

CURRICULUM VITAE



Name : W NUR AFIZA BT W MOHD ARIFIN

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Date of Birth : October 12th 1986

Sex : Female

Marital Status : Married

Nationality : Malaysian

Present Designation : Science Officer (Microbiology)

Department/

Institution : Disease Division
National Public Health Laboratory (NPHL)
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Language Skills : Bahasa Malaysia (Mother tongue) - Excellent
English - Excellent

Professional Interest : Biosafety and Biosecurity
Medical Microbiology
Virology

Social Interest : Outdoor activities (Running, Hiking)
Travelling

EDUCATIONAL RECORD

Institution	City/country	Years Attended	Qualification Obtained
National University of Malaysia	Selangor, Malaysia	2005-2008	Bachelor of Science with Honors (Microbiology)
SEAMEO Regional Tropical Medicine & Public Health Network, Institute of Medical Research	Kuala Lumpur, Malaysia	February - June 2015	Post-Graduate Diploma in Medical Microbiology with Distinction

WORK EXPERIENCES

1. Research Assistant - (2009 - May 2010)

Working in Environmental Microbiology Laboratory in Faculty of Science and Technology. Work mainly in optimizing bioremediation of heavy metal contamination environment using heavy metal tolerance bacteria isolated from oil sludge pond.

2. Science Officer - (May 2010 - present)

- 2.1 Working in Pathology Department of District Bentong Hospital, Pahang, Malaysia. Doing management work and some technical work of diagnostics sample (May 2010 - November 2012).
- 2.2 Working in Pathology Department of District Temerloh Hospital, Pahang, Malaysia. Doing more of technical work of diagnostics sample (December 2012 - March 2013).

2.3 Working in Virus Isolation Laboratory of National Public Health Laboratory (NPHL), Malaysia. Doing equal work on management and technical work especially in Measles Elimination Programme (WHO Measles Reference Laboratory) and Tissue Culture Laboratory. Appointed as Technical Officer for Measles Elimination Program, NPHL, Biosafety and Biosecurity Officer for Virology Section, Member of Institutional Biosafety and Biosecurity Committee, NPHL, Member of Rapid Response Team Committee, NPHL, officer for shipping of infectious specimen for Virology Section, NPHL and officer in charge of Biosafety Level 3 (Enhance) Laboratory, Virology. Also involve as trainer/facilitator for biosafety and biosecurity training module in NPHL (April 2013 - current).

3. Exco Committee Member for Malaysian Biosafety and Biosecurity Association (2018 - current).

4. Secretariat of National Biosafety and Biosecurity Committee, Ministry of Health.

TRAINING EXPERIENCES (Virology, Biosafety & Biosecurity Related)

No.	Title	Venue	Date
1.	Intensive Usage of Biosafety Level 3 Laboratory (attendee).	NPHL, Malaysia	6 - 7 March 2013
2.	TB Laboratory Biorisk Assessment Workshop, NPHL, (attendee).	NPHL, Malaysia	11 - 12 June 2013
3.	WHO Regional Training for IATA Licensing for Transportation of Infectious Substances of Public Health Laboratory Staff Working on Emerging Infectious Diseases (awarded with distinction) (attendee).	Kuala Lumpur, Malaysia	8 to 10 October 2013
4.	WHO Hands-on Training Workshop on Cell Culture Techniques for the	Hong Kong SAR (China)	19 to 23 May 2014

	Laboratory Diagnosis of Polio/Enteroviruses and Measles/Rubella Viruses in the Western Pacific Region Centre for Health Protection(attendee).		
5.	National Institute of Occupational Safety and Health (NIOSH) Seminar on Chemical Handling at the Workplace (attendee).	NPHL, Malaysia	5 June 2014
6.	Laboratory Training for Ebola Virus Disease (attendee).	Institute of Medical Research, Kuala Lumpur, Malaysia	13 August 2014
7.	Malaysian Biosafety and Biosecurity Association Workshop Biorisk Awareness for Healthcare Workers in Infection Prevention and Control For Ebola Viral Disease Management (attendee).	Kuala Lumpur, Malaysia	19 September 2014
8.	NPHL Biosafety and Biosecurity Committee Handling of Ebola Specimen (trainer).	NPHL, Malaysia	18 September 2014
9.	Attachment entitled Identification of Flavivirus using Virus Isolation Technique (attendee).	Australian Animal Health Laboratory, Melbourne, Australia	28 September - 9 October 2015
10.	Malaysian Biosafety and Biosecurity Association Seminar on Recent Developments on Biosafety and Biosecurity in Malaysia(attendee).	Kuala Lumpur, Malaysia	12 January 2016
1.	NPHL Biosafety and Biosecurity Committee Selection and Correct usage of PPE (Respirator Fit Testing and Gloving)	NPHL, Malaysia	2016 - current

