



## PROF. DATUK DR. AINOON BINTI OTHMAN

FELO AKADEMIK

### CONTACT

**Phone:** 03-42892423

**E-mail:**

ainoon@usim.edu.my

**Faculty:** Fakulti  
Perubatan Dan Sains  
Kesihatan

### SUPERVISION

PhD - Completed: 0, Ongoing: 0

Master - Completed: 3,  
Ongoing: 0

### AREAS OF EXPERTISE

Haematology

Genomic

Diagnostics

Diagnostic Methods/kits

Medical Sciences

### ACADEMIC QUALIFICATION

PhD in Pathology (hematology) (2005)

Diploma in Clinical Pathology (haematology) (1984)

Bachelor in Perubatan (1979)

### RESEARCH

**1. POINT OF CARE TESTING FOR DIAGNOSIS OF G6PD DEFICIENCY - EVALUATION OF CARESTART? S1 ANALYZER BIOSENSOR QUANTITATIVE ASSAY OF RBC G6PD ENZYME AND ESTABLISHMENT OF REFERENCE RANGE**

2020

GERAN PENYELIDIKAN USIM RACER

COMPLETED

CO-RESEARCHER

**2. MOLECULAR DIAGNOSIS OF G6PD DEFICIENCY IN NEONATES USING FLOW-THROUGH HYBRIDIZATION-A COMPREHENSIVE, SIMULTANEOUS MOLECULAR SCREENING**

2016

GERAN PENYELIDIKAN TRANSNASIONAL

COMPLETED

MAIN

RESEARCHER

**3. THE OPTION OF PRE-MARITAL THALASSAEMIA SCREENING AS A NATIONAL POLICY OF THALASSAEMIA PREVENTION IN MALAYSIA**

2015

GERAN KPT

COMPLETED

CO-RESEARCHER

**4. APOPTOTIC MARKERS IN MYELODYSPLASTIC SYNDROME:  
RELATIONS TO PERIPHERAL BLOOD MORPHOLOGICAL  
APPEARANCES**

2013

GERAN KPT

COMPLETED

CO-RESEARCHER

**5. POLYMORPHISM OF LRRFIP1, COMMD7 AND  
GLYCOPROTEIN ILIA PIA1/A2 AND ITS EFFECT ON PLATELET  
RESPONSIVENESS IN TYPE 2 DIABETIC PATIENTS**

2013

GERAN KPT

COMPLETED

CO-RESEARCHER

# RESEARCH

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6. PATTERN RECOGNITION OF MATURATION BY FOUR-COLOR FLOW CYTOMETRY IN THE DIAGNOSIS OF MYELOYDYSPLASTIC SYNDROMES.

2012 GERAN KPT COMPLETED CO-RESEARCHER

7. RED CELL GENOTYPE USING BUCCAL SWAB IS BETTER THAN PERIPHERAL WHOLE BLOOD IN TRANSFUSION-DEPENDENT TH

2012 GERAN KPT COMPLETED CO-RESEARCHER

# PUBLICATION

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## 1. VIRTUAL MICROSCOPY: ENHANCING ACCESSIBILITY AND EFFICIENCY IN UNDERGRADUATE PATHOLOGY EDUCATION

1ST INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN MEDICAL EDUCATION WITH MAEMHS 2024

2024 PROCEEDING NON-INDEX MAIN AUTHOR

## 2. THE INCORPORATION OF THE HALAL MANAGEMENT SYSTEM (HMS) BY THE PHARMACEUTICAL INDUSTRY

GENERIC AND BIOSIMILARS INITIATIVE JOURNAL

2023 JOURNAL WOS CO-AUTHOR

## 3. PRE-MARITAL THALASSAEMIA SCREENING: KNOWLEDGE, ACCEPTANCE AND PRACTICE AMONG MALAYSIANS

9TH NATIONAL HEALTH SEMINAR (NHS)

2023 PROCEEDING NON-INDEX MAIN AUTHOR

## 4. THE EFFECTS OF AROMATHERAPY ON INSOMNIA IN AUTISM SPECTRUM DISORDER: A SCOPING REVIEW

9TH NATIONAL HEALTH SEMINAR (NHS)

2023 PROCEEDING OTHER DATABASE CO-AUTHOR

## 5. SIRIRAJ I G?(A???)0 -THALASSAEMIA CAUSING SEVERE THALASSAEMIA INTERMEDIA IN COMPOUND HETEROZYGOUS STATE WITH IVS1-1(G?T) MUTATION

MALAYSIAN JOURNAL OF PATHOLOGY

2021 JOURNAL ISI MAIN AUTHOR / CONTACT PERSON IN USIM

## 6. DETECTION OF HAEMOGLOBIN S USING MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION AND FLOW-THROUGH HYBRIDIZATION TECHNIQUES: EXPERIENCE IN A TERTIARY HOSPITAL

MEDICINE & HEALTH

2020 JOURNAL INDEX BY WOS & MYCITE MAIN AUTHOR / CONTACT PERSON IN USIM

## 7. POLIS PLAGIARISME UNIVERSITI SAINS ISLAM MALAYSIA

2020 POLICY

## 8. TEAM-BASED LEARNING : BENEFITS ON STUDENTS LEARNING AND STUDENTS PERCEPTION

EDUCATION IN MEDICINE JOURNAL

2019 JOURNAL INDEX BY MYCITE / EBS COHOST CO-AUTHOR

## 9. MULTIPLEX STR PANEL FOR ASSESSMENT OF CHIMERISM FOLLOWING HEMATOPOIETIC STEM CELL TRANSPLANTATION

ANNALS OF HEMATOLOGY

2019 JOURNAL ERA CO-AUTHOR

## 10. GENOTYPING OF MALAYSIAN G6PD-DEFICIENT NEONATES BY REVERSE DOT BLOT FLOW-THROUGH HYBRIDIZATION

JOURNAL OF HUMAN GENETICS

2019 JOURNAL WOS CO-AUTHOR

## 11. HPLC TOSOH HLC-723 G8 ANALYZER PERFORMANCE IN DETECTION OF ?-THALASSEMIA AND HB E TRAITS

HEMOGLOBIN: INTERNATIONAL JOURNAL FOR HEMOGLOBIN RESEARCH

2019 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

## 12. UPDATES ON LABORATORY TESTS FOR DIAGNOSIS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE DEFICIENCY IN MALAYSIA

