

BIODATA

Name: Teh Lay Kek
Academic Position: Professor & Deputy Director, Integrative Pharmacogenomics Institute, Universiti Teknologi MARA, Malaysia
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Being one of the few PhD graduates in pharmacogenetics in early 2000, Teh had conducted research to understand the impact of pharmacogenetics and developed simple PCR based methods for detection of genetic variants. A few genotyping tests are currently in use to help the doctor (i) to identify patients at risk of severe adverse effect such as carbamazepine induced Steven Johnson syndrome and Toxic Epidermal Necrolysis (HLA-B*15:02 genotyping kit), warfarin induced fatal bleeding and aspirin induced gastritis; (ii) to identify patients resistant to clopidogrel, warfarin, primaquine, antipsychotic drugs, tamoxifen. Together with the research team, they had also developed sport genomics, nutrigenetics and food allergies genetic tests to enhance sport and food industries in moving forward with more precise strategies. These genetic tests had won innovation awards at national and international levels and some of the primers and detection protocol had received patents and copyrights.

Prof. Teh and the research team is the first group in Malaysia that had successfully sequenced and reported on the whole genome sequences of an individual Malay in 2013. They subsequently developed whole genome sequencing pipeline and genotype-phenotype database, which are currently used for precision health. They had established a start-up company registered as Zakesy Biotech S/B to commercial Personal Genome Analysis and pharmacogenotyping tests. Currently, they are also working with other healthcare industries to transfer our technology know how to realise the benefit of genomics medicine. They are also serving the hospitals to identify the genetic cause underlying the complex or rare diseases by patients. Two interesting cases that we had successfully identified the genetic causes are the Danon Disease and Cadasil which had helped the clinician optimised and personalised treatment for the patients.

Precision Health has promised better health for everyone using the cutting-edge omics technologies. We are working with the industry partners to deliver the promises of Precision Health in building a healthier nation.

She has won several grants and were the principal Investigator for a total grants and contract research amounting to RM 1.9 million. She had supervised and graduated 10 PhD and 15 MSc scholars. She is currently supervising 4 PhD and 7 MSc. In addition, she has 3 patents and 1 trademark registered. A total of publications authored by Teh Lay Kek is 127 with a citation of 2127 and *h-index* of 25. She is also the President for Malaysian Metabolomics Society and Co-Chair for Pharmacogenomics Global Research Network, Developing Countries (Asian Countries).

EDUCATION

Doctor of Philosophy (Pharmacology), 2002, Universiti Sains Malaysia
Master of Clinical Pharmacy, 1997, Universiti Sains Malaysia
B.Pharm. (Hons.), 1995, University of Nottingham, UK
Professional Registered Pharmacist (Malaysia)

EMPLOYMENT

Universiti Teknologi MARA Integrative Pharmacogenomics Institute Faculty of Pharmacy	(since 2003) Research Fellow Lecturer
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Sesama Equilab	(2001-2002) Chief Scientist
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Department of Pharmacy, Faculty of Medicine, Universiti Malaya	(1997-2001) Lecturer
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RESEARCH /TEACHING

1. Experimental and Clinical Pharmacogenomics
2. Clinical and experimental Metabolomics
3. Precision Health Teaching Area
4. Basic Pathology for Pharmacy.
5. Clinical Pharmacokinetics.
6. Clinical Pharmacy Concept.
7. Research Instrumentation.
8. Metabolomics
9. Pharmacogenomics

Involvement as Committee Members and Activities

1. Deputy Director of Integrative Pharmacogenomics Institute (iPROMISE), Universiti Teknologi MARA (2013 - till now)
2. President of Malaysian Metabolomics Society (2020 - till now)
3. Co-Chair, Developing World, Pharmacogenomics Research Network (2021 – till now)
4. Grant evaluator, Ministry of Higher Education, Malaysia (2019- till now)
5. Founding Member, Pharmacogenomics Centre (PROMISE) (Sept 2008 –)
6. Founding Member, Malaysian Society for the Advancement of Pharmacogenomics
7. Secretary, Malaysian Society for the Advancement of Pharmacogenomics (2004-2006)
8. Vice President & Founding Member, Malaysian Metabolomics Society
9. Adjunct Professor Academy of Science India, Institute Genomics Integrative Biology, India (2014-2016)
10. Article Reviewer for International Journals
Journal of Clinical Pharmacy & Therapeutics, <http://mc.manuscriptcentral.com/jcpt>,
Future Medicine. <http://www.futuremedicine.com/>,
Clinical Chemistry and Laboratory Medicine (CCLM). <http://www.degruyter.com/view/j/cclm>
11. International Grant Reviewer: National Health Institute, Singapore, 2014
12. Member of Editorial Board, Evidence-Based Complementary and Alternative Medicine, since 2015
13. Task force Committee Member on the Study on the Future Direction for Higher Education in the Institute of Higher Education in Malaysia – Pharmacy Program, Ministry of Higher Education Malaysia
14. Task Force Committee Member on Relationship of HLAB*1502 with Cutaneous Reaction of Antiepileptic Drugs, Ministry of Health Malaysia
15. Member of Evaluation and Registration Committee for Pharmacists and Organisation [Jawatankuasa Penilaian Ijazah dan Pendaftaran Ahli Farmasi dan Pertubuhan Perbadanan (JKIP)], Board of Pharmacy, Ministry of Health Malaysia, 1 Jan 2010 – 1 Jan 2013

RESEARCH FUNDINGS

RMI File No	Project Title	Start Date	End Date	Role	Grant Type	Level	Total (RM)
600-RMC/DINAMIK-POSTDOC 5/3 (010/2020)	COMPARISON ANALYSIS OF THE WHOLE GENOME ANALYSIS OF MTB; THE PATHOGENICITY, VIRULENCE, MUTATION MAP FOR THE CONTROL OF TB	01-12-2020	30-11-2022	Project Leader	DINAMIK POSTDOC (DINAMIK POSTDOC)	UNIVERSITY	136,800.00
600-IRMI/FRGS 5/3 (455/2019)	DETERMINANTS OF EXECUTIVE PERFORMANCE FUNCTION OF THE YOUNGER GENERATION: UNDERSTANDING THE GENETIC VARIATION OF BDNF-TRKB AND MICRORNA REGULATORY	01-09-2019	31-05-2023	Project Leader	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	182,800.00

	ROLES						
600-IRMI/DINAMIK-POSTDOC 5/3 (012/2018)	GENETIC PROFILING OF DRUG METABOLIZING ENZYMES IN DRUG THERAPY OPTIMIZATION FOR BREAST CANCER TREATMENT	01-01-2018	30-04-2021	Project Leader	DINAMIK POSTDOC (DINAMIK POSTDOC)	UNIVERSITY	153,216.00
600-IRMI/MYRA 5/3/MITRA (005/2017)-1	THE GENOMES THAT DEFINE THE DOUBLE SWORD OF STRENGTH-ENDURANCE CONTINUUM AMONG THE ELITE MALAYSIAN ATHLETES	01-10-2017	27-09-2020	Project Leader	MITRA (MITRA)	UNIVERSITY	43,400.00
600-IRMI/DANA 5/3/BESTARI (066/2017)	ANXIOLYTIC EFFECTS OF MORINGA OLEIFERA EXTRACT USING CHRONIC UNPREDICTABLE STRESS ZEBRAFISH MODEL	01-10-2017	26-09-2020	Project Leader	BESTARI (BESTARI)	UNIVERSITY	45,000.00
600-RMI/TRGS 5/3 (1/2014)-3	COMPUTATIONAL STUDIES ON CHALCONE AND FLAVONE DERIVATIVES AS MULTI-TARGET INHIBITORS: TOWARDS ANTI-INFLAMMATORY THERAPY	01-10-2014	30-03-2018	Project Leader	TRANS DISCIPLINARY RESEARCH GRANT (TRGS) (TRGS)	NATIONAL	467,000.00
600-RMI/ERGS 5/3 (35/2013)	TRANSGENERATIONAL EPIGENETICS IN SUBSTANCE ABUSE: EXPLORING THE INHERITABLE DNA METHYLATION UNDERLYING THE AGGRESSIVE BEHAVIOUR AND ALTERED STRESS RESPONSE	01-06-2013	30-12-2016	Project Leader	EXPLORATORY RESEARCH GRANT SCHEME (ERGS)	NATIONAL	224,000.00
600-RMC/MOSTI-SRF/5/3 (005/2021)	DISCOVERY OF NEW COVID-19 VARIANTS VIA A LARGE SCALE GENOME SURVEILLANCE PROGRAM: A PILOT OF 3000 GENOMES	15-06-2021	14-10-2022	Member	MINISTRY OF SCIENCE, TECHNOLOGY & INNOVATION (MOSTI)	NATIONAL	420,000.00

