



2019 Annual Scientific Meeting College of Pathologists Academy of Medicine of Malaysia

27-28 June 2019

Riverside Majestic Hotel, Kuching, Sarawak

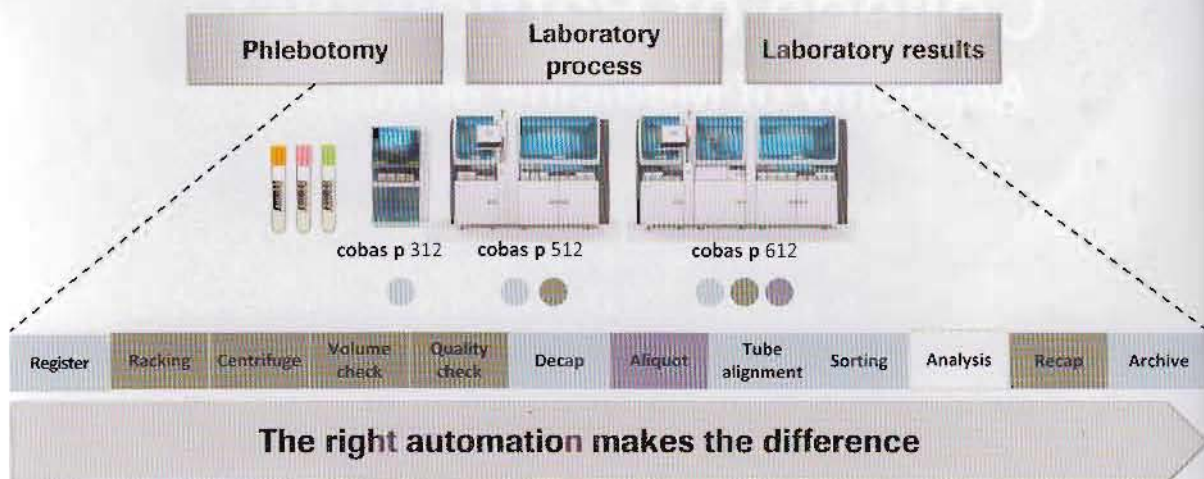
*Opportunities and Challenges
in Laboratory Medicine*

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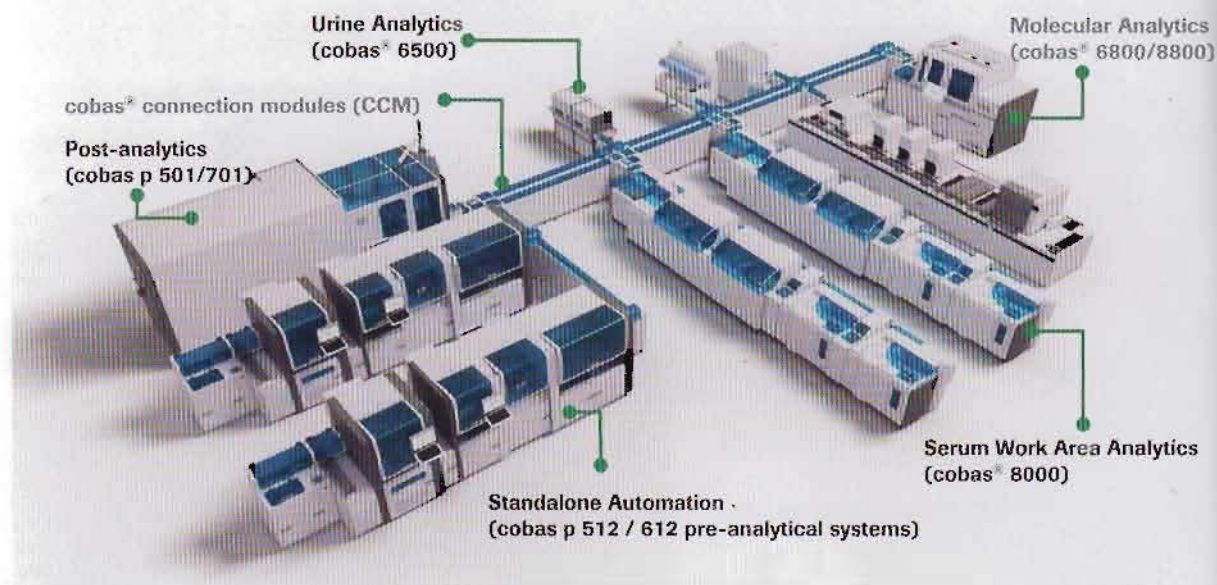


Roche Diagnostics Automation Portfolio

Standalone Automation



Connected Automation



Pusat Khidmat Maklumat Akademik
UNIVERSITI MALAYSIA SARAWAK
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P. KHIIDMAT MAKLUMAT AKADEMIK

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*With Compliments
from
Tabalan Patologi (FP&A, Viiiur)
Tabalan Patologi (Swk General Hosp. Kch)*

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Designed by:
Tay Siow-Phing
Dayanie Hashim
Haidher Ahmad

Organising Chairman's Message



Welcome to the Land of the Hornbill !

On behalf of the Organising Committee, I would like to welcome all of you to our 2019 Annual Scientific Meeting of College of Pathologists, Academy of Medicine Malaysia, which will be held on 27-28 June 2019 at Riverside Majestic Hotel, Kuching, Sarawak.

This marks the first time the meeting is held in Cat City, Sarawak.

The theme for this year's annual scientific meeting is "*Opportunities and Challenges in Laboratory Medicine*". It will highlight on the existing challenges and possible opportunities in our respected fields as well as updates on the advances and innovations in diagnostic pathology.

This meeting will provide a platform for all of us to refresh our knowledge and to directly learn from the experts on their approaches to diagnostic dilemmas. It is also an opportunity to meet up with old friends, make new networking with leading researchers and experts against the backdrop of Sarawak River.

I would like to thank our invited speakers who have kindly agreed to participate in the meeting. On behalf of the organising committee, we wish all participants to have a fruitful meeting and we look forward to seeing you in Kuching.

Prof Dr Mohammad Zulkarnaen bin Ahmad Narihan

Chairman

Organising Committee

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President's Message



On behalf of the College of Pathologists, Academy of Medicine Malaysia, I would like to welcome you to our Annual Scientific Meeting (ASM), to be held on 27th-28th June 2019 in Kuching, Sarawak.

I am certain that this year's ASM will serve as an excellent opportunity for all participants to upgrade our knowledge in different disciplines of pathology as well as addressing the challenges that we face in our laboratory medicine. I hope that the 2-day-program planned would enhance your professional development which will lead to improvement in the quality of laboratory medicine and patient care.