HEMOGLOBIN: INTERNATIONAL JOURNAL FOR HEMOGLOBIN RESEARCH

2019 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

## 13. A UNIQUE INTERACTION OF IVS-1-1 (G>A) (HBA2:C.95+1G>A) WITH HB ADANA (HBA2:C.179G>A) PRESENTING AS TRANSFUSION-DEPENDENT ALPHA THALASSAEMIA

HEMOGLOBIN: INTERNATIONAL JOURNAL FOR HEMOGLOBIN RESEARCH

2019 JOURNAL ERA CO-AUTHOR

# PUBLICATION

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## 14. APPLICATION OF MOLECULAR DIAGNOSTICS IN DETECTION OF $\alpha$ -THALASSEMIA AND HEMOGLOBIN VARIANTS AT HOSPITAL CANSELOR TUANKU MUHRIZ UKM, KUALA LUMPUR, MALAYSIA.

HEMOGLOBIN: INTERNATIONAL JOURNAL FOR HEMOGLOBIN RESEARCH

2019 JOURNAL ERA MAIN AUTHOR / CONTACT PERSON IN USIM

## 15. SICKLE CELL CASE SERIES

ASIAN JOURNAL OF MEDICINE AND BIOMEDICINE

2018 JOURNAL SCI CO-AUTHOR

## 16. A UNIQUE INTERACTION OF IVS-1-1 (G>A) (HBA2:C.95+1G>A) WITH HB ADANA (HBA@: C.179G>A PRESENTING AS TRANSFUSION-DEPENDENT ALPHA THALASSAEMIA

HEMOGLOBIN (INTERNATIONAL JOURNAL FOR HEMOGLOBIN RESEARCH)

2018 JOURNAL WOS CO-AUTHOR

## 17. ASSOCIATION BETWEEN UDP-GLUCURONOSYLTRANSFERASE 1A1 (UGT1A1) GENE POLYMORPHISM, (C.-3279T>G) AND PHOTOTHERAPY AMONG GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD)-DEFICIENT NEONATES.

BIOMED J SCI & TECH RES

2018 JOURNAL SCOPUS CO-AUTHOR

## 18. A COMPARATIVE STUDY OF RED BLOOD CELL PARAMETERS OF ALPHA AND BETA THALASSAEMIA PATIENTS DIAGNOSED IN A UNIVERSITY HOSPITAL IN CHERAS,

MALAYSIA ARC JOURNAL OF HEMATOLOGY VOLUME 3, ISSUE 1, 2018, PP 23-27 WWW.ARCJOURNALS.ORG

2018 JOURNAL OTHER DATABASE CO-AUTHOR

## 19. POINT-OF-CARE QUANTITATIVE MEASURE OF G6PD ENZYME ACTIVITY.

ASIAN JOURNAL OF MEDICINE AND BIOMEDICINE

2018 JOURNAL OTHER DATABASE CO-AUTHOR

## 20. DIAGNOSIS OF G6PD DEFICIENCY - BEYOND FLUORESCENT SPOT TEST

GLOBIN GLOBIN 2020 CHALLENGE (GG2020) CONFERENCE - PRECISION MEDICINE IN THALASSAEMIA

2018 PROCEEDING NON-INDEX MAIN AUTHOR

## 21. MOLECULAR CHARACTERISATION OF THALASSAEMIA AMONG MALAYS IN KLANG VALLEY, MALAYSIA.

THE BELT AND ROAD CONFERENCE ON THALASSAEMIA ?ADAVANCING KNOWLEDGE IN THALASSAEMIA.

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 22. COMPOUND HETEROZYGOSE HB ADANA WITH ONE GLOBIN GENE DELETION ALPHA THALASSAEMIA (AAADANA/A-3.7) IN PREGNANCY.

MALAYSIAN SOCIETY OF HAEMATOLOGY 15TH ANNUAL SCIENTIFIC MEETING

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 23. SIMULTANEOUS DETECTION OF G6PD MUTATIONS BY FLOW THROUGH HYBRIDIZATION ? A POTENTIAL TOOL FOR GENETIC SCREENING OF NEWBORN.

MALAYSIAN SOCIETY OF HAEMATOLOGY 15TH ANNUAL SCIENTIFIC MEETING

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 24. CO-INHERITENCE OF HAEMOGLOBIN E WITH RARE THALASSAEMIA CD 35 (C-A): THE OTHER END OF THE SPECTRUM OF COMPOUND HETEROZYGOUS HB/E BETA THALASSAEMIA

THE BELT AND ROAD CONFERENCE ON THALASSAEMIA ?ADAVANCING KNOWLEDGE IN THALASSAEMIA.

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 25. DETECTION OF $\alpha$ -GLOBIN GENE DELETIONS IN HIGH HBF LEVEL PATIENTS USING MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION (MLPA)

29TH NATIONAL SCIENTIFIC CONFERENCE IN CONJUNCTION WITH THE 30TH ANNIVERSARY OF MALAYSIA INSTITUTE OF MEDICAL LABORATORY SCIENCES.

