

NARUTCHALA SUWANNAKHON



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EDUCATION

PhD (Biochemistry 2010) Naresuan university

MS (Biology 2004) Chiangmai university

BS (Biology 2000) Naresuan university

RESEARCH INTERESTS

- Genetics
- Cytogenetics
- Molecular Biology
- Thalassemia

TEACHING EXPERIENCES

- Genetics
- Cytogenetics
- Human Genetics
- Molecular Genetics

GRANTS

- **National Thai Research Council, 2017-2018:** The development of the two-in one prenatal diagnosis for hemoglobin Bart's hydrops fetalis and Down's syndrome by droplet digital PCR
- **National Thai Research Council, 2018-2019:** Non-invasive prenatal diagnosis using cell free fetal DNA in maternal blood at risk beta-thalassemia /hemoglobin E

National Thai Research Council, 2018-2019: Comparison of routine molecular prenatal diagnosis methods for alpha-thalassemia 1 (SEA deletion) with droplet digital polymerase chain reaction (ddPCR) method

PUBLICATIONS

Suwannakhon N, Pangeson T, Seeratanachot T, Mahingsa K, Pingyod A, Bumrungpakdee W, Sanguansermisri T. Noninvasive prenatal screening test for compound heterozygous beta thalassemia using an amplification refractory mutation system real-time polymerase chain reaction technique. Hematol Rep 2019 Sep 18;11(3):8124. doi: 10.4081/hr.2019.8124.

Suwannakhon N, Pongsawatkul K, Seeratanachot T, Mahingsa K, Pingyod A, Bumrungpakdee W, Sanguansermisri T. The shortcut strategy for beta thalassemia prevention. Hematol Rep 2018;10(2):7530. doi: 10.4081/hr.2018.7530.

Suwannakhon N, Pongsawatkul K, Seeratanachot T, Rasri W, Mahingsa K, Pingyod A, Bumrungpakdee W, Sanguansermisri T. Fast-track strategy for the prevention of Hb Bart's hydrops fetalis syndrome. Thalassemia Reports 2017;7:6620.

Seeratanachot T, Pongsawatkul K, Sanguansermisri T, **Suwannakhon N**, (2014). Improved Efficiency of Thalassemia Prevention Using Fast Track Strategy. J Hematol transfus Med 2017;27(3):233-9

PUBLICATIONS

Pangeson T, Sanguansermisri P, Sanguansermisri T, Seeratanachot T, **Suwanakhon N**, Srikummool M, Kaewkong W, Mahingsa K. Association of Tissue-Specific DNA Methylation Alterations with α -Thalassemia Southeast Asian Deletion. Genet Epigenet. 2017; 9: 1179237X17736107.

Wong P, Sritippayawan S, **Suwannakhon N**, Tapprom A, Deoisares R, Sanguansermisri T. Q Sepharose micro-column chromatography: A simple screening method for identifying beta thalassemia traits and hemoglobin E carriers. Clin Biochem 2016; 49(16-17):1288-91.

Suwannakhon, N., Seeratanachot, T., Mahingsa, K., Sanguansermisri, T. (2015). Molecular Diagnosis of α^0 -Thalassemia Through Urine DNA: A Novel DNA Source to Facilitate Prevention Programs in Remote Geographical Areas. Hemoglobin. 39(4):270-273.

Suwannakhon N, Seeratanachot T, Mahingsa K, Namwong P, Sanguansermisri T. Prevalence of alpha thalassemia trait in the volunteered personals of Phayao University. J Hematol transfus Med 2014;24:129-36.

Thepmalee, C., Sanguansermisri, P., **Suwanankhon, N.**, Chamnanpood, C., Chamnanpood, P., Pongcharoen, S., Niomsap, P.R., Surangkul, D., Sanguansermisri D. (2013). Changes in the NS1 gene of avian influenza viruses isolated in Thailand affect expression of type I interferon in primary chicken embryonic fibroblast cells. Indian J Virol. Dec;24(3):365-72.

SERVICE TO THE FACULTY

- Academic Committee
- Biology Program committee

MEMBERSHIPS / AFFILIATIONS

Thai Association for Cooperative Education