I would like to express my gratitude to our experienced invited speakers who have kindly agreed to spend their precious time to share their expertise with us. Last but not least, to all participants, I hope you have a fruitful and enjoyable meeting in the Land of the Hornbills.

Emeritus Professor Dr Cheong Soon-Keng

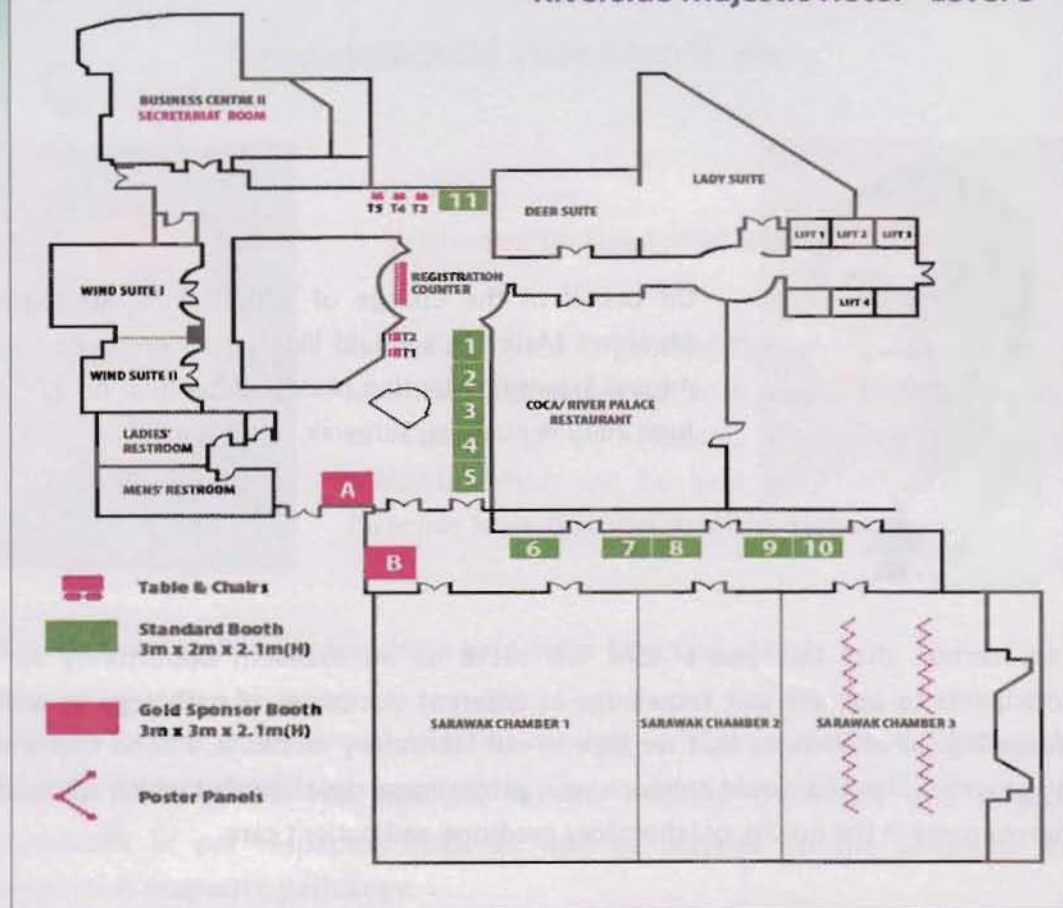
President

College of Pathologists

Academy of Medicine of Malaysia

FLOOR PLAN – VENUE & EXHIBITORS

Riverside Majestic Hotel - Level 3



Booth No.	Exhibitors	Booth No.	Exhibitors
A	Roche Diagnostics (M) Sdn Bhd	1	Abex Medical System Sdn Bhd
B	Beckman Coulter (M) Sdn Bhd	2	Novo Nordisk Pharma (M) Sdn Bhd
T1	Kelab Perubatan UNIMAS	3	Microlambda Sdn Bhd
T2	Kelab Patologi HUS	4	Biohaus Asia Sdn Bhd
T3	Kek Lapis Dayang Salhah	5	Innoniaga (M) Sdn Bhd
14	Helping Hands Penan Kuching	6	Medica Resources Sdn Bhd
15	Sarawak Convention Bureau	7	Isolab Sdn Bhd
		8	Biomarketing Services (M) Sdn Bhd
		9	Abbott Laboratories (M) Sdn Bhd
		10	Sysmex (M) Sdn Bhd
		11	Fresenius Kabi (M) Sdn Bhd

REGISTRATION & OPENING HOURS

Venue : Level 3 Foyer and Pre-Function Area

Opening Hours

27 June 2019 (Thursday) : 7.00 am - 5.00 pm

28 June 2019 (Friday) : 7.00 am - 5.00 pm

Participants, exhibitors and guests may register, make enquiries and pick up materials at the registration counter which is situated at Foyer and Pre-Function Area.

IMPORTANT VENUES

Registration	: Level 3 Foyer and Pre-Function Area (27-28 June 2019)
Plenary Sessions	: Sarawak Chamber I and II
Breakout Sessions	: Deer & Lady Suites, Wind Suites I & II
Lunch Symposia	: Sarawak Chamber I and II
Tea breaks	: Level 3 Foyer, Corridor and Pre-Function Area
Secretariat Room	: Business Centre II
Speaker Preparatory Room	: Business Centre II
Poster Presentation	: Sarawak Chamber III

CERTIFICATES OF ATTENDANCE

All registered and paid delegates will be issued the certificates of attendance. The certificates can be collected at the registration counter on the 28 June 2019.

MEALS

Lunches will be served at Coca Thai Restaurant (3rd floor) and Café Majestic (1st floor).

Tea/Coffee Breaks are provided mid-morning and in the afternoon at Level 3 Foyer and Pre-Function Area.

POSTER PRESENTATION

Participants who are presenting posters are required to mount their posters in Sarawak Chamber III from 7.00 am - 12.00 pm on 27 June 2019 (Thursday). Please ensure that posters are mounted on the correct boards. Acrylic tapes are available from the registration counter. The posters should be taken down before 4.00 pm on 28 June 2019 (Friday); any unattended posters will be discarded by the panel vendor after 4.00 pm.

BEST POSTER AWARDS

Three (3) best posters in each of the two categories (original article and case report) will be awarded certificates and cash prizes for their outstanding work. The winners will be announced at the conclusion of the meeting on 28 June 2019.

