



# BENJAMAPORN SUPAWAT

DEPARTMENT OF RADIOLOGIC TECHNOLOGY



+6653-93-5072

benjamaporn.s@cmu.ac.th

## Education

- 2025 Chiang Mai University  
Ph.D Biomedical Science
- 2019 Chiang Mai University  
M.Sc. Radiation Science
- 2015 Chiang Mai University  
B.Sc. Radiologic Technology

## Research areas of interest

- Molecular Imaging
- Biomedical Radiation Sciences

## Research theme

**Dissertation** Department of Radiologic technology,  
Faculty of Associated Medical Sciences, Chiang Mai  
University

Cell culture, Molecular Imaging, and Radiobiology

## Publication

Aye, K.T., Wattanapongpitak, S., Supawat, B. *et al.* Effect of pre-low-dose irradiation on anticancer activities of gallic acid in leukemic K562 and K562/Dox cells: cell viability and cellular energetic state studies. *Med Oncol* 39, 229 (2022).  
<https://doi.org/10.1007/s12032-022-01835-4>

Supawat, B., Kothan, S., Kaewkhao, J., Tima, S., & Tungjai, M. (2025). Effect of low-dose radiation on the kinetics of pirarubicin and daunorubicin transport in K562 cells and drug resistant K562/adr cells. *Radiation Effects and Defects in Solids*, 1–17.  
<https://doi.org/10.1080/10420150.2025.2495583>

Supawat B, Tungjai M, Wantana N, Kirdsiri K, Pakawanit P, Phoovasawat C, et al. Application of Sm<sup>3+</sup> doped Gd<sub>2</sub>O<sub>3</sub>–Y<sub>2</sub>O<sub>3</sub>–ZnO–B<sub>2</sub>O<sub>3</sub> glass for development of X-ray imaging scintillator. *Radiation Physics and Chemistry*. 2024;224:112049.

Phadngam S, Sutinkat Y, Supawat B, Kothan S, Tima S, Pornwiang S, et al. Effect of pre-exposure to low-dose radiation followed by H<sub>2</sub>O<sub>2</sub> treatment on leukemic cells proliferation. *Journal of Associated Medical Sciences*. 2025;58(2):73-9.

Aye, K.T., Wattanapongpitak, S., Supawat, B. *et al.* Effect of pre-low-dose irradiation on anticancer activities of gallic acid in leukemic K562 and K562/Dox cells: cell viability and cellular energetic state studies. *Med Oncol* 39, 229 (2022).  
<https://doi.org/10.1007/s12032-022-01835-4>