600-UiTMSEL (PI. 5/4) (022/2020)	SPATIAL ASSOCIATION OF URBAN LIFESTYLE WITH RESPIRATORY INFECTION IN PETALING DISTRICT, SELANGOR.	01-07-2020	30-06-2022	Member	DANA DUCS (DANA DUCS)	UNIVERSITY	20,000.00
600-UiTMSEL (PI. 5/4) (007/2020)	ACE2 POLYMORPHISM: THE HUMAN KEY FOR COVID-19 ENTRY AND SEVERITY	01-07-2020	30-06-2022	Member	DANA DUCS (DANA DUCS)	UNIVERSITY	20,000.00
600-RMC/GPK 5/3 (276/2020)	IDENTIFICATION OF GENETIC FACTOR ASSOCIATED WITH AORTIC ANEURYSM AND DISSECTION (AAD): A GENOME MINING AND META-ANALYSIS STUDY	21-12-2020	18-06-2023	Member	SPECIAL RESEARCH GRANT (GPK)	UNIVERSITY	20,000.00
600-RMC/GPK 5/3 (076/2020)	A METABOLOMICS STUDY OF A NOVEL QUINAZOLINE-SULFONAMIDE DERIVATIVE AS NOVEL ANTI-NEOPLASTIC AGENTS AGAINST BREAST CANCER CELL LINES	21-12-2020	18-06-2023	Member	SPECIAL RESEARCH GRANT (GPK)	UNIVERSITY	20,000.00
600-UiTMSEL (PI. 5/4) (005/2020)	DIFFERENTIAL PROTEIN EXPRESSIONS ASSOCIATED WITH POROUS NICKEL TITANIUM DENTAL IMPLANT HEALING	01-07-2020	30-06-2022	Member	DANA DUCS (DANA DUCS)	UNIVERSITY	20,000.00
600-RMC/PRGS 5/3 (004/2020)	DEVELOPMENT OF BIOENHANCED FICUS DELTOIDEA (MAS COTEK) FORMULATION AS A THERAPEUTIC SUPPLEMENT FOR METABOLIC SYNDROME	01-12-2020	30-11-2022	Member	PROTOTYPE RESEARCH GRANT SCHEME (PRGS)	NATIONAL	334,950.00
600-IRMI/FRGS 5/3 (127/2019)	THE MALAYSIAN FOOTBALL DNA: TAPPING INTO THE GENETIC BLUEPRINT UNDERLYING THE MALAYSIAN FOOTBALL PHILOSOPHY	01-01-2019	30-09-2022	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	79,900.00

600-IRMI/FRGS-RACER 5/3 (045/2019)	ELUCIDATING THE REGULATION OF WOUND HEALING GENES BY BAECKEA FRUTESCENS ETHANOLIC EXTRACT	01-09-2019	31-05-2022	Member	THE FUNDAMENTAL RESEARCH GRANT SCHEME FOR RESEARCH ACCULTURATION OF EARLY CAREER RESEARCHERS (FRGS RACER)	NATIONAL	51,200.00
600-IRMI/FRGS-RACER 5/3 (116/2019)	INVESTIGATING ANTI-PROLIFERATIVE EFFECT OF CHALCONE DERIVATIVES AGAINST BREAST CANCER: IN SILICO AND IN VITRO APPROACHES	01-09-2019	31-05-2022	Member	THE FUNDAMENTAL RESEARCH GRANT SCHEME FOR RESEARCH ACCULTURATION OF EARLY CAREER RESEARCHERS (FRGS RACER)	NATIONAL	51,200.00
600-IRMI/FRGS 5/3 (244/2019)	SECONDARY METABOLITES OF TACCA INTEGRIFOLIA WITH ANTI-PROLIFERATIVE PROPERTIES: FACTORS AND MECHANISMS IN REGULATING THE EXPRESSION OF GENES TO ENHANCE THE YIELD	01-09-2019	31-05-2023	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	153,700.00
600-IRMI/DANA 5/3/BESTARI (P) (006/2018)	DOMINATOR OF SUCCESS: YOUR GENE AND PERSONALITY TRAIT	01-01-2018	31-12-2019	Member	BESTARI (BESTARI)	UNIVERSITY	35,000.00
600-IRMI/FRGS 5/3 (010/2017)	UNDERSTANDING THE RELATIONSHIP OF GUT AND ORAL MICROBIOTA WITH COGNITIVE AND BEHAVIORAL STRESS RESPONSE AMONG UNIVERSITY STUDENTS	15-08-2017	14-11-2021	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	137,270.00

100-IRMI/PRI 16/6/2 (0007/2016)	CROSS KINGDOM COMMUNICATION : AN EVALUATION OF THE SYNERGISTIC ANTI - PROLIFERATIVE EFFECTS OF NANOVESICLE EXOSOME LIKE - STRUCTURE (NELS) IN STROBILANTHES CRISPUS, CITRUS LEMON AND CLINACANTHUS NUTANS	01- 01- 2017	31-12- 2017	Member	OTHER GRANTS (OTHER GRANTS)	PRIVAT E	10,000.00
600- IRMI/PRGS 5/3 (001/2017)	BUILDING THE CHAMPION: A GENE TOOL FOR TALENT IDENTIFICATION AND PERFORMANCE ENHANCEMENT IN SPORTS	15- 08- 2017	14-02- 2020	Member	PROTOTYPE RESEARCH GRANT SCHEME (PRGS)	NATION AL	102,820.00
600- IRMI/MYRA 5/3/MITRA (005/2017)-3	ACCURATE ASSESSMENT OF MICRONUTRIENTS IN THE ELITE ATHELETS : A NEED FOR PERSONALIZED DIET THERAPY	01- 10- 2017	27-09- 2020	Member	MITRA (MITRA)	UNIVER SITY	36,600.00
600- IRMI/FRGS 5/3 (010/2017)	UNDERSTANDING THE RELATIONSHIP OF GUT AND ORAL MICROBIOTA WITH COGNITIVE AND BEHAVIORAL STRESS RESPONSE AMONG UNIVERSITY STUDENTS	15- 08- 2017	14-11- 2021	Member	FUNDAMENT AL RESEARCH GRANT SCHEME (FRGS)	NATION AL	137,270.00
600- IRMI/LRGS 5/3 (0003/2016)	MUTATION ANALYSIS OF MDR-TB STRAINS ISOLATED IN MALAYSIA	01- 07- 2016	30-09- 2021	Member	LONG TERM RESEARCH GRANT SCHEME (LRGS)	NATION AL	429,300.00
600- RMI/FRGS 5/3 (0119/2016)	ELUCIDATION OF MICROBIAL BIOTRANSFORMED MECHANISM OF ANTITUMOR AGENTS USING METABOLOMICS AND GENE EXPRESSION ANALYSIS	01- 08- 2016	31-01- 2019	Member	FUNDAMENT AL RESEARCH GRANT SCHEME (FRGS)	NATION AL	103,000.00
600- RMI/RAGS 5/3 (43/2014)	METABOLOMIC ANALYSIS OF OVARIAN AGING IN MOUSE SUPPLEMENTED WITH TOCOTRIENOL	01- 12- 2014	31-05- 2017	Member	RESEARCH ACCULTURAT ION GRANT SCHEME (RAGS)	NATION AL	80,000.00