ORGANISING COMMITTEE

Advisory Board

Emeritus Professor Dr Cheong Soon-Keng
Professor Datuk Dr Ainoon Othman
Associate Professor Dr Leong Chooi-Fun

Organizing Chairperson

Professor Dr Mohammad Zulkarnaen Ahmad Narihan

Vice Chairperson

Dr Jacqueline Wong Oy-Leng

Secretary

Dr Madzlifah Ahadon

Assistant Secretary

Mohd Rozi Ramli

Treasurer

Professor Dr Dayangku Norlida Awang Ojep

Assistant Treasurer

Mohamad Sukran Kana

Trade Exhibition

Dr Stephen Chew Jink-Yang
Lau Kim Bee

IT, Audiovisual & Publicity

Dunstan Goh Seng-Chee
Azhar Abdul Aziz
Dayanie Hashim
Haidher Ahmad

Registration & Publication

Tay Siow-Phing
Norhadzline Harun
Nor Azman Haini

Protocol & Ceremony

Safarudin Pa'iee
Dzuriaty Siri-ee

Venue, Logistics & Accommodation

Amelia Mohamad
Elina Jelani
Dr Jasmine Kueh Wui-Thing

Scientific Committee

Prof Dr Henry Rantai Gudum
Tay Siow-Phing
Dr Adam Malik Ismail
Dr James Lee Jia-Haur
Dr Khamisah Mohd Gaus
Dr Lim Say-Min
Dr Mohammad Masrin Md Zahrin
Dr Mohd Hafiz Rizan
Dr Nor Anisa Md Radzi
Dr Noraini Mohamad
Dr Norliza Ibrahim
Dr Nur Aini Abu Bakar
Dr Siti Fazilah Situ
Dr Thien Jun-Jun

GROUP PHOTO - ORGANISING COMMITTEE



Members (standing from left to right)

Tay Siow-Phing, Dr Siti Fazilah Situ, Norhadzline Harun, Dr Nor Anisa Md Radzi, Dr Noraini Mohamad, Dr James Lee Jia-Haur, Dr Lim Say-Min, Dr Mohd Hafiz Rizan, Dr Thien Jun-Jun, Dr Jasmine Kueh Wui-Thing, Dr Nur Aini Abu Bakar

Members (sitting from left to right)

Dr Khamisah Mohd Gaus, Prof Dr Henry Rantai Gudum, Prof Dr Mohammad Zulkarnaen Ahmad Narihan, Dr Jacqueline Wong Oy-Leng, Dr Madzlifah Ahadon, Prof Dr Dayangku Norlida Awang Ojep, Dr Mohammad Masrin Md Zahrin

Other Members

Lau Kim-Bee, Dr Stephen Chew Jink-Yang, Dr Adam Malik Ismail, Dr Norliza Ibrahim, Mohd Rozi Ramli, Mohamad Sukran Kana, Dunstan Goh Seng-Chee, Azhar Abdul Aziz, Dayanie Hashim, Haidher Ahmad, Nor Azman Haini, Safarudin Pa'iee, Dzuriaty Siri-ee, Amelia Mohamad, Elina Jelani

SCIENTIFIC PROGRAMME

Day 1 : 27 June 2019 (Thursday)

0745-0845	Registration		
0845-0900	Welcoming Address & Opening Ceremony		
0900-0940	K Prathap Memorial Lecture Opportunities and Challenges for Laboratory Professional in Patient Safety <i>Speaker: Dato' Dr Yasmin Ayob (National Heart Institute)</i> <i>Chairperson: Prof Dr Mohammad Zulkarnaen Ahmad Narihan</i> <i>Sarawak Chamber I</i>		
0940-1020	Group Photo Session & Tea Break		
1020-1100	Plenary 1 Challenges in Diagnosis of Monoclonal Gammopathy <i>Speaker: AP Dr Pawai Sthaneshwar (University Malaya Medical Centre)</i> <i>Chairperson: Dr Lim Say-Min</i> <i>Sarawak Chamber I</i>		
1100-1140	Plenary 2 Challenges in Rabies Diagnosis : The Sarawak Experience <i>Speaker: Dr Chua Hock-Hin (Sarawak General Hospital)</i> <i>Chairperson: Dr Siti Fazilah Situ</i> <i>Sarawak Chamber I</i>		
1140-1220	Lunch Symposium Roche Healthcare Consulting [by Roche Diagnostics] <i>Speaker: Mr Mah Sam-Yew (Consulting Team Manager, Lab Workflow Solution, Roche APAC)</i> <i>Chairperson: Prof Dr Mohammad Zulkarnaen Ahmad Narihan</i> <i>Sarawak Chamber I</i>		
1220-1400	Lunch Break		
	Symposium 1A <i>Wind Suites I & II</i> Anatomical Pathology Forensic Medicine <i>CP : Dr Adam Malik Ismail</i>	Symposium 1B <i>Sarawak Chamber I</i> Haematology Transfusion Medicine <i>CP : Dr Khamisah Mohd Gaus</i>	Symposium 1C <i>Deer & Lady Suites</i> Chemical Pathology Microbiology/Immunology <i>CP : Dr Thien Jun-Jun</i>
1400-1440	Approach to Soft Tissue Tumours with Myxoid Stroma <i>Dr Noraini Mohd Dusa (Hospital Kuala Lumpur)</i>	Opportunities and Challenges in Haemostatic Tests <i>Prof Dr Wan Zaidah Abdullah (Universiti Sains Malaysia)</i>	Standardised Reporting of Serum Protein Electrophoresis <i>AP Dr Pawai Sthaneshwar (UMMC)</i>
1440-1520	Pitfalls in Diagnosis of Soft Tissue Tumours <i>Dr Noraini Mohd Dusa (Hospital Kuala Lumpur)</i>	Red Cell Membrane Disorder: Challenges in Diagnosis <i>Prof Dr Narazah Mohd Yusoff (Universiti Sains Malaysia)</i>	Updates in Biochemical Lipid Testing <i>AP Dr Subashini C Thambiah (Universiti Putra Malaysia)</i>
1520-1600	Elusive Causes of Death: Pinning our Hopes on Laboratory Examination <i>Dr Razuin Rahimi (UiTM)</i>	Approach in Managing Thalassaemia from Transfusion Service Perspective <i>Dr Nor Hafizah Ahmad (National Blood Centre)</i>	Candida auris Infection: Emerging Fungal Disease <i>AP Dr Tzar Mohd Nizam Khaithir (UKMMC)</i>
1600-1630	Tea Break		
1700-1900	20 th AGM of College of Pathologists, AMM		
1930-2200	Faculty Dinner (by Invitation)		

Day 2 : 28 June 2019 (Friday)

