

# อ.ดร.ดวงรัตน์ ชูวิสิฐกุล

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UKPSF certification

## Research Interest

- Formulation of solid dosage forms and biopharmaceutical products
- Hot-melt extrusion
- Quality by Design

### บทความวิจัยตีพิมพ์ในวารสารวิชาการระดับชาติและนานาชาติ (update 2025)

1. Jarmkom, K., Khobjai, W., Teachaoei, S., & **Shuwisitkul, D.** (2021). Synthesis of carboxymethyl cellulose from rice husk. *International Journal of Applied Pharmaceutics*. 13 (Special issue 1), 50-54.
2. Thaitirarot, S., **Shuwisitkul, D.**, Udompataikul, M., Kamanamool, N., & Kanokrungrsee, S. (2023) The efficacy of a transdermal hydrogel patch containing betamethasone dipropionate for treatment of chronic hand eczema: A single-blind, randomized and controlled trial. *Contact Dermatitis*. 90(2), 153-160.

### บทความวิจัยฉบับเต็มจากการประชุมวิชาการระดับชาติหรือนานาชาติ (update 2025)

1. Kosawang, W., Lertsarawut, P., Tunvichien, S. & **Shuwisitkul, D.** (2022, June). Enhancing solubility of meloxicam using solid dispersion technique prepared by spray drying method: effect of polymer blend. Paper presented at the 5th International Conference and Exhibition on Pharmaceutical Sciences and Technology. Bangkok, Thailand. p44 – 48.
2. Wongjittaporn, T., Lertsarawut, P., Tunvichien, S. & **Shuwisitkul, D.** (2022, June). Development of quercetin-loaded hyaluronic acid nanoparticles for enhancing anticancer activity by using polymer-drug conjugation. Paper presented at the 5th International Conference and Exhibition on Pharmaceutical Sciences and Technology. Bangkok, Thailand. p27 – 31.
3. Chawchaikhong, N., Busun, N., Managit, C., Tunvichien, S., Wiranidchamong, C. & **Shuwisitkul, D.** (2025, June). Influence of polymer molecular weight on physical properties and cytotoxicity of folic acid conjugated hyaluronic acid nanoparticles loading curcumin. Paper presented at the 8th International Conference and Exhibition on Pharmaceutical Sciences and Technology. Bangkok, Thailand. p70 – 73.
4. Tangjidapichai, C., Buranatrakul, P. & **Shuwisitkul, D.** (2025, June). Process optimization of butyric acid-conjugated hyaluronic acid nanoparticles loading curcumin for colorectal cancer therapy. Paper presented at the 8th International Conference and Exhibition on Pharmaceutical Sciences and Technology. Bangkok, Thailand. P26 – 30.