2018 PROCEEDING NON-INDEX CO-AUTHOR

## 26. IMPORTANCE OF EXTENDED BLOOD GROUP GENOTYPING IN MULTIPLY TRANSFUSED PATIENTS

TRANSFUSION AND APHERESIS SCIENCE

2017

JOURNAL

WOS

CO-AUTHOR

# PUBLICATION

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## 27. MOLECULAR CHARACTERISATION OF ALPHA AND BETA -THALASSAEMIA AMONG INDIGENOUS SENOI ORANG ASLI COMMUNITIES IN PENINSULAR MALAYSIA

ANNALS OF HUMAN GENETICS

2017 JOURNAL WOS CO-AUTHOR

## 28. GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) DEFICIENT INFANTS: ENZYME ACTIVITY AND GENE VARIANTS AS RISK FACTORS FOR PHOTOTHERAPY IN THE FIRST WEEK OF LIFE

JOURNAL OF PAEDIATRIC AND CHILD HEALTH

2017 JOURNAL WOS CO-AUTHOR

## 29. A PILOT STUDY ON WILLINGNESS OF PREMARITAL MALAY ON PREMARITAL THALASSAEMIA SCREENING

J OF BIOMEDICAL & CLINICAL SCI

2017 JOURNAL OTHER DATABASE CO-AUTHOR

## 30. CONCOMITANT INHERITANCE OF ALPHA-THALASSAEMIA IN BETA THALASSAEMIA MAJOR: A CASE REPORT

GLOBAL GLOBIN 2020 CHALLENGE 'MOVING TOWARDS ZERO THALASSAEMIA'

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 31. DETECTION OF BETA THALASSAEMIA MUTATIONS BY MULTIPLEX AMPLIFICATION REFRACTORY SYSTEM AND GAP-PCR

GLOBAL GLOBIN 2020 CHALLENGE, MOVING TOWARDS ZERO THALASSAEMIA,

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 32. CHARACTERIZATION OF ALPHA GLOBIN GENE MUTATIONS DIAGNOSED IN HKL

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICINE

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 33. NEAR PATIENT TESTING OF G6PD ENZYME ACTIVITY BY CARESTARTTM BIOSENSOR 1 KIT

3RD MSMLT NATIONAL SCIENTIFIC CONFERENCE - ADVANCE CHALLENGES IN MEDICAL LABORATORY TECHNOLOGY

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 34. EVALUATION OF G6PD ENZYME ACTIVITY IN NEONATES BY MINDRAY G6PD TEST KIT ON MINDRAY BS-480

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICINE

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 35. DETECTION OF BETA THALASSAEMIA MUTATIONS BY MULTIPLEX AMPLIFICATION REFRACTORY SYSTEM AND GAP-PCR

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICINE

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 36. DETERMINATION OF HBA2 LEVEL AMONG ?-THALASSAEMIA AND HAEMOGLOBIN-E TRAITS BY ION EXCHANGE HPLC TOSOH HLC-723 G8 ANALYZER

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICINE

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 37. EVALUATION OF QUANTITATIVE POINT ?OF-CARE-TEST: G6PD ACTIVITY IN NORMAL SUBJECTS USING CARESTARTTM BIOSENSOR 1 KIT. ABSTRACT OF THE , AT UKM MEDICAL CENTRE, SEPTEMBER, 2017

10TH MALAYSIA-INDONESIA-BRUNEI MEDICAL SCIENCES CONFERENCE

2017 PROCEEDING NON-INDEX CO-AUTHOR

## 38. THE USE OF MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION (MLPA) ASSAY IN DETECTING ALPHA THALASSAEMIA GENE ABNORMALITIES: COMPARISON WITH MULTIPLEX PCR.

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICINE

2017 PROCEEDING NON-INDEX CO-AUTHOR

**39. EVALUATION OF POCT (POINT OF CARE TESTING); CARESTART BIOSENSOR; SINGLE KIT AND CARESTART BIOSENSOR 1; COMBO KIT VS THE STANDARD REFERENCE METHOD (OSMMR200D) IN THE QUANTIFICATION OF G6PD ENZYME LEVEL**

MALAYSIAN SOCIETY OF HEMATOLOGY 14TH ANNUAL SCIENTIFIC MEETING ?TOWARDS A NEW ERA OF PRECISION MEDICIN

2017

PROCEEDING

NON-INDEX

CO-AUTHOR

# PUBLICATION

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## 40. EVALUATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE STABILITY IN STORED BLOOD SAMPLES

EXCLI JOURNAL

2016 JOURNAL WOS CO-AUTHOR

## 41. PHOENIX DACTERYLIFERA (DATE FRUITS) ADMINISTRATION TO ANIMA MODELS OF NEUROLOGICAL DISEASES: A SYSTEMATIC REVIEW OF HEALTH BENEFITS.

