

ผศ. ดร. ศรัณยู พณิกอร์

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Assistant to the Dean for Education Technology and Quality Assurance

Assistant Professor

Chulabhorn International College of Medicine, Thammasat University, Pathum Thani
Thailand

Clinical Laboratory Supervisor (Genetics)

Next Generation Genomics, Bangkok, Thailand

Education

2006

B.S. (Biology) Hons

Major subject : Biology (Genetics and Molecular Biology Program)

Minor subject : Microbiology

Department of Biology, Faculty of Science, Chiang Mai University

Chiang Mai, Thailand.

2011

Ph.D. (Biochemistry) International Program

Department of Biochemistry, Faculty of Science, Mahidol University

Bangkok, Thailand.

Field of interest

Molecular Biology and Cell Biology

Molecular Genetics and Genomics in Reproductive Medicine

Stem Cell in Translational Research

Molecular Genetics, Genomics and Proteomics

Current Research

1. Proteomics and systems biology approach for elucidation of ineffective erythropoiesis in HbE/beta-thalassemic stem cell
2. Mesenchymal stem cell model in drug discovery
3. Stem cell in investigative dermatology
4. Development molecular techniques for preimplantation genetic diagnosis, non-invasive prenatal diagnosis and prenatal test

Honors/Awards-

Thailand Research Fund 2014-2016

National Research Council of Thailand 2015-2016

Young Scientist Research Grant of Thammasat University 2015

Young Scientist Award, Thammasat University 2017

Publication

1. Ponnikorn S, Mongkolrob R, Klongthalay S, Roytrakul S, Srisanga K,

Tungpradabkul S, Hongeng S. Comparative Proteome-Wide Analysis of Bone Marrow

Microenvironment of β -Thalassemia/Hemoglobin E. *Proteomes*. 2019 Feb 23;7(1).

2. Meephansan J, Pongcharoensuk T, Thummakriengkrai J, Ponnikorn S, Yingmema W, Deenonpoe R. Effect of tofacitinib on the expression of noggin/BMP-4 and hair growth stimulation in mice. *Arch Dermatol Res*. 2018 Dec;310(10):843-848.

3. Meephansan J, Unggraphakorn N, Ponnikorn S, Suchonwanit P, Poovorawan Y. Efficacy of 1,550-nm Erbium-Glass Fractional Laser Treatment and Its Effect on the Expression of Insulin-Like Growth Factor 1 and Wnt/ β -Catenin in Androgenetic Alopecia. *Dermatol Surg*. 2018 Oct;44(10):1295-1303.

4. Srijiwangsa P, Ponnikorn S, Na-Bangchang K. Effect of β -Eudesmol on NQO1 suppression-enhanced sensitivity of cholangiocarcinoma cells to chemotherapeutic agents. *BMC Pharmacol Toxicol*. 2018 Jun 19;19(1):32.

5. Meephansan J, Thummakriengkrai J, Ponnikorn S, Yingmema W, Deenonpoe R, Suchonwanit P. Efficacy of topical tofacitinib in promoting hair growth in non-scarring alopecia: possible mechanism via VEGF induction. *Arch Dermatol Res*. 2017 Nov;309(9):729-738.

6. Joompa P, Ponnikorn S, Roytrakul S, Tungpradabkul S. Investigation of host-pathogen interaction between *Burkholderia pseudomallei* and autophagy-related protein LC3 using hydrophobic chromatography-based technique. *Cell Biosci*. 2017 Aug 23;7:45.

7. Meephansan J, Subpayasarn U, Ponnikorn S, Chakkavittumrong P, Juntongjin P, Komine M, Ohtsuki M, Poovorawan Y. Methotrexate, but not narrowband ultraviolet B radiation, suppresses interleukin-33 mRNA levels in psoriatic plaques and protein

levels in serum of patients with psoriasis. *J Dermatol.* 2018 Mar;45(3):322-325.

8. Meephansan J, Rungjang A, Yingmema W, Deenonpoe R, Ponnikorn S. Effect of astaxanthin on cutaneous wound healing. *Clin Cosmet Investig Dermatol.* 2017 Jul 13;10:259-265.

9. Sanongkiet S, Ponnikorn S, Udomsangpetch R, Tungpradabkul S. Burkholderia pseudomallei rpoS mediates iNOS suppression in human hepatocyte (HC04) cells. *FEMS Microbiol Lett.* 2016 Aug;363(15).

10. Panichakul T, Ponnikorn S, Roytrakul S, Paemanee A, Kittisenachai S, Hongeng S, Udomsangpetch R. Plasmodium vivax inhibits erythroid cell growth through altered phosphorylation of the cytoskeletal protein ezrin. *Malar J.* 2015 Mar 31;14:138.

11. Ponnikorn S, Panichakul T, Sresanga K, Wongborisuth C, Roytrakul S, Hongeng S, Tungpradabkul S. Phosphoproteomic analysis of apoptotic hematopoietic stem cells from hemoglobin E/ β -thalassemia. *J Transl Med.* 2011 Jun 25;9:96.

International Conference

1. **Saranyoo Ponnikorn***, Saripaporn Suwannasing, Sirimarn Martkamchan, Kritchakorn Savakwongpra, Wanwisa Suksalak², Kulvadee Tangmansakulchai², Sujin Chanchamroen, Wiwat Quangkananurak. Development of High-Resolution Melting Analysis for Preimplantation Genetic Diagnosis of Alpha Thalassemia-1 Southeast Asian Type (SEA). Laboratory Medicine Congress Exhibition and Korean Society for Laboratory Medicine 2017.
2. Thanet Pongcharoensuk, **Saranyoo Ponnikorn**, Jitlada Meephansan. Topical tofacitinib reduce expression of BMP-4 in mouse hair follicle. Proceeding the 33rd International Annual Meeting in Pharmaceutical Sciences 2017.
3. Jindapa Thummakriengkrai, **Saranyoo Ponnikorn**, and Jitlada Meephansan. Efficacy of Topical Tofacitinib in Promoting Hair Growth in Mice. Proceeding the iGRC meeting 2016.

4. Wanwisa Suksalak, Sirimarn Martkamchan, Kulvadee Tangmansakulchai, Chanakarn Jiramongkolrat, Sujin Chanchamroen, Tida Ruttanajit, **Saranyoo Ponnikorn** and Wiwat Quangkananurug. Pre-implantation genetic diagnosis of DNA repeated expansion in the ATXN3 gene, the Machado-Joseph Disease. The ASPIRE 2016 Jakarta Indonesia.
5. Tida Ruttanajit, **Saranyoo Ponnikorn**, Sujin Chanchamroen, Kritchakorn Sawakwongpra, Wanwisa Suksalak, Sirimarn Martkamchan and Wiwat Quangkananurug. NGS-based aneuploidy diagnosis and validation; the first report from Thailand. The ASPIRE 2016 Jakarta Indonesia.
6. **Saranyoo Ponnikorn**. Decoding Stem Cell Signaling by Phosphoproteomic Approach. Oral presentation in BIT 9th World Congress of Regenerative Medicine and Stem Cell. 16-18 March 2016. Seoul. South Korea.