600-RMI/TRGS 5/3 (1/2014)-4	ELUCIDATING THE MOLECULAR MECHANISMS OF THE ANTI-INFLAMMATORY PROPERTIES OF CHALCONE AND FLAVONES DERIVATIVES	01-10-2014	30-03-2019	Member	TRANS DISIPLINARY RESEARCH GRANT (TRGS) (TRGS)	NATION AL	365,000.00
600-RMI/RAGS 5/3 (159/2013)	UNDERSTANDING FACIAL EXPRESSION OF SCHIZOPHRENIA : USE OF INNOVATIVE PHOTOGRAPHY	15-09-2013	15-03-2016	Member	RESEARCH ACCULTURAT ION GRANT SCHEME (RAGS)	NATION AL	50,000.00
600-RMI/FRGS 5/3 (116/2013)	DISSECTING THE MOLECULAR MECHANISMS OF GARCINIA ATROVIRIDIS IN TRANSGENERATIONAL INHERITANCE OF EPIGENETICS IN DIET-INDUCED OBESE RATS	15-11-2013	15-05-2016	Member	FUNDAMENT AL RESEARCH GRANT SCHEME (FRGS)	NATION AL	150,000.00
600-RMI/RAGS 5/3 (88/2013)	MECHANISMS OF ACTIONS OF RANIBIZUMAB ON HUMAN TENON'S FIBROBLAST GROWTH : A POTENTIAL ANTI-SCARRING AGENT IN TRABECULECTOMY	15-09-2013	15-09-2016	Member	RESEARCH ACCULTURAT ION GRANT SCHEME (RAGS)	NATION AL	80,000.00
100-RMI/MOSTI 16/6/2 (2/2012)	GENOME-WIDE GENETIC MARKER DISCOVERY AND GENOTYPING OF MALAYSIAN MAHSEER (TOR SPP.) USING NEXT GENERATION SEQUENCING	01-01-2013	31-12-2015	Member	MINISTRY OF SCIENCE, TECHNOLOGY & INNOVATION (MOSTI)	NATION AL	600,000.00
600-RMI/ERGS 5/3 (38/2013)	BONE REMODELING IN THE OROMAXILLOFACIAL REGION FOLLOWING REDUCED FUNCTION: IMPLICATION OF WOLFF'S LAW AND GENETIC POLYMORPHISMS OF FGFR1OP2/WIT3.0	01-06-2013	28-02-2017	Member	EXPLORATOR Y RESEARCH GRANT SCHEME (ERGS)	NATION AL	171,174.00
600-RMI/LRGS 5/3 (3/2012)	AD BLOOD BIOMARKERS AND PATHWAY ANALYSIS IN THE HUMAN SUBJECT : AN INTEGRATIVE-OMICS APPROACH	01-07-2012	31-12-2016	Member	LONG TERM RESEARCH GRANT SCHEME (LRGS)	NATION AL	1,154,564.00

600-RMI/DANA 5/3/RIF (626/2012)	PROFILING THE METABOLOME SIGNATURES OF GUT MICROBIOTA IN OBESE SUBJECTS IN UNDERSTANDING THE EFFECT OF PHYSICAL INDUCED WEIGHT LOSS	01-11-2012	31-10-2014	Member	RESEARCH INTENSIVE FACULTY GRANT (RIF)	UNIVERSITY	6,581.18
600-RMI/RAGS 5/3 (93/2012)	UNRAVELING THE GENETIC VARIATION OF HUMAN GLUCOCORTICOID RECEPTOR (HGR) AND ITS IMPACT ON REGULATION OF LIPID METABOLISM	15-12-2012	14-12-2014	Member	RESEARCH ACCULTURATION GRANT SCHEME (RAGS)	NATIONAL	80,000.00
600-RMI/DANA 5/3/RIF (29/2012)	INVESTIGATING THE GENETIC POLYMORPHISM OF HUMAN GLUCOCORTICOID RECEPTOR (HGR) AND ITS IMPACT ON OBESITY-A PILOT STUDY	01-05-2012	30-04-2014	Member	RESEARCH INTENSIVE FACULTY GRANT (RIF)	UNIVERSITY	20,000.00
600-RMI/LRGS 5/3 (2/2012)	INTEGRATIVE SYSTEMATIC BIOLOGY IN UNDERSTANDING THE CELLULAR AND MOLECULAR MECHANISMS OF LOCALLY DERIVED FEED SUPPLEMENTS FOR POULTRY	01-07-2012	30-12-2017	Member	LONG TERM RESEARCH GRANT SCHEME (LRGS)	NATIONAL	2,125,174.00
600-RMI/DANA 5/3/RIF (33/2012)	A PILOT STUDY ON OCULAR PHARMACOKINETICS OF TAZOCIN (PIPERACILLIN/TAZOBACTAM)	01-05-2012	30-04-2014	Member	RESEARCH INTENSIVE FACULTY GRANT (RIF)	UNIVERSITY	0.00
600-RMI/RAGS 5/3 (98/2012)	EFFECTS OF ELETROMAGNETIC RADIATION ON RETINAL GANGLION CELSS IN VITRO	15-12-2012	14-06-2015	Member	RESEARCH ACCULTURATION GRANT SCHEME (RAGS)	NATIONAL	80,000.00

600-RMI/ERGS 5/3 (52/2012)	IDENTIFICATION AND FUNCTIONAL STUDIES OF PUTATIVE MIRNA DURING MIRNA MATURATION OF A POLYSISTRONIC MIRNA FOR CONTROLLING HUMAN CARCINOGENESIS	01-07-2012	30-03-2016	Member	EXPLORATORY RESEARCH GRANT SCHEME (ERGS)	NATIONAL	150,000.00
600-RMI/ERGS 5/3 (50/2012)	EXPLORING THE METABOLIC REGULATORY NETWORKS OF VIRULENCE AND RESISTENCE BEHAVIOUR OF PATHOGENIC KLEBSIELLA PNEUMONIAE AND PROTEUS MIRABILIS USING WHOLE GENOME SEQUENCING, PROTEOMICS AND METABOLOMICS APPROACHES	01-07-2012	30-06-2015	Member	EXPLORATORY RESEARCH GRANT SCHEME (ERGS)	NATIONAL	146,000.00
600-RMI/FRGS 5/3 (66/2012)	FULL-LENGTH CLONING AND CHARACTERIZATION OF NOVEL LUNG CANCER MRNA TRANSCRIPTS BY MASSIVELY-PARALLEL SEQUENCING	15-04-2012	14-10-2015	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	135,850.00
600-RMI/ERGS 5/3 (7/2012)	ELUCIDATION OF PROTEASE ENZYME STABILITY IN GEOBACILLUS THERMOCATENULATUS USING GENOMIC AND PROTEOMIC APPROACHES	01-07-2012	30-06-2015	Member	EXPLORATORY RESEARCH GRANT SCHEME (ERGS)	NATIONAL	78,000.00
600-RMI/RAGS 5/3 (99/2012)	PATHOPHYSIOLOGY UNDERLYING OBESITY USING METABOLOMICS APPROACHES	15-12-2012	14-06-2015	Member	RESEARCH ACCULTURATION GRANT SCHEME (RAGS)	NATIONAL	80,000.00
100-RMI/SF 16/6/2 (17/2012)	HIGH SENSITIVITY OPTIMAL PATH TRACE BACK SYSTEM DEVELOPMENT BASED ON VETERBI ALGORITHM FOR DNA SEQUENCES ALIGNMENT ACCELERATOR APPLICATION	01-04-2012	31-03-2014	Member	eScienceFund (eScienceFund)	NATIONAL	177,000.00