CURRENT TOPICS IN NEUTRACEUTICAL RESEARCH

2016 JOURNAL WOS CO-AUTHOR

## 42. DETECTION OF HOMOZYGOUS HAEMOGLOBIN CONSTANT SPRING BY CAPILLARY ELECTROPHORESIS METHOD

ARC JOURNAL OF HAEMATOLOGY

2016 JOURNAL OTHER DATABASE CO-AUTHOR

## 43. SENSITIVITY OF BLOOD CELLS MATURATION PATTERN IN THE DIAGNOSIS OF MYELODYSPLASTIC SYNDROME USING FLOWCYTOMETRY - A SYSTEMATIC REVIEW

JOURNAL OF CONTEMPORARY ISSUES AND THOUGHT

2016 JOURNAL OTHER DATABASE CO-AUTHOR

## 44. RED CELL ENZYME DISORDER IN MALAYSIA

13TH ANNUAL SCIENTIFIC MEETING MALAYSIAN SOCIETY OF HAEMATOLOGY ? NEXT GENERATION HAEMATOLOGY

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 45. RED CELL ENZYME DISORDER IN MALAYSIA

27TH NATIONAL SCIENTIFI CONFERENCE OF THE MALAYSIAN INSTITUTE OF MEDICAL LABORATORY SCIENCES

2016 PROCEEDING NON-INDEX MAIN AUTHOR

## 46. TEAM-BASED LEARNING (TBL)PEDAGOGY IN FACULTY OF MEDICINE AND HEALTH SCIENCES USIM: AN EARLY OUTCOME

5TH USIM HEALTH CONFERENCE (NHS 2016)

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 47. SENSITIVITY OF BLOOD CELLS? MATURATION PATTERN IN THE DIAGNOSIS OF MYELODYSPLASTIC SYNDROME USING FLOW CYTOMETRY - A SYSTEMATIC REVIEW

SEMINAR PENYELDIKAN KEBANGSAAN 2016

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 48. DETECTION OF G6PD MOLECULAR VARIANTS USING TAQMAN SNP GENOTYPIN ASSAY AT UKMMC

13TH ANNUAL SCIENTIFIC MEETING MALAYSIAN SOCIETY OF HAEMATOLOGY ? NEXT GENERATION HAEMATOLOGY

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 49. DETECTION OF MALAYSIAN BETA THALASSAEMIA ALLELEES BY MULTIPLEX ALLELE MULTIPLICATION SYSTEM BY FLOW THROUGH HYBRIDIZATION

13TH ANNUAL SCIENTIFIC MEETING MALAYSIAN SOCIETY OF HAEMATOLOGY ? NEXT GENERATION HAEMATOLOGY

2016 PROCEEDING NON-INDEX CO-AUTHOR

## 50. CONCOMITANT HBH-PAKS WITH JAK2V617F MUTATION: CASE REPORT

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 51. HB LEPORÉ/ $\beta$ 0-THALASSAEMIA WITH $\alpha$ +-THALASSAEMIA INTERACTIONS, A POTENTIAL DIAGNOSTIC PITFALL

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL WOS CO-AUTHOR

## 52. A SYSTEMATIC REVIEW ON THE INVOLVEMENT OF APOPTOSIS IN THE PATHOGENESIS OF MYELODYSPLASTIC SYNDROME

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

# PUBLICATION

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## 53. SYSTEMATIC REVIEW ON MATURATION PATTERN SENSITIVITY IN THE DIAGNOSIS OF MYELODYSPLASTIC SYNDROME (MDS)

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 54. A COMPARISON BETWEEN TWO SAMPLING METHODS FOR EXTENDED RED CELL GENOTYPING USING TAQMAN SINGLE NUCLEOTIDE POLYMORPHISMS

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 55. NEONATAL JAUNDICE IN G6PD-DEFICIENT FEMALES AND THE ASSOCIATION WITH COMMONLY OCCURRING GENETIC MUTATIONS USING SINGLE-NUCLEOTIDE POLYMORPHISM DETECTION VIA REAL-TIME PCR

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 56. MOLECULAR ANALYSIS OF $\beta$ -GLOBIN GENE MUTATIONS IN UKMMC USING MULTIPLEX AMPLIFICATION REFRACTORY MUTATION SYSTEM AND FLOW-THROUGH HYBRIDIZATION KIT: A COMPARISON OF TWO METHODS

MALAYSIAN JOURNAL OF PATHOLOGY

2015 JOURNAL SCOPUS CO-AUTHOR

## 57. HAEMOGLOBINOPATHIES AND THALASSAEMIA SCREENING AMONG SENOI ORANG ASLI IN PENINSULAR MALAYSIA

AIP CONFERENCE

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 58. IMPORTANCE OF EXTENDED BLOOD GROUP GENOTYPING IN MULTIPLY TRNASFUSED PATIENTS

SEMINAR PENYELIDIKAN KEBANGSAAN (SPK2015)

2015 PROCEEDING NON-INDEX CO-AUTHOR

## 59. PATHOLOGY IN MALAYSIA , CELEBRATING 40 YEARS OF ADVOCACY

2015 BOOK CO-AUTHOR

## 60. LOW DNA CONCENTRATION FROM BUCCL SWAB CAN BE USED FOR BLOOD GROUP MOLECLUR GENOTYPING

THE MALAYSIAN JOURNAL OF PATHOLOGY

2014 JOURNAL SCOPUS CO-AUTHOR

## 61. EVALUATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE STABILITY IN STORED EDTA BLOOD SAMPLES

THE MALAYSIAN JOURNAL OF PATHOLOGIST

2014 JOURNAL SCOPUS CO-AUTHOR

## 62. MOLECULAR CHARACTERISATION OF ALPHA THALASSEMIA AMONG PATIENTS DIGNOSED IN UKM MEDICAL CENTRE

MALAYSIAN JOURNAL OF PATHOLOGY

2014 JOURNAL SCOPUS CO-AUTHOR

## 63. STR ANALYSIS FOR CHIMERISM STATUS OF ALLOGENEIC PERIPHERAL BLOOD STEM CELL TRANSPLANTATION

THE MALAYSIAN JOURNAL OF PATHOLOGY

2014 JOURNAL SCOPUS CO-AUTHOR

## 64. RBC G6PD ACTIVITY MEASUREMENT - A COMPARISON BETWEEN WHOLE BLOOD EDTA SAMPLES AND DRIED BLOOD SPOT

THE MALAYSIAN JOURNAL OF PATHOLOGY

2014 JOURNAL SCOPUS CO-AUTHOR

## 65. IMMATURE RETICULOCYTE FRACTION IS AN EARLY PREDICTOR OF BONE MARROW RECOVERY PAST CHEMOTHERAPY IN PATIENTS WITH ACUTE LEUKEMIA

