

CURRICULUM VITAE

I. PERSONAL PARTICULARS			
Name	Dr Jahwarhar Izuan Bin Abdul Rashid		
Current Position Faculty / Department	Senior Lecturer DS 51 Department of Chemistry & Biology Centre for Defence Foundation Studies (PAP)		
Expertise	Microbiology, Chemical and Biological sensor		
II. ACADEMIC AND PROFESSIONAL QUALIFICATIONS			
(Please list all academic qualifications, from your first degree, in chronological order)			
Year	Degree	Discipline	University
2008	Bachelor of Science with Honour	Microbiology	National University of Malaysia (UKM)
2012	Master of Science	Microbiology	National University of Malaysia (UKM)
2016	Ph.D	Sensor Technology Engineering	Universiti Putra Malaysia (UPM)
III. TITLES OF POSTGRADUATE THESES WRITTEN			
No.	TITLES OF POSTGRADUATE THESES		
Master	The development of solid state fermentation (SSF) process for mannanase production using prototype bioreactor SSF.		
Ph.D	Development of DNA Electrochemical Sensor based on Silicon Nanowires/Gold nanoparticles-Modified Electrode for early detection of Dengue virus		

1.0 TEACHING

1.1 Undergraduate Courses

(Please list in chronological order and state : course title, semester and year)

No	Course Title	Semester	Year
1	Biology 3 (FQA 0432)	2	2011/2012
2	Biology laboratory (FQA 0443)	2	2011/2012
3	Biology laboratory (FQA 0462)	1,2	2012
4.	Chemistry laboratory (2012
5.	Mathematics 1 (FMA 0116)	1	2016

6.	Mathematics 2 (FMA 0126)	2	2016/2017
7.	Biology 1	1	2017/2018
8.	Biology Laboratory	1	2017/2018

2.0 RESEARCH AND PUBLICATION

2.1 Publications

2.1.1 Invited/Keynote Papers/Presentation

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Year	Title Proceeding Articles	Level
1.	2009	Jahwarhar Izuan Abdul Rashid , Noraini samat and Wan Mohtar Wan Yusoff. Optimization of medium composition for mannanase production by <i>Aspergillus terreus</i> suk-1 in solid state fermentation using statistical model. 2nd National Symposium on Fermentation Technology: 14-15 December 2009, Malacca international Trade centre (MiTC), Ayer keroh, Melaka, Malaysia: pages 36.	National presenter
2.	2010	Jahwarhar Izuan Abdul Rashid , Noraini Samat and Wan Mohtar Wan Yusoff 2010. Optimization of mannanase production by <i>Aspergillus terreus</i> <i>SUK-1</i> using palm kernel cake (PKC) under solid state fermentation (SSF) using Response surface methodology (RSM) , Fourth Saudi Science Conferences 21 -24 march 2010, Medina, Saudi Arabia: pages 82	International presenter
3.	2013	Jahwarhar Izuan Abdul Rashid , Nor Azah Yusof & Jaafar Abdullah. Preliminary studies on development of SiNWs/AuNPs-modified electrode for dengue virus detection. AsiaSense 2013, 27-29 August 2013, Ramada Plaza Hotel, Melaka, Malaysia	International presenter
4.	2013	Jahwarhar Izuan Abdul Rashid , Jaafar Abdullah & Nor Azah Yusof 2013. Development of silicon nanowires (SiNWs)/gold nanoparticles (AuNPs)-modified electrode for oligonucleotide sequence of dengue virus detection, 7th International Symposium on Nanomedicine (ISNM 2013), 7-9 November 2013, At Nakamura Centenary Hall of Kyushu Institute of Technology, Japan.	International presenter
5.	2014	Nor Azah Yusoff, Jahwarhar Izuan Abdul Rashid , Jaafar Abdullah, Uda Hashim. Development of SiNWs)/(AuNPs)-modified electrode based on electrochemical method for dengue virus detection. Sensor in Medicine 2014, 25-26 March 2014, London.	International presenter