600-RMI/FRGS 5/3 (63/2012)	METAGENOMICS AND METABOLOMICS ANALYSIS OF HUMAN GUT MICROBIOTA: EVALUATION OF THE PREDISPOSING MECHANISMS AND PROBIOTIC EFFECTS ON OBESITY	15-04-2012	15-04-2015	Project Leader	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	194,350.00
600-RMI/LRGS 5/3 (1/2011)-1	UNRAVELING THE GENOMICS ARCHITECTURE OF THE FRAGILE POPULATION OF ABORIGINES IN UNDERSTANDING THEIR ADAPTATION AND PHENOMENA OF NATURAL SELECTION	01-09-2011	31-03-2017	Member	LONG TERM RESEARCH GRANT SCHEME (LRGS)	NATIONAL	4,625,352.00
600-RMI/ST/DAN A 5/3/Dst (419/2011)	GENETIC POLYMORPHISM OF ANTIOXIDANT GENES: IMPLICATION OF OPTIC NERVE HEAD ABNORMALITY IN GLAUCOMA PATIENTS	01-10-2011	30-09-2013	Member	EXCELLENCE FUND (DKCM)	UNIVERSITY	10,000.00
600-RMI/LRGS 5/3 (1/2011)-2	AN INTEGRATED ANTHROPOLOGICAL APPROACH TOWARDS UNDERSTANDING THE ENDANGERMENT AND SUSTAINABILITY OF THE ABORIGINE	01-09-2011	31-03-2017	Project Leader	LONG TERM RESEARCH GRANT SCHEME (LRGS)	NATIONAL	136,139.00
100-RMI/PRI 16/6/2 (2/2011)	BIONEXUS PARTNERING PROGRAMME : INTEGRATED SYSTEMATIC BIOLOGY UNIT	19-09-2011	18-09-2012	Project Leader	OTHER GRANTS (OTHER GRANTS)	PRIVATE	237,546.00
600-RMI/ST/FRGS 5/3/Fst (66/2010)	UNRAVELING THE MOLECULAR MECHANISMS ATTRIBUTING TO THE ULTRARAPID METABOLISM OF CYP2C9	01-03-2010	14-12-2013	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	77,500.00
600-RMI/ST/DAN A 5/3/Dst (308/2009)	UNRAVELLING OF THE GENETIC POLYMORPHISM FOR ULTRARAPID METABOLISM OF PHENYTOIN	01-01-2010	31-12-2010	Member	EXCELLENCE FUND (DKCM)	UNIVERSITY	15,000.00

600-RMI/ST/FRGS 5/3/Fst (58/2010)	A WHOLE GENOME ANALYSIS OF THE ADAPTIVE POWER OF S. AUREUS TO ANTIBIOTICS: EMERGENCE OF METHICILLIN-RESISTANT S. AUREUS (MRSA)	01-03-2010	14-02-2012	Member	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	87,500.00
600-RMI/ST/DAN A 5/3/Dst (286/2009)	EVALUATION OF THE VKORC1 HAPLOTYPES IN INDIVIDUALISING WARFARIN THERAPY	01-01-2010	14-03-2013	Member	EXCELLENCE FUND (DKCM)	UNIVERSITY	45,000.00
600-RMI/ST/FRGS 5/3/Fst (63/2010)	HUMAN THROMBOXANE SYNTHASE GENE (CYP5A1)AND GLYCOPROTEIN IIB/IIA COMPLEX: IMPLICATION IN THE MECHANISM OF ASPIRIN RESISTANCE	01-03-2010	14-02-2012	Project Leader	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	97,700.00
100-RMI/SF 16/6/2 (4/2009)	EXPRESSION ANALYSIS OF THIOPURINE METHYLTRANSFERASE (TPMT) ACTIVITY IN LEUKEMIC PATIENTS	01-04-2009	04-09-2013	Member	eScienceFund (eScienceFund)	NATIONAL	200,000.00
600-RMI/ST/DAN A 5/3/Dst (90/2009)	DETECTION AND CHARACTERIZATION OF VOROVIRUS OF OUTBREAKS OF GASTROENRITIS *	15-06-2009	15-06-2011	Member	EXCELLENCE FUND (DKCM)	UNIVERSITY	19,000.00
100-IRDC/SF 16/6/2(76/2007)	CLONING AND EXPRESSION OF NMDA RECEPTOR SUBUNIT AND OBSERVATION OF ITS UP-REGULATION OR DOWN-REGULATION EFFECTS TOWARDS DIFFERENT TYPES OF DRUGS OF ABUSE IN A CELLULAR MODEL	01-10-2007	30-09-2009	Member	eScienceFund (eScienceFund)	NATIONAL	261,600.00
100-IRDC/SF 16/6/2(79/2007)	TACROLIMUS PHARMACOGENETICS: THE INFLUENCE OF GENETIC POLYMORPHISM OF CYP3A5, MDR1 AND PREGNANE X RECEPTOR (PXR) IN TRANSPLANT PATIENTS	01-10-2007	30-12-2009	Member	eScienceFund (eScienceFund)	NATIONAL	229,175.00

	GENETIC POLYMORPHISM OF DRUG METABOLIZING ENZYMES AND ESTROGEN RECEPTOR IN PHARMACOGENETICS OF TAMOXIFEN: IMPLICATION FOR OPTIMIZATION OF BREAST CANCER TREATMENT	01-10-2007	01-04-2010	Project Leader	eScienceFund (eScienceFund)	NATIONAL	200,000.00
600-IRDC/ST/FRGS.5/3/1175	CANCER PHARMACOGENOMICS : THE RELEVANCE OF GENETIC PROFILE IN OPTIMIZATION DRUG THERAPY FOR THIOPURINE AND 5-FLUOROURACILS	01-01-2007	31-12-2010	Project Leader	FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS)	NATIONAL	144,400.00
100-IRDC/SF 16/6/2(6/2007)	MALAYSIAN BASIC BIODIVERSITY GENOMIC DATABASE FOR ALZHEIMER'S DISEASE	01-12-2006	31-03-2009	Member	eScienceFund (eScienceFund)	NATIONAL	214,997.00
100-IRDC/IRPA 16/6/2 (2/2004)	PHARMACOGENOMICS AND DRUG METABOLISM: A STUDY OF MECHANISMS AND APPLICATIONS IN CLINICAL SETTINGS (UNDERSTANDING INDIVIDUAL VARIATIONS IN DRUG RESPONSE: DEVELOPMENT OF RAPID ASSAY FOR CYP AND NAT2 GENOTYPING) 06-02-05-1012-PR 0008/08-01	01-01-2004	31-12-2006	Project Leader	INTENSIFICATION OF RESEARCH IN PRIORITY AREA (IRPA)	NATIONAL	196,000.00
600-IRDC/ST 5/3/684	INVESTIGATION OF GENETIC POLYMORPHISM OF CYP2C9 IN PATIENT ON WARFARIN THERAPY AND THE CLINICAL RELEVANCE	01-03-2004	01-03-2007	Project Leader	INTERNAL GRANT (INTERNAL GRANT)	NATIONAL	50,000.00
600-IRDC/ST 5/3/856	CLONING AND EXPRESSION OF CYTOCHROME P450 II C8: AN IN VITRO SYSTEM FOR ELUCIDATION OF METABOLIC PATHWAY.	01-11-2004	01-10-2005	Project Leader	INTERNAL GRANT (INTERNAL GRANT)	NATIONAL	34,460.00

