

Dr Christina Gertrude Yap

Academic Position	Senior Lecturer, Monash University Malaysia
Academic Qualification	<p>1990 Diploma in Medical Laboratory Technology, Majoring in Pharmacology and Physiology (Double Major) School of Medical Sciences, Universiti Sains Malaysia, Pulau Pinang.</p> <p>2001 Bachelor of Biomedical Sciences (Honors). Faculty of Medicine, University Malaya. Kuala Lumpur.</p> <p>2005 Masters in Medical Sciences Department of Physiology, Faculty of Medicine, University Malaya. Kuala Lumpur</p> <p>2010 PhD in Medicine (Medical Biochemistry and Molecular Biology) Jeffery Cheah School of Medicine and Health Sciences, Monash University, Sunway Campus.</p> <p>2015 Graduate Certificate in Higher Education GCHE (Monash)</p>

Special Trainings

- 1997 Attended a workshop and training on the use of GCMS (Gas Chromatography Mass Spectrometry); Organized by Shimadzu Asia Pacific held at their head office in Singapore on 25th Feb - 1st Mar 1997.
- 2001 Fundamental of Atomic Absorption Spectrophotometer on 29th May 2001 held at Shimadzu (Asia Pacific) Pte Ltd, Singapore.
- 1989 High Performance Liquid Chromatography (HPLC) in the detection of Quinine and submitted a dissertation as practical fulfillment for the Diploma in Medical Laboratory Technology.
- 1989 I have carried out an Elective project in Anesthesia and submitted a report. This was also as partial fulfillment for the Diploma in Medical Laboratory Technology.
- 1990 Involved in some research activities of the academic staff and one of these research programs was documented by the 'BEYOND 2000' television program in September 1990.
- 2001 Ventured to a project titled "Molecular cloning of *Toxoplasma gondii* p22 surface coat protein", and submitted a thesis as partial fulfillment for the Bachelor of Biomedical Sciences degree programme.
- 2009 Attended a workshop in the Microarray Technology at the Malaysian Genome Institute (MGI), Bangi, Selangor.
- 2010 Attended a course and workshop for real time PCR organized by Chemopharm Sdn Bhd.

<p>Working Experience</p>	<p>1990-1993: Medical Technologist, Subang Jaya Medical Center, Selangor.</p> <p>1993-2005: Medical Technologist, Department of Physiology, School of Medicine, University of Malaya.</p> <p>2005-2007: Lecturer, School of Pharmacy, International Medical University, Kuala Lumpur.</p> <p>2010-2012: Assistant Lecturer, Jeffrey Cheah School of Medicine and Health Sciences, Monash University, Kuala Lumpur.</p> <p>2012- 2018: Senior Lecturer, Jeffery Cheah School of Medicine and Health Sciences, Monash University, Kuala Lumpur.</p>
<p>Former and Current Academic Responsibilities</p>	<p>Former (1993 -2005)</p> <ol style="list-style-type: none"> 1. Preparation and demonstration in practical classes for MBBS, BDS, Pharmacy courses. 2. Physiology and Pharmacology lectures for B.Pharm students. 3. PBL Facilitator for B. Pharm students. <p>Current(2011-date)</p> <ol style="list-style-type: none"> 1. Physiology Lecturer: Year 1 and Year 2 MBBS course. 2. Facilitator: PBL sessions for Year 1 and 2 MBBS course 3. Histology Tutor: Year 1 and Year 2 MBBS course 4. Student Project Cases (SPC) Tutor: Year 2 5. Pharmacology & Pharmacology Lecturer: Years 1, 2, 3 and 4;B. Pharmacy course 6. Facilitator: IPE session Year 2 Pharmacy and MBBS students 7. HDR supervision (PhD)