<div>Plenary 3</div>			
0800-0840	<div>Challenges in Diagnosis of Pigmented Lesions</div> <div>Speaker: Prof Dr Richard Scolyer (Melanoma Institute Australia) – invited RCPA speaker.</div> <div>Chairperson: Dr Jacqueline Wong Oy-Leng</div> <div>Sarawak Chamber I</div>		
<div>Plenary 4</div>			
0840-0920	<div>Blood Transfusion Service : Achievements and Challenges</div> <div>Speaker: Dr Noryati Abu Amin (National Blood Centre)</div> <div>Chairperson : Dr Jacqueline Wong Oy-Leng</div> <div>Sarawak Chamber I</div>		
0920-0940	<div>Tea Break</div>		
	<div>Symposium 2A</div> <div>Wind Suites I & II</div> <div>Anatomical Pathology</div> <div>Forensic Medicine</div> <div>CP : Dr Noraini Mohamad</div>	<div>Symposium 2B</div> <div>Sarawak Chamber I</div> <div>Haematology</div> <div>Transfusion Medicine</div> <div>CP : Dr Masrin Md Zahrin</div>	<div>Symposium 2C</div> <div>Deer & Lady Suites</div> <div>Chemical Pathology</div> <div>Microbiology/Immunology</div> <div>CP : Dr Lim Say-Min</div>
0940-1020	<div>Approach to Inflammatory Skin Disorder</div> <div>Dr Ikmal Hisyam Bakrin</div> <div>(Universiti Putra Malaysia)</div>	<div>Journey to Good Manufacturing Practice</div> <div>Dr Noryati Abu Amin</div> <div>(National Blood Centre)</div>	<div>Tumour Markers: Applications and Abuses</div> <div>Dr Leslie Charles Lai</div> <div>(Gleneagles Hospital)</div>
1020-1100	<div>Melanoma vs. Naevus: Strategies for Difficult Decision</div> <div>Prof Dr Richard Scolyer</div> <div>(Melanoma Institute Australia)</div>	<div>Genomic Profiling in Acute Leukaemias</div> <div>Dr Zubaidah Zakaria</div> <div>(Institute Medical Research)</div>	<div>Designing and Evaluating Auto-Verification Rules for Chemical Pathology Tests</div> <div>Dr Mohd Jamsani Mat Salleh</div> <div>(Hospital Pulau Pinang)</div>
1100-1140	<div>Evolving Concepts and Hot Topics in Melanoma</div> <div>Professor Dr Richard Scolyer</div> <div>(Melanoma Institute Australia)</div>	<div>Immunophenotyping in Acute Leukaemias: Challenges and Issues</div> <div>Dr Lee Shir-Ying</div> <div>(National University Hospital, Singapore)</div>	<div>Epidemiology of Plasmodium knowlesi: Need for a New Rapid Diagnostic Tool?</div> <div>Prof Dr Balbir Singh</div> <div>(Universiti Malaysia Sarawak)</div>
1140-1220	<div>Forensic Entomology in Malaysia: Opportunities for Service Expansion</div> <div>Dr Heo Chong-Chin (UITM)</div>	<div>Multiple Myeloma Diagnosis: Challenges and Issues</div> <div>Dr Lau Lee-Gong</div> <div>(Borneo Medical Centre Kuching)</div>	<div>Introduction to Transplant Immunology</div> <div>Dr Masita Arip</div> <div>(Institute Medical Research)</div>
1220-1300	<div>Lunch Symposium</div> <div>Opportunities and Challenges in High Sensitive Troponin [by Beckman Coulter]</div> <div>Speaker: AP Dr Robert Charles William Hawkins (Tan Tock Seng Hospital, Singapore)</div> <div>Chairperson: Prof Dr Henry Rantai Gudum</div> <div>Sarawak Chamber I</div>		
1300-1420	<div>Lunch Break</div>		
	<div>Symposium 3A</div> <div>Sarawak Chamber I</div> <div>Anatomical Pathology & Haematology</div> <div>CP : Dr Madzlifah Ahadon</div>	<div>Symposium 3B</div> <div>Deer & Lady Suites</div> <div>Chemical Pathology & Microbiology</div> <div>CP : Dr Nor Anisa Md Radzi</div>	
1420-1500	<div>Pitfalls in Inflammatory Dermatopathology</div> <div>Dr Lee Bang-Rom (Pantai Premier Hospital)</div>	<div>Updates in Laboratory Testing for Diabetes</div> <div>Dr Leslie Charles Lai (Gleneagles Hospital)</div>	
1500-1540	<div>Myeloproliferative Neoplasm Diagnosis: Challenges and Issues</div> <div>Dr Lee Shir-Ying</div> <div>(National University Hospital, Singapore)</div>	<div>Challenges in Ensuring Quality Performance in Microbiological Laboratory in the Context of ISO 15189</div> <div>Mr Alex Francis (Standards Malaysia)</div>	
1540-1700	<div>Prize Giving & Closing Ceremony</div>		

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SPEAKER PROFILE



Mr. Alex Francis

Standards Malaysia, Kuala Lumpur, Malaysia

Mr. Alex Francis is retired Senior Microbiologist formerly from Hospital Raja Permaisuri Bainun, Ipoh, Perak. He has 34 years of laboratory experience in Medical Microbiology. He completed his degree in microbiology from University of Malaya in 1983. In 1990 he did his diploma in Med Micro from Seomeo Tropmed. In 2004, he completed his masters in Medical Microbiology from Universiti Sains Malaysia. He was sent for a fellowship in medical mycology to Australia in 2006. He is known for his development of Francis media which is used for the diagnosis of melioidosis which won him the 2006 Civil service innovation award. Mr. Alex has been involved with Quality Management System specifically ISO 15189 for the past 16 years. He was trained by NATA (National Association of Testing Authority, Australia) and Department of Standard Malaysia. Currently, he is a technical assessor in Medical Microbiology and lead assessor for ISO15189 for Department of Standards Malaysia. He has recently been appointed as Internal Auditor for Department of Standards Malaysia.



Professor Dr. Balbir Singh

Malaria Research Centre, Universiti Malaysia Sarawak (UNIMAS), Kota Samarahan, Sarawak, Malaysia

Professor Dr. Balbir Singh is the founding director of the Malaria Research Centre, Universiti Malaysia Sarawak (UNIMAS). He obtained his BSc, MSc and PhD degrees from the University of Liverpool (1976-1984). He worked as a Postdoc and as a Beit Medical Fellow on falciparum malaria at the Liverpool School of Tropical Medicine for 7 years. He joined Universiti Sains Malaysia in 1992 and moved to UNIMAS seven years later. His research team has made several key discoveries indicating that knowlesi malaria is a significant, life-threatening zoonotic disease in Southeast Asia. His research has been funded by local and international funding agencies, including the Wellcome Trust, UK. He has published in leading journals, including The Lancet and his work has been cited 4,000 times with an h-index of 32. He is a recipient of the Merdeka Award (2017), is a Fellow of the Academy of Sciences Malaysia, was one of the recipients of the Top Research Scientists Malaysia 2012 Award, and was an advisor to the World Health Organisation on two occasions (2012 and 2017).