CONSULTATION

1. IBT- Mitomasa.
2. Metabolomics and accurate mass detection using LCMS-QTOF
3. Quantitative Analysis using LCMS QQQ

4. Personal Genome Analysis / genetic analysis

SELECTED PUBLICATIONS

No.	Title
1.	<u>Metabolite Biomarkers and Predictive Model Analysis for Patients with Type 2 Diabetes Mellitus With and Without Complications.</u> (2023) TL Kek, MS Rofiee, RA Ghani, NAMN Hazalin, MZ Salleh Endocrinology Research & Practice 27 (3)
2.	<u>Kratom (<i>M. speciosa</i>) exposure during adolescence caused long-lasting cognitive behavioural deficits associated with perturbed brain metabolism pathways in adult rats</u> (2023) FW Suhaimi, ANZ Aznal, NAMN Hazalin, LK Teh, Z Hassan, MZ Salleh Behavioural Brain Research 446, 114411
3.	Exploration of the diversity of multi-drug resistant <i>Mycobacterium tuberculosis</i> complex in Lagos, Nigeria using WGS: Distribution of lineages, drug resistance patterns and genetic mutations. (2023) MNF Noorizhab, NZ Abidin, LK Teh, TH Tang, N Onyejepu, C Kunle-Ope, ... Tuberculosis 140, 102343
4.	<u>Signatory metabolomics biomarkers of stress, anxiety, and depression: a proof of concept for precision health among university students: A cross-sectional study</u> NIU Zaman, TL Kek, R Ahmad, MNF Noorizhab, MS Rofiee, RJ James, ... Precision and Future Medicine 7 (1), 33-43
5.	<u>The Predictive Ability of Total Genotype Score and Serum Metabolite Markers in Power-Based Sports Performance Following Different Strength Training Intensities--A Pilot Study.</u> EE Khairul, WAA Wahab, LK Teh, MZ Salleh, MS Rofiee, RMF Raja Azidin, ... Pertanika Journal of Science & Technology 31 (2)
6.	SARS-CoV-2 genomic surveillance in Malaysia: displacement of B. 1.617. 2 with AY lineages as the dominant Delta variants and the introduction of Omicron during the fourth epidemic wave (2022) NAM Azami, D Perera, R Thayan, S AbuBakar, IC Sam, MZ Salleh, ...LK Teh..... International Journal of Infectious Diseases 125, 216-226
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8.	<u>Toward precision nutrition: A cross-sectional study on the genetic risks of nutrients deficiencies and eating behaviors among the Orang Asli and Malays</u> (2022) NA Khoruddin, WF Lim, LK Teh, MNF Noorizhab, FZ Mohd Yusof, ... Precision Medical Sciences 11 (4), 146-154

9.	Adolescent kratom exposure affects cognitive behaviours and brain metabolite profiles in Sprague-Dawley rats (2022) AN Zul Aznal, NA Mohamad Nor Hazalin, Z Hassan, NH Mat, NJY Chear, ... Frontiers in pharmacology 13, 5095
10.	Insight of the mitochondrial genomes of the Orang Asli and Malays: The heterogeneity and the disease-associated variants (2022) A Sukri, MNF Noorizhab, LK Teh, MZ Salleh. Mitochondrion 62, 74-84
11.	Correlations between sports-related polygenic profiles, postural stability, power and strength performances of elite football players. (2022) NE Mohd Fazli, RMF Raja Azidin, LK Teh, MZ Salleh. Sport Sciences for Health 18 (1), 147-154
12.	A systematic review on the cost effectiveness of pharmacogenomics in developing countries: implementation challenges.(2022) A Sukri, MZ Salleh, C Masimirembwa, LK The. The Pharmacogenomics Journal, 1-13
13.	The Association of Urban Lifestyle With Respiratory Illness in Petaling District, Selangor, Malaysia.(2022) Syamin Farhana Ahmad Sanusi, Farah Ayuni Shafie, Siti Rohana Mohd Yatim, Abdul Rauf Abdul Rasam, Teh Lay Kek, Oliver Ling Hoon LehMalaysian Journal of Medicine & Health Sciences 18
14.	Genetic Analysis of a Young Adult Presented with Acute Myocardial Infarction with No Traditional Risk Factors: A Novel Case Report. (2022) H Sani, LK Teh, MN Fakhruzzaman Noorizhab, MZ Salleh, SS Kasim Malaysian Journal of Medicine & Health Sciences 18 (1)
15.	NAT2 polymorphism and clinical factors that increased antituberculosis drug-induced hepatotoxicity Nur Farhana Mohamed Noor, Mohd Zaki Salleh, Mohd Arif Mohd Zim, Zamzurina Abu Bakar, Mohd Nur Fakhruzzaman Noorizhab, Noor Izyani Zakaria, Muhammad Imran Lailanor, Lay Kek Teh. Pharmacogenomics
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24.	The Effects of Exercise on the Psycho-cognitive Function of Brain-Derived Neurotrophic Factor (BDNF) in the Young Adults. (2021) Nur Izzati Umar Zaman, Mohd Zaki Salleh, Najihah Hanisah Marmaya, Haliza Hasan, Mokhtar Muhammad, Sahol Hamid Abu Bakar, Lay Kek The. Journal of Cognitive Sciences and Human Development 7 (1), 33-56
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POSTGRADUATE SUPERVISION

ON-GOING Master (RESEARCH) SUPERVISION (Includes Co-supervision) - 6 students

On-Going PhD SUPERVISION (Includes Co-supervision) – 4 students

MSc. SUPERVISION COMPLETED (as Main-supervision) -13 Students

MSc. SUPERVISION COMPLETED (as Co-supervision) -9 Students

PhD SUPERVISION COMPLETED (as Main supervision) – 5 students

PhD SUPERVISION COMPLETED (as Co supervision) –7 students

Year enrolled	Matriks	Name	Title of project	Status	Role	
2021	2021142609	NUR IZZATI BINTI UMAR ZAMAN	DETERMINANTS OF EXECUTIVE FUNCTION PERFORMANCE OF THE YOUNGER GENERATION: UNDERSTANDING THE GENETIC VARIATION OF BDNF-TRKB AND MICRORNA REGULATORY ROLES	ongoing	Main supervisor	PhD
2019	2019655206	NUR FARHANA BINTI MOHAMED NOOR	Polymorphism Of NAT2 And CYP2E1 Associated With Antituberculosis Induced Hepatotoxicity In Malaysia Patients	ongoing	Main supervisor	MSc
2019	2019144861	MUHAMMAD SHAZLY BIN ROSDY	FROM BEHAVIOUR TO NUMBER: Behavioural Study of the Anxiolytic Effect of Moringa oleifera leaves extract on Danio rerio	ongoing	Main supervisor	MSc
2016	2016898038	RIZAL HUSAINI BIN RAZALI	Understanding The Interpatient Variation Of Methotrexate Response In Childhood Acute Lymphoblastic Leukemia (All)	Graduated	Main supervisor	PhD