SAUDI MED J

2014 JOURNAL WOS CO-AUTHOR

# PUBLICATION

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## 66. PRENATAL DIAGNOSIS OF ANEUPLOIDES IN AMNIOTIC FLUID BY MULTIPLE LIGATION-DEPENDENT PROBE AMPLIFICATION (MLPA) ANALYSIS

THE MALAYSIAN JOURNAL OF PATHOLOGY

2014 JOURNAL SCOPUS CO-AUTHOR

## 67. A CASE SERIES A-THALASSAEMIA INTERNEDIA DUE TO COMPOUND HETEROZYGOSITY FOR HB ADANA (HBA2:C179A(ORHBA1);P.GLY60ASP) WITH OTHE A-THALASSAEMIAS IN MALAY FAMILIES

HEMOGLOBIN

2014 JOURNAL WOS CO-AUTHOR

## 68. INCREASED BASAL OXIDATION OF PEROXIREDOXIN2 AND LIMITED PEROXIREDOXIN RECYCLING IN GLUCOSE-6-PHOSPHATE DEHYDROGENASE-DEFICIENT ERYTHROCYTES FROM NEWBORN INFANTS

THE FASEB JOURNAL

2014 JOURNAL WOS CO-AUTHOR

## 69. DETECTION OF PARTIAL G6PD DEFICIENCY USING OSMMR2000-D KIT WITH HB NORMALIZATION

MEDICINE AND HEALTH

2014 JOURNAL OTHER DATABASE CO-AUTHOR

## 70. LOW DNA CONCENTRATION FROM BUCCAL SWAB CAN BE USED FOR BLOOD GROUP MOLECULAR GENOTYPING

2014 INTERNATIONAL CONGRESS OF PATHOLOGY AND LABORATORY MEDICINE AND 48TH MALAYSIA-SINGAPOR CONGRESS OF MEDICINE

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 71. EVALUATION OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE STABILITY IN STORED EDTA BLOOD SAMPLES

2014 INTERNATIONAL CONGRESS OF PATHOLOGY AND LABORATORY MEDICINE AND 48TH MALAYSIA-SINGAPORE CONGRESS OF MEDICINE

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 72. STR ANALYSIS FOR CHIMERISM STATUS OF ALLOGENEIC PERIPHERAL BLOOD STEM CELL TRANSPLANTATION

2014 INTERNATIONAL CONGRESS OF PATHOLOGY AND LABORATORY MEDICINE AND 48TH MALAYSIA-SINGAPORE CONGRESS OF MEDICINE

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 73. RBC G6PD ACTIVITY MEASUREMENT - A COMPARISON BETWEEN WHOLE BLOOD EDTA SAMPLES AND DRIED BLOOD SPOT

2014 INTERNATIONAL CONGRESS OF PATHOLOGY AND LABORATORY MEDICINE AND 48TH MALAYSIA-SINGAPOR CONGRESS OF MEDICINE

2014 PROCEEDING NON-INDEX CO-AUTHOR

## 74. RISK FACTORS ASSOCIATED WITH UNCONJUGATED NEONATAL HYPERBILIRUBINAEMIA IN MALAYSIAN NEONATES

JOURNAL OF TROPICAL PAEDIATRICS

2013 JOURNAL WOS CO-AUTHOR

## 75. MOLECULAR CHARACTERISTICS OF ALPHA THALASSAEMIA AMONG PATIENTS DIAGNOSED IN UKM MEDICAL CENTRE

THE MALAYSIAN JOURNAL OF PATHOLOGY

2013 JOURNAL SCOPUS CO-AUTHOR

## 76. THE GENETICS OF G6PD DEFICIENCY AND UGT1A1 MUTATION ASSOCIATED WITH JUANDICE IN THE EARLY NEONATAL PERIOD

JOURNAL AND PAEDIATRICS AND CHILD HEALTH

2013 JOURNAL WOS CO-AUTHOR

## 77. A CASE SERIES OF H INCLUSION NEGATIVE ALPHA THALASSAEMIA INTERMEDIA DUE TO COMPOUND HETEROZYGOSITY OF HAEMOGLOBIN ADANA WITH OTHER ALPHA THALASSAEMIAS IN MALAY FAMILIES

HEMOGLOBIN

2013 JOURNAL WOS CO-AUTHOR

## 78. A POPULATION STUDY ON THALASSAEMIA AND HEMOGLOBINOPATHY AMONG JAHUT POPULATION.

INTERNATIONAL CONFERENCE ON HEALTH AND MEDICAL SCIENCES

2013 PROCEEDING NON-INDEX CO-AUTHOR

# PUBLICATION

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## 79. INTERACTION OF HAEMOGLOBIN E AND HAEMOGLOBIN CONSTANT SPRING IN A JAHUT FAMILY

INTERNATIONAL CONFERENCE ON HEALTH AND MEDICAL SCIENCES, 22-24TH MAY, ORGANIZED BY

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 80. DETECTION OF HOMOZYGOUS HAEMOGLOBIN CONSTANT SPRING BY CAPILLARY ELECTROPHORESIS METHOD.

THE XTH MALYSIAN NATIONAL HEMATOLOGY SCIENTIFIC MEETING, 26TH -28TH APRIL 2013,

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 81. GLUCOSE-6-PHOSPHATE DEHYDROGENASE (G6PD) DEFICIENCY AMONG SENOI ORANG ASLI'S CHILDREN : RECOMMENDATION FOR MANDATORY POPULATION SCREENING.