Dr. Chua Hock-Hin

Sarawak General Hospital (SGH), Kuching, Sarawak, Malaysia

Dr. Chua Hock-Hin is the Sarawak State Infectious Disease Physician based at the Infectious Disease Unit of the Sarawak General Hospital, Kuching. He graduated with a MD from the National University of Malaysia in 1998 and obtained his MRCP (UK) in 2003. He underwent postgraduate training in infectious disease in 2009. He had served in several Ministry of Health hospitals prior to his present appointment. He has presented in many scientific conferences and has several journal publications. He has contributed to several chapters of the "Sarawak Handbook of Medical Emergencies", which is a widely all over Malaysia. He has been an adjunct lecturer at the Faculty of Medicine and Health Sciences, Universiti Malaysia Sarawak. He is actively involved in clinical trials and currently the Principal Investigator in two ongoing clinical trials in the areas of infectious diseases.



Dr. Heo Chong-Chin

Universiti Teknologi MARA (UiTM), Sungai Buloh, Selangor, Malaysia

Dr. Heo Chong-Chin was born in Kuantan, Pahang. He obtained his Bachelor in Biomedical Sciences (Hons.) (2006) and Master in Medical Science (Parasitology) (2009) from the National University of Malaysia. He then earned his PhD from the Department of Entomology, Texas A&M University in 2016. He is currently a Senior Lecturer at the Faculty of Medicine, Universiti Teknologi MARA, Malaysia. Prior to that, he was a research officer at the Institute for Medical Research, Kuala Lumpur. His research interests are carrion decomposition ecology, biodiversity of necrophagous and coprophagous dipteran species, and forensic entomology/acarology. As of 2018, he has published 46 peer-reviewed journal articles, one book and one book chapter. He delivered more than 70 platforms and poster presentations at local and international conferences. He received the Nadchatram Medal from the Malaysian Society of Parasitology and Tropical Medicine (MSPTM) in 2018, the John Henry Comstock Graduate Student Award from the Entomological Society of America at Denver, Colorado (2017), Perdana Scholar Award from the Malaysian Embassy at Washington DC (2016); the Vice President Award for Research Excellent from Texas A&M University (2015); and a scholarship from Medical, Urban, and Veterinary Entomology section, Entomological Society of America during the 2015 ESA Conference at Minneapolis. Additionally, Chong Chin is a Board-Certified Entomologist (BCE) since 2016. Currently, he is the Honorary Secretary for the Malaysian Society of Parasitology and Tropical Medicine, member of the North American Forensic Entomology Association (NAFEA) and European Association for Forensic Entomology (EAPE).



Dr. Ikmal Hisyam Bakrin

Universiti Putra Malaysia (UPM), Serdang, Selangor, Malaysia

Dr. Ikmal Hisyam Bakrin is a Histopathologist and Medical Lecturer at the Department of Pathology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia. He graduated from Universiti Kebangsaan Malaysia with a MD in 2005 and subsequently obtained his Master of Pathology also from Universiti Sains Malaysia in 2014. He was a Visiting Fellow in Dermatopathology at St. John's Institute of Dermatology, Department of Dermatopathology, Guy's and St. Thomas' NHS Foundation Trust, London, UK from July 2018 till January 2019. He has several conference presentations and journal publications. His current research includes potential prognostic immunohistochemistry markers in prostate cancer, gene expression profiling and mutation screening of RAD51, XRCC3 and XRCC2 genes in prostate cancer.



Dr. Lee Bang-Rom

Universiti Putra Malaysia (UPM), Serdang, Selangor, Malaysia

Dr. Lee Bang-Rom is currently a Lecturer and Histopathologist at the Department of Pathology, Faculty of Medicine and Health Sciences, Universiti Putra Malaysia. He obtained his MBBS from University of Malaya in 1999 and Master of Pathology from Universiti Kebangsaan Malaysia in 2007. He also obtained a Diploma in Dermatology from the National University of Singapore in 2011. He had served in various Ministry of Health hospitals before joining UPM. He has published several journal articles and his research interest includes breast cancer and endometrial cancer research.



Dr. Lau Lee-Gong

Borneo Medical Centre (BMC), Kuching, Sarawak, Malaysia

Dr. Lau Lee-Gong is currently the Consultant Haematologist at the Borneo Medical Centre, Kuching, Sarawak. He graduated with MBBS from the University of Malaya in 1992 and obtained his MRCP (UK) membership in 1997. He was a clinical specialist in the Department of Medicine at the Sarawak General Hospital, Kuching, before he left for further training in haematology at the National University Hospital in Singapore in 1999. He completed his training in 2003 and became an Associate Consultant at the Department of Haematology-Oncology at the National University Hospital, Singapore. He was also then the attending staff haematologist at the John's Hopkins-NUH Medical Centre from 2003-2005. Upon returning to Kuching in 2005, he first worked in Normah Medical Specialist Centre as a Consultant Haematologist before taking up his current appointment at Borneo Medical Centre in 2015. He was formerly an adjunct lecturer at the National University of Singapore and now an adjunct lecturer at the Faculty of Medicine and Health Sciences, Universiti Malaysia Sarawak. His special interests are in the area of haematological malignancies and flow cytometry.



Dr. Lee Shir-Ying

National University Hospital (NUH), Singapore

Dr. Lee Shir-Ying currently holds several positions; 1) Senior Consultant Haematologist, Department of Laboratory Medicine, National University Hospital, Singapore, 2) Senior Consultant, Department of Haematology-Oncology, National University Cancer Institute Singapore and 3) Assistant Professor, Department of Medicine, Yong Loo Lin School of Medicine (YLLSOM), National University of Singapore. She obtained her MBBS from National University of Singapore in 2002 and MRCP (UK) in 2006. She was conferred FRCPATH (UK) in 2012. She has published several journal articles and many abstracts.



Dr. Leslie Charles Lai Chin-Loy

Gleneagles Hospital, Kuala Lumpur, Malaysia

Dr. Leslie Lai was Lecturer and Honorary Senior Registrar in the Unit of Metabolic Medicine at St Mary's Hospital Medical School, Imperial College School of Medicine in London from January 1986 till September 1990. He then moved up to Newcastle upon Tyne as Senior Lecturer and Consultant in Clinical Biochemistry and Metabolic Medicine at the University of Newcastle upon Tyne, a position he held from October 1990 till December 1996. He returned to Malaysia at the end of 1996 to take up the position of Professor of Clinical Biochemistry and Metabolic Medicine, and Deputy Dean of Academic Affairs at Universiti Putra Malaysia. In August 2001, he moved to the International Medical University in Kuala Lumpur to take up the newly established post of Dean of the Postgraduate Medical School, a position he held till February 2004. Dr Leslie Lai currently practices at Gleneagles Hospital in Kuala Lumpur as a Consultant in Metabolic Medicine and is the Laboratory Director of Pantai Premier Pathology, Gleneagles Branch. He was President of the Asia-Pacific Federation for Clinical Biochemistry and Laboratory Medicine from 2010 till 2016, and is currently Chair of the International Federation for Clinical Chemistry Education and Management Division Executive Committee. Dr. Leslie Lai is the Associate Editor of the *Malaysian Journal of Pathology* and was the Associate Editor of *Clinical Biochemistry* from 2008 till 2018. He is also a member of the Editorial Board of 6 other scientific journals. He is the Chair of the MACB Chronic Kidney Disease Task Force.



