



# JIRAPORN KANTAPAN

DEPARTMENT OF RADIOLOGIC TECHNOLOGY



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## Education

2008-2017 Chiang Mai University  
Ph.D. in Biomedical sciences)

2003-2007 Chiang Mai University  
B.Sc. in Radiologic technology  
(Gold medal 1<sup>st</sup> Honors)

## Research areas of interest

- Radiobiology and Radiotherapy
- Cancer and Stem cell biology
- Proteomics
- Multidrug resistance in cancer and novel drug discovery
- Molecular Imaging

## Research theme

1. Proteomics & Genomics: Molecular signatures of NCD progression, treatment response, and radiation effects
2. Exosome & micro-RNA Research: MIT-RU conducts mechanistic and translational research on exosomes and microRNAs secreted from stem cells and tumor-associated macrophages (TAMs), focusing on their regulatory roles in wound healing, tumor microenvironment modulation, and cancer progression.
3. Translational Studies: Use of Thai bioactive compounds and metal-polyphenol systems to enhance chemo-/radiotherapy efficacy and modulate disease-related

## Publication

- 2026
1. Dechsupa N, Innuan P, Ihsan W, Korbuakesorn C, Siri K, Tepinta P, Ariyawatkul P, Khamphorn R, Phohiran S, Wen C, Laopajon W, Kantapan J. Iron-*quercetin* complex reprograms tumor-associated macrophages toward M1 phenotype and enables MRI tracking in ex vivo tumor-mimicking spheroids. *Cancer Nano* (2026). <https://doi.org/10.1186/s12645-026-00362-5>.
  2. Chawapun P, Khamto N, Halimi YF, Utama K, Siriphong S, Janthong A, Dechsupa N, Kantapan J, Kungwan N, Rungrotmongkol T, Meepowpan P, Sangthong P. Targeting the phosphoinositide 3-kinase signaling pathway and epidermal growth factor receptor: The potential of dimethylcardamonin-derived amino acids in triple-negative breast cancer therapy. *Bioorg Chem*. 2026 Jan 7; 170: 109483. doi: 10.1016/j.bioorg.2026.109483.
  3. Utama K, Khamto N, Halimi YF, Janthong A, Siriphong S, Chawapun P, Dechsupa N, Kantapan J, Van Doan H, Meepowpan P, Rungrotmongkol T, Roytrakul S, Sangthong P. Gallic acid-conjugated 2',4'-dihydroxy-6'-methoxy-3',5'-dimethylchalcone induces apoptosis and downregulates PI3K/Akt signaling through VEGFR-2 targeting in non-small cell lung cancer (NSCLC). *Biomed Pharmacother*. 2026 Jan 6;195:118968. doi: 10.1016/j.biopha.2025.118968.
- 2025-2016
- Published more than 46 original papers in international journals.

ResearchGate:

<https://www.researchgate.net/profile/Jiraporn-Kantapan->