	Workshop (trainer/facilitator).		
12.	NPHL Biosafety and Biosecurity Committee Competency in BSL 3 Laboratory Operational, (trainer/facilitator).	NPHL, Malaysia	2016 - current
13.	11 th Asia Pacific Biosafety Association Conference (attendee sponsored by BEP, USA).	Siem Reap, Cambodia	30 May - 2 June 2016
14.	Malaysian Advanced Biosafety Officers Training 3 Phase 1, Malaysian Biosafety and Biosecurity Association and U.S. Department of State Biosecurity Engagement Program (BEP), (attendee).	Selangor, Malaysia	4 - 14 th October 2016
15.	Malaysian Advanced Biosafety Officers Training 3 Phase 2, Malaysian Biosafety and Biosecurity Association and U.S. Department of State Biosecurity Engagement Program (BEP), Kuala Lumpur, (attendee).	Kuala Lumpur, Malaysia	28 th November - 9 th December 2016
16.	Malaysian Advanced Biosafety Officers Training 3 Phase 3, Malaysian Biosafety and Biosecurity Association and U.S. Department of State Biosecurity Engagement Program (BEP) (attendee).	Kuala Lumpur, Malaysia	6 th - 17 th March 2017
17.	Transportation and Shipping Workshop including : The class 6.2 Dangerous Goods and Shipping General Awareness and Function Specific	Kuala Lumpur, Malaysia	6 th - 8 th March 2017

	Training by Sandia National Laboratories (attendee).		
18.	Transportation of Infectious Substances Class 6.2 by Air including terms, Categorization, Packaging, Labeling, Documentation and Dry Ice by International Federation of Biosafety Association (attendee).	Kuala Lumpur, Malaysia	20 th April 2017
19.	Professional Certification in Biorisk Management Training Workshop and Examination funded by Government of Canada's Global Partnership Program (attendee).	Kuala Lumpur, Malaysia	17 th – 20 th April 2017
20.	Biorisk Assessment Training Workshop (trainer/facilitator).	NPHL, Malaysia	17 th – 19 th May 2017
21.	Professional Certification in Biosecurity Training Workshop and Examination funded by Government of Canada's Global Partnership Program (attendee).	Kuala Lumpur, Malaysia	26 th July 2017
22.	12 th APBA Biosafety Conference. Biosecurity & Biosafety – New Challenges of Bio Threat in a Rapidly Changing World of Science & Technology (attendee sponsored by BEP, USA).	Ho Chi Minh City, Vietnam	August 22-25, 2017
23.	Workshop on the Implementation of a Sustainable Biorisk Management Program	Kuala Lumpur, Malaysia	23 rd – 27 th October 2017
24.	Malaysia Biosafety and Biosecurity Conference 2018	Kuala Lumpur, Malaysia	11 th January 2018

25.	Workshop on Laboratory biosecurity Assessment, Inspection and Monitoring	Selangor, Malaysia	9 th – 11 th April 2018 24 th – 26 th July 2018
26.	Biosafety workshop for clinical microbiology laboratories 2018 (trainer)	University Malaya, Malaysia	24 th – 25 th October 2018
27.	Guidelines on import or export pathogenic organisms or substances or part thereof (contributor)	Ministry of Health, Malaysia	7 – 8 November 2018
28.	Workshop for the Development and Establishment of Biorisk Management System” in Department of Fisheries, Malaysia (trainer)	Department of Fisheries, Malaysia	6 March 2019
29.	Biosafety, biosecurity and Risk Management Workshop (trainer)	Titivangsa District Health Office, Ministry of Health	3 May 2019
30.	Internal WHO JEE Assessment for Laboratory Biosafety and Biosecurity (assessor)	Ministry of Health, Malaysia	7 – 10 May 2019
31.	Biosafety & Biosecurity Awareness at QA Pathology Meeting (trainer)	Ministry of Health, Malaysia	20 August 2019
32.	American Biological Safety Association (ABSA) Conference 2019 (attendee)	Birmingham, USA	15-20 November 2019
33.	Training Seminar Program “The use of modern molecular genetic technologies in ensuring biological safety” (attendee)	Far Eastern Federal University, Vladivostok, Russia	December 2-6, 2019