Engagements (Non Academic responsibilities)	<ol style="list-style-type: none"> 1. Panel of interviewers for MBBS new student selection 2. Panel of interviewers for new academic staff selection 3. MBBS course marketing events.
Leadership roles	<p>2005 Coordinator for Cancer chemotherapy unit, School of Pharmacy, IMU, PJ</p> <p>2017 Coordinator for Physiology, MBBS course, JCSMHS</p> <p>2018 Coordinator for Physiology, MBBS course, JCSMHS</p> <p>2018 Coordinator for Hematology, MBBS course, JCSMHS</p>
Research Interest	<ol style="list-style-type: none"> 1. Drug metabolizing enzymes 2. Diabetes and complications 3. Obesity and metabolic syndrome 4. Medical Education Methods, Assessment and Curriculum

<p>Research Projects completed and on-going</p>	<ol style="list-style-type: none"> 1. 1997-1998 Drug abuse screening among psychotic patients (from wad 5UHUM) 2. 1997-1998 Screening for drug abuse among Immigrant workers. 3. 1997 I was a member of UNU (United Nations University) Project: "Environmental Monitoring in the Asian Region". Activity for 1997: Detection for Organotins in fish and VOC (Volatile organic compounds) in coastal waters. 4. 1997 Investigation of Cathinone as compliance studies in Psychotic patients. 5. 1997 Involved in bioavailability and bioequivalence studies of nifedipine. 6. 2001 Molecular cloning of p22 antigenic surface protein of <i>Toxoplasma gondii</i>. 7. 2003 Effects of <i>Citrus grandis</i> crude extracts on CYP2C19 and CYP3A4 activities. 8. 2005 Effects of "Ulams" on drug metabolizing enzymes. 9. 2007-2013 Early Predictors of Diabetic Nephropathy. (PhD Thesis Project) 10. 2013 – to-date Research projects on Pre diabetes, Diabetes, Obesity and Metabolic syndrome
<p>Publications</p>	<ol style="list-style-type: none"> 1. Christina GY, Shahimi MM, Hassan Yaacob. The Effects of Sea Cucumber Water Extract on writhing induced by acetic acid in mice. <i>Journal of Biosciences</i>, Vol 5, Issue 1&2, 1994. 2. Christina GY, MD Lukmi Ismail, Nik Aziz Sulaiman, Shahimi MM, Kim Kah Hwi, Hassan Yaacob, Nancy Yeap. Cardiac Glycoside-like activity of the Malaysian dart poison (Latex of Pokok Ipoh). <i>Mal. J. Med. Lab. Sci.</i> 1994; 11(2); p71 (Abstract)

3. Hwee-Ming Cheng, Christina GY. Cryptic autoantibodies to cell membrane phospholipids unveiled by heat-inactivation of sera.42nd. National Clinical Pathology Congress JAPAN 1995: p290 (Proceeding).
4. Shahimi, MM., AR Tariq. Christina GY, CK Bik, S. Suhaimi. Effects of the Ethanolic extract of *Tinospora crispa* on insulin release in isolated rat Pancreas. Seminar Kimia Sebastian Semulajadi Ke-11: June 1995, Uni Mas Sarawak. (Proceeding)
5. Shahimi, M.M., A.R.Tariq, Christina GY., C.K. Bik, S. Suhaimi. Effects of the water extract of *Stevia rebaudiana* (Linn) on insulin release in isolated rat pancreas. *Mal. J. Med. Lab. Sci.* 1995; 12 (1); p.25-28.
6. Hwee-Ming Cheng, Christina GY. "Natural B-2-Glycoprotein I-independent anticardiolipin antibodies are not" *STROKE* May 1996, 27(5), p. 1007-1008.
7. Christina GY., R Hussein, Z. Mohamed., A.M. Mustafa. Activity of CYP1A2 in smokers and non-smokers using Caffeine as a test substance. Second National Conference on Medical Sciences. June 1996. (Proceeding).
8. Christina GY, A. Zaini, I. Othman. CYP2E1 level in peripheral lymphocytes correlates with early pathogenesis of diabetic nephropathy. *Biomedical Research* 2013: 24(1):153-163.
9. Influence of YouTube videos on the learning of tablet-and capsule-formulation by Malaysian pharmacy students: A pilot study. *Pharmacy Education*, 2015; 15 (1) 248-251.
10. Targeted CYP2E1 quantification and its correlation to currently acceptable clinical biochemical indices. *Journal of Biological Research Thessaloniki* 2016; 23:15. DOI: 10.1186/s40709-016-0052-92016;23:15.
11. Ahmad FM, Xian PC, Christina GY, Jeswant D, Rusli N. Does diabetes mellitus increase the mortality risk in coronary artery disease patients undergoing coronary artery bypass grafting surgery at the National Heart Institute of Kuala Lumpur? *Journal of Diabetes, Metabolic Disorders & Control.* 2018;5(4):141-144.
12. Christina GY, Rakesh N, Kim DJ, Srinivasa RS, Narendra P. Pleiotropic effects of metformin in managing type 2 diabetes and metabolic syndrome: evidences from experimental mouse model. *Biomedical Research* 2018; 29(17);3323-3335. Publication in progress.