6.	2014	Jahwarhar Izuan Abdul Rashid , Jaafar Abdullah, Uda Hashim & Nor Azah Yusof. The detection of dengue virus based on electrochemical methods utilized of SiNWs/AuNPs as sensing materials. Workshop on advanced Materials and Nanotechnology (WAMN 2014), 25-26 August 2014, Auditorium, Faculty of Engineering, Universiti Putra Malaysia. Pp 43-44.	National Presenter
7.	2014	Jahwarhar Izuan Abdul Rashid , Jaafar Abdullah, Uda Hashim & Nor Azah An electrochemical DNA sensor based on SiNWs/AuNPs modified indium tin oxide (ITO) electrode & Screen printed gold electrode (SPGE) for early detection of dengue virus. 2nd International Symposium on Applied Engineering and Sciences (SAES 2014), 20 th 21 st December 2014, Kyutech, Kitakyushu, Japan	International Presenter
8.	2016	J.I.A Rashid , A. Omar, A.A.A. Latif, K.A Karim, O.C Bakar, M.A Bakar & W.M.Z.W. Yunus. Development of Cortisol Immunosensor Based Graphene Oxide For Future Application in Monitoring Stress Levels Among Military Personnel. The 3rd international Conference on Defence an Security Technology 2016. 15th-17th August 2016, Marriot Hotel, Putrajaya Malaysia	International Presenter
9.	2017	Jahwarhar Izuan Abdul Rashid . Electrochemical DNA Sensor based silicon nanowires/gold nanoparticles modified screen printed gold electrode (SPGE) for rapid detection of dengue virus. PutraConf: Sensors in medical diagnostics 2017, 4 Jan 2017, Faculty of Engineering, Universiti Putra Malaysia	Local Invited speaker
10.	2018	Jahwarhar Izuan Abdul Rashid & Nor Azah Yusof. "Laboratory Diagnosis and potential application of biosensor approach for dengue virus infections". 3rd National Seminar on Sensor 2018, 17 March 2018 at Dewan Bahasa dan Pustaka, Kg Buku Malaysia, Jln Padang Gaong, Lubuk Semilang, 07000 Langkawi, Kedah Darul Aman.	Local Speaker

2.1.2 Book/Chapter in Book:

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No	Authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name)	Level <ul style="list-style-type: none"> • International • National • University
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1	Jahwarhar Izuan Abdul Rashid, Ahmad Farid Azmi. Laboratory Manual Biology Semester 1 session 2011/2012	University
2	Jahwarhar Izuan Abdul Rashid, Ahmad Farid Azmi. Laboratory Manual Biology Semester 2 session 2011/2012	University
3	Jahwarhar Izuan Abdul Rashid, Hidayati Hamdan & Najad Zamirah Zaki. Laboratory Manual Biology Semester 1 session 2017/2018	University
4	Jahwarhar Izuan Abdul Rashid, Hidayati Hamdan & Najad Zamirah Laboratory Manual Biology Semester 2 session 2017/2018	University

2.1.3 Journal Article

(Please list in chronological order and state: authors, year, title, publisher/journal/conference, volume and number of pages (Please bold your name))