Mr Mah Sam-Yew

Roche Diagnostics Malaysia, Kuala Lumpur, Malaysia

Mr. Mah Sam-Yew joined Roche Diagnostics Asia Pacific Regional team in June 2008 and currently holding the position of Consulting Team Manager, leading a team of Lean Six Sigma Black Belt & Green Belt Practitioners responsible for supporting 16 countries in Asia Pacific in their Laboratory Integration projects with key accounts through laboratory workflow assessment, consultancy and customizing solutions that fit the laboratory's needs and goals. Prior to joining the Asia Pacific Regional team, Sam joined Roche Diagnostics Malaysia in June 2003. In the five years with the organization, he held multiple positions with increasing responsibility for the marketing, product and project management of Lab IT and Workflow Solutions including installation, training and providing technical support.



Dr. Masita Arip

Institute for Medical Research (IMR), Kuala Lumpur, Malaysia

Dr. Masita Arip obtained her Medical Degree (MD) from National University of Malaysia (UKM) in 1999, and completed her Master of Pathology (Microbiology & Immunology) from UKM in 2008. She currently holds the position as Head of Allergy & Immunology Research Centre (AIRC) in Institute for Medical Research (IMR), Kuala Lumpur. Dr. Masita involved in more than 25 research projects focusing on allergy, autoimmune, transplantation immunology and tropical diseases. She has published more than 25 original articles and proceedings in different type of journals. She had more than 70 oral and posters research presentations in national and international meetings. Dr Masita is the first Head of Autoimmune Unit where she introducing more than 15 specialized diagnostic tests for autoimmune diseases. She provide consultations on various specialized diagnostic services available in each unit under AIRC ie. Autoimmune Unit; Allergy Unit; Primary Immunodeficiency Unit and Transplantation Immunology Unit. She also responsible in setting up Malaysian Stem Cell Registry (MSCR) in year 2000 which is a database for healthy Malaysian volunteers who can donate blood stem cells to patients with blood disorders. In terms of Transplantation Immunology areas, she actively involved in National Stem Cells Coordinating Centre, National Coordinating Centre for Kidney Transplant, National Technical Committee for Transplantation and National Committee in Guidelines for Stem Cell Therapy.



Dr. Mohd Jamsani Mat Salleh

Penang Hospital, George Town, Penang, Malaysia

Dr. Mohd Jamsani Mat Salleh is a Chemical Pathologist at the Penang Hospital, George Town, Penang. He is currently Head of the Chemical Pathology Unit as well as Head of Chemical Pathology Discipline, Penang. He graduated with a MD from Universiti Sains Malaysia in 2003 and then obtained Master of Pathology (Chemical Pathology) also from USM in 2011. He is a member of several national professional committees and has been an invited speaker at national and international levels.



Dr. Nor Hafizah Ahmad

National Blood Centre (PDN), Kuala Lumpur, Malaysia

Dr. Nor Hafizah Ahmad is a Transfusion Medicine Specialist who is currently the Head of Clinical Transfusion Division in National Blood Centre, Kuala Lumpur. She graduated from Universiti Sains Malaysia (USM) in 2004 and completed her specialist training in M.Med Transfusion Medicine in year 2013 from Advanced Medical Dental Institute, USM. She is an active member of Malaysian Blood Society of Transfusion and her special interest is in the field of Immunohematology and Clinical Transfusion. She had also been invited as speaker in various conferences in local and national level. In the year of 2018 she had the opportunity to undergone a short attachment in International Blood Group Reference Laboratory under NHS Blood and Transplant, Bristol, United Kingdom.



Professor Dr. Narazah Mohd Yusoff

Advanced Medical and Dental Institute (AMD), Universiti Sains Malaysia (USM), Bertam, Penang, Malaysia

Professor Dr. Narazah Mohd Yusoff is a Senior Consultant Haematopathologist and Medical lecturer at Advanced Medical and Dental Institute (AMD), Universiti Sains Malaysia (USM) Bertam, Penang, Malaysia. She graduated with MBBS from University of Malaya in 1986. She obtained Diploma in Clinical Pathology from the University of London, UK in 1991 and M. Med Science (Haematology) also from University of London, UK in 1994. She subsequently obtained her PhD from Kobe University Graduate School of Medicine, Kobe, Japan in 2003. Prior to this, she had held various positions including 1) Consultant Haematopathologist and Medical Lecturer in School of Medical Science, USM, Kelantan (1994-2003), 2) Head of Haematology Department, School of Medical Science, USM, Kelantan (1997-2000), 3) Research Fellow in Kobe Graduate School of Medicine, Kobe, Japan (1999-2003), 4) Director Human Genome Center, School of Medical Science, USM, Kelantan (2000-2003) and 5) Deputy Director Clinical Services, AMDI 2005-2011. Her research interests are in the areas of Oncogenic fusion genes, Molecular haematology, Clinical transfusion and Regenerative medicine. She has published more than 100 articles in local and international journals.



Dr. Noraini Mohd Dusa

Hospital Kuala Lumpur (HKL), Kuala Lumpur, Malaysia

Dr. Noraini Mohd Dusa is a consultant pathologist at the Department of Pathology, Hospital Kuala Lumpur. She obtained her MD from Universiti Kebangsaan Malaysia (UKM) in 1992 and Master of Pathology also from UKM in 2001. She underwent further training in Osteoarticular Pathology at the University of Manchester, UK and in Bone and Soft Tissue Pathology at the Royal Orthopaedic Hospital, Birmingham, UK in 2007. She has been an invited speaker in the field of Bone and Soft Tissue Pathology to Ministry of Health Hospitals, Local Universities, Malaysian Orthopedic Association, Asian Pacific Musculoskeletal Society, International Anatomic Pathology – Malaysian Division and College of Pathology, Academy of Medicine Malaysia. She has published several journal articles and her research interests are in the area of soft tissue tumours.