THE 8TH MALAYSIA-INDONESIA-BRUNEI MEDICAL SCIENCE CONFERENCE

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 82. A SEVERE $\alpha$ -THALASSAEMIA DUE TO COMPOUND HETEROZYGOSITY FOR RARE CODON 59 (GGC>GAC) WITH IVS I NT I (G/A) MUTATIONS IN $\alpha 2$ -GENE

INTERNATIONAL CONFERENCE ON HEALTH AND MEDICAL SCIENCES, 22-24TH MAY,

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 83. THALASSAEMIA AND HAEMOGLOBINOPATHY AMONG TEMIAR ORANG ASLI POPULATION IN MALAYSIA : CALLS FOR AWARENESS AMONG YOUNG GENERATION

THE 8TH MALAYSIA-INDONESIA-BRUNEI MEDICAL SCIENCE CONFERENCE 27-29TH JUNE 2013 ,

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 84. CO-INHERITANCE OF COMPOUND HETEROZYGOUS HB LEPORÉ AND $\alpha$ -THALASSAEMIA WITH SINGLE GENE DELETION $\alpha$ -THALASSAEMIA ( $\alpha$ 3.7 TYPE): A CASE REPORT.

THE XTH MALYSIAN NATIONAL HEMATOLOGY SCIENTIFIC MEETING, 26TH -28TH APRIL 2013.

2013 PROCEEDING NON-INDEX CO-AUTHOR

## 85. IMMUNOPHENOTYPING ANALYSIS OF LYMPH NODE BIOPSIES BY FLOW CYTOMETRY

SAUDI MEDICAL JOURNAL

2012 JOURNAL WOS CO-AUTHOR

## 86. A CAES SERIES OF HB ADANA INTERACTION WITH BETA THALASSAEMIA

THE MALYSIAN JOURNAL OF PATHOLOGY

2012 JOURNAL WOS CO-AUTHOR

## 87. A STUDY OF JAK2 (V617F) GENE MUTATION IN PATIENTS WITH MYELOPROLIFERATIVE DISORDER.

LA CLINICA TERAPEUTICA

2012 JOURNAL WOS CO-AUTHOR

## 88. MESENCHYMAL STROMAL AND NEURAL CELL MARKERS IN EX VIVO EXPANDED LIMBAL STROMAL CELL

THE MALYSIAN JOURNAL OF PATHOLOGY

2012 JOURNAL WOS CO-AUTHOR

## 89. PREVALENCE OF IRON DEFICIENCY ANEMIA AND THALASSAEMIA TRAIT AMONG UNDERGRADUATE MEDICAL STUDENTS 2012;

LA CLINICA TERAPEUTICA

2012 JOURNAL WOS CO-AUTHOR

## 90. EX VIVO EXPANDED SSEA-4+ HUMAN LIMBAL STROMAL CELLS ARE MULTIPOTENT AND DO NOT EXPRESS OTHER EMBRYONIC STEM CELL MARKERS

MOLECULAR VISION

2012 JOURNAL WOS CO-AUTHOR

## 91. EXTENDED AND STABLE GENE EXPRESSION VIA NUCLEOFECTON OF MIDGE CONSTRUCT INTO ADULT HUMAN MARROW MESENCHYMAL STROMAL CELLS 2012 :

CYTOTECHNOLOGY

2012 JOURNAL WOS CO-AUTHOR

# PUBLICATION

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**92. CO-INHERITANCE OF COMPOUND HETEROZYGOUS HB CONSTANT SPRING AND SINGLE GENE DELETION ALPHA THALASSAEMIA (3.7 KB TYPE) WITH HETEROZYGOUS DELTA BETA THALASSAEMIA: A CASE REPORT.**

MALAYSIAN JOURNAL OF PATHOLOGY

2012 JOURNAL WOS CO-AUTHOR

**93. HUMAN MESENCHYMAL STROMAL CELLS COULD DELIVER ERYTHROPOIETIN AND MIGRATE TO THE BASAL LAYER OF HAIR SHAFT WHEN SUBCUTANEOUSLY IMPLANTED IN A MURINE MODE TISSUE AND CELL ELSEVIER AMSTERDAM, NETHERLANDS 2012 1(2) : 44(4):249-256 HUMAN MESENCHYMAL**

TISSUE AND CELL 2012 1(2) :

2012 JOURNAL WOS CO-AUTHOR

**94. G6PD DEFICIENCY ↻ NEW INSIGHTS TO OLD TEST**

COLLEGE OF PATHOLOGIST, ACADEMY OF MEDICINE MALAYSIA 11TH ANNUAL SCIENTIFIC MEETING

2012 PROCEEDING NON-INDEX MAIN AUTHOR

**95. MESENCHYMAL STROMAL AND NEURAL CELL MARKERS IN EX VIVO EXPANDED LIMBAL STROMA CELLS**

11TH ANNUAL SCIENTIFIC MEETING COLLEGE OF PATHOLOGIST, ACADEMY OF MEDICINE MALAYSIA

2012 PROCEEDING NON-INDEX CO-AUTHOR

**96. PREVALENCE OF URIDINE GLUCURONOSYL TRANSFERASE 1A1 MUTATIONS IN MALAY NEONATES WITH SEVERE JAUNDICE**

THE MALAYSIAN JOURNAL OF PATHOLOGY

2011 JOURNAL WOS CO-AUTHOR

**97. RAPID DETECTION OF ANEUPLOIDES IN AMNIOTIC FLUID BY MULTIPLEX LIGATION-DEPENDENT PROBE AMPLIFICATION**

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2011 JOURNAL WOS MAIN AUTHOR