No		Title Journal	Level
1	2011	Jahwarhar Izuan Abdul Rashid , Noraini samat and Wan Mohtar Wan Yusof (2011). Optimization of temperature, moisture content, and inoculum size in solid state fermentation to enhance mannanase Production By <i>Aspergillus terreus</i> SUK-1 Using RSM. <i>Pakistan Biological Science Journal</i> , 14: 533-539.	International
2	2012	Jahwarhar Izuan Abdul Rashid , Noraini samat and Wan Mohtar Wan Yusof (2012). Screening And Optimization of Medium Composition for Mannanase Production By <i>Aspergillus terreus</i> SUK-1 In Solid State Fermentation (SSF) Using Statistical Experimental Methods. <i>Research Journal of Microbiology</i> , 7(5): 242-255.	International
3	2013	Jahwarhar Izuan Abdul Rashid , Noraini samat and Wan Mohtar Wan Yusof (2013). Studies on Extraction of Mannanase Enzyme by <i>Aspergillus terreus</i> SUK-1 from fermented Palm Kernel Cake. <i>Pakistan Biological Science Journal</i> , 16(18) 933-938.	International
4	2013	Jahwarhar Izuan Abdul Rashid , Nur Azah Yusof, Jaafar Abdullah, Uda Hashim, Reza Hajian, (2013) The Development of Silicon Nanowire as Sensing Material and Its Applications, <i>Journal of Nanomaterials</i> , Article ID 328093	International
5	2014	Jahwarhar Izuan Abdul Rashid , Nur Azah Yusof, Jaafar Abdullah, Uda Hashim, Reza Hajian, (2014) The utilization of SiNWs/AuNPs-modified indium tin oxide (ITO) in fabrication of electrochemical DNA sensor. <i>Materials Science and Engineering: C</i> , 45, 270-276	International
6	2015	Jahwarhar Izuan Abdul Rashid , Nur Azah Yusof, Jaafar Abdullah, Uda Hashim, Reza Hajian, (2015) A novel Disposable Biosensor Based on SiNWs/AuNPs Modified-Screen Printed	International

		Electrode for Dengue Virus DNA Oligomer Detection. <i>IEEE Sensors Journal</i> , 15(8), 4420 – 4427	
7	2016	Jahwarhar Izuan Abdul Rashid , Nur Azah Yusof, Jaafar Abdullah, Uda Hashim, Reza Hajian, (2016) Surface modifications to boost sensitivities of electrochemical biosensors using gold nanoparticles/silicon nanowires and response surface methodology approach. <i>Journal of Materials Science</i> , 51(2), 1083-1097.	International
8	2017	Ainsah Omar, Jahwarhar Izuan Abd Rashid* , Azyani Athirah Abd Latif, Khairunnisa Abd Karim, Osman Che Bakar, Muhamad Abu Bakar, Wan Md Zin Wan Yunus, (2017) Development Of Cortisol Immunosensor Based Reduced Graphene Oxide (Rgo) For Future Application In Monitoring Stress Levels Among Military Personnel. <i>Defence S and T Technical Bulletin</i> 10(2):142-148 .	International
9	2017	Jahwarhar Izuan Abdul Rashid , Nur Azah Yusof (2017) The strategies of DNA immobilization and hybridization detection mechanism in the construction of electrochemical DNA sensor: A review. <i>Sensing and Bio-sensing Research</i> 16: 19-31.	International

3.0 ACADEMIC RECOGNITION AND LEADERSHIP, CONSULTANCY, SERVICE TO THE UNIVERSITY AND SERVICE TO THE COMMUNITY

(a) Academic Recognition and Leadership

Academic recognition and leadership such as Academic Award , Academic Assessor/External Examiner/Ph.D. Thesis Examiner, Master's Thesis Examiner/Promotion Assessor (External), Internal Thesis Examiner, Visiting Professor/Fellowship, Invited Speaker, Editorial Board and other academic recognition.

(Please list in chronological order and state: Academic Recognition (e.g. award name,invited speakers etc.), year, level and awarding body/ name of institution)

No	Academic Recognition	Year	Level	Awarding Body / Name of Institution
1	NATIONAL SCIENCE FELLOWSHIP (NSF) under Ministry of Science Technology and Innovation (MOSTI), Malaysia.	2008-2010	Local	KPT
2	GOLD AWARDS, Bioinno award 2010, BIOMALAYSIA 2010, 1-3 November 2010: PKC Enzymes Cocktail-	2010	International	MARS

