Curriculum Vitae

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Education:

- **Bachelor Degree; B.Sc. (Medical Technology), First class honour and Gold medal, Faculty of Associated Medical Sciences, Khon Kaen University, Thailand (2008-2012)**
- **Doctoral Degree; Ph.D. in Biomedical Sciences Program, Graduate School, Khon Kaen University, Thailand (2012-2017)**

Research interests

Genetic disease, Molecular biology, Red cell disorder

Research publications

1. **Jomoui W**, Fucharoen G, Fucharoen S. Study on the origins of hemoglobins S, E, C and Constant Spring by globin gene haplotype analysis. J Med Tech Phy Ther 2014; 26: 129-140.
2. **Jomoui W**, Fucharoen G, Sanchaisuriya K, et al. Hemoglobin Constant Spring among Southeast Asian Populations: Haplotypic Heterogeneities and Phylogenetic Analysis. PLoS ONE 2015; 10(12): e0145230.
3. **Jomoui W**, Fucharoen G, Sanchaisuriya K, et al. Screening of (-SEA) α-thalassaemia using an immunochromatographic strip assay for the ζ-globin chain in a population with a high prevalence and heterogeneity of haemoglobinopathies. J Clin Pathol 2016; 70: 63-68.
4. **Jomoui W**, Fucharoen G, Sanchaisuriya K, Charoenwijitkul P, Maneesarn J, Xu X, Fucharoen S. Genetic origin of α0-thalassemia (SEA deletion) in Southeast Asian populations and application to accurate prenatal diagnosis of Hb Bart's hydrops fetalis syndrome. J Hum Genet. 2017; 62(8):747-754.
5. **Jomoui W**, Fucharoen G, Sanchaisuriya K, et al. Molecular analysis of hemoglobin E in Southeast Asian populations. Ann Hum Biol 2017; 44: 747-750.

6. **Jomoui W**. Novel Tag SNPs of Beta-Globin Gene Cluster in Chinese Han Population: Biological Marker for Genetic Backgrounds and Clinical Studies. Int J Hum Genet 2017; 17: 97-102.
7. **Jomoui W**, Wongprachum K, Karnpean R. Non-invasive Prenatal Testing for Hemoglobin Bart's Hydrops Fetalis Syndrome (SEA Deletion) Using Cell-Free Fetal DNA in Maternal Plasma: Systematic Review and Meta-analysis. Int J Hum Genet 2018; 18: 292-300.
8. **Jomoui W**, Panichchob P, Rujirachaivej P, Panyasai S, Tepakhan W. Coinheritance of Hb A2-Melbourne (HBD: c.130G>A) and Hb E (HBB: c.79G>A) in Laos and Simultaneous High Resolution Melt Detection of Hb A2-Melbourne and Hb A2-Lampang (HBD: c.142G>A) in a Single Tube. Hemoglobin. 2019; 43(3): 214-217.
9. **Jomoui W**, Tepakhan W, Karnpean R. Strong Linkage of the Single Nucleotide Polymorphism rs77308790 with an α0-Thalassemia (- -SEA deletion) Allele and Application for Double-Check Diagnosis of Hb Bart's Hydrops Fetalis Syndrome in Thailand. Hemoglobin. 2019; 43(4-5): 236-240.
10. **Jomoui W**, Tepakhan W, Yamsri S, Srivorakun H, Fucharoen G, Fucharoen S. A novel SNP rs11759328 on Rho GTPase-activating protein 18 gene is associated with the expression of Hb F in hemoglobin E-related disorders. Ann Hematol. 2020; 99(1): 23-29.
11. **Jomoui W**, Tepakhan W, Satthakarn S, Panyasai S. Molecular spectrum of Hb H disease and characterization of rare deletional α-thalassemia found in Thailand. Scand J Clin Lab Invest. 2020; 80(7):528-535.
12. Tepakhan W, **Jomoui W**. Rapid Molecular Detection for Differentiation of Homozygous HbE and ß0-Thalassemia/HbE in Samples Related With HbE >80% and Variable HbF Levels. Lab Med. 2021: 52(3): 232-239.
13. Tepakhan W, Srewaradachpisal K, Kanjanaopas S, **Jomoui W**. Genetics background of β-thalassemia (3.5 kb deletion) in Southern Thailand: Haplotype analysis using novel reverse dot blot hybridization. Ann Hum Genet. 2021; 85(3-4): 115-124..
14. **Jomoui W**, Tepakhan W. Characterization and identification of Prachinburi β0 -thalassemia: A novel-60 kb deletion in beta globin gene related to high levels of Hb F in heterozygous state. Int J Lab Hematol. 2021; 43(4): 200-203.
15. Panichchob P, Iamdeelert P, Wongsariya P, Wongsariya P, Wongwattanasanti P, Tepakhan W, **Jomoui W**. Molecular Spectrum of β-Thalassemia Mutations in Central to Eastern Thailand. Hemoglobin. 2021; 45(2): 97-102.
16. Tepakhan W, **Jomoui W**. Rapid molecular diagnostics of large deletional β0-thalassemia

(3.5 kb and 45 kb) using colorimetric LAMP in various thalassemia genotypes. Heliyon. 2021;7(11):e08372.

17. **Jomoui W**, Srivorakun H, Chansai S, Fucharoen S. Loop-mediated isothermal amplification (LAMP) colorimetric phenol red assay for rapid identification of α0-thalassemia: Application to population screening and prenatal diagnosis. PLoS One. 2022;17(4):e0267832.

18. Karnpean R, Tepakhan W, Suankul P, Poonsawat A, Thanunchaikunlanun N, Ruangsanngamsiri R, **Jomoui W**. Genetic Background Studies of Eight Common Beta Thalassemia Mutations in Thailand Using β-Globin Gene Haplotype and Phylogenetic Analysis. Genes (Basel). 2022;13(8):1384.