombinant genotype VII vaccines against challenge with velogenic NDV. *Journal of Veterinary Science* 16(4):447-57. doi: 10.4142/jvs.2015.16.4.447.
36. Rahaman YA, Yeap SK, Tan SW, Hair-Bejo M, Fakurazi S, Kaiser P, and **Omar AR***. (2015). In vitro characterization of chicken bone marrow-derived dendritic cells following infection with very virulent infectious bursal disease virus. *Avian Pathology*. 10.1080/03079457.2015.1084997
37. Balakrishnan KN, Abdullah AA, Camalxaman SN, Quah YW, Abba Y, Hani H, Loh HS, Kamal FM, Zeenathul NA, Aini I, **Omar AR**, Noordin MM, Mohd Azmi ML. (2015). Complete genome sequence of rat cytomegalovirus strain ALL-03 (Malaysian strain). *Genome Announcement* 3(3). pii: e00451-15. doi: 10.1128/genomeA.00451-15.
38. Ahmad Naqib Shuid, Nikoo Safi, Amin Haghani, Parvaneh Mehrbod, Mohd Syamsul Reza Haron, Sheau Wei Tan and **Abdul Rahman Omar*** (2015). Apoptosis transcriptional mechanism of feline infectious peritonitis virus infected cells. *Apoptosis* 20(11):1457-1470. doi: 10.1007/s10495-015-1172-7.
39. Ahmed IM, Khairani-Bejo S, Hassan L, Bahaman **AR, Omar AR**. (2015). Serological diagnostic potential of recombinant outer membrane proteins (rOMPs) from *Brucella melitensis* in mouse model using indirect enzyme-linked immunosorbent assay. *BMC Veterinary Research* 11(1):275. doi: 10.1186/s12917-015-0587-2.
40. Abu N, Mohameda NE, Tangarajoo N, Yeap SK, Akhtar MN, Abdullah MP, **Omar AR**, Alitheen NB. (2015). In vitro toxicity and in vivo immunomodulatory effects of flavokawain A and flavokawain B in Balb/C mice. *Natural Product Communication* 10(7):1199-202.
41. Saeed MI, **Omar AR**, Hussein MZ, Elkhidir IM, Sekawi Z. (2015). Development of enhanced antibody response toward dual delivery of nano-adjuvant adsorbed human Enterovirus-71 vaccine encapsulated carrier. *Human Vaccine Immunotherapy* 11(10):2414-24. doi: 10.1080/21645515.2015.1052918.
42. Raja Nhari RM, Hamid M, Rasli NM, Omar AR, El Sheikha AF, Mustafa S. (2015). Monoclonal antibodies specific to heat treated porcine blood. *Journal Of Science Food Agriculture*, doi: 10.1002/jsfa.7547.
43. Chung EL, Abdullah FF, Adamu L, Marza AD, Ibrahim HH, Zamri-Saad M, Haron AW, Saharee AA, Lila MA, **Omar AR**, Bakar MZ, Norsidin MJ. (2015). Clinico-pathology, hematology, and biochemistry responses toward *Pasteurella multocida* Type B: 2 via oral and subcutaneous route of infections. *Veterinary World*. 2015 Jun;8(6):783-92. doi: 10.14202/vetworld.
44. Marza AD, Jesse FF, Ahmed IM, Teik Chung EL, Ibrahim HH, Zamri-Saad M, **Omar AR**, Abu Bakar MZ, Saharee AA, Haron AW, Alwan MJ, Mohd Lila MA. (2016). Involvement of the nervous system following experimental infection with *Pasteurella multocida* B:2 in buffalo (*Bubalus bubalis*): A clinicopathological study. *Microbial Pathogenesis* 93:111-119. doi: 10.1016/j.micpath.2016.01.025.
45. Firouzamandi M, Moeini H, Hosseini SD, Bejo MH, **Omar AR**, Mehrbod P, El Zowalaty ME, Webster TJ, Ideris A. (2016). Preparation, characterization, and in ovo vaccination of dextran-spermine nanoparticle DNA vaccine coexpressing the fusion and hemagglutinin genes against Newcastle disease. *International Journal of Nanomedicine* 11:259-267. doi: 10.2147/IJN.S92225
46. Firouzamandi M, Moeini H, Hosseini D, Bejo MH, **Omar AR**, Mehrbod P, Ideris A. (2016). Improved immunogenicity of Newcastle disease virus inactivated vaccine following DNA vaccination using NDV HN and F genes. *Journal of Veterinary Science*, 17(1):21-6. doi: 10.4142/jvs.2016.17.1.21.
47. Ahmed IM, Khairani-Bejo S, Hassan L, Bahaman AR, **Omar AR**. (2016). Serological diagnostic potential of recombinant outer membrane proteins (rOMPs) from *Brucella melitensis* in mouse model using indirect enzyme-linked immunosorbent assay. *BMC Veterinary Research* 11:275. doi: 10.1186/s12917-015-0587-2.
48. Abu N, Akhtar MN, Yeap SK, Lim KL, Ho WY, Abdullah MP, Ho CL, **Omar AR**, Ismail J, Alitheen NB.(2016). Flavokawain B induced cytotoxicity in two breast cancer cell lines, MCF-7 and MDA-MB231 and inhibited the metastatic potential of MDA-MB231 via the regulation of several tyrosine kinases In vitro. *BMC Complement Alternative Medicine*. 27;16(1):86. doi: 10.1186/s12906-016-1046-8.