Presentation at Conferences

1. Herman RB, Christina GY, Voo. YP, Mustafa AM. Hussain, R., and Lang C.C. Determination of plasma noradrenaline in humans using a novel gas chromatograph-mass spectrometer (GCMS) method. Joint 14th. Scientific Meeting of the Malaysian Society of Pharmacology & Physiology- Cardiac Rehabilitation Conference and Cardiovascular Counseling Workshop, May 1999, Penang, Malaysia.
2. Christina GY, Z. Mohamed and Ruby Husain. 5'hydroxy – omeprazole formation predominantly but not exclusively involves CYP2C19. 20th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology. 25-27th April 2005, Hotel Equatorial Penang.
3. Christina GY, Z. Mohamed and Ruby Husain. Effects of Citrus grandis (Pummelo) Juice and its crude extracts on CYP2C19 and CYP3A4 activities. International Conference in Health Science. 6th -8th May 2005, Sunway Convention Center, Selangor.
4. Christina GY, Z. Mohamed and Ruby Husain. A Validated Assay for Assessing CYP2C19 and CYP3A4 activities simultaneously. International Conference in Health Science. 6th -8th May 2005, Sunway Convention Center, Selangor.
5. Christina GY, A. Zaini, I. Othman, BT. Teh, CM. Wong. Lymphocytic CYP2E1 – A possible early predictor for diabetic nephropathy. Diabetes Asia Conference , 8-12th Oct. 2009 Sunway Convention Center, Selangor.
6. Christina GY, A. Zaini, I. Othman, BT. Teh, CM. Wong. Evaluation of CYP2E1 Gene Expression in Diabetic Nephropathy using Quantitative Real Time PCR. 14th Biological Science Congress 10th-12th Dec. 2009, Chulalongkorn University, Bangkok, Thailand.
7. Christina GY, A. Zaini, I. Othman, BT. Teh, CM. Wong. A Gene Expression Signature as an Early Predictor of Diabetic Nephropathy. ADS/ADEA Scientific Conference 1-4th Sept 2010, Sydney Convention Center.
8. Christina GY, A. Zaini, I. Othman, BT. Teh, CM. Wong. Evidences of CYP2E1 as a possible early predictor for diabetic Nephropathy. Diabetes Asia Conference 5-10th Oct. 2010, Borneo Convention Center, Kuching, Sarawak.
9. Christina GY, A. Zaini, T.Y. Tee, M. Vanessa, L.S. Teh. Be Assured of Reliable HbA1c Results. Diabetes Asia Conference, 6-10th Oct 2011, Sunway Convention Center, Selangor.
10. Christina GY, A. Zaini, I. Othman. Correlation of CYP2E1 expression elevation with extent of glycemic control in comparison to traditional clinical markers for diabetic

