

Research Specialty



Assistant Professor

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Clinical Microscopy

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Research areas :

- Cell signalling
- Stem cells
- Antileukemic activity
- Medicinal plants

Research highlight

I am particularly interested in the field of alternative medicine for leukemia treatment. My research explores mechanisms of active compounds from medicinal plants mediated apoptosis and autophagy of leukemic cells. My current work is focused on anti-leukemic activities of quercetin and rutin. Ongoing project is rutin-mediated leukemic cells death via GSK3 β - signaling pathway.



Research partnerships :



Selected publications :

Thrombopoietin (TPO) induces c-myc expression through a PI3K- and MAPK-dependent pathway that is not mediated by Akt, PKC ζ or mTOR in TPO-dependent cell lines and primary megakaryocytes. *Cell Signal.* 2006; 18(8): 1212-1218.

Effects of *Houttuynia cordata* Thunb extract, Isoquercetin and Rutin on cell growth inhibition and apoptotic induction in K562 human leukemic cells. *J Chem Pharm Res.* 2012; 4(5):2590-2598.

Prevalence of JAK2V617F Mutation and Its Clinical Correlation in Thais with Myeloproliferative Neoplasm. *Int J Biol Med Res.* 2012; 3(2): 1801-1805.

Antileukemic activity of *Houttuynia cordata* Thunb. extracts in Jurkat and U937 human leukemic cells. *J Chem Pharm Res.* 2011; 3(4): 204-212.

Molecular prevalence of thalassemia and hemoglobinopathies among the Lao Loum Group in the Lao People's Democratic Republic. *International Journal of Laboratory Hematology.* 2019; 41(5): 650-656