2012	2012202956	MOHD SHAFIQ BIN AAZMI	MODULATION OF GUT MICROBIOME BY PROBIOTICS IN OBESITY AND RELATED METABOLIC ABNORMALITIES	Graduated	Main supervisor	PhD
2011	2011645994	MOHD SALLEH BIN ROFIEE	IN VIVO HEPATOPROTECTIVE ACTIVITY OF <i>Muntingia calabura</i> LEAVES EXTRACT: A METABOLOMICS ANALYSIS	Graduated	Main supervisor	PhD
2006	2007149195	NOR IZWANI BINTI MOHAMED	INTERPATIENT VARIABILITY IN TAMOXIFEN RESPONSE AMONG BREAST CANCER PATIENT: THE USE OF PHARMACOGENETICS AND METABOLOMICS IN CLOSING THE GAPS IN CLINICAL PRACTICE	Graduated	Main supervisor	PhD
2005	2006142557	HAZWANIE BT HASHIM	The Importance of Integrated Pharmacogenomics - Metabolomics Approaches in Personalising Medicine For Colorectal Cancer Treated With 5-Fluorouracil	Graduated	Main supervisor	PhD
2011	2011823768	NORNAZLIYA BINTI MOHAMAD	A METABOLOMICS MODEL TO PREDICT THE CARDIOVASCULAR DISORDER AMONG THE ORANG ASLI	Graduated	Main supervisor	MSc
2011	2011277286	HASBULLANI BIN ZAKARIA	RELEVANCE OF GENETIC POLYMORPHISM OF HLA-B*1502 IN CARBAMAZEPINE-INDUCED CUTANEOUS ADVERSE DRUG REACTIONS	Graduated	Main supervisor	MSc
2010	2011215872	NORLEEN BINTI MOHAMED ALI	THE RELEVANCE OF HLA-B*58:01 PHARMACOGENOTYPING IN PERSONALISING ALLOPURINOL THERAPY	Graduated	Main supervisor	MSc
2010	2010986757	NUR JALINNA BINTI ABDUL JALIL	THE IMPLICATION OF THE POLYMORPHISM OF COX-1, UGT1A6, AND CYP2C9 AMONG CARDIOVASCULAR DISEASE (CVD) PATIENTS TREATED WITH ASPIRIN	Graduated	Main supervisor	MSc
2010	2010708411	ERDA SYERENA BINTI ROSLI	COMPARATIVE METABOLIC CHANGES OF TISSUES AND PLASMA IN BREAST CANCER PATIENTS	Graduated	Main supervisor	MSc
2009	2010334475	ASBIYATULAI DA BINTI DERAHMAN	METABOLOMICS STUDY OF ASPIRIN-TREATED CARDIOVASCULAR DISEASE (CVD) PATIENTS ALONG WITH AN INVESTIGATION ON ASPIRIN RESISTANCE	Graduated	Main supervisor	MSc

2009	2009763155	MOHD RAHIMI BIN MUDA	THE INFLUENCE OF GENETIC POLYMORPHISMS OF CYP3A ON THE PHARMACOKINETIC VARIATION AND CLINICAL OUTCOMES OF TACROLIMUS IN A COHORT OF PATIENTS	Graduated	Main supervisor	MSc
2008	2009559217	MOHD IKHWAN BIN ISMAIL	METABOLOMICS STUDY OF CARBAMAZEPINE INDUCED OXIDATIVE STRESS AND POTENTIAL ROLE OF TOCOTRIENOL RICH FRACTION	Graduated	Main supervisor	MSc
2008	2008790001	MOHD IZWAN BIN MOHAMAD YUSOF	IBIO-GUIDED ISOLATION OF ANTINOCICEPTIVE COMPOUNDS FROM <i>Muntingia calabura</i> L. LEAF EXTRACT	Graduated	Main supervisor	MSc
2005	2005222741	RIZA AFZAN ASRI	CLONING AND EXPRESSION OF CYP 2C9= AN ENZYME OF MAJOR IMPORTANCE IN HUMAN DRUG METABOLISM	Graduated	Main supervisor	MSc
2005	2005222734	IZUDDIN FAHMY BIN ABU	PHARMACOGNETICS OF DRUG ADDICTION: THE ROLE OF MUOPIOD RECEPTORS AND DOPAMINE RECEPTORS	Graduated	Main supervisor	MSc
2005	2005782012	AINUL ZAHIAH ABDUL MALIK	CLONING AND EXPRESION OF CYP3A; AN ENZYME OF MAJOR IMPORTANCE IN HUMAN DRUG METABOLISM	Graduated	Main supervisor	MSc
2004	2004634692	MOHD KHAIRI ZAHRI @ JOHARI	NAVIGATING CYP2C8 GENE USING DENATURING HIGH PERFORMANCE LIQUID CHROMATOGRAPHY(DHPLC)	Graduated	Main supervisor	MSc
2019	2019626926	IHSAN SAFWAN BIN KAMARAZAM AN	Elucidating The Regulation Of Wound Healing Genes By <i>Baeckea Frutescens</i> Ethanolic Extract	ongoing	Co supervisor	PhD
2017	2017661722	ELIN ELISA BINTI KHAIRUL	CHANGES IN SPORT RELATED PHYSICAL PERFORMANCE COMPONENTS AMONG MALE FIELD HOCKEY PLAYERS: IMPLICATION OF GENETIC AND TRAINING INTENSITY	ongoing	Co supervisor	PhD
2014	2014667564	PATHIMAH @ FATIMAH BINTI ABDOL LATIF	POTENTIAL <i>Tacea integrifolia</i> (Janggut) ANTIOXIDANT AND ANTIINFLAMMATORY AGENT FROM USING METABOLOMIC APPROACH	ongoing	Co supervisor	PhD
2014	2014591661	MUHD HANIS BIN MD IDRIS	HIT TO LEAD: UNRAVELLING THE POTENTIAL OF FLAVONOIDS AS MULTI-SUBTYPES PHOSPHODIESTERASE (PDE) INHIBITORS	Graduated	Co supervisor	PhD