**98. REAL-TIME QUANTIFICATION FOR BCR-ABL TRANSCRIPTS IN CHRONIC MYELOID LEUKAEMIA PATIENTS IN UKMMC, MALAYSIA**

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2011 JOURNAL WOS CO-AUTHOR

**99. THE USE OF AUTOMATED IMMATURE RETICULOCYTE FRACTION IN PREDICTING BONE MARROW RECOVERY IN PATIENT WITH ACUTE LEUKAEMIA**

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2011 JOURNAL WOS MAIN AUTHOR

**100. CO-INHERITANCE OF COMPOUND HETEROZYGOUS HB CONSTANT SPRING AND SINGLE GENE DELETION ALPHA THALASSAEMIA (3.7KB TYPE) WITH HETEROZYGOUS DELTA BETA THALASSAEMIA : A CASE REPORT**

TRANSPLANT PATHOLOGY UPDATES. 10TH ANNUAL SCIENTIFIC MEETING COLLEGE OF PATHOLOGISTS, ACADEMY OF MEDICINE MALAYSIA

2011 PROCEEDING NON-INDEX MAIN AUTHOR

**101. THE USE OF AUTOMATED RETICULOCYTE FRACTION IN PREDICTING BONE MARROW RECOVERY IN PATIENTS WITH ACUTE LEUKEMIA**

TRANSPLANT PATHOLOGY UPDATES 10TH ANNUAL SCIENTIFIC MEETING COLLEGE OF PATHOLOGISTS, ACADEMY OF MEDICINE MALAYSIA,

2011 PROCEEDING NON-INDEX MAIN AUTHOR

**102. RAPID DETECTION OF ANEUPLOIDES IN AMNIOTIC FLUID BY MULTIPLEX LIGATION DEPENDENT PROBE AMPLIFICATION**

TRANSPLANT PATHOLOGY UPDATES 10TH ANNUAL SCIENTIFIC MEETING COLLEGE OF PATHOLOGISTS, ACADEMY OF MEDICINE MALAYSIA,

2011 PROCEEDING NON-INDEX MAIN AUTHOR

**103. DELIVERY OF ERYTHROPOIETIN IN A MOUSE MODEL BY NUCLEOFECTED HUMAN ADULT STROMAL CELLS USING MIDGE VECTOR**

THE IXTH MALAYSIAN NATIONAL HAEMATOLOGY SCIENTIFIC MEETING

2011 PROCEEDING NON-INDEX CO-AUTHOR

**104. THE PREVALENCE OF HAEMOGLOBIN E AMONG BLOOD DONORS WITH NORMAL RED CELL INDICES AND THE INTERACTION WITH ALPHA THALASSAEMIA**

THE IXTH MALAYSIAN NATIONAL HAEMATOLOGY SCIENTIFIC MEETING.

2011

PROCEEDING

NON-INDEX

CO-AUTHOR

# PUBLICATION

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105. 1. ISLAM DAN PENJAGAAN KESIHATAN SIRI 1. GAYA HIDUP SIHAT. PENERBIT USIM. NILAI.

2011

BOOK

CO-AUTHOR

# CONSULTATION

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## 1. HAEMATOLOGY

PUSAT PERUBATAN UKM

2019 NATIONAL

## 2. CONSULTANT HAEMATOLOGIST

PUSAT PERUBATAN UKM

2018 NATIONAL

## 3. CONSULTANT HAEMATOLOGIST

PUSAT PERUBATAN UKM

2017 NATIONAL

## 4. CONSULTANT HAEMATOLOGIST

UKM

2016 NATIONAL

## 5. NATIONAL HAEMATOLOGY STANDARDIZATION

MINISTRY OF HEATH

2015 NATIONAL

## 6. SECTORAL TECHNICAL COMMITTEE MEMBER FOR MEDICAL TESTING FIELD (HAEMATOLOGY), ISO 15189 LABORATORY ACCREDITATION SCHEME MALAYSIA (SAMM)

DEPARTMENT OF STANDARDS MALAYSIA MOSTI

2015 NATIONAL

## 7. SENIOR CONSULTANT HAEMATOLOGIST PPUKM

PUSAT PERUBATAN UKM

2015 NATIONAL

## 8. JAWATANKUASA KEBANGSAAN GOOD LABORATORY PRACTICE MYGLPC

STANDARDS MALYSIAN

2014 NATIONAL

## 9. SENIOR CONSULTANT HAEMATOLGIST

PUSAT PERUBATAN UKM

2014 NATIONAL

## 10. SENIOR CONSULTANT HAEMATOLOGIST PPUKM

PUSAT PERUBATAN UKM

2014 UNIVERSITY

## 11. MEMBER OF LABORATORY ACCREDITATION EVALUATION PANEL FOR STANDARDS MALAYSIA

JABATAN STANDARDS

2014 NATIONAL

## 12. SECTORAL TECHNICAL COMMITTEE FOR MEDICAL TESTING FIELD (HAEMATOLOGY), ISO 15189 LABORATORY ACCREDITATION SCHEME MALAYSIA (SAMM) DEPARTMENT OF STANDARDS MALAYSIA MOSTI

STANDARDS MALAYSIA

2014 NATIONAL

## 13. INDUSTRY ADVISOR FOR FACULTY OF MEDICINE AND HEALTH SCIENCES, UNIVERSITI TUNKU ABDUL RAHMAN

UNIVERISITI TUNKU ABDUL RAHMAN

2012 UNIVERSITY

**14. MEMBER OF ADVISORY BOARD FOR MASTERS OF PATHOLOGY PROGRAMME, UITM, FACULTY OF MEDICINE UITM**

UITM

2012 UNIVERSITY

# CONSULTATION

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**15. AHLI PANEL PENASIHAT , KAJIAN MULTICENTRE STUDY FPB/ HB ANALYSIS FOR MALAYSIAN POPULATION ( 2012)**

