

Abstract

Cultivation of white gwow kreur (Pueraria mirifica = PM) was investigated. Then the development of PM tuber from the cultivated PM were also studied in the natural habitat. It was found that 2 - year PM could produce 4 - 7 tubers and the length and width of tuber was about 7.6 - 22.5 cm./tuber, 5.0 - 15.2 cm./tuber respectively. Investigation of estrogen like activity of PM was done together with each kind of the test material and it was revealed that only Samor Thai and Yakult could antagonize the estrogen like activity of PM by decreasing the estrogen like activity of PM. When fed the fruit fly (Drosophila sp.) with the dried PM tuber powder mixed with vitamilk, it was found that PM pronounced the contraceptive effect in this fruit fly whereas a contraceptive pill used in human (Noriday) could not have the contraceptive effect in this fruit fly. PM could also toxic to the fruit fly which resulted in death. Dried PM tuber powder mixed with modified milk powder 1 : 2 by weight fed to the American cockroach (Periplaneta americana) had no contraceptive effect in this cockroach.