2013	2013899226	MOHD NUR FAKHRUZZA MAN BIN NOORIZHAB	SYSTEMIC BIOLOGY OF <i>Geobacillus thermocatenulatus</i> UPON THERMAL STRESS INDUCED BY HIGH TEMPERATURE	Graduated	Co supervisor	PhD
2013	2013172087	MOHD IZWAN BIN MOHAMAD YUSOF	METABOLIC RESPONSE OF <i>KLEBSIELLA PNEUMONIAE</i> INFECTION IN AN EXPERIMENTAL RAT MODEL: EFFECTS OF MORINGA OLEIFERA EXTRACT	Graduated	Co supervisor	PhD
2012	2012235358	SITI NOORAISHAH BINTI HUSSIN	UNRAVELLING THE PATHOPHYSIOLOGY OF OBESITY IN MALAY ADULT RESPONDENTS: INTEGRATION OF MULTIPLE DETERMINANT DATA USING GENOMICS AND METABOLOMICS APPROACHES	Graduated	Co supervisor	PhD
2011	2012108165	SHARIFAH NURFAZILAH BINTI WAN YUSOP	MICROBIAL TRANSFORMATION OF STEROIDS AND EVALUATION OF THEIR BIOTRANSFORMED PRODUCTS AS ANTI-PROLIFERATIVE AGENTS AND ACETYLCHOLINESTERASE INHIBITORS (IN-VITRO AND IN-SILICO STUDIES)	Graduated	Co supervisor	PhD
2011	2011986173	MAISARAH BINTI MOHD ZIN	IMMUNOMODULATORY AND ANTI-INFLAMMATORY POTENTIAL OF <i>Myrmecodia platyrea</i> TUBER AQUEOUS EXTRACT: IN VIVO AND IN VITRO APPROACHES	Graduated	Co supervisor	PhD
2011	2011289974	ROSE ISZATI BINTI ISMET NAYAN	WHOLE GENOME SEQUENCING AND ANALYSIS ON THE TRIOS OF THE CHE WONG AND SEMAI: UNDERSTANDING THE MEDICOGENOMIC ASSOCIATION	Graduated	Co supervisor	PhD
2020	2020470774	NURHANANI BINTI AYUB	ANTI-INFLAMMATORY PROPERTIES OF <i>BAECKEA FRUTESCENS</i> EXTRACT	ongoing	Co supervisor	MSc
2017	2017891434	NURUL AMIRA BINTI MOHD SAMSUDIN	THE EFFECTS OF AQUA ZUMBA ON METABOLITE PROFILING AND SELECTED PHYSICAL PERFORMANCES BETWEEN YOUTH AND MIDDLE AGE OBESE WOMEN	ongoing	Co supervisor	MSc
2017	2017871962	WAN ATIYYAH BINTI AB WAHAB	The influence of Genetic Variants on the Effectiveness of Different Endurance Exercise Intensities on Sport Performance Components among Field Male Hockey Players	ongoing	Co supervisor	MSc

2017	2017810384	RUHISY SYAKIRAH BINTI MOHD RASUL	PULMONARY NANO-CARRIER DESIGN & DELIVERY OF SMALL INTERFERING RNA FOR LUNG CANCER TREATMENT	ongoing	Co supervisor	MSc
2016	2016821734	UMI HAIRUN ANIS BINTI ISMAIL	DIFFERENTIAL PROTEIN PROFILE IN BONE REMODELLING INDUCED BY DENTURE WEAR	Graduated	Co supervisor	MSc
2015	2015300741	NORRABIÁT UL ADAWIYAH BINTI AZIZ	THE QUALITY OF OOCYTES AND EMBRYO IN ASSOCIATION WITH METABOLIC CHANGES FOLLOWING TOCOTRIENOL-RICH FRACTION (TRF) SUPPLEMENTATION IN AGING MICE	Graduated	Co supervisor	MSc
2014	2014783395	SITI NORHIDAYU BINTI MOHD AMIN	INHIBITORY ACTIVITIES OF FLAVONOID DERIVATIVES ON CYCLOOXYGENASE-2 (COX-2): IN SILICO MODELLING AND CELL-BASED STUDY	Graduated	Co supervisor	MSc
2011	2011834546	NUR AZWIN BTE ISMAIL	UNDERSTANDING THE GENOMIC INFORMATION OF MYCOBACTERIUM TUBERCULOSIS CAUSING EXTRAPULMONARY TUBERCULOSIS USING WHOLE GENOME SEQUENCING APPROACH	Graduated	Co supervisor	MSc
2011	2011222208	CHE NOR ADLIA BINTI ENCHE ADY	SERUM METABOLIC PROFILING FOR DETECTION OF ALZHEIMER'S DISEASE	Graduated	co supervisor	MSc

Patent approved

A PCR Genotyping Kit for Detection of UGT1A1*6 and UGT1A1*27"
A method for CYP2C9 genotyping and a kit derives thereof , PI 20070175.

Patent filed

Synthesis and isolation of flavonoid that inhibits targets of inflammatory disorders and therefore useful for use as an anti-inflammatory agent (Your ref: IP.5/3/303/PT / Our ref: PT/6512/UiTM/18)

Copyright

- A genotyping kit for HLA-B*15:02, 2014
- IGENME: One Click Away To know Your Genetic Risk (LY2019005096)
- War on Obesity: Garcinia Booster Drink for Fit Body(LY2019005093)
- No Gluten in HLA-DQ: A genotyping test to screen for risk of glutence sensitivity (LY2019004974)
- Genosuccess II – strategize your way to success by knowing your genotype (LY2019004976)

Selected Awards

Anugerah Tokoh Penyelidik UiTM 2022 Majlis Samjung Sarjana 2023

Top Research Scientist Malaysia, 2022 by Academy of Science Malaysia

Gold Medal: Mohd Zaki Salleh, Teh Lay Kek, Muhamad Hisyam Jamari, Mohd Nur Fakruzzaman Noorizhab. HLA Genotyping kit for carbamazepine-associated adverse drug reaction risk. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Gold Medal: Mohd Zaki Salleh, Teh Lay Kek, Muhamad Hisyam Jamari, Mohd Nur Fakruzzaman Noorizhab. Promising precision medicine: the point of care genetic guided warfarinisation. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Silver Medal: Richard Muhammad Johari James, Mohd Zaki Salleh, Teh Lay Kek, Roziah Mohd Janor, Norsuhaila Rosmimi Rosli. Genosuccess II- strategise your way to success by knowing your genotype. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Silver Medal: Teh Lay Kek, Mohd Zaki Salleh, Richard Muhammad Johari James, Mohd Nur Fakruzzaman Noorizhab, Muhamad Hisyam Jamari. No gluten in HLA-DQ: a genotyping test to screen for risk of gluten sensitivity. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Silver Medal: Teh Lay Kek, Mohd Zaki Salleh, Lim Wai Feng, Mohd Salleh Rofiee, Suriati Mohd Nasir. War on obesity: Garcinia boosted drink for fit body. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Silver Medal: Nurul Ain Khoruddin, Mohd Zaki Salleh Teh Lay Kek, Mohd Nur Fakruzzaman Noorizhab. iGenMe: one click away to know your genetic risk. Invention, Innovation & Design Exposition 2019. UiTM Shah Alam

Gold Medal: Richard Muhammad Johari James, Norsuhaila Rosmimi Rosli, Yu Choo Yee, The Lay Kek, Mohd Zaki Salleh, Roziah Janor. Genosuccess- A genotyping kit to identify dominator of success. Invention, Innovation & Design Exposition 2018. UiTM Shah Alam

PECIPTA 2017. Gold Award: Mohd Zaki Salleh, Teh Lay Kek, Ang Geik Yong, Yu Choo Yee, Mohd Nur Fakhruzzaman Norizhab. RT-GeType: Real-time Genotyping Kit for HLA-B*15:02. Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi & Antarabangsa (PECIPTA) 2017, 7-9 Oktober 2017, Terengganu.

BIMB IIDEX 2017 Grand Award: Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam

BIMB IIDEX 2017 Diamond Award: Invention, Innovation & Design Exposition (IIDEX) 2017, 25- 29 September 2017, DATC UiTM Shah Alam

Gold Medal: Mohd Zaki Salleh, Teh Lay Kek, Ang Geik Yong, Yu Choo Yee, Mohd Nur Fakhruzzaman Norizhab. RT-GeType: Real-time Genotyping Kit for HLA-B*15:02. Invention, Innovation & Design Exposition (IIDEX) 2017,

25-29 September 2017, DATC UiTM Shah Alam.