KEMENTERIAN KESIHATAN MALAYSIA

2012

NATIONAL

**16. AHLI PANEL PENASIHAT, MALAYSIAN STANDARDS FOR MOLECULAR DIAGNOSTIC TECHNIQUES BAGI ISO 15189, STANDARDS MALAYSIA**

DEPT OF STANDARDS MALAYSIA, MINISTRY OF SCIENCE AN

2012

NATIONAL

**17. SENIOR CONSULTANT HAEMATOLOGIST PPUKM**

PUSAT PERUBATAN UKM

2011

UNIVERSITY

# AWARDS/RECOGNITION

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## 1. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

## 2. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

## 3. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2021 NATIONAL

## 4. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

## 5. ACADEMIC ADVISOR

CONJOINT BOARD FOR POSTGRADUATE PATHOLOGY PROGRAM - KPT

2021 NATIONAL

## 6. ACADEMIC ADVISOR

UNIVERSITI SAINS MALAYSIA (INSTITUT PERUBATAN DAN PERGIGIAN TERMAJU)

2021 NATIONAL

## 7. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2021 UNIVERSITY

## 8. ACADEMIC ADVISOR

UNIVERSITI SAINS MALAYSIA (INSTITUT PERUBATAN DAN PERGIGIAN TERMAJU)

2020 NATIONAL

## 9. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2020 NATIONAL

## 10. ACADEMIC ADVISOR

CONJOINT BOARD OF PATHOLOGY ? MINISTRY OF EDUCATION MALAYSIA

2020 NATIONAL

## 11. ACADEMIC ADVISOR

UNIVERSITI SAINS MALAYSIA

2020 NATIONAL

## 12. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 UNIVERSITY

## 13. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 UNIVERSITY

**14. ACADEMIC ADVISOR**

UNIVERSITI SAINS ISLAM MALAYSIA

2020

NATIONAL

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## 15. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 NATIONAL

## 16. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 NATIONAL

## 17. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 NATIONAL

## 18. ACADEMIC ADVISOR

UNIVERSITI SAINS ISLAM MALAYSIA

2020 UNIVERSITY

## 19. PENGHARAGAN PENCAPAIN CEMERLANG ( MUMTAZ) PENILAIAN KURUS DAN PENGJARAN (E-NILAI)

2019 UNIVERSITY

## 20. VISITING PROFESOR

UNIVERSITI KEBANGSAAN MALAYSIA

2019 NATIONAL

## 21. ACADEMIC ADVISOR

UCSI

2019 NATIONAL

## 22. ACADEMIC ADVISOR

UNIVERSITI KEBNAGSAAN MALAYSIA

2019 NATIONAL

## 23. ACADEMIC ADVISOR

FAKULTI PERGIGIAN USIM PELAJAR USIM KE - 6

2019 UNIVERSITY

## 24. ACADEMIC ADVISOR

UNIVERSITI PUTRA MALAYSIA

2019 NATIONAL

## 25. ANUGERAH PRESTASI CEMERLANG BAGI KATEGORI PEMBENTANGAN TERBANYAK DALAM/LAUR NEGARA

2018 UNIVERSITY

## 26. ACADEMIC ADVISOR

UNIVERSITI PUTRA MALAYSIA

2018 NATIONAL

## 27. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2018 NATIONAL

## 28. ACADEMIC ADVISOR

UNIVERSITI SAINS MALAYSIA (INSTITUT PERUBATAN DAN PERGIGIAN TERMAJU)

2018 NATIONAL

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## 29. WINNER SECOND RUNNER UP FOR POSTER PRESENTATION IN 3RD MSMLT NATIONAL SCIENTIFIC CONFERENCE

2017 NATIONAL

## 30. ANUGERAH TOKOH AKADEMIK (HASANUL MUDIR) USIM

2017 UNIVERSITY

## 31. ACADEMIC ADVISOR

KEMENTERIAN SAINS , TEKNOLOGI DAN INOVASI (MOSTI)

2017 NATIONAL

## 32. VISITING PROFESOR

UNIVERSITI KEBANGSAAN MALAYSIA

2017 UNIVERSITY

## 33. VISITING PROFESOR

FAKULTI PERUBATAN , UNIVERSITI KEBANGSAAN MALAYSIA

2017 NATIONAL

## 34. ACADEMIC ADVISOR

UNIVERSITI PUTRA MALAYSIA

2016 NATIONAL

## 35. ACADEMIC ADVISOR

JAWATANKUASA BERSAMA PENGKHUSUSAN SARJANA PATOLOGI

2016 NATIONAL

## 36. SIJIL KERTAS KERJA TERBAIK , SEMINAR PENYELIDIKAN KEBANGSAAN

2015 NATIONAL

## 37. ACADEMIC ADVISOR

MINISTRY OF HEALTH MALAYSIA

2015 NATIONAL

## 38. ACADEMIC ADVISOR

UCSI

2014 NATIONAL

## 39. ACADEMIC ADVISOR

UNIVERSITI SAINS MALAYSIA

2014 NATIONAL

## 40. ACADEMIC ADVISOR

UNIVERSITI KEBANGSAAN MALAYSIA

2014 NATIONAL

## 41. ACADEMIC ADVISOR

FAKULTI PERUBATAN UNIVESITI . TEKNOLOGI MARA

2014 NATIONAL