Dr. Noryati Abu Amin

National Blood Centre (PDN), Kuala Lumpur, Malaysia

Dr. Noryati Abu Amin is currently serving as the Director, Pusat Darah Negara (PDN), Kuala Lumpur and the Head of Service for Transfusion Medicine, Ministry of Health of Malaysia. She received her undergraduate training in RCSI, Dublin, Ireland from 1987 to 1993 and completed her post graduate training as a Haematopathologist in Hospital University Sains Malaysia, Kubang Kerian in 2000. She has since worked in the field of Transfusion Medicine and Haematology including over eleven years of experience as a Medical Officer in the Blood Transfusion Safety team in World Health Organization, Geneva. Dr. Noryati Abu Amin has been involved in the development of policies, standards, guidelines, advocacy and training materials for blood transfusion safety and in the provision of technical support in several countries for national blood system strengthening while in WHO. Her main interest is in ensuring equitable and timely access to affordable, safe and effective blood products while ensuring the quality of care for patients, blood donors and health-care workers throughout the transfusion chain. Other key areas of interest include patient safety; health in emergency and disaster situation; and impact of globalization on plasma-derived medicinal products and other therapeutic substance of human origin.



Associate Professor Dr. Pavai Sthaneshwar

University of Malaya (UM), Kuala Lumpur, Malaysia

Associate Professor Dr. Pavai Sthaneshwar is an Associate Professor at the Department of Pathology, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia. He obtained a B.Sc. (Chemistry) from Madras University, India in 1982, graduated with a MBBS (Madras University) in 1988 and subsequently obtained MD (Dr MGR Medical University Madras, India) in 1993. He is a member/affiliate of several professional associations nationally and internationally. He has been the Academic person in-charge of Chemical Pathology, Division of Laboratory Medicine, Department of Pathology, Faculty of Medicine (1 May 2014 to 31 May 2015). He is also the MPath (Part II) Coordinator. He has published several journal articles.



Dr. Razuin Rahimi

Universiti Teknologi MARA (UiTM), Sungai Buloh, Selangor, Malaysia

Dr. Razuin Rahimi is a Senior Lecturer & Consultant Forensic Pathologist at the Faculty of Medicine, Universiti Teknologi MARA (UiTM), Sungai Buloh, Selangor, Malaysia. She graduated with MD degree from Universitas Sumatera Utara, Medan, Indonesia in 2003 and obtained her Masters of Pathology (Forensic) from University of Malaya in 2010. She is also currently the Head of Discipline, Forensic Medicine UiTM and the Forensic Clinical Coordinator for PPPUiTM. She has published many journal articles and has completed several research projects. Her main research interests are in road traffic accidents and paediatric pathology.



Professor Dr. Richard Scolyer

Melanoma Institute Australia, Australia

Professor Dr. Richard Scolyer currently holds several positions : 1) Co-Medical Director, Melanoma Institute Australia, 2) Senior Staff Specialist, Tissue Pathology and Diagnostic Oncology, Royal Prince Alfred Hospital, 3) Clinical Professor, The University of Sydney Central Clinical School, 4) Vice Chair, Melanoma Expert Panel, American Joint Committee on Cancer Staging System, 8th, and 5) Edition Editor, World Health Organisation Classification of Skin Tumours, 4th Edition. He is acknowledged internationally as an expert/key-opinion leader in melanoma/translational research who focuses on melanoma clinical/pathological diagnosis and treatment, biology of melanoma pathogenesis and response vs. resistance to novel drug therapies. He is staff specialist at a major teaching hospital & provides pathology service to Melanoma Institute Australia (MIA) (world's largest melanoma treatment centre) & a clinical consultation service for pathological diagnosis of difficult pigmented lesions (>2000 cases p.a. from throughout world). Professor Richard Scolyer is widely regarded as the point of reference for diagnosis of difficult pigmented lesions in Australasian region & beyond. He effectively integrates his clinical practice with leading award winning translational melanoma research laboratory. According to Thomson Reuters ISI Web of Knowledge, his highest ever published scientist in world in melanoma pathology and highest H index in this field. In Feb 2019, he was ranked world's 10th leading melanoma expert in any field/discipline & world's leading melanoma pathologist (<http://expertscape.com/ex/melanoma>). His record includes co-authoring more than 500 publications including in prestigious journals such as New England Journal of Medicine, Lancet, Nature, Cell, Nature Genetics, Cancer Cell, Lancet Oncology, Journal of Clinical Oncology, Journal of the National Cancer Institute and Cancer Discovery. He has presented on more than 300 occasions at conferences throughout the world. He received a NSW Premier's Award for Outstanding Cancer Research in 2009, 2012, 2013, 2014, 2016, 2017 and 2018, Thomson Reuters 2015 Citation Award in the Clinical Medicine category and the 2018 William O. Russell/Joanne Vandenberg Hill Award for Lifetime Achievement in Anatomical Pathology, MD Anderson Cancer Center and the Research Australia's 2018 GSK Award for Research Excellence. His publications have received most highly cited awards on 5 other occasions. He is editor of the 4th Edition of the World Health Organisation Classification of Tumours Skin Tumours volume (released in 2018), Vice Chair of the Melanoma Expert Panel of the American Joint Committee on Cancer (AJCC) for the 8th edition of AJCC Cancer Staging System, co-leads the Australian Melanoma Genome Project (part of the International Cancer Genome Consortium) (Nature 2108), was lead pathologist for the NIH funded The Cancer Genome Atlas (TCGA) Melanoma Project (Cell, 2015), chairs the Melanoma Expert Panel for the International Collaboration on Cancer Reporting, and lead pathologist/member of the overseeing Management Committee, Multidisciplinary Working Party and Author for the Australian Melanoma Clinical Practice Guidelines and was lead author of the College of American Pathologists Melanoma Reporting protocol.



Associate Professor Dr. Robert Charles William Hawkins

Tan Tock Seng Hospital, Singapore

Associate Professor Dr. Robert Hawkins is a Senior Consultant Chemical Pathologist at the Tan Tock Seng Hospital, Singapore. He is also an Adjunct Associate Professor at Lee Kong Chian, School of Medicine, Nanyang Technological University, Singapore. He graduated with a MBChB from Auckland University, New Zealand in 1986 and obtained his FRCPA (Chem Path) in 1992. He was conferred MD from Auckland University in 2011 and FFSc (RCPA) in 2012. He had been Consultant Chemical Pathologist at South Auckland Health, New Zealand (1993-1996) and Consultant Chemical Pathologist at Gribbles Pathology, Malaysia (1997). He has been involved in both undergraduate and postgraduate education. He is a member of many professional committees and societies. He has won several prizes including the Silver medal (Best Clinical Research Poster) at 2013 Singapore Health and Biomedical Congress for 'Prevalence of dilutional hyponatraemia in inpatients and outpatients in Singapore' and Gold medal (Best Allied Health Research Poster) at 2014 Singapore Health and Biomedical Congress for 'Prevalence of transferrin variants in Singapore'. He has published more than 60 scientific articles, reviews and numerous abstracts.