	<p>nephropathy. ADS/ADEA Scientific Conference, 28th-31st August 2012 Gold Coast Convention Center, Brisbane, Australia.</p> <ol style="list-style-type: none"> 11. Christina GY, A. Zaini, I. Othman. Diabetic nephropathy: old pathways, new candidate early risk predictors. IDF-WPR Congress 2012, 24-27th Nov, Kyoto, Japan. 12. Christina GY, A. Zaini, I. Othman Targeted CYP2E1 quantification: Research to clinical application. 5th World Congress on Diabetes and Metabolism. Nov. 3rd-4th, 2014, Las Vegas, USA. 13. Christina GY, A. Zaini, I. Othman Optimized LC/MS/MS quantification of CYP2E1: Research to clinical application. Mass Spectrometer Conference 28-29th Oct.2015, Biopolis, Singapore. 14. Christina GY, Narendra P, Rakesh N, Kim DJ. Dual effectiveness of metformin in treating obesity and diabetes in mouse model. International Conference on Metabolic Syndrome, 17-18th October 2016, Rome, Italy. 15. Christina GY, A. Zaini, Arun PM. Endogenous molecules as candidate early indicator for type 2 diabetes. 2nd World Congress on Clinical Trials in Diabetes, 27-28th November 2017, Berlin, Germany. 16. Christina GY, Ahmad FM, Xian PC, Jeswant D, Rusli N. Diabetes Mellitus Increase Mortality Risk in Coronary Artery Disease Patients Undergoing Coronary Artery Bypass Grafting Surgery. 3rd World Congress on Clinical Trials in Diabetes, 3rd - 4th December 2018, Vienna, Austria.
<p>Involvement in professional organizations</p>	<p>Member: Malaysian Society of Physiology and Pharmacology Member: Monash University Malaysia Academic Staff Association (MUMASA) Member: Malaysian Scientific Association</p>
<p>Participation in continuing education</p>	<ol style="list-style-type: none"> 1. Monash Research Forum, 22nd – 23rd July 2008, Monash University, Sunway Campus, Malaysia. 2. Foundations for Effective Teaching CEED (Continuing Education Excellence Development) Module, 9 Jan – 16 Feb, 2017, Monash University Malaysia. 3. Bio Linux-NGS workshop 20-21 Nov 2017, School of Science, Monash University Malaysia, Kuala Lumpur.

	<ol style="list-style-type: none"> 4. EDEXIN (Educational Excellence and Innovation) Conference, 13-14 December 2017, PJ Hilton, Kuala Lumpur. 5. 3rd National Pain Free Conference, 5-6 September 2018, Putrajaya, Kuala Lumpur.
Grants	<ol style="list-style-type: none"> 1. 2012: MOSTI (eScience Fund) Amount: RM347000; Project Title: Application of CYP2E1 as a clinical tool to monitor progression of diabetes and its complications. Research Role: Principle Investigator. 2. 2011: Nano fund Fasa1/2011 (MOSTI) Amount: RM90000; Project Title: Systemic Toxicity Analysis of Nano delivery Drug System Research Role: Co-Researcher. 3. 2016: FRGS (MOHE) grant: Amount:RM100K; Project Title: Neuroprotective and antioxidative nature of environment enrichment exposure on diabetic and stressed rat hippocampus and identification of associated molecular pathways. Research Role: Co-Researcher.
Awards	<ol style="list-style-type: none"> 1. Evaluation of CYP2E1 Gene Expression in Diabetic Nephropathy using Quantitative Real Time PCR. 14th Biological Science Congress 10th-12th Dec. 2009, Chulalongkorn University, Bangkok, Thailand. Prize awarded: Best Poster Presentation. 2. Targeted CYP2E1 quantification: Research to clinical application. 5th World Congress on Diabetes and Metabolism. Nov. 3rd-4th, 2014, Las Vegas, USA. Prize awarded: Best Poster Presentation.

3. Endogenous molecules as candidate early indicator for type 2 diabetes.
2nd World Congress on Clinical Trials in Diabetes, 27-28th November 2017, Berlin, Germany.
Prize awarded: Best Poster Presentation
4. Endogenous molecules as candidate early indicator for type 2 diabetes.
Monash CSJB research week 2017.
Prize awarded: (Poster and oral presentation by year 4 MBBS student)-Second runner up.
5. The anthropometrics, cardio-metabolic health and oral microbiomes of an indigenous tribe.
Monash CSJB research week 2017.
Prize awarded: (Poster and oral presentation by HDR student)- First prize.