STAKAAN HALAYSIA



UNIVERSITI SAINS MALAYSIA GERAN PENYELIDIKAN UNIVERSITI PENYELIDIKAN LAPORAN AKHIR

THE SEARCH FOR MACHANISM OF GENETIC ABBERATION IN THE INFRONIC REGIONS OF THE URIDINE-DIPHOSPATE GLUCURONOSYLTRANSFERASE 1A1 (UGT1A1) GENE AMONG NEONATAL JAUNDICE MALAY INFANTS WITHOUT MUTATIONS IN THE PROMOTER AND EXONIC REGIONS

PENYELIDIK

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2015

BORANG FRGS – P3(R



FINAL REPORT FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)

Laporan Akhir Skim Geran Penyelidikan Fundamental (FRGS)

Pindaan 1/2015

Α RESEARCH TITLE: The search for mechanism of genetic abberation in the intronic regions of the uridinediphospate glucuronosyltransferase 1A1 (UGT1A1) gene among neonatal jaundice Malay infants without mutations in the promoter and exonic regions

PHASE & YEAR: 2015

START DATE: 1st August 2011 END DATE: 31st July 2014 EXTENSION PERIOD (DATE): RMC LEVEL: **KPM LEVEL:**

PROJECT LEADER: Dr. Surini Yusoff I/C / PASSPORT NUMBER: 800718715036

PROJECT MEMBERS: 1. Prof. Hans Van Rostenberghe. (including GRA)

2. Prof. Zilfalil Alwi

- 3. Prof. Narazah Mohd Yusoff
- 4. Assoc. Prof. Dr. Noorizan Haji Abdul Majid
- 5. Rosliza Ismail (MSc student)
- 6. Nurul Amierah Abdullah (MSc student)

PROJECT ACHIEVEMENT (Proses) Projek)

Project progress according to milestones achieved up to this period	0 - 50%	51 - 75%	76 - 100%	
Percentage (please state #%)			100%	
	RESEARCH OU	TRUT		
Number of articles/ manuscripts/	Indexed Journal * 1 paper will be submitted soon (as attached) * 1 paper was prepared as the first draft (as attached)		Non-Indexed Journal	
books (Please attach the First Page of Publication)				
Conference Proceeding	International		National	
(Please attach the First Page of Publication)	1		3	
Intellectual Property (Please specify)				

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		Number				Others	
	Human Capital	On-going		Grad	luated	(please specify)	
	Citizen	Malaysian	Non Malaysian	Malaysian	Non Malaysian	Rosliza Ismail will be submitting 10 copies of	
	No. PHD STUDENT Student Fullname: IC / Passport No: Student ID:	-	-	-	-	her thesis on 17 February 2015.	
		_	-	-	-		
	No. MASTER STUDENT	2	-	-	-		
	Student Fullname: IC / Passport No: Student ID:	Rosliza Ismail 870103035636 PUM0022/12 Nurul Amierah Abdullah 900614035472 PUM0010/13	-	-	-		
	No. UNDERGRADUATE STUDENT	-	-	-	-		
	Student Fullname: IC / Passport No: Student ID:	-	-	-	-		
	Total	-	-	-	-	•	
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Activity	Date (Month, Year)	Organizer
(e.g : Course/ Seminar/ Symposium/ Conference/ Workshop/ Site Visit)		
1. Health and Life Sciences Postgraduate Conference (HeLiPC) (Oral presentation)	10-11 June 2014	Institute for Research in Molecular Medicine (INFORMM) Universiti Sains Malaysia
Title: Association of polymorphisms in intronic region of the uridine diphosphate glucuronosyltransferase 1A1 (UGT1A1) gene among Malay Kelantanese neonates with and without neonatal hyperbilirubinaemia		
2. Health and Life Sciences Postgraduate Conference (HeLiPC) (Oral presentation)	10-11 June 2014	Institute for Research in Molecular Medicine (INFORMM) Universiti Sains Malaysia
Title: Genetic Lesion Analysia of A(TA)7TAA in the Promoter Region of UGT1A1 Gene among Malay Kelantanese Infants by High Resolution Melting Analysis		
3. 6 th National PaediatricResearch Conference (Oral presentation)	6-7 Dec 2013	College of Paediatric, Academy of medicine of Malaysia
Title: Screening of the c3156 G>A in the Uridinediphosphate glucuronosyltransferase 1A1 (<i>UGT1A1</i>) Gene; the High Resolution Melting Analysis (HRMA) among Malay Kelantanese Infants with Hyperbilirubinemia		

E PROBLEMS// CONSTRAINTS IF ANY (Masalah// Kakangan sakiranya 2014)

Have problem with optimization and purchasing reagents take longer time. Therefore the project cannot be completed on time.

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	ve been focusing on the endetermining the risk factor				
region as a part of	of it. This study was conduc	cted to determine the	possibility of inv	olvement of polym	orphisms in the
was rely on the o	mong neonatal jaundice Mal	nce there were still n	any infants deve	loped jaundice witl	nout exhibit an
target polymorphis	the exons of the UGT1A1 sms and confirmed by sequ	encing analysis. A tol	al of 510 (n=260	samples of non-hy	perbilirubinemia
the promoter region	amples of hyperbilirubinemic on evaluated,only c3279T>	G was associated will	h neonatal jaundi	ce and was statisti	cally significant
hyperbilirubinemia	isms were detected in the group while IVS2+82 (C>	T) was identified in	hyperbilirubinem	a group. However	r, no significan
association was for population.	ound. Therefore, so far only	y the c3279T>G is a	a possible risk fa	ctor of neonatal jai	undice in Mala
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