ABSTRACT
Diabetes mellitus is united symptoms happened to human, signed with high blood glucose over the normal range (hyperglycemia) because of insulin lack of the body, both absolute and relative. People, who have been suffered from diabetes mellitus, treat the disease by consume syntetic medicine and antibiotic which have many side effect. But, a tendency in using the syntetic medicine has been changed. Recently, it shows the indication that people with diabetes mellitus prefer use traditional / natural medicine to use the syntetic one, it is because of the using of nature things is safer than synthetic. Muntingia callabura L. fruit is one of the plants that presumed has active substance as antidiabetic. Those are ascorbid acid, fiber, betacaroten and niacin.

The research has purposes to know whether kersen’s (Muntingia calabura L.) fruit juice influence in lowering mouse’s (Rattus norvegicus) blood glucose and to know the most effective dose of the juice in lowering mouse’s (Rattus norvegicus) blood glucose. This research included as true experiment, which its design was complete random design (rancangan acak lengkap/RAL) consist of 6 treatment, those are treatment A (normal treatment), treatment B (hyperglycemic treatment), treatment C (alloxan + 2 ml), treatment D (alloxan + 3ml), treatment E (alloxan + 4 ml), treatment F (alloxan + 5 ml). Each of it consist of 4 times repetition. The population in this research is male mouse (Rattus norvegicus). The analyze of blood glucose used method of GOD-PAP. The research was carried out on October,27 – December 20 2008.

Result of the research has showed that Muntingia calabura L. fruit juice influences in lowering blood glucose. Its best treatment that able in lowering blood glucose is kersen’s (Muntingia calabura L.) fruit juice with 4 ml dose.