Silver Medal: Mohd Zaki Salleh, Teh Lay Kek, Khong Heng Yen, Ahmad Sazali Hamzah, Muhd Hanis Md. Idris, Nyotia Anak Nyokat. Safe and Effective Next Generation Multi-Target Anti- Inflammatory Drugs. Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam

Silver Medal: Teh Lay Kek, Mohd Zaki Salleh, Richard Muhammad Johari James, Suriati Mohd Nasir, Mohd Hisyam Jamari. Obese No More With Garcinia atroviridis: A Halal Oral Formulation. Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam

Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam
Bronze Medal: Richard Muhammad Johari James, Mohd Zaki Salleh, Teh Lay Kek, Nur Madilawani Badri, Mohd Zulfadhly Jan Jam. X-Lab Logger: A Smartphone App for Laboratory Management. Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam

Bronze Medal: Mohd Salleh Rofiee, Mohd Zaki Salleh, Teh Lay Kek, Mohd Izwan Mohamad Yusof. Say No to Ageing with TGT PRIMAAGE. Invention, Innovation & Design Exposition (IIDEX) 2017, 25-29 September 2017, DATC UiTM Shah Alam

Gold Medal. Pharmacodiagnosics of HLA-B*15:02 for Precision Medicine. 27th International Invention & Innovation Exhibition (ITEX). 5/14/2016

Special Award - Japan Intellectual Property Association. Pharmacodiagnosics of HLA-B*15:02 for Precision Medicine. 27th International Invention & Innovation Exhibition (ITEX). 5/14/2016

Gold Award: Mohd Zaki Salleh*, Teh Lay Kek, Mohd Nur Fakhruzzaman Noorizhab, Mohd Salleh Rofiee, and Mohd Shafiq Aazmi. HLA-B*15:02 Genotyping kit: Drug'em Right: Personalized CPF therapy by HLA-B*15:02 Genotyping kit. PECPITA 2015, 4-6 Dec 2015. KLCC.

Bronze Award: Mohamad Izwan Ismail, Mohd Zakihalani A. Halim, Mohd Maaruf Jaafar, Lee Lian Shien, Teh Lay Kek, Mohd Zaki Salleh*. iPROMISE Pro-TASK DETECTION KIT: Simultaneous Pentaplex Detection of Multiple Pathogens. PECPITA 2015, 4-6 Dec 2015. KLCC.

IIDEX 2015

Gold Award: Mohd Zaki Salleh*, Teh Lay Kek, Mohd Nur Fakhruzzaman Noorizhab, Mohd Salleh Rofiee, and Mohd Shafiq Aazmi. HLA-B*15:02 Genotyping kit: Drug'em Right: Personalized CPF therapy by HLA-B*15:02 Genotyping kit. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Gold Award: Mohamad Izwan Ismail, Mohd Zakihalani A. Halim, Mohd Maaruf Jaafar, Lee Lian Shien, Teh Lay Kek, Mohd Zaki Salleh*. iPROMISE Pro-TASK DETECTION KIT: Simultaneous Pentaplex Detection of Multiple Pathogens. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Gold Award : Tuan Azlin Tuan Abdul Aziz, Elly Ezlinda Abdul Hisam, Noor Syakila Azman, Nur Syakila Mohd Zaki,

Teh Lay Kek. MU-K, 4 IN 1 CREAM WITH ANTIBACTERIAL, ANTIOXIDANT, WHITENER AND MOISTURISER FOR YOUR SKIN. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015

Silver Award: Mohd Nur Fakhruzzaman Noorizhab, Teh Lay Kek, Mohd Zaki Salleh, Bibi Aishaiah Jan Salamata Rosa Iszati Ismet. iPROMISE P450 Pharmacodiagnostic Kit: Increase Your Confidence In Drug Use. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Silver Award: Suriati Mohd Nasir, Teh Lay Kek, Bibi Aishaiah Jan Salamata, Mohd Hafidz Mohd Izhar, Mohd Zaki Salleh. GAin Control: Let The Fat Burn. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Silver Award : Mohd Izwan Mohamad Yusof, Mohd Zaki Salleh, Teh Lay Kek, Siti Norhidayu Mohd Amin & Siti Norhidayah Mohd Amin. Androgia Balm. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Bronze Award : Farah Naquiah Mohd Zaki, Noor Saadah sahak, Mohd Salleh Rofiee, Teh Lay Kek & Mohd Zaki Salleh. MU-K ANTIBACTERIAL SOAP. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Bronze Award : Adzrool Idzwan Ismail, Fadli Abdul Razak, Muhammad Asri Azuddin, Mohd Zaki Salleh & Teh Lay Kek. CREATIVE RESEARCH: THROUGH THE LENSES OF PHOTOGRAPHERS. Invention, Innovation & Design Expo 2015 (iidex2015) 27-30 April 2015.

Gold Medal. GENOTYPING KIT FOR HLA-B* 1502: Pharmacodiagnostic Tool in Reducing Adverse Drug Reaction. Teh Lay Kek. BioMalaysia 2011.

Silver Medal: MDR1 Haplotype detection kit. , Mohd Zaki Salleh, Sharina Hamzah, Teh Lay Kek, Fazleen Haslinda Mohd Hatta. 34th International Exhibition of Invention, New Techniques and Product of Geneva. 6th-10th Apr 2011(MZ Salleh, Sharinah Hamzah, Teh LK)

Gold Medal: "A PCR Genotyping Kit for Detection of UGT1A1 Kit in Colon Cancer" NPEX di Monroeville Convention Centre, Monroeville, PA, Pittsburgh, US, 2010. (MZ Salleh, Hazwanie Hashim, Teh LK)

Gold Medal: INPEX, Pittsburg USA. MZ Salleh, Hazwanie Hashim, Teh LK. PROMISE™ UGT1A1 KIT FOR PHARMACOGENOTYPING OF IRINOTECAN

Gold Medal: IID 2009, UiTM: PROMISE TPMT Kit for personalized treatment of thiopurine drugs. Mohd Zaki Salleh, Wan Rosalina Wan Rosli, Teh LK, Rosmadi MY, Fazleen HMH, A Rahman A Jamal, Neoh Hui-Min.

Silver Medal: PECIPTA 2009: PROMISE TPMT Kit for personalized treatment of thiopurine drugs. Mohd Zaki Salleh, Wan Rosalina Wan Rosli, Teh LK, Rosmadi MY, Fazleen HMH, A Rahman A Jamal, Neoh Hui-Min.

Gold Medal: 34th International Exhibition of Invention, New Techniques and Product of Geneva. PharmacoDiagnostic: A simple genotyping kit for human CYP2C9

Bronze Medal: Biotechnology Asia 2005, 16 – 18 Aug 2005, PWTC Kuala Lumpur: Raplex: Rapid Multiplex PCR for Genotyping of CYP2C8

Gold Medal: at IPTA Exhibition. Raplex: Rapid Multiplex PCR Kit for Genotyping of CYP2C8

Best Booth Exhibition at IRPA Seminar 2005, 25-27 Feb 2005, Marriot Putrajaya. IRPA Prioritised Top Down Research: Pharmacogenomics and Drug Metabolism: A Study of Mechanisms and Applications in Clinical Settings. Project 1: Understanding Individual Variations in Drug Responses: Development of Rapid Assays for CYP and NAT2 Genotyping.

Best Oral Presentation at The 1st National Colloquium And Workshop In Pharmacogenetics. 1st To 4th April 2004. INFORMM, USM. Heterogeneity Of N-Acetyltransferase 2 Among Malays In Malaysia. WWY Nazirah, HMN Mega, LK Teh, C Waminuddin, MH Hani, Y Ashari, M Aziah, KH Yuen, R Ismail.

Second Best Oral Presentation at The 1st National Colloquium And Workshop In Pharmacogenetics. 1st To 4th April 2004. INFORMM, USM. Successful Expression of Recombinant Human CYP2D6 in Escherichia coli . WL. Lee, F.Z. Zainul, Y.D. Muthiah, CE. Ong, LK. Teh, R Ismail.