	Enhancing Performance of Palm Kernel Cake Based Broiler Diets, Biomalaysia, KLCC, Kuala Lumpur.			
3	ITEX SILVER MEDAL, ITEX 2011, 20-22 May 2011: PKzyme enhancing performance of PKC based poultry diet, 22nd International Invention, Innovation and Technology Exhibition, KLCC, Kuala Lumpur.	2011	International	MINDS
4	BEST INVENTION MALAYSIA INNOVATIVE PRODUCT AWARD PKzyme enhancing performance of PKC based poultry diet, 22nd International Invention, Innovation and Technology Exhibition, KLCC, Kuala Lumpur, 20-22 May 2011.	2011	International	MINDS
5	POSTGRADUATE UPM GRANT AWARD (Grant Putra IPS) for research of: An electrochemical DNA sensor utilized of SiNWs/AuNPs-modified ITO and screen printed electrode for dengue virus detection (RM 15,000).	2013	Local	UPM
6	BEST PRESENTATION: The detection of dengue virus based on electrochemical methods utilized of SiNWs/AuNPs as sensing materials. Workshop on advanced Materials and Nanotechnology (WAMN 2014), 25-26 August 2014, Auditorium, Faculty of Engineering, Universiti Putra Malaysia.	2014	Local	UPM
7	BEST PAPER AWARDS: Development of Cortisol Immunosensor based Reduced Graphene Oxide (rGO) For Future Application In Monitoring Stress Levels Among Military Personnel. The Marriot Hotel, Putrajaya Malaysia. 15-17 August 2016.	2016	International	DSTC 2016
7.	SCIENCE JUDGE in Science and Math Olympiad Competition at Perak State	2016	National	GAGASAN NGO

8.	SCIENCE JUDGE in Science and Math Olympiad Competition at Johor State	2016	National	GAGASAN NGO
9.	INVITED SPEAKER: PutraConf: sensors in medical diagnostic (4 Januari 2017, ITMA, UPM)	2017	University	UPNM
10.	INTERVIEW PANEL for admission of UPNM foundation students di MK 3 BGD Kem PENRISSEN Kuching Sarawak pada 18 April 2017.	2017	Local	UPNM
11.	SILVER AWARDS In Defence Security & Sustainability Exhibition 2017 (DSS 2017)	2017	University	UPNM
12.	SILVER AWARDS In project entitle Development of a Portable Stress Biosensor for Future Military Applications 'at IIDEX 2017 25-29 SEPT 2017, UITM Malaysia	2017	International	UITM, IRMI
13.	GOLD AWARDS In project entitle 'A novel antifouling interspace for electrochemical determination of hemoglobin' at IIDEX 2017 25-29 SEPT 2017, UITM Malaysia	2017	International	UITM, IRMI
14.	SILVER AWARDS In project entitle Development of a Portable Stress Biosensor for Future Military Applications 'at International Conference and Exposition on inventions by Institutions of Higher Learning (PENCIPTA 2017), 7-9 Oktober 2017, Stadium tertutup Kompleks Sukan Negeri Gong Badak, Kuala Nerus, Terengganu, Malaysia	2017	International	Institute of Higher Learning, Unisza and UMT
15.	ANUGERAH SKIM INSENTIF HASIL PENYELIDIKAN DAN INOVASI 2016	2017	University	UPNM
16.	PENILAI KOLOKIUUM SISWAZAH (17-18 Julai 2017)	2017	University	UPNM
17.	SCIENCE JUDGE in Science and Math Olympiad Competition at Penang State	2018	National	GAGASAN NGO Penang

18.	SCIENCE JUDGE in Science and Math Olympiad Competition at Melaka State	2018	National	GAGASAN NGO Melaka
19.	PEMPAMER PAMERAN carnival Pendidikan Tinggi, 31 March – 1 April	2018	National	UPNM

EDITORIAL BOARDS

	EDITORIAL BOARD	YEAR	LEVEL	PUBLISHER
1.	EDITORIAL MEMBERS of International Journal of Biomaterials and Nanobiotechnology http://escipub.com/welcome-dr-jahwarhar-izuan-bin-abdul-rashid/	2018-presents	International	ESciPub LLC
2.	EDITORIAL MEMBERS of Global Journal of Molecular Biology http://escipub.com/welcome-dr-jahwarhar-izuan-bin-abdul-rashid-2/	2018-presents	International	ESciPub LLC
3.	EDITORIAL MEMBERS of International Multidisciplinary Research Journal http://updatepublishing.com/journal/index.php/imrj/editorial-board	2018-presents	International	TathQeef Scientific Publishing