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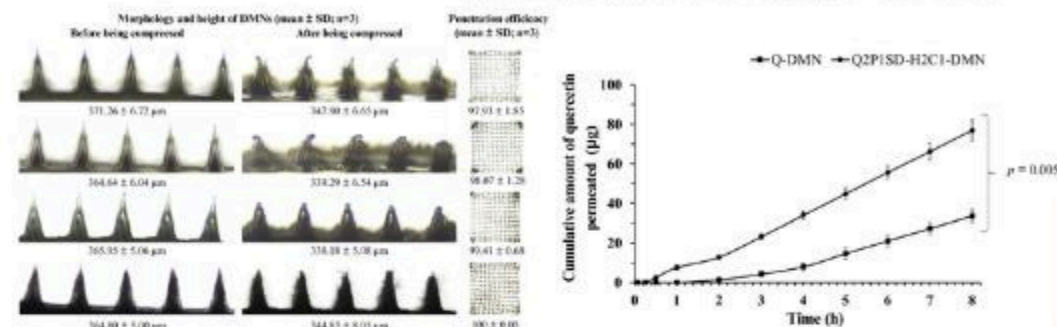
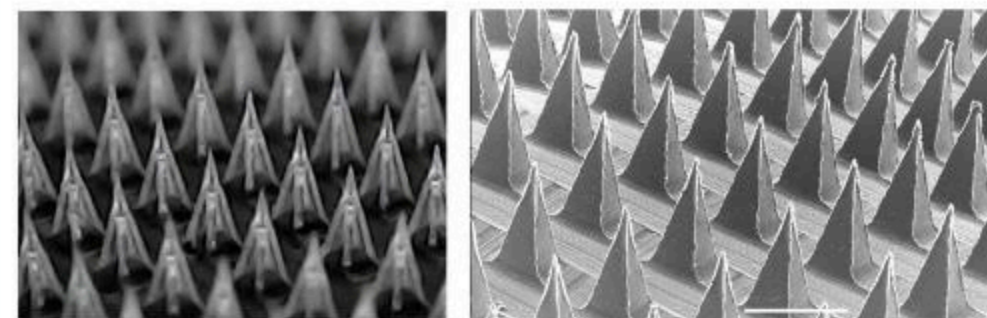
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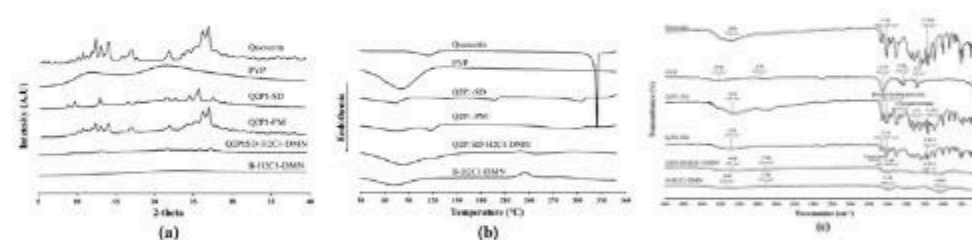
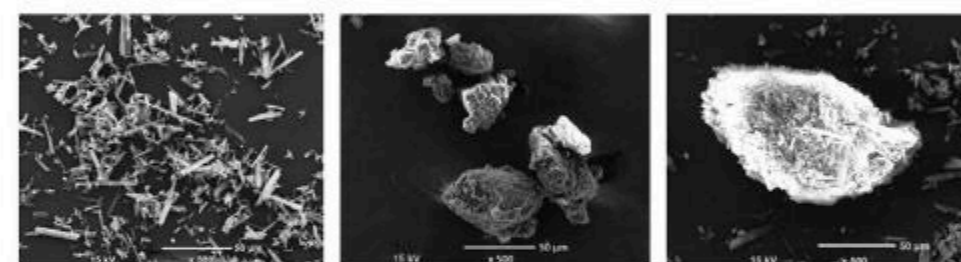
Website: www.im.rmutt.ac.th

Research Interest

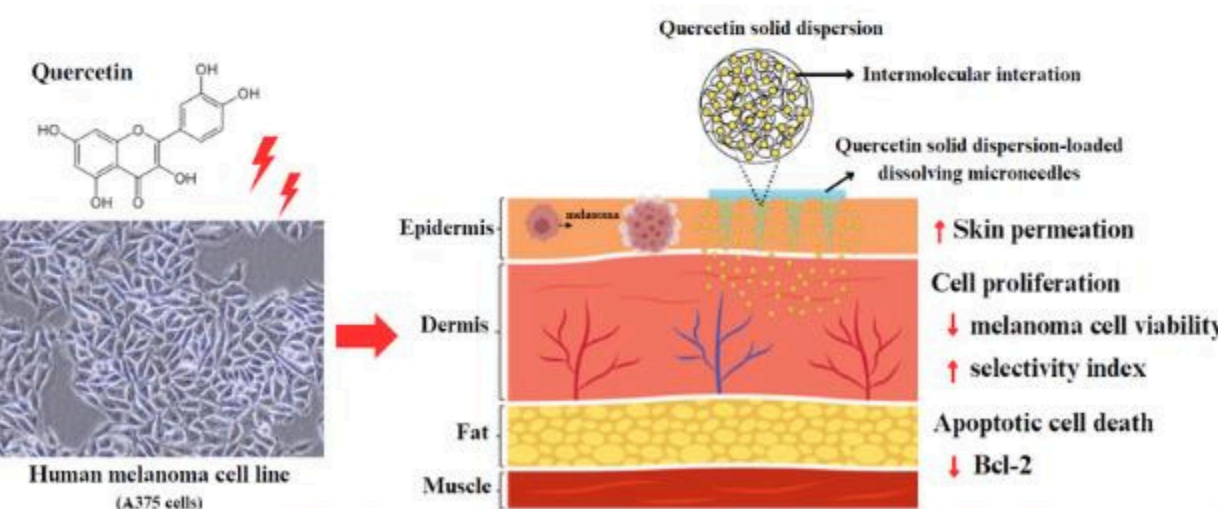
- Microneedle Technology for Drug Delivery
- Nanotechnology-based Cosmeceuticals
- Development of Anti-aging, Whitening, and Anti-inflammatory Products
- Extraction and Bioactivity Evaluation of Natural Products



Microneedle Technology for Drug Delivery



Solid Dispersion Technology to Enhance Drug Solubility



Development and Evaluation of Lycopene-loaded Lyophilized Nanoemulsions

These products have been approved and registered by the Thai Food and Drug Administration (FDA).



More information: Khuanekkaplan, M., Netsomboon, K., Fristiohady, A., Asasutjarit, R. (2024). Development of quercetin solid dispersion-loaded dissolving microneedles and in vitro investigation of their anti-melanoma activities. *Pharmaceutics*. 16(10):1276. doi:10.3390/pharmaceutics16101276

Khuanekkaplan, M., Khobjai, W., Noysang, C., Wisidsri, N., & Thungmungmee, S. (2021). Bioactivities of karanda (*Carissa carandas* Linn.) fruit extracts for novel cosmeceutical applications. *Journal of Advanced Pharmaceutical Technology & Research*. 12(2):162-168. doi:10.4103/japtr.JAPTR_254_20