49. Amin Haghani, Parvaneh Mehrbod, Nikoo Safi, Nur Ain Aminuddin, Azadeh Bahadoran, **Abdul Rahman Omar**, Aini Ideris. (2016). *In vitro* and *in vivo* mechanism of immunomodulatory and antiviral activity of edible bird's nest against influenza A virus infection. (2016). *Journal of Ethnopharmacology*, <http://dx.doi.org/10.1016/j.jep.2016.03.020>
50. Bande F, Arshad SS, **Omar AR**, Bejo MH, Abubakar MS, Abba Y. (2016). Pathogenesis and diagnostic approaches of avian infectious bronchitis. *Advance Virology* 2016;4621659. doi: 10.1155/2016/4621659.
51. Radwan EM, Abdullah R, Al-Qubaisi MS, El Zowalaty ME, Naadja SE, Alitheen NB, **Omar AR**. (2016). Effect of recombinant human erythropoietin and doxorubicin in combination on the proliferation of MCF-7 and MDA-MB231 breast cancer cells. *Molecular Medicine Reports*. 2016 Mar 16. doi: 10.3892/mmr.2016.4989.
52. Abu Bakar@Zakaria, Md Zuki; Ibrahim, Muhammad; Mat Amin, Fhaisol; **Omar, Abdul Rahman**, (2016). Comparative histological evaluations of the sublingual salivary glands of white-nest swiftlets, *Aerodramus* (Aves: Apodidae) from house-farm and cave. *Journal of Tropical Agricultural Science*, in press
53. Bande F, Arshad SS, **Omar AR**. (2016). Isolation and metagenomic identification of avian leukosis virus associated with mortality in broiler chicken. *Advance Virology* 2016;2016:9058403. doi: 10.1155/2016/9058403. Epub 2016 Aug 15.
54. Waziri PM, Abdullah R, Yeap SK, **Omar AR**, Kassim NK, Malami I, How CW, Etti IC, Abu ML.(2016). Clausenidin induces caspase-dependent apoptosis in colon cancer. *BMC Complement Altern Med*. 2016 Jul 29;16:256. doi: 10.1186/s12906-016-1247-1.
55. Kosni NN, Ganti N, Noor MH, Razak IS, Ajat MM, **Omar AR**. (2016). Expression of complement C5a receptor and the viability of 4T1 tumor cells following agonist-antagonist treatment. *Journal Cancer Research Therapy*. 2016 Apr-Jun;12(2):590-6. doi: 10.4103/0973-1482.146066.
56. Bande, F, Arshad, SS, Hair Bejo, M, Kadkhodaei, S, **Omar AR**. (2016). Prediction and in silico identification of novel B-cells and T-cells epitopes in the S1-spike glycoprotein of M41 and CR88 (793/B) infectious bronchitis virus. *Advances in Bioinformatics* vol 2016, Article ID 5484972, 5 pages
57. Aziz MY, Abu N, Yeap SK, Ho WY, **Omar AR**, Ismail NH, Ahmad S, Pirozyan MR, Akhtar NM, Alitheen NB. (2016). Combinatorial cytotoxic effects of damnacanthal and doxorubicin against human breast cancer MCF-7 cells in vitro. *Molecules* 21(9). pii: E1228. doi: 10.3390/molecules21091228.
58. Yasmin AR, Yeap SK, Hair-Bejo M, **Omar, AR.*** (2016). Characterization of chicken splenic-derived dendritic cells following vaccine and very virulent strains of infectious bursal disease virus infection. *Avian Diseases* 60(4):739-751.
59. Pauzi AZ, Yeap SK, Abu N, Lim KL, **Omar AR**, Aziz SA, Chow AL, Subramani T, Tan SG, Alitheen NB. (2016). Combination of cisplatin and bromelain exerts synergistic cytotoxic effects against breast cancer cell line MDA-MB-231 in vitro. *Chinese Medicine* 11:46.
60. Raja Nhari RM, Hamid M, Rasli NM, **Omar AR**, El Sheikha AF, Mustafa S. (2016). Monoclonal antibodies specific to heat-treated porcine blood. *Journal of the Science of Food and Agriculture*. 96(7):2524-31. doi: 10.1002/jsfa.7547.
61. Satharasinghe DA, Murulitharan K, Tan SW, Yeap SK, Munir M, Ideris A, **Omar AR***. (2016). Detection of inter-lineage natural recombination in avian paramyxovirus serotype 1 using simplified deep sequencing platform. *Frontier in Microbiology* 30;7:1907.
62. Pua TL, Chan XY, Loh HS, **Omar AR**, Yusibov V, Musiychuk K, Hall AC, Coffin MV, Shoji Y, Chichester JA, Bi H, Streatfield SJ. (2016). Purification and immunogenicity of hemagglutinin from highly pathogenic avian influenza virus H5N1 expressed in *Nicotiana benthamiana*. *Human Vaccine & Immunotherapeutics* (in press).
63. Haghani A, Mehrbod P, Safi N, Kadir FA, **Omar AR**, Ideris A. (2017). Edible bird's nest modulate intracellular molecular pathways of influenza A virus infected cells. *BMC Complement Alternative Medicine* 17(1):22. doi: 10.1186/s12906-016-1498-x.