34.	Training of biosafety and biosecurity management for Covid lab (trainer)	NPHL, Private labs and university, other agencies	2020 - current
35.	15 TH APBA ANNUAL BIOSAFETY CONFERENCE - Building Global Resilience during and Post COVID-19 Pandemic (attendee)	Virtual Platform	21 - 24 September 2022
36.	Strengthening Laboratory Capacity in SARS-COV-2 biogenomics Training for ASEAN countries: a Hands-on Training and Knowledge Sharing Workshop (Biosafety trainer)	NPHL	7/04/2022 - 7/09/2022
37.	Bioinformatics and Data Analysis Training funded by Defense Threat Reduction Agency Biological Threat Reduction Program (attendee)	Kota Kinabalu, Sabah	26 - 28 April 2022
38.	Applied Laboratory Risk Assessment Training by Sandia National Laboratory (attendee)	Kota Kinabalu, Sabah	28 June - 2 July 2022
39.	Biosecurity: Infectious Samples for Future Research Hosted by NCKU Overseas Hub in Malaysia	Virtual Platform	11/8/2022
40.	Sesi Latihan BLESS - Modul Pemohon bagi Permit Import/Eksport Organisma atau Bahan Ptogenik Kumpulan Risiko 3 dan Kumpulan Risiko 4 (attendee)	Bilik Latihan Bahagian BLESS, Putrajaya	20/9/2022
41.	Seminar and Workshop for Postal Industry and	Putrajaya	29 - 30 November 2022

	Courier Services (attendee)		
42.	Dual-Use Research of Concerns and Biosecurity Tools	Virtual Platform	2/11/2022
43.	An Introduction to Cyber Risk Management in High Containment Laboratories (attendee)	Bangkok, Thailand	30-31 January 2023
44.	Fundamental Clandestine Laboratory Identification Course and Instructor Training for Law Enforcement Officers (attendee)	Kuala Lumpur, Malaysia	6-10 March 2023
45.	RPHL Regional Infectious Substance Shipping Program and Standard Operating Procedure Development Workshop (attendee)	Bangkok, Thailand	17 - 19 May 2023
46.	Laboratory Biosafety and Biosecurity Training Toolkit Development Workshop (attendee)	Selangor, Malaysia	23 - 24 May 2023
47.	MyOHUN Biorisk Management Trainer Development Program (attendee)	Pulau Pinang, Malaysia	12 - 19 June 2023
48.	Awareness on Laboratory Biosafety and Biosecurity in NPHL (trainer)	NPHL, Malaysia	27 July 2023

PUBLICATIONS

1. Screening of biosorption bacteria tolerance towards copper and cadmium from oil sludge pond. Hamzah, **W.N.W.M Arifin**, K.S. Khoo, L.J. Lee and S.B. Sarmani. 2009. J Radioanal Nucl Chem. 28(2):295-298.
2. Malaysia Laboratory Biosafety and Biosecurity Policy and Guideline (Editorial Board Members). Ministry of Health Malaysia. 2015.
3. Guidelines of Biosafety Level 3 Laboratory (Enhance). 2016. Virus Isolation Unit, Virology Section, NPHL.
4. National Laboratory Biosecurity Assessment and Monitoring Checklist (in the framework of Biological Weapon Convention), STRIDE, 2018.
5. Mohamad Noordin N, Tan JL, Chong CK, Chem YK, Tajudin N, Abu Bakar RS, Sengol S, Phoon HYP, Che Azid NAM, **W Mohd Arifin WNA**, Aziz ZA, Hussin H, Ibrahim NS, Omar A, Ravi U, Kamarul Zaman KH, Yamin MA, Ngeow YF. Genomic diversity of SARS-CoV-2 in Malaysia. PeerJ. 2021 Nov 3;9:e12449. doi: 10.7717/peerj.12449. PMID: 34760404; PMCID: PMC8571957.
6. A measles immunoglobulin M rapid diagnostic test to address challenges with national measles surveillance and response in Malaysia (publication under review).
7. Seroprevalence Of Measles and Rubella Igg Antibodies Among National Public Health Laboratory (NPHL) Personnel: Implications for Biosafety (abstract). 2023. International Medical Research Journal. Institute for Medical Research (IMR), National Institutes of Health, Ministry of Health Malaysia (MOH).