Associate Professor Dr. Subashini C. Thambiah

Universiti Putra Malaysia (UPM), Serdang, Selangor, Malaysia

Associate Professor Dr. Subashini C. Thambiah is an Associate Professor and Consultant Chemical Pathologist at the Department of Pathology, Faculty of Medicine and Health Sciences, University Putra Malaysia (UPM), where she has served since 2004. Prior to this appointment, she was a medical officer at the Ministry of Health Malaysia for 5 years. She obtained her MBBS from the University of Western Australia in 1999 and Master of Pathology (Chemical Pathology) from Universiti Kebangsaan Malaysia in 2009. In 2011, she completed her fellowship in Metabolic Medicine at Guys' & St. Thomas' Hospital, London, UK under the supervision of Prof. Dr. R. Swaminathan, Prof. Dr. Anthony Wierzbicki, Prof. Dr. Martin Crook and Dr. Geeta Hampson. She is registered with the National Specialist Register under Chemical Pathology (Metabolic Medicine). She is actively involved in academic teaching, scientific research, laboratory and clinical services. Her thrust areas of interest include lipid disorders and metabolic bone disorders. She is a member of the Malaysian Association of Clinical Biochemists and is currently the Secretary of the College of Pathologists, Academy of Medicine of Malaysia. Dr. Subashini is also an active member of the Malaysian Osteoporosis Society, Malaysian Society of Atherosclerosis and also a member of the Asian-Pacific Society of Atherosclerosis and Vascular Disease. She is appointed by Standards Malaysia as a qualified assessor for SAMM Accreditation Process and Assessment for MS ISO 15189. She is currently offering clinical service at Hospital Serdang and Hospital Pengajar UPM and is a visiting consultant at Clinipath (M) Sdn. Bhd. and Hospital Pusrawi Sdn. Bhd.



Associate Professor Dr. Tzar Mohd Nizam Khaithir

Universiti Kebangsaan Malaysia (UKM), Cheras, Kuala Lumpur, Malaysia

Associate Professor Dr. Tzar Mohd Nizam Bin Khaithir is an Associate Professor at the Department of Medical Microbiology and Immunology. He obtained his medical degree (LRCP, MBBCh, BAO (IRE)) from the Royal College Surgeon, Ireland in 1999 and subsequently DrPath (Med. Microb) from UKM in 2007. He is involved in teaching several undergraduate courses as well as supervision of postgraduate students. He has presented in many conferences and has published several journal articles. He has held several administrative positions, including Head of Department (from 2015-2018).



Professor Dr. Wan Zaidah Abdullah

Universiti Sains Malaysia (USM), Kubang Kerian, Kelantan

Professor Dr. Wan Zaidah is a lecturer/haematologist since 2001 at the Haematology Department and Transfusion Medicine Unit, School of Medical Sciences Universiti Sains Malaysia (USM) and Hospital USM, Kubang Kerian, Kelantan. She has been actively involved in haemostasis and thrombosis including teachings and providing diagnostic services in this area. In addition to her clinical laboratory services and academic duties, she has been a researcher dedicated to furthering the understanding of haemostasis particularly in laboratory diagnosis and drug monitoring that can give impact to the patient care. She is currently Head of Coagulation laboratory section, Laboratory Director for ISO 15189 Haematology and Transfusion Medicine laboratories in the same institution, and Committee Member of College of Pathologists, Academy of Medicine Malaysia.



Dato' Dr Yasmin Ayob

National Blood Centre (PDN) & National Heart Institute (IJN), Kuala Lumpur, Malaysia

Dato' Dr. Yasmin Ayob is currently a visiting Pathologist at the National Blood Centre and National Heart Institute and an honorary lecturer at the Advance Medical & Dental Institute, University Science Malaysia (AMD/USM). She was the first Director for the National Blood Center in Kuala Lumpur. She is President of the Malaysian Blood Transfusion Society which she founded and formerly the Vice President of the Haemophilia Society of Malaysia which she is a founding member. In the international scene she is on the Expert Panel of World Health Organization (WHO) on Transfusion Medicine and Blood Safety, served on the Board of the International Society Blood Transfusion and the Editorial Board of Transfusion Medicine, the official journal of the British Blood Transfusion Society. At present she is on the International Advisory Board for the Asian Journal of Transfusion.



Dr. Zubaidah Zakaria

Institute for Medical Research (IMR), Kuala Lumpur, Malaysia

Dr. Zubaidah Zakaria is currently the Head of Cancer Research Centre in Institute for Medical Research, Kuala Lumpur. She obtained her first degree in Medicine from University Malaya in 1984 and subsequently her postgraduate qualification in Pathology from University of London in 1994. She was then appointed as the Head of Haematology Institute for Medical Research Kuala Lumpur in 1995. She then went on to pursue her subspeciality training in advanced molecular cytogenetics techniques in the Academic Department of Haematology and Cytogenetics, Royal Marsden NHS trust and the Institute of Cancer Research UK in 2000. She was appointed as Head of Cancer Research Centre Institute for Medical Research in 2007. Her current research interest is in the field of molecular cytogenetics in leukaemias, cancer genetics, leukaemia and stem cell research. She had received research grants from IRPA/MOSTI in the field of molecular molecular cytogenetics, array based technologies in haematological and solid cancers and recently awarded stem cell research grant from NIH/MOH. She provides services in the interpretation and analysis of bone marrow cytogenetics, molecular studies in leukaemias, array CGH and next gene sequencing. The Institute has the capability in providing the necessary equipments and facilities for the related experiments in genomic and animal studies. She had many related publications in the same area.

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K Prathap Memorial Lecture

Opportunities and Challenges for Laboratory Professional in Patient Safety

(Dato' Dr. Yasmin Ayob)

Pathology has been the engine of healthcare system in understanding diseases and in the last few decades in monitoring therapy. However, the approach and technique we use remain very much the same. As we move into the future of the digital age and artificial intelligence, the challenge is should we continue doing the same or do we need to change and reinvent the discipline and the service we provide. To remain relevant, we have to embrace the change and move with the times. The digitization of pathology laboratories makes the specialty more efficient, specimen more reproducible and the work of pathologists less cumbersome. New technologies that produce biomedical "big data" (next generation sequencing, multiparameter / multiplex flow cytometry, high-throughput proteomics and metabolomics, systems biology analysis) have also caused us to rethink the best approach to diagnostics. While these opportunities and challenges seem daunting, we still have to grapple with old challenges of funding and leadership.