

**ANTI-PROLIFERATIVE AND CYTOTOXIC ACTIVITY OF *ILONGOT*
EGONGOT ETHNOBOTANICALS AGAINST HUMAN BREAST
CANCER CELL LINE (MCF-7) USING MTT ASSAY**

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ABSTRACT

TAPANG, LIZETTE BALMATER, Department of Biological Sciences, College of Arts and Sciences, Central Luzon State University, Science City of Muñoz, Nueva Ecija, Philippines, **JUNE 2019, ANTI-PROLIFERATIVE AND CYTOTOXIC ACTIVITY OF *ILONGOT-EGONGOT* ETHNOBOTANICALS AGAINST HUMAN BREAST CANCER CELL LINE (MCF-7) USING MTT ASSAY**

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Leaves and stem extract of five ethnobotanicals of the *Ilongot-Egongot* community of Aurora, Philippines were examined for their antiproliferative and cytotoxicity activity against human breast cancer cell lines (MCF-7) using the MTT assay, a calorimetric assay that is use for measuring the metabolic activity of the cell. The tested ethnobotanicals include *Ceiba pentandra* (Local name: Betek), *Hydrocotyle vulgaris* (Local name: Gotukola), *Urena lobata* (Local name: Pukot), *Phyllanthus urinaria* (Local Name: Taltalikod), and *Senna alata* (Local name: Acapulco). The five ethnomedicinal plants that tested showed IC_{50} values $>$ than $30\mu\text{g/ml}$ and indicates absence of anti-cancer activity against human breast cancer cell line (MCF-7) using the MTT assay.

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