

P-050: ANTIANGIOGENEIC AND ANTITUMOR ACTIVITIES OF IRIGENIN ISOLATED FROM THE RHIZOMES OF *BELAMCANDA CHINENSIS*

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The present study was carried out to clarify whether isoflavonoids isolated from the rhizomes of *Belamcanda chinensis* (Iridaceae) inhibit angiogenesis by the experimental methods in vitro and in vivo. Among the isolated isoflavonoids, irigenin decreased angiogenesis of chick embryos in the chorioallantoic membrane (CAM) assay. This compound, when administered subcutaneously at the dose of 30 mg/kg for 20 days to mice implanted with murine Lewis lung carcinoma (LLC), caused a significant inhibition of tumor volume. In the previous study, we reported that irigenin inhibited NO and PGE₂ production in LPS induced RAW 264.7 macrophage cells by inhibiting the induction of iNOS and COX-2 protein. Therefore, antiangiogenic activities of irigenin from the rhizomes of *Belamcanda chinensis* might be due to inhibition the induction of COX-2 and iNOS enzyme.